

Duane Arnold Energy Center

June 12, 2007

NG-07-0492 10 CFR 50.55a

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

Duane Arnold Energy Center Docket 50-331 License No. DPR-49

Inservice Inspection Report

In accordance with the requirements of Paragraph IWA-6230 of ASME, Section XI, 1989 Edition/No Addenda (3rd interval), Paragraph IWA-6240 of ASME, Section XI, 2001 Edition/2003 Addenda (4th interval) and 10 CFR Section 50.55a(g), FPL Energy Duane Arnold LLC hereby submits the Refueling Outage (RFO) 20 Inservice Inspection Summary Reports (Enclosures 1 and 2). This report addresses examinations that were performed at the Duane Arnold Energy Center (DAEC) during the time period from May 4, 2005 through March 18, 2007. Information regarding augmented inspections performed during RFO 20 is included in Enclosure 3.

As noted on the Form NIS-1 included in each of the RFO 20 Summary Reports, the third ten-year interval began on November 1, 1996 and ended on October 31, 2006 and the fourth ten-year interval began on November 1, 2006.

This letter contains no new commitments nor revises any previous commitments.

If you have apy questions, please contact Steve Catron at (319) 851-7234.

Ƴar∖x V*a*rh Middlesworth

Site Vice President, Duane Arnold Energy Center

FPL Energy Duane Arnold, LLC

Enclosures (3)

cc: Administrator, Region III, USNRC

Project Manager, DAEC, USNRC Resident Inspector, DAEC, USNRC

A047

ENCLOSURE 1 TO NG-07-0492

THIRD TEN YEAR INSERVICE INSPECTION SUMMARY REPORT

DUANE ARNOLD ENERGY CENTER

UNIT #1 PALO, IOWA

Commercial Service Date: February 1, 1975

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION SUMMARY REPORT

May 4, 2005 through October 31, 2006

Dated: June 1, 2007

OWNER:

FPL ENERGY Duane Arnold LLC

P.O. Box 14000

Juno Beach, FL 33408-0420

| | \sim | |
|---------------|-------------------------------------|---------------|
| Prepared by: | ASME Section XL Administrator | Date: 5/31/07 |
| Reviewed by: | NDE Level III | Date: 5/81/07 |
| Reviewed by: | Scott Instru | Date: 6-1-07 |
| Reviewed by: | Inspection and Materials Supervisor | Date: 6-1-07 |
| Concurred by: | Program Engineering Manager | Date: 6-1-07 |

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

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May 4, 2005 through October 31, 2006

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As Required by the Provisions of the ASME Code Rules

| 1.Owner: FPL Energy Duane Arnold LLC, PO Box 14000 Juno Beach, FL 33409-0420 | | |
|--|---------------------|------|
| (Name and address of Owner) | | • |
| 2. Plant: Duane Arnold Energy Center, 3277 DAEC Road, Palo, IA 52324 | | • |
| (Name and Address of Plant) | | |
| 3. Plant Unit 4. Owner Certificate of Authorization (if required) | N/A | - |
| 5. Commercial Service Date <u>02/01/75</u> 6. National Board Number of Unit | N/A | - |
| 7. Components Inspected | | |
| This report includes a Table of Contents (P1), Part A (PP1-2), | Part B (PP1-2), Par | rt C |
| (P1), Part D (P1), Part E (P1), | | |
| Part F (P1), Part G (PP1-4), Part H (P1), Part I (PP1-3), Part J | (PP1-5), and Part K | |
| (P1). | | |

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|-------------------------------------|------------------------------|--------------------------------------|-----------------------|-----------------------|
| Reactor Pressure Vessel (RPV) | Chicago Bridge & Iron | 3-4833 | N/A | 3663 |
| Refer to Part | B, Pages 1-2, of thi | s report for a contir | nuation of compone | nts examined |
| | | | | |
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8.5 X 11 inches, (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.

(12/82) This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y 10010

May 4, 2005 through October 31, 2006

Part A, Page 2 of 2

FORM NIS-1 (back)

| 8. Examination Dates <u>5/04/05</u> to <u>10/31/06</u> 9. Inspection Interval from <u>11/01/96</u> to <u>10/31/06</u> |
|--|
| 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Refer to Part C, Part D, and Part J. |
| 11. Abstract of Conditions Noted Refer to Part H. |
| 12. Abstract of Corrective Measures Recommended and Taken Refer to Part H. |
| 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 JUNE 12 2007 Signed By JOHN BJORSETH |
| Certificate of Authorization No. (if applicable) Expiration Date |
| 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 Iowa and employed by HSB CT of Hartford CT have inspected the components described in this Owner's Data Report during the period 5/04/05 to 10/31/06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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 6-12 2007. |
| J3L |
| Inspector's Signature National Board, State, Province and No. |
| |

May 4, 2005 through October 31, 2006

Part B, page 1 of 2

1) Owners: FPL Energy Duane Amold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

COMPONENTS EXAMINED:

Reactor Pressure Vessel:

Manufacturer:

Chicago Bridge and Iron Post Office Box 13308 Memphis, TN 38113

National Board Number 3663, Mfr. Serial Number 3-4833

Refer to Part A, Page 1, form NIS-1, Owners Data Report for Inservice Inspections.

Piping:

Manufacturers, sizes, part numbers and locations are noted and traceable through the piping isometric and piping instrumentation drawings (P&ID). Installation contractor, fabricator, systems P&ID's and Isometric drawings are listed below.

Constructor:

Bechtel Power Co. P.O. Box 3865 San Francisco, CA 94119

Fabricator -

Southwest Fabricating and Welding Co. P.O. Box 9449 Houston, TX 77011

May 4, 2005 through October 31, 2006

Part B, page 2 of 2

| | _ | | | | | | | | | | |
|----|---------|--------|-------------|---------|-----|--------|-------|--------|---------|----------|-------|
| 1) | Owners: | FPL Er | ierov Dijan | e Amold | LLC | PO Box | 14000 | Juno F | Reach F | T. 33409 | -0420 |

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

COMPONENTS EXAMINED:

| | CLASS 1 |
|----------------|--|
| Component | Iso No |
| Reactor Vessel | VS-01-41 |
| | IVVI |
| Component | Iso No |
| | No Examinations performed during RFO20 |
| | CLASS 2 |
| Component | Iso No |

No Examinations performed during RFO20

May 4, 2005 through October 31, 2006

Part C, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

ABSTRACT:

The Inservice Inspection addressed in this report was performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI 1989 Edition, No Addenda, and the Duane Arnold Energy Center Updated Final Safety Analysis Report. The inspections were performed utilizing Non-Destructive Examination Techniques (i.e., UT, PT, MT, etc.). The examinations were conducted during the period of May 04, 2005 through October 31, 2006. The specific details and associated records of the examinations are on file at Duane Arnold Energy Center.

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

PART D Inservice Inspection Report RFO-20

- 1. Owner:
- 2. Plant:
- 3. Plant Unit:

- 4. Owner Certificate of Authorization (If Req.):
- 5. Commercial Service Date:
- 6. National Board Number for Unit:

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------------|---------------------------------------|--|---------|-------------------|-------------------------|-------------|---------------------|----------------|
| ISI Interva | · | | | | | | | |
| Class 1 (| Category B-A VLA-A001 | REACTOR VESSEL (COURSE 1 VERT WELD @ 54 DEG) | B1.12 | ISwT-PDI- AUT1 | UT / VE-07-016 / Accept | RPV | VS-01-41 SHT- 01 | 4/19/2007 |
| 700 | VLA-A002 | REACTOR VESSEL (COURSE 1 VERT WELD @ 234 DEG) | B1.12 | ISwT-PDI- AUT1 | UT / VE-07-017 / Accept | RPV | VS-01-41 SHT- 01 | 4/19/2007 |
| IWE Interv | • | | | | | | | |
| Class C 500401 | Category E-A DW INT 757- 776 SE | DW INTERIOR BETWEEN 757 to 776 (0-90) | E1.12 | ACP1211.18 | VT / VT-07-023 / Accept | DW | N/A | 2/14/2007 |
| 500451 | DW INT 776- 798 SE | DW INTERIOR BETWEEN 776 TO 798 (0-90) | · E1.12 | ACP1211.18 | VT / VT-07-024 / Accept | DW | N/A | 2/14/2007 |
| 502100 | DRYWELL STAB #2 | DRYWELL STABILIZER #2 (45¦) X-58H | E1.12 | ACP1211.18 | VT / VT-07-034 / Accept | DW | N/A | 2/14/2007 |
| 504700 | STP 3.6.1.1- 01 | ACCESSIBLE AREAS | E1.11 | ACP1211.18 | VT / VT-07-123 / Accept | CONTAINMENT | | 3/2/2007 |
| Class C 502050 | Category E-G DRYWELL STAB #1 | G DRYWELL STABILIZER #1 (0¦) BOLTING | E8.10 | ACP1211.18 | VT / VT-07-029 / Accept | DW | N/A | ; 2/14/2007 |
| 502250 | DRYWELL STAB #3 | DRYWELL STABILIZER #3 (90¦) BOLTING | E8.10 | ACP1211.18 | VT / VT-07-030 / Accept | DW | N/A | 2/14/2007 |
| 502650 | DRYWELL STAB #7 | DRYWELL STABILIZER #7 (270¦) BOLTING | E8.10 | ACP1211.18 | VT / VT-07-031 / Accept | DW | N/A | 2/14/2007 |
| 504000 | CRD BOLTS | CRD HATCH BOLTING (24 EA) | E8.10 | ACP1211.18 | VT / VT-07-057 / Accept | DW | C003-156 | 2/20/2007 |

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

Part E, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ADDITIONAL EXAMINATION IDENTIFICATION RECORDS

| | Tal. | DI LIOI III DI | | | |
|-----------------------|-------------------------------|----------------------|-------------|---------------------|---------|
| | | Cla | ass 1 | | |
| Component Examined | Previous ISI Report Number | ISI Report Number | Examination | ASME XI Category | Results |

NO ADDITIONAL EXAMS WERE PERFORMED DURING THE THIRD PERIOD FOR THIS CYCLE

SUCCESSIVE EXAMINATION IDENTIFICATION RECORDS

| | | CI | uoo 1 | | | ł |
|-----------------------|-------------------------------|----------------------|-------------|------------------|---------|---|
| Component Examined | Previous ISI Report Number | ISI Report Number | Examination | ASME XI Category | Results | |
| | | | | | | ļ |

SUCCESSIVE EXAMS ARE DOCUMENTED IN THE FIRST PERIOD OF THE FOURTH TEN YEAR INTERVAL SUMMARY REPORT

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31,-2006

May 4, 2005 through October 31, 2006

Part F, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF ASME SECTION XI REPAIRS AND REPLACEMENTS

The repairs and replacements addressed in this report were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 1992 with the 1992 Addenda (Ref. Relief Request NDE-R015 Rev. 1).

| <u>NIS-2 NO.</u> | CLASS | COMPONENT | WORK DOCUMENT | DESCRIPTION |
|------------------|--------------|------------------|---------------|----------------------------|
| 20-07-04 | 2 | GBB-3-SS-225 | PWO 1135691 | Removed snubber DA-038 and |
| | | (RHI-CE056) | | installed snubber DA-366 |

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

Part G, page 1 of 4

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

Form NIS-2's

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

Part G, page 2 of 4

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

| 1. | Owners | FPL Energy I | Duane Arnold LLC | | Date | 02/08/0 |)7 | | |
|-----|---------------------------------------|--|---|------------------------------|-----------------------------|--------------------------------|-----------------------|--|--|
| 2. | P.O. Box | 14000 Juno Bead Addr | ch, FL 33408-0420 ess Energy Center | <u>.</u> | Sheet | 1 | of | 2 | |
| | 3277 1 | DAEC Road, Pa Addr | lo, IA 52324 | | | /O 1135691 nization to P. (| O. No., Job | No., etc. | |
| 3. | Work Perf | ormed by <u>FPL E</u> Name | Energy | | Type Code S Authorizatio | Symbol Stamp | No. | | |
| 4. | | C Road, Palo, Laion of System: | | S-225 (HSSA | Expiration D | | No | | |
| 5. | (a) Applic | able Construction | on Code ANS | I B31.7 | 19 69 | Edition 71 | Adde | nda N/A | Code Case. |
| | (b) Applic | cable Edition of | Section XI Utilized | I for Repairs o | r Replacements 1 | 992 <u>-A92</u> | | | |
| 6. | Identificati | ion of Componer | nts Repaired or Re | olaced and Re | placement Compo | onents | | | |
| | Identificati Name of Component | Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | National Board No. | olacement Compo | , | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| • | Name of | Name of | Manufacturer | National | | cation | Year Built Unknown | Replaced, or | Stamped (YES or |
| • | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Stamped (YES or NO) |
| • | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Stamped (YES or NO) |
| • | Name of Component | Name of Manufacturer Anchor Darling | Manufacturer Serial No. | National Board No. N/A | Other Identific | cation | Unknown | Replaced, or Replacement | Stamped (YES or NO) |
| HSS | Name of Component SA-10 Snubber | Name of Manufacturer Anchor Darling of Work: | Manufacturer Serial No. Removed DA-038 Installed DA-366 | National Board No. N/A | Other Identific | DA-366 at loc | Unknown cation GBB | Replaced, or Replacement | Stamped (YES or NO) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017.

FORM NIS-2 (Back)

| 9. Remarks: Snubber DA-038 was replaced due to seal life expiration. A rebuilt snubber, DA-366, was rebuil installed in location GBB-003-SS-225. DA-366 was rebuilt on PWO 1136216 (no load bearing preplaced or repaired during rebuild) A VT-3 examination (P07041) was performed following ins 366. | | | | | | |
|--|---|--|---|--------------------------------------|--|------------------------------------|
| · . | | | · | | | · |
| | | CERTIFICATE | OF COMPLIA | ANCE | | |
| • | e statements made in | n the report are corrected ode, Section XI. | t and this | Replacement (repair or replace | ement) | |
| Type Code Symbo | ol Stamp | None | <u> </u> | | | |
| Certificate of Auth | LAX Pres | None Program Enginer's Designee, Title | Expiring Date | February 8th, | N/A 2007 | |
| I, the undersigned, the State or Provin | ice of | nmission issued by the | e National Boar | mployed by H | essure Vessel Inspectors and ISB CT | |
| accordance with th By signing this cer examinations and o | ne requirements of the retificate neither the I corrective measures | To has performed examin he ASME Code, Section for his employed described in this Own | nations and taker ion XI. loyer makes any ner's Report. Fu | n corrective measu warranty, express | nts described in this Owner's I, and state that to the be- ires described in this Owner's I ted or implied, concerning the r the Inspector nor his employer from or connected with this ins | est of Report in er shall be |
| J3 U Inspector | 's Signature | Commissions _ | National Board | 13) 4Aルニ, State, Province, a | 1996 FA und Endorsements | |
| Date d |) -q | , 2007 | | | | |

9.

May 4, 2005 through October 31, 2006

Part H, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF CONDITIONS NOTED AND CORRECTVIE MEASURES TAKEN:

The corrective measures are addressed in this report and were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 1992 with the 1992 Addenda (Ref. Relief Request NDE-R015 Rev. 1), and the Duane Arnold Energy Center Updated Final Safety Analysis Report. The corrective measures performed as Repairs or Replacements are listed in Part F of this report and are documented, using Form NIS-2, in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code Section XI, 1992, 1992 Addenda. Specific details and associated records of additional corrective measures are on file at Duane Arnold Energy Center. The corrective measures addressed were performed during the period of May 4, 2005 through October 31, 2006.

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

Part I, page 1 of 3

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ISI FIGURES AND ISOMETRICS

PLEASE NOTE: ISI Figures and Isometrics are listed in Part B and Part D of this report

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

Part I, page 2 of 3

| | 1 80 160 140 170 150 130 | 120 100 80 60 40 2 0 110 90 70 50 30 | 20 0 340 320 10 350 330 3 | 300 280 260 2 10 290 270 250 | 4 <u>0 220 200 180</u> <u>230 210 190 </u> |
|------------------|------------------------------------|---|-------------------------------------|---------------------------------|---|
| | 676 ³ / ₃₂ | · (V | GH CB-C5) | | |
| | | MSB-DI) (MSA-DI) | | (MSD-DI) (MSC-D | 1) |
| | G2 (VLD-81) | (U) (U) | 61 (YLD-B2) | 00 |) NL2B |
| | IA) | (VIC-DI) | | | (VID-D1) |
| | 530% | NL | | | SHELL NO. 4 |
| | N4B (FWB-D | ACN ACN | N40 (FWD- | DD N5B | O(VIB-DI) |
| نهاحا | N9 (CRA-D1) | | N4A WA-D1) |) (CSB-DI) | (FWC-D1) |
| ENGR. VER. | 384¾ | FI (WLC-BI) | EF (VCB-B3) | F2 (WLC-B2) | SHELL NO.3 |
| CHKD. EN | 354.74 | N16A (VIE-D1) | (VCB-B3/ | | N16B (VIF-D1) |
| MS FR 0 | (I) | 0 | A2) | | CLADDING |
| Σ | E2 (VLB-A1) | | = E1 (VLB-A2) | 0 | PATCHES EXAMINED |
| PROGRAM | 238% | | DE CB-A2) | | SHELL NO. 2 |
| | (RRD-D1) | N2C N2B N2A (RRC-D1) (RRA-D1) | N2H (RRH-D1) | (RRG-D1) (RRF-D1 | NZE (RRE-DI) |
| SPECTION | | DI OIL | NIA (RCA-DI) | NS. 29 | A-A2) |
| | (RCB-D1) | (JPA-DI) \(\int\) | BO | N8B (JPB-DL) | |
| | 92½ | | (VCB-BI | | SHELL NO. 1 |
| 1 FOR | | <u> </u> | JTSIDE VIEW | | |
| DRAF TED | | | | | |
| | IES: | | VESSI | EL SHELL | RING |
| 12-08-94 DATE | Inservice I | nspection Program | DWG. NO. | LAYOUT | |
| | Neactor Fre | sadic vessei aketen | DWG. NO. | VS-Ø1-41 | REV. |

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

Part J, page 1 of 5

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR THIRD TEN YEAR INTERVAL

(Those percentages shown are actual, where the percentages exceed the allowable only the maximum (50% for period one and at least 16% for period two) will be taken credit for).

| CLASS 1 | | | | | |
|-----------------|--------|----------|----------|----------|-------------------------|
| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | <u>REMARKS</u> |
| B1.11 | 4 | 0% | 0% | 0% | See Note 12 |
| B1.12 | 8 | 0% | 0% | 100% | See Note 13 |
| B1.21 | 2 | 25% | 50% | 100% | |
| B1.22 | 15 | 0% | 0% | 100% | |
| B1.30 | 1 | 50% | 50% | 100% | See Note 7 and 13 |
| B1.40 | 1 | 33% | 67% | 100% | See Note 14 |
| B3.90 | 33 | 48% | 73% | 100% | See Note 1,8 |
| B3.100 | 33 | 48% | 73% | 100% | See Note 1,8 |
| B4.11 | 2 | 0% | 0% | 100% | See Note 2 |
| B4.12 | 89 | 0% | 0% | 100% | See Note 2 |
| B4.13 | 30 | 0% | 0% | 100% | See Note 2 |
| B5.10 | 14. | 50% | 71% | 71% | See Note 8 and 11 |
| B5.20 | 8 | 38% | 63% | 63% | See Note 11 |
| B5.130 | 8 | 38% | 63% | 63% | See Note 11 |
| B5.140 | 2 | 0% | 50% | 50% | See Note 11 |
| B6.10 | 60 | 33% | 67% | 100% | |
| B6.20 | 56 | 29% | 64% | 100% | |
| B6.30 | 4 | 100% | 100% | 100% | |
| B6.40 | 60 | 33% | 67% | 100% | |
| B6.50 | 60 | 33% | 67% | 100% | |
| В6.180 | 2 | 0% | 0% | 0% | See Note 3 |
| B6.190 | 2 | 0% | 0% | 0% | See Note 3 |
| B6.200 | 2 | 0% | 0% | 0% | See Note 3 |
| B0.200 B7.10 | 3 | 33% | 67% | 100% | |
| B7.10 B7.50 | 5 | 20% | 20% | 20% | See Note 3 |
| В7.50 В7.60 | 2 | 0% | 0% | 0% | See Note 3 |
| B7.70 | 47 | 4% | 6% | 9% | See Note 3 |
| | 89 | 15% | 15% | 340% | See Note 3 |
| B7.80 | | | 33% | 33% | See Note 11 |
| B9.11 | 94 | 22% | | 0% | See Note 6 and 11 |
| B9.12 | 0 | 0% | 0% | | See Note 11 |
| B9.21 | 9 | 22% | 22% | 22% | See Note 11 See Note 11 |
| B9.31 | 6 | 17% | 33% | 33% | See Note 11 |
| B9.32 | 1 | 0% | 0% | 0% | See Note 11 |
| B9.40 | 23 | 22% | 40% | 40% | |
| B10.10 | 1 | 0% | 0% | 100% | See Note 4 |
| B10.20 | 3 | 33% | 67% | 100% | See Note 4 |

May 4, 2005 through October 31, 2006

Part J, page 2 of 5

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR THIRD TEN YEAR INTERVAL

| CLASS 1 | | | | | |
|----------|--------|----------|----------|----------|---------------------------|
| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
| B10.30 | 1 | 0% | 0% | 100% | See Note 4 |
| B12.20 | 2 | 0% | 0% | 0% | |
| B12.50 | 45 | 6% | 9% | 11% | See Note 3 |
| B13.10 | 35 | 37% | 63% | 100% | |
| B13.20 | 11 | 36% | 36% | 100% | |
| B13.30 | 27 | 4% | 4% | 100% | • |
| B13.40 | 5 | 20% | 20% | 100% | |
| B14.10 | 3 | 0% | 0% | 100% | • |
| B15.10 | 1 | N/A | N/A | N/A | Once per refueling outage |
| B15.11 | 1 | N/A | N/A | N/A | Once per interval |

CLASS 1 AND CLASS 2 Risk Informed

| <u>ITEM NO.</u> | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | <u>REMARKS</u> |
|-----------------|--------|----------|----------|----------|----------------|
| R-I | 70 | 0% | 33% | 61% | See Note 11 |

CLASS 2

| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
|----------|--------|----------|----------|----------|-------------------|
| C1.10 | 2 | 50% | 50% | 100% | |
| C1.20 | 1 | 0% | 100% | 100% | |
| C2.21 | 2 | 0% | 50% | 100% | |
| C2.22 | 2 | 0% | 50% | 100% | |
| C3.10 | 1 | 0% | 0% | 100% | See Note 4 |
| C3.20 | 7 | 29% | 57% | 100% | See Note 4 |
| C5.51 | 69 | 17% | 36% | 36% | See Note 11 |
| C5.81 | 1 | 100% | 100% | 100% | See Note 11 |
| C7.10 | 5 | N/A | N/A | N/A | Once per period |
| C7.20 | 5 | N/A | N/A | N/A | Once per interval |

May 4, 2005 through October 31, 2006

Part J, page 3 of 5

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR THIRD TEN YEAR INTERVAL CLASS 1 AND 2 SUPPORTS

| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
|----------|--------|----------|----------|----------|------------|
| F1.10 | 42 | 33% | 64% | 100% | See Note 5 |
| F1.20 | 52 | 27% | 58% | 100% | See Note 5 |
| F1.40 | 20 | 40% | 65% | 100% | See Note 5 |

STATUS OF WORK FOR (IWE) FIRST TEN YEAR INTERVAL

| CLASS MC | | | | | |
|----------|--------|----------|----------|----------|-------------|
| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
| E1.11 | 3 | 33% | 67% | 100% | |
| E1.12 | 31 | 19% | 67% | 100% | |
| E1.20 | 8 | 38% | 75% | 100% | |
| E4.11 | 2 | 0% | 40% | 100% | See Note 9 |
| E5.30 | 4 | 25% | 75% | 100% | |
| E8.10 | 14 | 29% | 71% | 100% | |
| E9.20 | * | N/A | N/A | N/A | See Note 10 |

May 4, 2005 through October 31; 2006

Part J, page 4 of 5

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR THIRD TEN YEAR INTERVAL

NOTE 1 - Item Numbers B3.90, B3.100

There are a total of 34 nozzles, however 1 of the nozzles is exempt by IWB-1220(c) and not included in the percentages.

NOTE 2 - Item Numbers B4.11, B4.12, B4.13

These items are required to be examined during conduct of the system hydrostatic test, FPL Energy Duane Arnold LLC has implemented Code Case N-498-1 (TAP-P010)

NOTE 3 - Item Numbers B6.180, B6.190, B6.200, B7.50, B7.60, B7.70, B7.80, B12.50

These examinations are performed when the component is disassembled for other reasons. Therefore IWX-2412-1 does not apply.

NOTE 4 - Item Numbers B10.10, B10.20, B10.30, C3.10, C3.20

These item numbers are from Code Case N509 (TAP-I004)

NOTE 5 - Item Number F1.10, F1.20, F1.40

These item numbers are from Code Case N491 (TAP-I005)

NOTE 6 - Item Number B9.12

There are no welds counted for this item number because of the use of Code Case N-524 (NDE-R009)

NOTE 7 - Item Number B1.30

50% of the shell-to-flange weld may be performed during the first and third inspection periods as allowed by Note 4 of Table IWB-2500-1.

NOTE 8 - Item Numbers B3.90, B3.100, B5.10

Relief Request NDE-R024 allows alternative percentages (ref. Code Case N-598). 2 of the Nozzle-to-safeend welds (RRB-F002 and RRD-F002) have been repaired by applying a weld overlay. These two welds are now covered by the requirements of BWRVIP-75.

NOTE 9 - Item Number E4.11

The DAEC has evaluated the need for augmented examination per this item number and has determined that the Torus should be examined twice per interval. Details are specified in Technical Approach and Position TAP-E002.

NOTE 10 - Item Number E9.20

There are no components identified under this item number because the DAEC has been approved to use Option B of Appendix J. The "Performance Based Containment Testing Program" contains the requirements.

NOTE 11 - Item Numbers B5.XX, B9.XX, C5.XX, and R-I

Risk-Informed methods are utilized as described in EPRI TR-112657B-A to determine scope of inspections for examination categories B-F, B-J, and C-F-2. The Risk-Informed scope has been combined into a new item number R-I for implementation in the second and third periods of the third interval.

May 4, 2005 through October 31, 2006

Part J, page 5 of 5

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR THIRD TEN YEAR INTERVAL

NOTE 12 - Item Number B1.11

There are no welds counted for this item number because of the use of Relief Request NDE-R033

NOTE 13 - Item Number B1.12 and B1.30

Relief Request approved April 4, 2006 (date of SER) requested deferral of examination of two welds. Due to issues with the UT cable configuration another relief request was submitted on February 19, 2007 to further extend the interval for welds VLA-A001, VLA-A002, VLB-A001, VLB-A002, VLC-B001, VLC-B002, VLD-B001, VLD-B002, and shell-to-flange weld VCB-C005.

NOTE 14 - Item Number B1.40

This weld was examined in "thirds". To obtain increased coverage, the "third" that was examined in period 1 was re-examined in period 3.

NOTE 15 - Item Number B13.10

Areas to be examined shall include the spaces above and below the reactor core that are made accessible for examinations by removal of components during normal refueling outages.

NOTE 16 - Item Number B13.10

The RFO17 Summary Report included Shroud Ledge/Vessel Weld (Summary No. 175000), as a B-N-1, B131.0 examination, however it did not report the B-N-2. B13.30 VT-3 performed (Summary No. 174700).

May 4, 2005 through October 31, 2006

May 4, 2005 through October 31, 2006

Part K, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 334090420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

RELIEF REQUESTS

The following are the relief requests and code cases that were used during the period of this Summary Report.

| nts ressel " for |
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May 4, 2005 through October 31, 2006

ENCLOSURE 2 TO NG-07-0492

FOURTH TEN YEAR INSERVICE INSPECTION SUMMARY REPORT

| | • | | |
|--|---|--|--|

November 1, 2006 through March 18, 2007

DUANE ARNOLD ENERGY CENTER

UNIT #1 PALO, IOWA

Commercial Service Date: February 1, 1975

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION SUMMARY REPORT

Nov. 1, 2006 through March 18, 2007

Dated: June 1, 2007

OWNER:

FPL ENERGY Duane Arnold LLC

P.O. Box 14000

Juno Beach, FL 33408-0420

| Prepared by: | ASME Section XI Administrator | Date: 6/5/07 |
|---------------|--|---------------------|
| Reviewed by: | NDE Level III | |
| Reviewed by: | Scott Srull Program Engineering Staff | Date: 6-6-07 |
| Reviewed by: | Inspection and Materials Supervisor | Date: <u>6-6-07</u> |
| Concurred by: | Program Engineering Manager | |

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

November 1, 2006 through March 18, 2007

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| С | Abstract | Page 1 |
| D | Table of Component and Weld Examination Identification Records | Pages 1-7 |
| E | Table of Additional Examinations Identification Records | Page 1 |
| F | Table of Successive Examinations Identification Records | Page 1 |
| G | Abstract of ASME Section XI Repairs and Replacements | Page 1-3 |
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FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

Part A, Page 1 of 2

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As Required by the Provisions of the ASME Code Rules

| 1.Owner: FPL Energy Duane Arnold LLC, PO Box 14000 Juno Beach, FL 33409-0420 | |
|--|--------------------|
| (Name and address of Owner) | |
| 2. Plant: Duane Arnold Energy Center, 3277 DAEC Road, Palo, IA 52324 | |
| (Name and Address of Plant) | |
| 3. Plant Unit 4. Owner Certificate of Authorization (if required) | N/A |
| 5. Commercial Service Date 02/01/75 6. National Board Number of Unit | N/A |
| 7. Components Inspected | |
| This report includes a Table of Contents (P1), Part A (PP1- | |
| 2), Part B (PP1-2), Part C (P1), Part D (PP1-7), Part E (P1), | |
| Part F (P1), Part G (PP1-3), Part H (PP1-112), Part I (P1), | |
| Part J (PP1-24), Part K (PP1-4), and Part L (P1) | Contraction of the |

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|-------------------------------------|------------------------------|--|--------------------------|--------------------|
| Reactor Pressure Vessel (RPV) | Chicago Bridge & Iron | 3-4833 | N/A | 3663 |
| Defente Dest | D Dagge 1 2 of the | s report for a contin | untion of commons | nts avaminad |
| Refer to Part | B, Pages 1-2, of thi | s report for a contin | luation of compone | nis examined |
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8.5 X 11 inches, (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.

(12/82) This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y 10010

November 1, 2006 through March 18, 2007

Part A, Page 2 of 2

FORM NIS-1 (back)

| 8. Examination Dates _ | 11/01/06 | _ to _ | 03/18/07 | _ 9. Inspection | on Interval from | 11/01/06 | _ to _ | 02/21/14_ | |
|--|---|-----------------|-------------------------------|-------------------------------|---------------------------------------|--------------------|--------|-----------------|--|
| Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Refer to Part B and Part I. | | | | | | | | | |
| 11. Abstract of Condition Refer to Par | | | | | | | | | |
| 12. Abstract of Correcti Refer to Par | | Reco | ommended a | nd Taken | | | | | |
| We certify tha measures taken conform | | | | | ect and the exam | inations and | corre | ctive | |
| Date June 12 | 2007 | | | By | JOHN B | Jorset | ዝ_ | - | |
| Certificate of Authoriza | tion No. (if | applic | able) | N/A | Expir | ation Date _ | 1 | <u>V/A</u> | |
| | | | | | | | | | |
| | CER | TIFI | CATE OF I | NSERVICE | INSPECTION | | | | |
| Inspectors and/or the St the components describ to the best of my know | 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 Iowa and employed by HSB CT of Hartford CT have inspected the components described in this Owner's Data Report during the period 11/01/06 to 03/18/07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Data Report in accordance with the requirements of the ASME Code, Section XI. | | | | | | | | |
| By signing this certific concerning the examin- neither the Inspector, no or a loss of any kind aris | ations and o | orrec yer sl | tive measur nall be liable | es described e in any manr | in this Owner's ner for any person | Data Repor | rt. F | urthermore, | |
| Date 6-12 | 2007 <u>.</u> | | | | | | | 149 <i>6I</i> 9 | |
| 18L - | | | | | Commissio | ns N B 1232 | a Ai | VI. | |
| Inspector's Sig | nature | | | | | oard, State, P | | | |

^{*} Note - Other owners are Central Iowa Power Cooperative and Corn Belt Power Cooperative.

November 1, 2006 through March 18, 2007

Part B, page 1 of 2

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324 3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A 5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

COMPONENTS EXAMINED:

Reactor Pressure Vessel:

Manufacturer: Chicas

Chicago Bridge and Iron Post Office Box 13308

Memphis, TN 38113

National Board Number 3663, Mfr. Serial Number 3-4833

Refer to Part A, Page 1, form NIS-1, Owners Data Report for Inservice Inspections.

Piping:

Manufacturers, sizes, part numbers and locations are noted and traceable through the piping isometric and piping instrumentation drawings (P&ID). Installation contractor, fabricator, systems P&ID's and Isometric drawings are listed below.

Constructor:

Bechtel Power Co. P.O. Box 3865 San Francisco, CA 94119

Fabricator -

Southwest Fabricating and Welding Co. P.O. Box 9449 Houston, TX 77011

November 1, 2006 through March 18, 2007

Part B, page 2 of 2

| 1) | Owners: | FPL Energy Duane | Arnold LLC, PO Box | 14000. Juno Beach | . FL 33409-0420 |
|----|---------|------------------|--------------------|-------------------|-----------------|
|----|---------|------------------|--------------------|-------------------|-----------------|

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324 3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

COMPONENTS EXAMINED:

| CLASS 1 | |
|---|----------|
| Component | Iso No |
| TOP HEAD ASSEMBLY | VS-01-06 |
| RECIRCULATION MANIFOLD 'B' AND RISERS A,B,C,D | 1.2-22 |
| RECIRCULATION MANIFOLD 'A' AND RISERS E,F,G,H | 1.2-20 |
| CORE SPRAY 'B' | 1.2-08 |
| FEEDWATER 'A' & 'B' | 1.2-05 |
| JET PUMP INSTRUMENTATION 'A' | 1.2-25 |
| HEAD VENT | 1.2-24 |
| RHR-HEADSPRAY | 1.2-13 |
| RECIRCULATION PUMP 'B' & DISCHARGE VALVE BY PASS | 1.2-21A |
| RECIRCULATION PUMP 'B' | 1:3-03 |
| CORE SPRAY 'A' | 1.2-07 |
| RWCU DISCHARGE 'CLEAN' | 1.2-11B |
| RECIRCULATION PUMP 'A' & DISCHARGE VALVE BY PASS | 1.2-19A |
| FEEDWATER 'C' & 'D' | 1.2-06 |
| RWCU SUCTION 'DIRTY' | 1.2-11A |
| RESIDUAL HEAT REMOVAL-20A | 1.2-15 |
| IVVI | |
| Component | Iso No |
| VESSEL INTERNALS . | VARIOUS |
| CLASS 2 | |
| Component | Iso No |
| RHR HEAT EXCHANGER 'A' & 'B' | 2.1-01 |
| CORE SPRAY DISCHARGE (SE) | 2.2-49 |
| RHR FUEL POOL COOLING AND CLEANUP | 2.2-43 |
| CORE SPRAY SUCTION (NW) | 2.2-51 |
| CORE SPRAY DISCHARGE (NW) | 2.2-52A |
| HPCI PUMP SUCTION | 2.2-44 |

November 1, 2006 through March 18, 2007

Part C, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

CERTIFICATE OF INSERVICE INSPECTION

ABSTRACT:

The Inservice Inspection addressed in this report was performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI 2001 Edition, 2003 Addenda, and the Duane Arnold Energy Center Updated Final Safety Analysis Report. The inspections were performed utilizing Non-Destructive Examination Techniques (i.e., UT, PT, MT, etc.). The examinations were conducted during the period of November 1, 2006 through March 18, 2007. The specific details and associated records of the examinations are on file at Duane Arnold Energy Center.

November 1, 2006 through March 18, 2007

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo; IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | . Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|--------------------------|----------------------------------|--------|------------|-------------------------|--------|---------------------|-----------|
| Class 1 (| Category B-A HCC-C001 | REACTOR VESSEL(STUD HOLES 60-20) | B1.40 | ACP1211.5 | MT / MT-07-001 / Accept | RPV | VS-01-06 SHT- | 2/21/2007 |
| 3300 | HCC-C001 | REACTOR VESSEL(STUD HOLES 60-20) | B1.40 | ACP1211.27 | UT/ UT-07-100 / Accept | RPV . | VS-01-06 SHT- 01 | 2/22/2007 |
| Class 1 (| Category B-D RRC-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-074 / Accept | RR | 1.2-22 SHT-01 | 2/14/2007 |
| 10200 | RRC-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-075 / Accept | RR | 1.2-22 SHT-01 | 2/14/2007 |
| 10500 | RRE-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-079 / Accept | RR | 1.2-20 SHT-01 | 2/15/2007 |
| 10600 | RRE-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-078 / Accept | RR | 1.2-20 SHT-01 | 2/15/2007 |
| 11100 | RRH-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-077 / Accept | RR | 1.2-20 SHT-01 | 2/20/2007 |
| 11200 | RRH-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-076 / Accept | RR | 1.2-20 SHT-01 | 2/20/2007 |
| 5000 | CSB-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-060 / Accept | CS | 1.2-08 SHT-01 | 2/16/2007 |
| 5100 | CSB-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-059 / Accept | CS | 1.2-08 SHT-01 | 2/16/2007 |
| 5300 | FWA-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.27 | UT / UT-07-048 / Accept | FW | 1.2-05 SHT-01 | 2/13/2007 |
| 5400 | FWA-D001- INNER RAD | NOZZLE - NOZZLE BORE | B3.100 | ACP1211.44 | UT / UT-07-055 / Accept | FW | 1.2-05 SHT-01 | 2/13/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

6. National Board Number for Unit: N/A

| | | · | | | 1 | | | |
|-------------|-----------------------------------|--|--------|------------|-------------------------|--------|---------------------|--------------|
| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
| 7700 | JPA-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-063 / Accept | JP | 1.2-25 SHT-01 | 2/16/2007 |
| 7800 | JPA-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-062 / Accept | JP | 1.2-25 SHT-01 | 2/16/2007 |
| 9700 | RRA-D001 | REACTOR VESSEL - NOZZLE | B3.90 | ACP1211.44 | UT / UT-07-098 / Accept | RR | 1.2-22 SHT-01 | 2/14/2007 |
| 9800 | RRA-D001- INNER RAD | REACTOR VESSEL - NOZZLE | B3.100 | ACP1211.44 | UT / UT-07-097 / Accept | RR | 1.2-22 SHT-01 | 2/14/2007 |
| Class 1 C | Category B-G HVA-FLG- STUD | STUD/NUTS AT PENETRATION | B7.50 | ACP1211.7 | VT / VT-07-025 / Accept | RHV | 1.2-24 SHT-01 | 2/12/2007 |
| 84500 | RHA-FLG- BOLTING | FLANGE - BOLTING | B7.10 | ACP1211.7 | VT / VT-07-043 / Accept | RH | 1.2-13 SHT-01 | 2/22/2007 |
| Class 4 | | | | • | | | | |
| Class 1 C | GUIDE ROD BRT (180) | -1 REACTOR VESSEL (180 DEG) | B13.10 | ACP1211.36 | VT / BWRVIP-142 / NRI | RPV | VS-01-28 SHT- 01 | 2/15/2007 |
| 173800 . | SSH-108 DEG | SURVEILLANCE SAMPLE HOLDER BRACKET | B13.10 | ACP1211.36 | VT / BWRVIP-234 / NRI | RPV . | VS-10-02 SHT- 01 | 2/17/2007 |
| 175100 | SHD-LEDGE H-8, H-9 180 270 | REACTOR VESSEL SHROUD LEDGE - (180-270 DEG) | B13.10 | ACP1211.36 | VT / BWRVIP-171 / NRI | RPV | VS-02-11 SHT- 01 | 2/17/2007 |
| 175101 | SHD-LEDGE H-8 & H-9 270-360 | REACTOR VESSEL SHROUD LEDGE (270-360 DEG) | B13.10 | ACP1211.36 | VT / BWRVIP-265 / NRI | RPV | VS-02-11 SHT- 01 | ·· 2/20/2007 |
| 175600 · | VESSEL HEAD | REACTOR VESSEL | B13.10 | ACP1211.36 | VT / BWRVIP-285 / NRI | RPV | VS-01-06 SHT- 01 | - 2/13/2007 |

Class 1 Category B-N-2

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000 Juno Beach, FL 33409-0420

Palo, IA 52324

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

5. Commercial Service Date: 02/01/1975

4. Owner Certificate of Authorization (If Req.): N/A

3. Plant Unit: 1 6. National Board Number for Unit: N/A

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------------------|--|--------|------------|-----------------------|--------|---------------------|-------------|
| 12601 | CRGT-2-19 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-277 / NRI | RPV | VS-12-04 SHT- 01 | - 2/21/2007 |
| 12602 | FSC-2-19 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-284 / NRI | RPV | VS-03-09 SHT | - 2/21/2007 |
| 13201 | CRGT-6-11 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-276 / NRI | RPV | VS-12-04 SHT | - 2/20/2007 |
| 13202 | FSC-6-11 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-270 / NRI | RPV | VS-03-09 SHT 01 | - 2/20/2007 |
| 14301 | CRGT-10-07 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-275 / NRI | RPV | VS-12-04 SHT 01 | - 2/21/2007 |
| 14302 | FSC-10-07 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-271 / NRI | RPV | VS-03-09 SHT 01 | - 2/21/2007 |
| 15701 | CRGT-14-19 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-274 / NRI | RPV | VS-12-04 SHT 01 | - 2/21/2007 |
| 15702 | FSC-14-19 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-269 / NRI | RPV | VS-03-09 SHT 01 | - 2/21/2007 |
| 15901 | CRGT-14-27 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-279 / NRI | RPV | VS-12-04 SHT 01 | - 2/20/2007 |
| 15902- | FSC-14-27 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-282 / NRI | RPV | VS-03-09 SHT 01 | - 2/21/2007 |
| 16501 | CRGT-18-03 | REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-278 / NRI | RPV | VS-12-04 SHT 01 | - 2/21/2007 |
| 16502 | FSC-18-03 | REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-283 / NRI | RPV | VS-03-09 SHT 01 | - 2/21/2007 |
| 168505 | FWB Weld a 276 DEG | nt FEEDWATER BRACKET | B13.30 | ACP1211.36 | VT / BWRVIP-298 / NRI | RPV | VS-01-27 SHT 01 | - 2/14/2007 |
| | | 4 | | | | | | |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO Exam Date |) |
|-------------|---|--------|---------------|---|--------|-------------------------------|--------------|
| 168510 | FWB Weld at FEEDWATER BRACKET 354 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-302 / NRI | RPV | VS-01-27 SHT- 2/14/2007 01 | |
| 168605 | FWB Weld at FEEDWATER BRACKET 186 DEG. | B13.30 | ACP1211.36 | VT / BWRVIP-307 / NRI | RPV | VS-01-27 SHT- 2/15/2007 01 | |
| 168610 | FWB Weld at FEEDWATER BRACKET 264 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-304 / NRI | RPV | VS-01-27 SHT- 2/14/2007 01 | |
| 168705 | FWB Weld at FEEDWATER BRACKET 6 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-314 / NRI | RPV | VS-01-27 SHT- 2/15/2007 01 | |
| 168710 | FWB Weld at FEEDWATER BRACKET 84 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-317 / NRI | RPV | VS-01-27 SHT- 2/15/2007 01 | |
| 168805 | FWB Weld at FEEDWATER BRACKET 96 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-312 / NRI | RPV | VS-01-27 SHT- 2/15/2007 01 | |
| 168810 | FWB Weld at FEEDWATER BRACKET 174 DEG | B13.30 | ACP1211.36 | VT / BWRVIP-309 / RI (ref. CAR 047394) | P RPV | VS-01-27 SHT- 2/14/2007 01 | |
| 20701 | CRGT-30-19 REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-272 / NRI | RPV | VS-12-04 SHT- 2/21/2007 01 | |
| 20702 | FSC-30-19 REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-280 / NRI | RPV | VS-03-09 SHT- 2/21/2007 01 | |
| 20901 | CRGT-30-27 REACTOR VESSEL - CONTROL ROD GUIDE TUBE | B13.40 | ACP1211.36 | VT / BWRVIP-273 / NRI | RPV | VS-12-04 SHT- 2/21/2007 01 | |
| 20902 | FSC-30-27 REACTOR VESSEL - FUEL SUPPORT CASTING | B13.40 | ACP1211.36 | VT / BWRVIP-281 / NRI | RPV | VS-03-09 SHT- 2/21/2007 01 | |
| Class 1 (| STP 3.10.1- CLASS 1 SYSTEM LEAKAGE 01 PRESSURE TEST | B15.10 | STP 3.10.1-01 | VT / VT-07-113 / Accept | RV1 | ISONO-P SHT- 3/14/2007 01 | |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| | | • | | | • | | | |
|-------------------|---------------------------|--|---------|------------|---|--------|--------------------|-----------|
| Summary No | . Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
| Class 1 134200 | Category F-A RCB-K010B | CLASS 1 WELDED - HANGER LUGS | F1.10 | ACP1211.10 | VT / VT-07-073 / Accept | RC | 1.2-21A SHT- 01 | 2/22/2007 |
| 163300 | RPB-K002 | CLASS 1 MECHANICALLY ATTACHED - UNKNOWN PUMP TYPE | F1.40 | ACP1211.10 | VT / VT-07-004 / Accept | RP | 1.3-03 SHT-01 | 2/7/2007 |
| 163400 | RPB-K003 | CLASS 1 WELDED - HANGER LUGS | F1.40 | ACP1211.10 | VT / VT-07-001 / Accept | RP | 1.3-03 SHT-01 | 2/7/2007 |
| 63900 | CSA-K026 | CLASS 1 MECHANICALLY ATTACHED | F1.10 | ACP1211.10 | VT / VT-07-002 / Accept | cs . | 1.2-07 SHT-01 | 2/7/2007 |
| 79000 | CUB-K012 | CLASS 1 MECHANICALLY ATTACHED | F1.10 | ACP1211.10 | VT / VT-07-038 / Accept | CU | 1.2-11B SHT- 01 | 2/16/2007 |
| Class 1 | Category R-A | | | | | | | |
| 109300-RI | RCA-J041 | PIPE - TEE | R1.16-4 | ACP1211.20 | UT / UT-07-064, -065, -066, - 067 / Accept | RC | 1.2-19A SHT- 01 | 2/18/2007 |
| 121300-RI | RRF-F002A | PIPE - SAFEEND | R1.16-2 | ACP1211.38 | UT / UT-07056, -057, 058 / Accept Limitation on weld due to Safe end Taper 75% Coverage) | RR | 1.2-20 SHT-01 | 2/17/2007 |
| 121500-RI | RRF-J003 | PIPE | R1.16-2 | ACP1211.20 | UT / UT-07-052, -053 / Accept | RR | 1.2-20 SHT-01 | 2/17/2007 |
| 145200-RI | RRB-J005 | PIPE - 90 DEGREE LONG RADIUS ELBOW | R1.16-2 | ACP1211.20 | UT / UT-07-003, -004 / Accept | RR | 1.2-22 SHT-01 | 2/6/2007 |
| 48500-RI | FWA-J002 | SAFEEND - NOZZLE | R1.11-2 | ACP1211.19 | UT / UT-07-032, -033 / Accept | FW | 1.2-05 SHT-01 | 2/13/2007 |
| 58800-RI | FWD-J003 | PIPE - SAFEEND | R1.11-2 | ACP1211.19 | UT / UT-07-044, -045 / Accept | FW . | 1.2-06 SHT-01 | 2/16/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No | . Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------------|---------------------------------|-----------------------------------|---------|-------------|--|--------|--------------------|--------------|
| 58825-RI | FWD SAFEEND | SAFEEND AREA | R1.11-2 | ACP1211.19 | UT / UT-07-046, -047 / Accept | FW | 1.2-06 SHT-01 | 2/16/2007 |
| 64500-RI | CSB-F002A | SAFEEND - S/E Extension | R1.16-4 | ACP1211.38 | UT / UT-07-112, -114, -116, - 119 / Accept Limitation on weld due to configuration (57.67% Coverage) | CS | 1.2-08 SHT-01 | 2/18/2007 |
| 64900-RI | CSB-J003 | PIPE | R1.16-4 | ACP1211.20 | UT / UT-07-072, -073 / Accept | CS | 1.2-08 SHT-01 | 2/18/2007 |
| 74600-RI | CUA-J024 | PIPE - MOTOR OPERATED GATE | R1.16-4 | ACP1211.20 | UT / UT-07-028, -029 / Accept | CU | 1.2-11A SHT- 01 | 2/12/2007 |
| 92700-RI | RHC-F002 | PIPE | R1.16-2 | ACP1211.38 | UT / UT-07-068, -069, -070, - 071 / Accept | RH | 1.2-15 SHT-01 | 2/15/2007 |
| Class 2 180150 | Category C-A HEA-CA-3 | HEAT EXCHANGER | C1.10 | ACP1211.34 | UT / UT-07-143 / Accept | RV | 2.1-01 SHT-01 | 2/28/2007 |
| Class 2 270200 | Category C-C CSB-CE013 | CLASS 2 WELDED - HANGER LUGS | C3.20 | ACP1211.5 | MT / MT-07-002 / Accept | CS | 2.2-49 SHT-01 | 3/4/2007 |
| Class 2 315600 | Category C-F STP NS830003 | I CLASS 2 SYSTEM PRESSURE TEST | C7.10 | STP-NS83000 | 3 VT / VT-07-118 / Accept | MS | ISONO-P SHT | · 3/17/2007· |
| Class 2 242005 | Category F-A RHM-CE050 | CLASS 2 MECHANICALLY ATTACHED | F1.20 | ACP1211.10 | VT / VT-07-086 / Accept | RH | 2.2-43 SHT-01 | 3/7/2007 |
| 242205 | RHM-CE053 | CLASS 2 MECHANICALLY ATTACHED | F1.20 | ACP1211.10 | VT / VT-07-087 / Accept | RH | 2.2-43 SHT-01 | 3/9/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|---------------------------|-------------------------------|---------|------------|-------------------------------|--------|--------------------|-----------|
| 242305 | RHM-CE055 | CLASS 2 MECHANICALLY ATTACHED | F1.20 | ACP1211.10 | VT / VT-07-088 / Accept | RH | 2.2-43 SHT-01 | 3/9/2007 |
| | | | | | i | | • | |
| 270300 | CSB-CE013 | CLASS 2 WELDED - HANGER LUGS | F1.20 | ACP1211.10 | VT / VT-07-074 / Accept | CS | 2.2-49 SHT-01 | 3/4/2007 |
| | | • | | | | | | |
| 277700 | CSD-CE033 | CLASS 2 MECHANICALLY ATTACHED | F1.20 | ACP1211.10 | VT / VT-07-032 / Accept | CS | 2.2-51 SHT-01 | 2/15/2007 |
| | ; | | | | | | | |
| 281500 | CSE-CE027 | CLASS 2 MECHANICALLY ATTACHED | F1.20 | ACP1211.10 | VT / VT-07-035 / Accept | CS | 2.2-52A SHT- 01 | 2/15/2007 |
| Class 2 (| Catagon: D A | | | | | | | |
| 247500-RI | Category R-A HPA-CF052 | | R1.10-4 | ACP1211.19 | UT / UT-07-001, -002 / Accept | HP | 2.2-44 SHT-01 | 2/5/2007 |

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------------------|-------------|------------------|-----|---------|-------------------------|---|--------|----------------|------------|
| INITIATING FAI | LURE FOR A | ADDITIONAL EXAMS | | | | | | | |
| | ategory R-A | | | | | | | | |
| 121100-RI | RRF-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-011 / Reject (See NIS-2 20-07-49) | RR | 1.2-20 SHT-01 | 2/19/2007 |
| ADDITIONAL | | | | | | ÷ | | • | |
| EXAMS per | | | | | | | | , · | |
| IWB-2430(a) | DDC 5000 | CAFFEND NOTTIF | | D4 40 0 | 7.4 0 10 | ; | | | 0//0/00007 |
| 145900-RI | RRC-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-013 / Reject (See NIS-2 20-07-49) | RR | 1.2-22 SHT-01 | 2/19/2007 |
| 145900-RI | RRC-F002 | SAFEEND - NOZZLE | | R1.16-2 | ACP1211.38 | UT / UT-07-096 / Accept | RR | 1.2-22 SHT-01 | 2/19/2007 |
| ADDITIONAL | | | | | | | | | |
| ADDITIONAL EXAMS per | | | | | | , | | ; | |
| IWB-2430(b) | | | | | | | | | • |
| 119600-RI | RRE-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-066 / Accept | RR | 1.2-20 SHT-01 | 2/10/2007 |
| 122600-RI | RRG-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-067 Accept | RR | 1.2-20 SHT-01 | 2/21/2007 |
| | | | | | | | | | , |
| 124100-RI | RRH-F002 | SAFEEND - NOZZLE | | R1.16-2 | | UT / VE-07-068 / Accept | RR | 1.2-20 SHT-01 | 2/19/2007 |
| | | | | | anPA_03 | | | | : |
| 1427Ó0-RI | RRA-F002 | SAFEEND - NOZZLE | . • | R1.16-2 | 7-11 0 -10 | HT /VE 07 000 / A | 55 | 4.0.00.0117.04 | 0/44/0007 |
| 142700-RI | RRA-FUUZ | SAFEEND - NOZZLE | | R1.16-2 | anPA_03 | UT / VE-07-069 / Accept | RR | 1.2-22 SHT-01 | 2/11/2007 |
| | : | • | | | ani A_00 | | • | | |
| 61000-RI | CSA-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-070 / Accept | CS | 1.2-07 SHT-01 | 2/27/2007 |
| | | | | | - | | | | |
| 64300-RI | CSB-F002 | SAFEEND - NOZZLE | | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-071 / Accept | CS | 1.2-08 SHT-01 | 2/17/2007 |

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary N | o. Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|------------------|--------------------------------|---------------------------------------|---------|-------------------------|---|-----------------|---------------------|--------------|
| Successive | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Examinatio | ns | | | | ÷ : | | . , | |
| Class 1 | Category B-A | | | | · | | • | |
| 1520 | HCC-B002 | REACTOR VESSEL (TOP HEAD DOLLAF WELD) | R B1.21 | ACP1211.27 | UT / UT-07-101, -102 / Accept | RPV | VS-01-06 SHT- 01 | 2/22-23/2007 |
| Class 1 82200 | Category F-A CRA- K017AA | CLASS 1 MECHANICALLY ATTACHED | F1.10 | ACP1211.10 | VT / VT-07-003 / Accept | CR | 1.2-12A SHT- 01 | 2/7/2007 |
| Class 1 | Category R-A | | | | | | | |
| 121100-RI | RRF-F002 | SAFEEND - NOZZLE | R1.16-2 | ACP1211.38 | UT / UT-07-095 / Accept (Subsurface Flaw had not grown) | RR _. | 1.2-20 SHT-01 | 2/19/2007 |
| 121100-RI | RRF-F002 | SAFEEND - NOZZLE | R1.16-2 | Zetec_OmniSc anPA_03 | UT / VE-07-011 / Reject (See NIS-2 20-07-49) | RR . | 1.2-20 SHT-01 | 2/19/2007 |

November 1, 2006 through March 18, 2007

November 1, 2006 through March 18, 2007

Part G, page 1 of 3

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF ASME SECTION XI REPAIRS AND REPLACEMENTS

The repairs and replacements addressed in this report were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 2001 with the 2003 Addenda.

| NIS-2 NO. | CLASS | COMPONENT | WORK DOCUMENT | DESCRIPTION DA 620 |
|-----------------|---------------|--------------------------------------|---------------------|--|
| <u>20-07-05</u> | <u>2</u> | <u>HBB-023-SS-229</u> (RHC-CE070) | PWO 1135683 | Removed snubber DA-029 and installed snubber DA-363. |
| 20-07-06 | <u>2</u> | GBB-004-SS-211 | PWO 1135690 | Removed snubber DA-315 and |
| 20-07-00 | <u> </u> | (RHF-CE068) | <u>r wo 1133090</u> | installed snubber DA-365. |
| 20-07-07 | 2 | HBB-024-SS-221 | PWO 1135679 | Removed snubber DA-035 and |
| 20-07-07 | ± | (RHA-CE056) | 1 WO 1133079 | installed snubber DA-317 |
| 20-07-08 | <u>2</u> | HBB-024-SS-227A | PWO 1135681 | Removed snubber DA-253 and |
| 20 07 00 | = | (RHC-CE024A) | <u>1 WO 1155001</u> | installed snubber DA-066 |
| 20-07-09 | <u>2</u> | HBB-024-SS-227B | PWO 1135682 | Removed snubber DA-254 and |
| | _ | (RHC-CE024B) | | installed snubber DA-051 |
| 20-07-10 | <u>2</u> | EBB-5-SR-9 | CWO A73452 | Replaced missing bolt/nut on pipe |
| | _ | (HPB-CE069) | | clamp |
| <u>20-07-11</u> | <u>2</u> | HLE-012-SS-312 | PWO 1135677 | Removed snubber 2500-10-862 and |
| | | | | installed snubber DA-398 |
| <u>20-07-12</u> | <u>2</u> | <u>GLE008</u> | <u>MWO 1137249</u> | Modification of Supports (GLE-8-A2 |
| | | | | and GLE-8-H-24) and added new |
| | | | | snubber GLE-8-SS-01 In addition |
| | | | | PS-1 Support on HLE012 was |
| | _ | | | removed |
| <u>20-07-13</u> | <u>2</u> | EBB-5-H-12 | MWO 1138093 | Removed pipe hanger per ECP 1803. |
| 20.07.15 | 2 | (HPB-CE071) | NWO 1127/05 | 7 4 11 1 |
| <u>20-07-15</u> | <u>2</u> | EBB-5-SR-10 | MWO 1137685 | Installed new support |
| 20-07-16 | <u>2</u> | (HPB-CE052A) HBB-002-SS-300 | PWO 1135693 | Removed snubber 2500-10-865 and |
| 20-07-10 | ₹ | (CSA-CE038A) | <u>F WO 1133093</u> | installed snubber DA-395 |
| 20-07-17 | <u>2</u> | EBD-002-SS-114 | PWO 1133768 | Removed snubber DA-78 and |
| 20-07-17 | = | (MSD-CE026) | <u>1 WO 1133700</u> | installed DA-107 |
| 20-07-18 | <u>2</u> | EBD-002-SS-113 | PWO 1133767 | Removed snubber DA-79 and |
| 20.07.10 | = | (MSC-CE029) | 1110 1150101 | installed DA-104 |
| 20-07-19 | <u>2</u> | GLE-008-SS-239 | PWO 1135692 | Removed snubber DA-200 and |
| | _ | (RHK-CE008A) | | installed snubber DA-049 |
| 20-07-20 | <u>2</u> | EBD-006-SS-151 | PWO 1133769 | Removed snubber DA-031 and |
| | | (MSE-CE037) | | installed snubber DA-354 |
| <u>20-07-21</u> | <u>2</u> | HLE-011-SS-306 | PWO 1135695 | Removed snubber 2500-10-863 and |
| | | | | installed snubber DA-352 |
| <u>20-07-22</u> | <u>2</u> | HLE-011-SS-305 | PWO 1135694 | Removed snubber DA-112 and |
| | | | | installed snubber DA-396 |
| <u>20-07-25</u> | $\frac{2}{2}$ | EBB005 | MWO 1137650 | Installation of Valve V23-0081 |
| <u>20-07-26</u> | <u>2</u> | EBB-5-SA-5 | MWO 1138199 | Removed seismic restraint per ECP |
| 20.05.25 | • | (HPB-CE047) | 1000 110501 | 1803 |
| <u>20-07-27</u> | <u>2</u> | EBB-5-H-9 | <u>MWO 1137681</u> | Modification of support |
| | | (HPB-CE063) | | |

November 1, 2006 through March 18, 2007

Part G, page 2 of 3

- 1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420
- 2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF ASME SECTION XI REPAIRS AND REPLACEMENTS (cont.)

The repairs and replacements addressed in this report were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 2001 with the 2003 Addenda.

| <u>NIS-2 NO.</u> | CLASS | <u>COMPONENT</u> | WORK DOCUMENT | <u>DESCRIPTION</u> |
|------------------|-------------------------|----------------------------|-------------------------------------|--|
| <u>20-07-28</u> | <u>2</u> | EBB-5-SR-4 | MWO 1138178 | Modification of support |
| 20.07.20 | 2 | (HPB-CE025) | MWO 1120177 | Madification of summer |
| <u>20-07-29</u> | <u>2</u> | EBB-5-SR-3 (HPB-CE018) | MWO 1138177 | Modification of support |
| 20-07-30 | <u>2</u> | EBB-5-SR-12 | MWO 1138179 | Modification of support |
| | = | (HPB-CE008A) | <u> </u> | |
| 20-07-32 | <u>2</u> | EBB-5-SG-1 | MWO 1137682 | Modification of support |
| | | (HPB-CE055) | | |
| <u>20-07-33</u> | <u>2</u> | EBB-5-SR-11 | MWO 1137680 | Modification of support |
| 20.07.25 | | (HPB-CE063) |) (IVO 1125/55 | T . 11 |
| <u>20-07-35</u> | <u>1</u> | DLA-1-SS-10 (BSD K001A) | <u>MWO 1137675</u> | Installation of new snubber |
| 20-07-36 | <u>2</u> | (PSB-K001A) EBB-5-SR-9 | MWO 1137679 | Replacement of pipe clamp |
| 20-07-30 | <u> </u> | (HPB-CE069) | <u>MWO 1137077</u> | replacement of pipe clamp |
| 20-07-37 | 1 | CRD Bolting | Various (See NIS-2) | Replaced CRD and bolting |
| 20-07-38 | $\frac{1}{\frac{1}{2}}$ | CRD Bolting | Various (See NIS-2) | Replaced CRD and bolting |
| 20-07-39 | 2 | HLE013 | CWO A73715 | Replaced a portion of piping due to |
| | | | | wall thinning |
| <u>20-07-40</u> | <u>2</u> | EBB-5-H-6 | MWO 1137684 & | Removed U-Bolt from pipe support |
| 20.07.41 | 2 | (HPB-CE052) | CWO A77649 | per ECP 1803 |
| <u>20-07-41</u> | 2 | XS2618A & B | <u>PWO 1133664 &</u> 1136440 | Replaced explosive valves on frequency required by IST Program |
| 20-07-42 | <u>1</u> | CSB-F004 | CWO A76710 | Linear indication reduced to |
| 20 07 12 | _ | <u>CBB 1004</u> | <u>ewo 1170710</u> | acceptable size (Ref CAP 47392) |
| 20-07-43 | <u>2</u> | HCU Accumulators | Various (See NIS- | Replace HCU Accumulators |
| | _ | · · | 2_ | |
| <u>20-07-44</u> | <u>2</u> | EBB005 | MWO 1137581 | Installation of 3/4" Sockolet on |
| | | | | EBB005 Line |
| <u>20-07-45</u> | <u>2</u> | EBB005 | <u>MWO 1137662</u> | Added 3/4" taps to piping for vent and |
| | | | | drain and PSV-2302 (Note the relief valve was removed) |
| 20-07-46 | <u>2</u> | EBB-5-H-7 | MWO 1137683, | Removed U-Bolt and added shims on |
| 20 07 10 | 2 | (HPB-CE053) | 1139426 & CWO | pipe support per ECP 1803 |
| | | | A77649 | |
| 20-07-47 | <u>2</u> | EBB-5-SR-8 | MWO 1137678 | Replaced baseplate |
| | | (HPB-CE072) | • | |

November 1, 2006 through March 18, 2007

Part G, page 3 of 3

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF ASME SECTION XI REPAIRS AND REPLACEMENTS (cont.)

The repairs and replacements addressed in this report were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 2001 with the 2003 Addenda.

| NIS-2 NO. | CLASS | <u>COMPONENT</u> | WORK DOCUMENT | DESCRIPTION |
|-----------------|------------------|-----------------------|---------------------------------------|--------------------------------------|
| <u>20-07-48</u> | <u>1</u> | PSV4402 | PWO 1134948 | Replaced pilot and one mounting nut |
| <u>20-07-49</u> | <u>1</u> | Safeends N2F and N2C | MWO 1139066, | Applied Full Structural Weld Overlay |
| | | | 1139067, 1139064, | to Safeend to Nozzle Weld |
| | | | & 11139059 | |
| 20-07-50 | <u>2</u> | Support after CV4371C | MWO 1137245 | Modified support after CV4371C by |
| | | | | removing anchor strap and replacing |
| | | | | with U-Bolt guide |
| 20-07-51 | <u>2</u> | MO2132 | MWO 1136693 | Replaced MO2132 and approximately |
| | _ | | | 12" of 8" piping downstream |
| 20-07-52 | 2 | MO2112 | MWO 1136691 | Replaced MO2112 and approximately |
| | | | · · · · · · · · · · · · · · · · · · · | 12" of 8" piping downstream |
| 20-07-53 | <u>1</u> | QR0005 & QR0006 | MWO 1137217 & | Welded seismic monitor mounting |
| | | | 1137218 | plate to class 1 clamps on |
| | | | | Recirculation B Loop and Main |
| | | | | Steam B Loop Pipe Clamps |
| 20-07-55 | <u>1</u> | <u>1P201A</u> | PWO 1136891 | Replaced seal assembly |
| 20-07-56 | $\frac{1}{2}$ | MO1098 | CWO A73336 | Replaced valve and a portion of |
| | | | | upstream 2" piping |
| <u>20-07-57</u> | <u>1</u> | <u>1P201B</u> | CWO A76827 | Replaced seal assembly and |
| | | | · | capscrews |
| <u>20-07-58</u> | <u>1</u> | <u>PSV4401</u> | PWO 1134947 | Replace pilot and one mounting bolt |
| <u>20-07-59</u> | 1 1 1 1 | <u>PSV4406</u> | PWO 1134952 | Replaced pilot |
| <u>20-07-60</u> | <u>1</u> | <u>PSV4407</u> | PWO 1134953 | Replaced pilot and one mounting bolt |
| <u>20-07-61</u> | <u>1</u> | PSV4400 | PWO 1134946 & | Replaced pilot, main valve body and |
| | | | <u>135063</u> | one mounting bolt |
| <u>20-07-62</u> | <u>1</u> | PSV4405 | PWO 1134951 & | Replaced pilot and main valve body |
| | | | <u>1135064</u> | |
| <u>20-07-63</u> | <u>1</u> | DLA-5-H-3 | CWO A62287 | Replaced spring can hanger rod with |
| | | (RHC-K013) | | a longer rod |
| <u>20-07-64</u> | <u>2</u> | <u>GLE007</u> | MWO 1137248 | Replaced spring can hanger GLE-7- |
| | | | | H-17 and installation of two new |
| | | | | snubbers GLE-7-SS-001 and Gle-7- |
| | | | | <u>SS-002</u> |
| <u>20-07-65</u> | <u>2</u> | Main Steam Supports | MWO 1138808 | Removed two supports on 2" Main |
| | | | | Steam Drip Legs per ECP 1814. |
| | | | | |

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

November 1, 2006 through March 18, 2007

Part H, page 1 of 112

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

4) Owners Certificate of Authorization (if required): N/A 5) Commercial Service Date: 02/01/75

3) Plant Unit: #1

6) National Board Number of Unit: N/A Gross Generating Capacity: 649 MWE

Form NIS-2's

November 1, 2006 through March 18, 2007

Part H, page 2 of 112

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

| P.O. Box 14000 Juno Beach, FL 33408-0420 Address 2. Plant Duane Arnold Energy Center Name 3277 DAEC Road, Palo, IA 52324 Address PWO 1135683 Repair Organization to P. O. No., Job No., etc. | |
|---|----------------|
| Name 3277 DAEC Road, Palo, IA 52324 PWO 1135683 | |
| | |
| | • |
| 3. Work Performed by FPL Energy Name Name Authorization No. None 3277 DAEC Road, Palo, IA 52324 Expiration Date None 4. Identification of System: HBB-023-SS-229 (HSSA-10 Snubber) | |
| 5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition 71 Addenda N/ (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001-A03 | Code Case. |
| 6. Identification of Components Repaired or Replaced and Replacement Components Name of Component Manufacturer Serial No. National Board No. Other Identification Replacement Replacement Component Replacement Component Name of Manufacturer Serial No. National Board No. | ed, or (YES or |
| HSSA-10 Snubber Anchor Darling Removed DA-029 N/A N/A Unknown Repla | aced No |
| | |
| 7. Description of Work: Removed snubber DA-029 and installed snubber DA-363 at location HBB-023-SS | -229 |
| 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Press | sure |
| Other Pressure N/A psi Test Temp N/A | ° F |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017.

FORM NIS-2 (Back)

| 9. Remarks: | | 29 was replaced due to ation HBB-023-SS-229 | | | | | |
|-----------------------|--------------------|--|----------------|--------------------|--------------------|----------------------------------|-----------|
| | | aired during rebuild) A | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | CERTIFICATE | OF COMPL | IANCE | | | - |
| We certify that the | statements made i | in the report are correct | and this | Replacement | | | |
| conforms to the rule | es of the ASME C | Code, Section XI. | | (repair or replace | cement) | | |
| Type Code Symbol | | None | | | | | |
| Certificate of Author | orization No. | None | Exp | iration Date | N/A | | · · |
| Signed Sr | with I mes | l Program Engi | neering Dat | e February 9th, | | 2007 | |
| | Owner or Ow | ner's Designee, Title | | | | | 4 |
| | | | | | | | |
| | | CERTIFICATE | OF INSERV | ICE INSPECTIO | N | | |
| I the yardensiemed l | haldina a valid aa | | • | | | anastara and | |
| the State or Provinc | e of | mmission issued by the Iowa | and | employed by | HSB CT | | |
| of during the period | Hartford, C | | | pected the compon | | this Owner's te that to the l | |
| my knowledge and | belief, the Owner | has performed examin the ASME Code, Section | ations and tak | en corrective meas | sures described in | this Owner's | Report in |
| | | Inspector nor his empl | | | | | |
| | | s described in this Own injury or property dam | | | | | |
| J31 — | | | _ | | | | • |
| Increator's | Signature | | National Boar | 12329ANI | and Endorsemen | y nts | |

Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

| 1. | Owners | FPL Energy I Name | Duane Arnold LLC | | Date | 02 | /09/07 | | |
|------------------------------------|---|--|---|-----------------------|------------------------|----------------------|------------------------|--|--|
| | P.O. Box | 4000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | | |
| | 3277] | DAEC Road, Pal | | | | PWO 11356 | 90 o P. O. No., Jol | o No., etc. | |
| 3. 4. | Name 3277 DAEC Road, Palo, IA 52324 Identification of System: GBB-004-SS-211 (H | | | | Authoriza Expiratio | | No | one one | |
| 5 . | (a) Applic | eable Construction of the Edition of | on Code ANSI Section XI Utilized | for Repairs of | 19 69 or Replacemen | its 2001 <u>-A03</u> | 71 Adde | enda N/A | Code Case. |
| 6. (| Name of Component | Name of Manufacturer | nts Repaired or Rep Manufacturer Serial No. | National Board No. | Other Ide | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HSS | A-10 Snubber | Anchor Darling | Removed DA-315 Installed DA-365 | N/A | N. | /A | Unknown | Replaced | No |
| | | | | | | | | | |
| 7. | Description | n of Work: | Removed snubber | DA-315 and | installed snub | ober DA-365 | at location GB | B-004-SS-211 | |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic | | Nominal Opera | iting Pressure | |
| | | Other | Pressur | re <u>N/A</u> | A psi | Test Temp | N/A | ° F | |
| | | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017.

FORM NIS-2 (Back)

| 9. | Remarks: | Snubber DA-315 was replaced due to seal life expiration. A rebuilt snubber, DA-365, was rebuilt, tested, and installed in location GBB-004-SS-211. DA-365 was rebuilt on PWO 1136215 (no load bearing parts were replaced or repaired during rebuild). A VT-3 examination (P07042) was performed following installation of DA-365. |
|----|----------|--|
| | · | |

| CERTIFICATE OF COMPLIANCE | | | | | |
|---|---|--|--|--|--|
| We certify that the statements made in the report are correct and this | Replacement | | | | |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) | | | | |
| Type Code Symbol Stamp None | | | | | |
| Certificate of Authorization No. None Expiration Date N/A | | | | | |
| Signed AcM Program Engineering Date February 9th, 2007 Owner or Owner's Designee, Title | | | | | |
| | | | | | |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT | | | | | |
| of Hartford, Conn. have inspe | ected the components described in this Owner's Report | | | | |
| during the period $10-10-06$ To $3-10-07$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. | | | | | |
| Commissions NB 1232 | ANT, 1496 FA, State, Province, and Endorsements | | | | |
| Inspector's Signature National Board | , State, Province, and Endorsements | | | | |
| Date | | | | | |

3

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

| 1. | Owners | FPL Energy D | Quane Arnold LLC | | Date | 02 | /09/07 | | | |
|------------------------------------|--|--------------------------|------------------------------------|-----------------------|--|------------|--------------|---------------------------------------|--|--|
| | P.O. Box 1 | 14000 Juno Beac Addre | h, FL 33408-0420 | | Sheet _ | 1 | of | | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | . 1 | i | | <u></u> | |
| | 3277 I | DAEC Road, Pal | | | | WO 11356 | | Joh No | , etc | |
| 3. 4. | Name 3277 DAEC Road, Palo, IA 52324 | | | | Repair Organization to P. O. No., Job No., etc. Type Code Symbol Stamp Authorization No. Expiration Date None None | | | | | |
| 5. | | able Construction | | B31.7 | 19 69 | Edition | 71 A | ddenda | N/A | Code Case. |
| 6. | | | Section XI Utilized | - | • | | | · · · · · · · · · · · · · · · · · · · | | |
| . , | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Iden | tification | Year Bu | | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HSS | SA-10 Snubber | Anchor Darling | Removed DA-035 Installed DA-317 | N/A | N/A | | Unknov | vn | Replaced | No |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 7. | Description | n of Work: | Removed snubber | DA-035 and | installed snubb | er DA-317 | at location | HBB-0 | 24-SS-221 | |
| 8. | Tests Cond | ducted: | Hydrostatic | | Pneumatic | | Nominal O | perating | g Pressure | |
| | | Other | Pressur | reN/A | psi | Test Temp | · | J/A | ° F | |
| NC | OTF: Supplen | nental sheets in f | orm of lists, sketch | es or drawing | ss may be used | | 1) size is 0 | 1/2 in v | 11 in (2) in | oformation. |

the top of this form. (12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017.

FORM NIS-2 (Back)

| ۵ | Remarks: |
|----|----------|
| 9. | Remarks |

Snubber DA-035 was replaced due to seal life expiration. A rebuilt snubber, DA-317, was rebuilt, tested, and installed in location HBB-024-SS-221. DA-317 was rebuilt on PWO 1136213 (no load bearing parts were replaced or repaired during rebuild). A VT-3 examination (P07050) was performed following installation of DA-317.

| CERTIFICATE OF COMPLIANCE | | | | | | |
|---|---|--|--|--|--|--|
| We certify that the statements made in the report are correct and this | Replacement (repair or replacement) | | | | | |
| conforms to the rules of the ASME Code, Section XI. | · · · · · · · · · · · · · · · · · · · | | | | | |
| Type Code Symbol Stamp None | | | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | | | |
| Signed Swt / rus Program Engineering | Date February 9th, 2007 | | | | | |
| Owner or Owner's Designee, Title | | | | | | |
| | | | | | | |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT | | | | | | |
| of Hartford, Conn. have inspected the components described in this Owner's Report | | | | | | |
| during the period //- 10-0 To -/ 10-0 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. | | | | | | |
| BC Commissions NB | 13339ANI 1496 IA Board, State, Province, and Endorsements | | | | | |
| Inspector's Signature National | Board, State, Province, and Endorsements | | | | | |
| Date <u> </u> | | | | | | |

| 1. | Owners | FPL Energy D | Quane Arnold LLC | | Date | 02/ | /09/07 | | |
|------------------------------------|--|--|------------------------------------|-----------------------|--|-------------------------------|-----------------------------|--|--|
| - | P.O. Box 1 | | h, FL 33408-0420 | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit | 1 | | | |
| - | 32 <u>77</u> I | DAEC Road, Pal Addre | | | Repair C | PWO 113568 Organization to | 81 o P. O. No., Job | No., etc. | |
| 4. 5. | 3277 DAE Identificati (a) Applic | ormed by FPL E Name C Road, Palo, IA on of System: able Construction | A 52324 HBB-024-S | B31.7 | Authoriz Expiration SA-3 Snubber 19 6 |) 9 Edition | Nor Nor Nor Nor Nor | ne ne | Code Case. |
| 6. | . , | | nts Repaired or Rep | - | - | | | | |
| ľ | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HSSA | x-3 Snubber | Anchor Darling | Removed DA-253 Installed DA-066 | N/A | Ŋ | I/A | Unknown | Replaced | No |
| | | | • | - | | | | | |
| 7. | Description | n of Work: | Removed snubber | DA-253 and | installed snu | ober DA-066 | at location HBB | -024-SS-227A | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic | 1 | Nominal Operat | ing Pressure | |
| | | Other | Pressur | re <u>N/</u> | A psi | Test Temp | N/A | ° F . | |
| NOT | `E: Supplen | nental sheets in f | form of lists, sketch | es, or drawin | gs may be use | ed. provided (| 1) size is 81/2 in | . x 11 in (2) ir | nformation |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

Snubber DA-253 was replaced due to seal life expiration. A rebuilt snubber, DA-066, was rebuilt, tested, and

| | HBB-024-SS-227A. DA-(during rebuild). A VT-3 e | | | | | |
|--|--|----------|---------------------------------------|------------------------------|-----------------|---------------|
| DA-066. | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | CERTIFICATE OF COM | MPLIA | NCE | | | |
| We certify that the statements made in the | report are correct and this | 1 | Replacement | | | |
| We certify that the statements made in the report are correct and this | | | (repair or repla | cement) | | |
| conforms to the rules of the ASME Code, | Section XI. | | • | | | |
| Type Code Symbol Stamp | None | | | | | |
| Certificate of Authorization No. | None | Expira | ation Date | N/A | | |
| Signed Scott much | ✓ Program Engineering | Date | February 9th | | 2007 | |
| Owner or Owner's | | - | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | | |
| (| CERTIFICATE OF INSI | ERVIC | E INSPECTIO | N | | |
| I, the undersigned, holding a valid commis the State or Province of | sion issued by the Nationa Iowa | | | Pressure Vessel In HSB CT | aspectors an | d. |
| of Hartford, Conn. | | | | nents described in | this Owner | 's Report |
| during the period //-10-06 | To J | 7-10-0 | 27 | , and sta | ate that to the | e best of |
| my knowledge and belief, the Owner has p accordance with the requirements of the A | | nd taken | corrective meas | sures described in | 1 this Owner | 's Report in |
| By signing this certificate neither the Inspe | ector nor his employer mak | kes anv | warranty, expre | ssed or implied | concerning t | he. |
| examinations and corrective measures desc | cribed in this Owner's Rep | ort. Fu | ırthermore, neith | er the Inspector | nor his empl | oyer shall be |
| liable in any manner for any personal injur | y or property damage or a | loss of | any kind arising | g from or connect | ed with this | inspection. |

NB 1339ANT 1496 In
National Board, State, Province, and Endorsements

Date

Inspector's Signature

Commissions

9.

| 1. | Owners | FPL Energy D | Duane Arnold LLC | <u></u> | Date _ | 02/0 |)9/07 | | |
|---------------------------------|------------------|---|-------------------------------------|----------------------------|---|-------------------------------|---------------------|--|--|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet _ | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | 11 | | | |
| | 3277 | DAEC Road, Pal Addre | | | | PWO 1135682 ganization to | 2 P. O. No., Job | No., etc. | |
| 3.4. | 3277 DAE | formed by <u>FPL E</u> Name EC Road, Palo, IA ion of System: | A 52324 HBB-024-S | | Authorizat Expiration SA-3 Snubber) | Date | Nor Nor | ne ne | |
| 5. | | cable Construction of S | on Code ANS: Section XI Utilized | I B31.7 I for Repairs o | 19 69 or Replacements | Edition s 2001 <u>-A03</u> | 71 Adder | nda N/A | Code Case. |
| 6. | Identificat | ion of Componer | nts Repaired or Rep | olaced and Re | placement Com | ponents | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Iden | tification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HSSA | A-3 Snubber | Anchor Darling | Removed DA-254 Installed DA-051 | N/A | N/A | | Unknown | Replaced | No |
| | | | | | | | | | |
| | | | | | | | | | |
| 7. | Description | n of Work: | Removed snubber | DA-254 and | installed snubb | er DA-051 at | location HBB | -024-SS-227B | |
| 8: | Tests Cond | _ | Hydrostatic | | Pneumatic | | ominal Operat | | |
| | | Other | Pressur | reN/A | A psi | Test Temp | N/A | °F | |
| MOT | Te Committee | | orm of lists skatch | an an duo-st- | | | | w 11 in (2) in | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks: | installed in loca | 54 was replaced due ation HBB-024-SS- aired during rebuild | 227B. DA-051 w | as rebuilt on PWO | O 1136210 (no | o load bearing pa | arts were |
|---------------------|-------------------|--|-----------------|---------------------|----------------|-------------------|-------------|
| | | | | | | | |
| | | | | | | | |
| | | | | • | | • | |
| | | | | | | ····· | |
| | | CERTIFICA | TE OF COMPL | ANCE | | · · | • |
| We certify that the | statements made | in the report are cor | rect and this | Replacement | | | |
| | | | | (repair or repla | cement) | | |
| conforms to the ru | les of the ASME C | Code, Section XI. | | | | | • |
| Type Code Symbo | l Stamp | None | | | | | |
| Certificate of Auth | orization No. | None | Exp | iration Date | N/A | | |
| | | 1 | | | 1771 | | |
| Signed | co XI pu | | ngineering Date | February 9th | , | 2007 | |
| | Owner or Ow | ner's Designee, Tit | le | | į | | |
| | | | | | | | |
| | | | | | | | |
| | • | CERTIFICAT | TE OF INSERVI | CE INSPECTIO | PN . | | |
| | | mmission issued by | | | | el Inspectors and | |
| the State or Provin | | Iowa | | | HSB CT | 1: 1: 0 | <u> </u> |
| of | Hartford, C | | | pected the compor | | | - |
| during the period | | has performed exam | | | | state that to the | |
| | | the ASME Code, Se | | on corrective meas | sares describe | u iii iiiis Owner | s report in |
| | • | | | | | | |
| | | Inspector nor his er | | | | | |
| | | s described in this C injury or property o | | | | | |
| SAL | | Commissions | NB 1 |)329ANI, | 1491 | IN | |
| Inspector' | s Signature | | National Boar | d, State, Province, | and Endorse | ments | |
| Date 2- | 10 | | | | | | |

| 1. | Owners | FPL Energy I | Duane Arnold LLC | | Date | 02 | /09/07 | | <u>.</u> |
|---------------------------------|--|--------------------------------|--|-------------------------|---|-----------------------------|----------------------|--|--|
| | P.O. Box 1 | 14000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | <u> </u> | | · |
| | 3277 1 | DAEC Road, Pal Addre | | · | | WO A7345 | 52 o P. O. No., J | lob No., etc. | · |
| 3.4. | 3. Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 | | | | Type Code Authorizati Expiration Discharge Pip | ion No. Date | | None None None | |
| 5. | (a) Applic | able Construction of a | | B31.7 for Repairs or | 19 69 Replacements | Edition 2001 <u>-A03</u> | 70 Ad | denda N/A | Code Case. |
| | Name of component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identi | | Year Buil | t Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBB | -S-SR-9 | Stud: Supplied through Bechtel | Heat #213-1216-C | N/A | N/A | ···· | 1973 | Replaced | No |
| | | Nuts: Dubose | Heat: 41978 | N/A | N/A | | 2005 | Replaced | No |
| | | | | | | | | | · · |
| 7. | Description | n of Work: | Replaced missing | bolt/nut on EB | B-S-SR-9 pipe | clamp (IS | I Class 2 bou | ndary) | |
| 8. | Tests Cond | | Hydrostatic | <u> </u> | Pneumatic | | - | rating Pressure | |
| NO | | Other | Pressur | e N/A | psi psi | Test Temp | N/2 | 4 ° F | |
| | | | orm of lists, sketch t is included on eac | | | | | | |

| 9. | Remarks: | HPCI pump discharge pipe clamp, EBB-S-SR-9, was found to have a missing bolt (two bolt pipe clamp). The |
|----|----------|---|
| | | missing A-307 bolting was replaced with a SA-193, B7 stud and SA-194, 2H nuts. The material substitution ha |
| | | been evaluated in EMA A73452. A VT-3 examination (P07069) was completed following bolt installation. |

| CER | TIFICATE OF COMPLI | ANCE | | | |
|--|---------------------------|---|--|--|--|
| We certify that the statements made in the report | t are correct and this | Replacement (repair or replacement) | | | |
| conforms to the rules of the ASME Code, Section | on XI. | (repair of replacement) | | | |
| Type Code Symbol Stamp Non | e | | | | |
| Certificate of Authorization No. | None Expi | ration Date N/A | | | |
| Signed Swift Program Engineering Date February 9th, 2007 Owner or Owner's Designee, Title | | | | | |
| | | | | | |
| CERT | TIFICATE OF INSERVI | CE INSPECTION | | | |
| I, the undersigned, holding a valid commission in the State or Province of Io | | rd of Boiler and Pressure Vessel Inspectors and employed by HSB CT | | | |
| of Hartford, Conn. | have insp | ected the components described in this Owner's Report | | | |
| during the period 1-24-67 To 2-10-07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | | | | | |
| examinations and corrective measures described | in this Owner's Report. F | warranty, expressed or implied, concerning the urthermore, neither the Inspector nor his employer shall be f any kind arising from or connected with this inspection. | | | |
| Ommiss Commiss | sions NB 12 | 374ANT, 1496 TA I, State, Province, and Endorsements | | | |
| Inspector's Signature | National Board | I, State, Province, and Endorsements | | | |
| Date | | | | | |

| 1. | Owners | FPL Energy D | Quane Arnold LLC | · . | Date02 | /16/07 | . · | |
|------------------------------------|----------------------|---|---|-----------------------------------|---|--------------------|--|---|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 | | Sheet 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit 1 | | | |
| | 3277 I | DAEC Road, Pal Addre | | | PWO 11356 Repair Organization to | | No., etc. | |
| 3. 4. | 3277 DAE | ormed by <u>FPL E</u> Name C Road, Palo, IA on of System: | A 52324 | S-312 (RHR L | Type Code Symbol St Authorization No. Expiration Date oop "B" Torus Spray Snul | Nor Nor | ne | · . · · · · · · · · · · · · · · · · · · |
| 5.6. | (a) Applic | able Construction of (| on Code ASME Section XI Utilized | Section III, NF for Repairs or | | No Adder | nda N/A | Code Case. |
| 0. | Identificati | lon of Componer | is Repaired of Rep | naced and Kep | nacement Components | T | <u> </u> | ASME Code |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | Stamped (YES or NO) |
|) · | | | | | Other Identification N/A | Year Built Unknown | Replaced, or | Stamped (YES or |
|) · | Component | Manufacturer | Serial No. Removed 2500-10- 862 | Board No. | | | Replaced, or Replacement | Stamped (YES or NO) |
|) · | Component | Manufacturer Bergen Paterson | Serial No. Removed 2500-10- 862 Installed DA-398 | Board No. | | | Replaced, or Replacement | Stamped (YES or NO) |
|) · | Component | Manufacturer Bergen Paterson | Serial No. Removed 2500-10- 862 Installed DA-398 | Board No. | N/A | | Replaced, or Replacement | Stamped (YES or NO) |
| HLE | -012-SS-312 | Manufacturer Bergen Paterson n of Work: | Serial No. Removed 2500-10- 862 Installed DA-398 | Board No. N/A at location HI | N/A .E-012-SS-312. | | Replaced, or Replaced | Stamped (YES or NO) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

Snubber 2500-10-862 was removed due to seal life expiration and replaced with rebuilt spare snubber DA-398.

DA-398 was rebuilt on PWO 1136218 and R&R activities documented on NIS-2 20-07-02. This snubber

| location is ex | kempt from pre-service V1-3 requiren | nents due to line size. | |
|---|--|---|--|
| | and the second s | | |
| | | | |
| | CERTIFICATE OF COMP | LIANCE | , |
| We certify that the statements mad | le in the report are correct and this | Replacement (repair or replacement | <u>. </u> |
| conforms to the rules of the ASME | Code, Section XI. | · · | |
| Type Code Symbol Stamp | None | | |
| Certificate of Authorization No. | | xpiration Date | . N/A |
| Signed Scott res | Program Engineering Dancer's Designee, Title | ate February 16th, | 2007 |
| | | | |
| • | CERTIFICATE OF INSERV | VICE INSPECTION | |
| the State or Province of | | nd employed by HSB C | CT |
| of Hartford | d. Conn. have in | nspected the components de | escribed in this Owner's Report |
| my knowledge and belief, the Owr accordance with the requirements | ner has performed examinations and to | 2-07 aken corrective measures d | _ , and state that to the best of escribed in this Owner's Report in |
| examinations and corrective measu | the Inspector nor his employer makes ures described in this Owner's Report. nal injury or property damage or a los | . Furthermore, neither the | Inspector nor his employer shall be |
| Ja C. Signatura | Commissions National Bo | 329 ANT, 1496 pard, State, Province, and E | I.d. |
| Inspector's Signature | National Do | ard, State, Province, and E | ndorsements |
| Date $2-17$ | , 2007 | | |

9.

| 1. | Owners | | Duane Arnold LLC | | Date04/ | 04/07 | | |
|-----------|-----------------------|---------------------------|--------------------------------|-----------------------|--|-----------------|--|--|
| | P.O. Box 1 | Name 4000 Juno Beac | ch, FL 33408-0420 | | Sheet 1 | of | 2 | <u> </u> |
| 2. | Plant | | Energy Center | | Unit 1 | | | · . |
| | 2277 1 | Name | | | MWO 1127240 | | | |
| | 32//1 | DAEC Road, Pa | | | MWO 1137249 | D O Ma Tab | N4- | |
| | | Addr | ess | | Repair Organization to | P. O. No., Job | No., etc. | |
| 3. | Work Perf | ormed by <u>FPL E</u> | Energy | | Type Code Symbol Sta | amp Nor | ie _ | |
| | | Name | - | | Authorization No. | Non | ie | |
| | 3277 DAE | C Road, Palo, L | A 52324 | | Expiration Date | Non | ie . | |
| 4. | | ion of System: | | n of Supports | _ | | | |
| 5. | | able Construction | | 31.7 Class 2 | 19 69 Edition | 1971 Adden | da N/A | Code Case. |
| ٠. | | | · | | or Replacements 2001-A03 | | | |
| _ | T1 .: .: .: .: | | , n . 1 n | | 1 | | | |
| <u>6.</u> | Identificati | on of Compone | nts Repaired or Rep | placed and Re | placement Components | | · · · · · · · · · · · · · · · · · · · | LASMEGAL |
| | Name of component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | -8-SS-01 GLE-8-A1) | Southland Tube | Ht # N62852 | N/A | ANSI A500 Tube Steel 4" x 4" | 2006 | Replacement | No |
| | " | Lisega | 30500547/004 (Hyd Cylinder) | N/A | Group 4 Hydraulic Snubber 304256 | 2005 | Replacement | No |
| <u> </u> | " | Lisega | 354953 | N/A | Group 4 Weld End Bracket | 2005 | Replacement | No |
| | " | Lisega . | 362761 | N/A | Group 4 10" Pipe Yoke Clamp | | Replacement | No |
| | " | Feralloy | Ht. # 1612940 | N/A | ½" A36 Plate | 2006 | Replacement | No |
| | " | NUCOR | Ht. # 1608636 | N/A | W4X13 A992 Beam | 2006_ | Replacement | No |
| | <u>-</u> | Bergen-Power | Ht # 8070063 Ht Code G4 | N/A | 1" A36 Rod | 2006 | Replacement | No |
| SK-G | GLE-8-A2 | Bergen-Power | 1000-4 (w/Assy of 2250-4) | N/A | Attachment, End, Restraint, Size 4 | 2006 | Replacement | No · |
| | " | Bergen-Power | 2250-4 | N/A | Adjustable Rigid Strut, Size 4 | 2006 | Replacement | No |
| OL E | | Bergen-Power | 6175-4 | N/A | Size 4 10" Pipe yoke | 2006 | Replacement | No |
| GLE- | -8-H-24 | Bergen-Power Bergen-Power | 1047 Type 2 3400 Type B | N/A N/A | Type Beam Attachment Size 13 Type B VS | 2006 | Replacement Replacement | No No |
| " | | Cardinal | Ht # MX2374 | N/A | 1" Hex Nut A194 Gr 2H | 1985 | Replacement | No |
| | | Bergen-Power | 5130 | N/A | 1" Eyenut | 2006 | Replacement | No |
| | | Bergen-Power | 6101 | N/A | 10" pipe Clamp- 2 bolt | 2006 | Replacement | No |
| | | Bergen-Power | Ht # 8070063 Ht Code G4 | N/A | 1" A36 Rod | 2006 | Replacement | · No |
| HLE | 012 | Unknown | N/A | N/A | PS-1 Detail C support | Unknown | Repair | No |
| 7. | Description | n of Work: | Modified supports | on GLE008 | Line to allow for Containme | | | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic N | Iominal Operati | ng Pressure | |
| | | Other | Pressur | e <u>N/A</u> | A psi Test Temp | N/A | °F | · . |
| in ite | ems 1 throug | gh 6 on this reporm. | rt is included on each | ch sheet, and | gs may be used, provided (1 (3) each sheet is numbered a Order Dept., ASME, 345 E. | and the number | of sheets is rec | orded at |

9. Remarks:

Supports for containment penetration X039B were modified to allow for thermal growth. Support GLE-8-H-24 spring cans and attachments were replaced and successful surface exams of structural welds and a successful VT-3 (P07058) were completed. A new support with a snubber was added called GLE-8-SS-1 on drawing GLE-8-A1. The snubber was successfully tested and the installed attachments had successful surface exams of the structural welds and a successful VT-3 of the support (P07059) completed. A rigid strut was added under drawing SK-GLE-8-A2 which had completed successful surface exams of the structural welds and a successful VT-3 of the support (P07060). A support below HLE-12-SA-1 listed as PS-1 Det. C was removed to allow for thermal growth.

| CERTIFICATE OF COMPLIANCE | | | | | |
|--|--|--|--|--|--|
| We certify that the statements made in the report are correct | and this Repair/Replacement (repair or replacement) | | | | |
| conforms to the rules of the ASME Code, Section XI. | | | | | |
| Type Code Symbol Stamp None | | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | | |
| Signed Sex North Program Engir Owner or Owner's Designee, Title | neering Date Jane 2, 2007 | | | | |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT | | | | | |
| of Hartford, Conn. | have inspected the components described in this Owner's Report | | | | |
| during the period /-/6-07 To 6-3-07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's Report. Furthermore, neither the Inspector nor his employer shall be | | | | | |
| | nage or a loss of any kind arising from or connected with this inspection. NS 13394N7, 1496 IA National Board, State, Province, and Endorsements | | | | |
| Date | | | | | |

| 1. | Owners | | Duane Arnold LLC | · | Date | | 03/ | 19/07 | | | |
|----------|-------------------|---------------------------------|--|--------------------------------|--|---------------|------------------|---------------------------------------|---|--|--|
| | P.O. Box 1 | Name 4000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | | 11 | 0 | of | 22 | |
| 2. | Plant | Duane Arnold | | | Unit | | 1 | | | • | |
| | | Name | | | | · | | · · · · · · · · · · · · · · · · · · · | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| • | 3277 I | DAEC Road, Pal | | | MWO 1138093 Repair Organization to P. O. No., Job No., etc. | | | | | | |
| | | Addre | ess | | Repa | ır Orga | inization to | P. O. N | 10., JOB N | o., etc. | |
| 3. | Work Perf | ormed by FPL E | nergy | | Type Code Symbol Stamp None | | | | | | |
| | | Name | | | | | on No. | | None | | |
| | | C Road, Palo, IA | | D' 1 | | ation I | Date | | None | | |
| 4. 5. | | on of System: able Constructio | | Discharge Lin 331.7 Class 2 | ie Suppor 19 | t 69 | Edition | 1971 | Addenda | a N/A | Code Case |
| ٥. | | | Section XI Utilized | | | | | 17/1 | Addenda | IV/A | - Code Case |
| | (b) Applic | able Edition of S | Section At Offized | i ioi Kepaiis oi | Replace | incins 2 | 2001 <u>-A03</u> | | | | |
| _6. | Identificati | on of Componer | nts Repaired or Rej | placed and Rep | lacement | Comp | onents | | | | |
| II . | Name of component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other | · Identif | Cication | Year | Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBB | -5-H-12 | Bergen Paterson (pipe clamp) | N/A | N/A | <u> </u> | N/A | | Unkı | nown | Replaced (Removed) | No |
| | - - | | | | | | | | | | |
| È. | | | | | | | | | | : | |
| | | | | | | | | | | | |
| | | | | | | | | | | <u> </u> | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | • |
| | | | 7 | | | | | | | | <u> </u> |
| 7. | Description | of Work: | Removed pipe ha | nger EBB-5-H | -12 per E | CP 180 | 03. | | | | |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumati | c | N | lominal | Operating | g Pressure | |
| | | Other | Pressur | re N/A | · | psi | Test Temp | | N/A | ° F | |
| in it | ems 1 throug | h 6 on this repor rm. | form of lists, sketch t is included on ea 0030) may be obtai | ch sheet, and (| 3) each sh | eet is | numbered a | and the r | number of | f sheets is rec | orded at |

Pipe hanger, EBB-5-H-12, has been permanently removed per ECP 1803. Removal included removal of associated structural steel. Four integrally attached lugs to the HPCI line remain in place.

| CERTIFICATE OF COM | MPLIANCE |
|--|--|
| We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. | Replacement (Removed) (repair or replacement) |
| Type Code Symbol Stamp Certificate of Authorization No. Signed None None None None None Owner or Owner's Designee, Title | Expiration Date N/A Date April 4th 2007 |
| CERTIFICATE OF INSI I, the undersigned, holding a valid commission issued by the National the State or Province of Iowa | |
| | re inspected the components described in this Owner's Report $(4-4-6)$, and state that to the best of |
| By signing this certificate neither the Inspector nor his employer make examinations and corrective measures described in this Owner's Repliable in any manner for any personal injury or property damage or a | ort. Furthermore, neither the Inspector nor his employer shall be loss of any kind arising from or connected with this inspection. |
| Inspector's Signature National Date | 13334ANI, 1496 IA Board, State, Province, and Endorsements |

9.

| 1. Owners | FPL Energy D | Ouane Arnold LLC | | Date 03 | /19/07 | | |
|--|---|---|--|---|--|---|--|
| | Name | | | | | | |
| P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet 1 | of | 2 | |
| 2. Plant | Duane Arnold Name | | | Unit 1 | | · . | · · · · · · · · · · · · · · · · · · · |
| 3277 | DAEC Road, Pal | | | MWO 1137685 | | | <u>-</u> _:_ |
| | Addre | ess | | Repair Organization t | o P. O. No., Job | No., etc. | |
| 3. Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 | | | | Type Code Symbol Son Authorization No. Expiration Date | tamp Noi Noi Noi | 1e | , |
| | tion of System: | HPCI | | Expiration Date | 1101 | ic | |
| | icable Constructio | n Code ANSI I | 331.7 Class II | 19 69 Edition | 1970 Adder | nda N/A | Code Case. |
| (b) Appl | icable Edition of S | Section XI Utilized | l for Repairs of | or Replacements 2001-A03 | | | |
| 6. Identifica | tion of Commono | sta Danairad ar Da | nlaced and Da | placement Components | | | , |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBB-5-SR-10 | NUCOR | Heat #6106099 | N/A | Plate, 3/4" A572 Gr. 50 | 2006 | Replacement | No |
| | | | | | | | |
| | NUCOR | Ht #1612382 | N/A | Plate, 1/4" A36 | 2006 | Replacement | No |
| | NUCOR NUCOR | Ht #1612382 Ht #6107180 | N/A N/A | Plate, ¼" A36 Plate, ¾" A572 Gr 50 | 2006 | Replacement Replacement | No No |
| | NUCOR NUCOR | Ht #6107180 Ht# 4105325 | N/A N/A | Plate, 3/4" A572 Gr 50 3/4" A572 Gr. 50 | 2006 2006 | Replacement Replacement | No No |
| | NUCOR | Ht #6107180 | N/A | Plate, ¾" A572 Gr 50 | 2006 | Replacement | No |
| | NUCOR NUCOR | Ht #6107180 Ht# 4105325 | N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 | 2006 2006 | Replacement Replacement | No No |
| | NUCOR NUCOR Atlas | Ht #6107180 Ht# 4105325 Ht #884616 | N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B | 2006 2006 2005 | Replacement Replacement Replacement | No No No |
| | NUCOR NUCOR Atlas Radnor | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 | N/A N/A N/A N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket | 2006 2006 2005 1992 2004 2004 | Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No |
| | NUCOR NUCOR Atlas Radnor Lisega Lisega Lisega | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 397079 | N/A N/A N/A N/A N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket Adjustable Rigid Strut | 2006 2006 2005 1992 2004 2004 2006 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No No |
| | NUCOR NUCOR Atlas Radnor Lisega Lisega | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 | N/A N/A N/A N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket | 2006 2006 2005 1992 2004 2004 | Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No |
| | NUCOR NUCOR Atlas Radnor Lisega Lisega Lisega | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 397079 | N/A N/A N/A N/A N/A N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket Adjustable Rigid Strut Plate, ½" A36 | 2006 2006 2005 1992 2004 2004 2006 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No No |
| 7. Descripti | NUCOR NUCOR Atlas Radnor Lisega Lisega Lisega NUCOR On of Work: | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 397079 Ht #1612940 | N/A N/A N/A N/A N/A N/A N/A N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket Adjustable Rigid Strut Plate, ½" A36 | 2006 2006 2005 1992 2004 2004 2006 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No No |
| 7. Description | NUCOR NUCOR Atlas Radnor Lisega Lisega Lisega NUCOR On of Work: | Ht #6107180 Ht# 4105325 Ht #884616 Ht #L40096 362765 357959 397079 Ht #1612940 Install new suppo | N/A | Plate, ¾" A572 Gr 50 ¾" A572 Gr. 50 Tube Steel 5"x5"x3/8" A500 Gr B Pipe, 10" Sch 40 A106 Gr B Pipe Clamp Weld On Bracket Adjustable Rigid Strut Plate, ½" A36 | 2006 2006 2005 1992 2004 2004 2006 2006 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | No No No No No No No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

Added new strut and associated auxiliary steel. . This support was upgraded as part of a package to upgrade

| | supports on Feedwater and HPCI in order to ion. Structural welds and attached piping we | | |
|--|--|---|---|
| | 071) was performed on EBB-5-SR-10. | and were successivity surface exami | ned, and a successful v 1- |
| <u> </u> | / | | |
| | | | |
| | | | |
| | CERTIFICATE OF COMPI | LIANCE | |
| We certify that the statement | ts made in the report are correct and this | Replacement | |
| conforms to the rules of the | ASME Code, Section XI. | (repair or replacement) | |
| Type Code Symbol Stamp | None | | |
| Certificate of Authorization | No None Ex | spiration Date N/A | |
| Signed Kroulf Own | Program Engineering Dater or Owner's Designee, Title | ate March 19, | 2007 |
| | | | (|
| | CERTIFICATE OF INSERV | /ICE INSPECTION | |
| I, the undersigned, holding a the State or Province of | | d employed by HSB CT | |
| | | ispected the components described in $\partial \mathcal{I}$, and sta | this Owner's Report that to the best of |
| my knowledge and belief, th | e Owner has performed examinations and tanents of the ASME Code, Section XI. | | |
| examinations and corrective | ither the Inspector nor his employer makes a measures described in this Owner's Report. personal injury or property damage or a loss | Furthermore, neither the Inspector r | or his employer shall be |
| J3L- | Commissions | 339ANI, 1496 IA ard, State, Province, and Endorsemer | |
| Inspector's Signatur | re National Bo | ard, State, Province, and Endorsemer | nts |
| Date 3-22 | , 2007 | • | |

9.

| 1. | . Owners <u>FPL Energy Duane Arnold LLC</u> Name | | | Date | 03/ | 14/2007 | | | | |
|---------------------------------|---|-------------------------|--|---------------------------------------|------------|--|----------------|--|--|--|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 ess | · · · · · · · · · · · · · · · · · · · | Sheet | 1 | of | 2 | | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | | | | · . | |
| | 3277 I | DAEC Road, Pal Addro | | | Renair | PWO 113569 | | No etc | : | |
| 4. | Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 | | | | | Repair Organization to P. O. No., Job No., etc. Type Code Symbol Stamp Authorization No. Expiration Date None None None | | | | |
| 5.6. | (a) Applic | able Construction of S | n Code ASME Section XI Utilized ants Repaired or Rep | Section III, N for Repairs o | F 19 7 | 74 Edition ents 2001-A03 | No Adder | nda N/A | Code Case. | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | | lentification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| HBB | -002-SS-300 | Bergen Paterson | Removed 2500-10- 865 Installed DA-395 | N/A | | N/A | Unknown | Replaced | No | |
| | | | | | | | | | | |
| 7. | Description | n of Work: | Replaced snubber | at location H | BB-002-SS- | 300 | | | : | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic | | Nominal Operat | ing Pressure | | |
| | | Other | Pressur | N/A | A ps | i Test Temp | N/A | °F | - - | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

Snubber 2500-10-865 was removed due to seal life expiration and replaced with rebuilt spare snubber DA-395.

| DA-395 was rebuilt on PWO 1137571 (no 3/13/2007. | load bearing parts were replaced). VT-3 (P07045) was performed on |
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| | |
| | |
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| | |
| | |
| | |
| CERTIFICATE OF C | COMPLIANCE |
| We certify that the statements made in the report are correct and | this Replacement |
| ł. | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| Trans Code Constant Champ | • |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None | Expiration Date N/A |
| Signed Scott Program Engineering Owner or Owner's Designee, Title | ng Date March 14th, 2007 |
| | |
| | |
| CERTIFICATE OF II | NSERVICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the Nati | ional Board of Boiler and Pressure Vessel Inspectors and |
| the State or Province of Iowa | and employed by HSB CT |
| of Hartford, Conn. | have inspected the components described in this Owner's Report |
| during the period 10-16-66 To | 3 - 33 - 07 , and state that to the best of |
| my knowledge and belief, the Owner has performed examinations | s and taken corrective measures described in this Owner's Report in |
| accordance with the requirements of the ASME Code, Section XI | |
| | makes any warranty, expressed or implied, concerning the Report. Furthermore, neither the Inspector nor his employer shall be or a loss of any kind arising from or connected with this inspection. |
| J3 Commissions | UB 12329ANI, 1496 IA |
| Inspector's Signature Nation | onal Board, State, Province, and Endorsements |
| | , |

9.

| 1. | Owners | FPL Energy I | Duane Arnold LLC | | Date | 03/ | /14/2007 | | |
|-----|--------------------------------|-------------------------|---|-----------------------|--------------|---------------|------------------|--|--|
| | | Name | • | | | | | | |
| | P.O. Box | 14000 Juno Beac | ch, FL 33408-0420 | | Sheet | 1 | of | 2 | |
| | | Addr | ess | | | | | | |
| 2. | Plant | Duane Arnold | Energy Center | | Unit | 1 | | | |
| | • | Name | • | | | | | , | |
| | 3277 | DAEC Road, Pa | lo IA 52324 | | | PWO 113376 | 69 | | |
| | | Addr | | | Repair (| | o P. O. No., Job | No., etc. | |
| 3. | Work Peri | formed by <u>FPL E</u> | nergy | | Type Co | ode Symbol St | amp Nor | 10 | |
| ٥. | WOLKICI | Name | mergy | | | zation No. | Nor | | |
| | 3277 DAEC Road, Palo, IA 52324 | | | Expiration | | Nor | | | |
| 4. | | ion of System: | | S-114 (Main : | | Line D Snub | | | |
| 5. | | cable Construction | | | | 9 Edition | 71 Adden | da N/A | Code Case. |
| | (b) Appli | cable Edition of | Section XI Utilized | I for Repairs of | or Replaceme | nts 2001-A03. | **** | | |
| | () 11 | | | • | • | | | | |
| 6 | Identificat | ion of Compone | nts Repaired or Rep | placed and Re | placement Co | omponents | | | |
| | Name of component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Id | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBD | -002-SS-114 | Bergen Paterson | Removed DA-78 Installed DA-107 | N/A | 1 | N/A | Unknown | Replaced | No |
| | | | | | | | | | |
| | | | , | | | | | | |
| | | | <u> </u> | <u> </u> | | | | | |
| | | | | | | | | | |
| 7. | Descriptio | n of Work: | Replaced snubber | at location E | BD-002-SS-1 | 14 | | | |
| 8. | Tests Cone | ducted: | Hydrostatic | | Pneumatic | 1 | Nominal Operat | ing Pressure | |
| | | Other | Pressur | reN/A | A psi | Test Temp | N/A | °F | |
| | | | | • | | | | | |
| | | | form of lists, sketch | | | | | | |
| | top of this fo | orm. | 0030) may be obtai | | • | | | | |

3

| 9. Remarks | Snubber DA-078 was removed due to seal life expiration and replaced with rebuilt spare snubber DA-107. DA- 107 was rebuilt on PWO 1136221 (no load bearing parts were replaced). VT-3 (P07014) was performed on |
|--------------------------|---|
| | <u>3/13/2007.</u> |
| | |
| pro- results in the con- | |
| | |
| | |
| | |
| | CERTIFICATE OF COMPLIANCE |
| We certify that th | he statements made in the report are correct and this Replacement |
| - | (repair or replacement) |
| conforms to the r | rules of the ASME Code, Section XI. |
| Type Code Symb | pol Stamp None |
| Certificate of Au | thorization No. None Expiration Date N/A |
| İ | 1 0 |
| Signed | Acoll Service Program Engineering Date March 14th, 2007 Owner or Owner's Designee, Title |
| | Owner or Owner's Designee, Title |
| | |
| | CEDITIES ATE OF INCEDIMOR INCRECTION |
| | CERTIFICATE OF INSERVICE INSPECTION |
| | d, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and |
| the State or Provi | ince of Iowa and employed by HSB CT Hartford, Conn. have inspected the components described in this Owner's Report |
| during the period | |
| my knowledge ar | nd belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in |
| accordance with | the requirements of the ASME Code, Section XI. |
| By signing this co | ertificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the |
| examinations and | d corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be |
| liable in any man | mer for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. |
| l si | Commissions NB 12329ANI, 1496 IA |
| Inspecto | Commissions NB 13399ANI, 1496 IA National Board, State, Province, and Endorsements |
| Date 3 | -) 3, , 2007 |
| | |

| 1. | Owners | FPL Energy I | Quane Arnold LLC | | Date | 03 | /14/2007 | · · · · · · · · · · · · · · · · · · · | |
|------------------------------------|---|--------------------------|-----------------------------------|-----------------------|--|--------------|--------------|--|--|
| , | P.O. Box 1 | 14000 Juno Beac Addre | h, FL 33408-0420 | | Śheet | 1 | of | 2 | • · · |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | <u> </u> | |
| | 3277 1 | DAEC Road, Pal Addro | | | Renair (| PWO 11337 | | h No etc | |
| 3. 4. | Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 | | | | Repair Organization to P. O. No., Job No., etc. Type Code Symbol Stamp Authorization No. Expiration Date Steam Symply Line C Symbols | | | one one | |
| 5. | (a) Applic | eable Construction | | 331.7 | 19 6 | 9 Edition | 71 Add | lenda N/A | Code Case. |
| 6. | Identificat | ion of Componer | nts Repaired or Rep | placed and Re | eplacement Co | mponents | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ide | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBD- | -002-SS-113 | Bergen Paterson | Removed DA-79 Installed DA-104 | N/A | N | J/A | Unknown | Replaced | No |
| | | | | | | | | | |
| | | | | | | | | | |
| 7. | Description | n of Work: | Replaced snubber | at location E | BD-002-SS-1 | 13 | | | |
| 8. | Tests Conc | ducted: | Hydrostatic | | Pneumatic | | Nominal Oper | ating Pressure | |
| | | Other | Pressur | reN/ | A psi | Test Tem | p <u>N/A</u> | ° F | · - |
| in ite | | gh 6 on this repor | orm of lists, sketch | | | | | | |

| | expiration and replaced with rebuilt spare snubber DA-104. DA- earing parts were replaced). VT-3 (P07013) was performed on |
|---|---|
| | |
| CERTIFICATE OF CO | OMPLIANCE |
| We certify that the statements made in the report are correct and thi | |
| Comments the miles of the ACME Code Contion VI | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None | |
| Signed Seo Fresh, Program Engineering Owner or Owner's Designee, Title | Date March 14th, 2007 |
| | |
| CERTIFICATE OF INS | SERVICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the Natior the State or Province of Iowa | and employed by HSB CT |
| of Hartford, Conn. ha | ave inspected the components described in this Owner's Report |
| my knowledge and belief, the Owner has performed examinations a accordance with the requirements of the ASME Code, Section XI. | , and state that to the best of and taken corrective measures described in this Owner's Report in |
| By signing this certificate neither the Inspector nor his employer material examinations and corrective measures described in this Owner's Reliable in any manner for any personal injury or property damage or | eport. Furthermore, neither the Inspector nor his employer shall be |
| Commissions NB | 5 12329ANI, 1496 IA |
| Inspector's Signature Commissions National | al Board, State, Province, and Endorsements |
| Date 3-33 , 2007 | · |

| 1. | . Owners FPL Energy Duane Arnold LLC Name | | | Date | 03 | /19/2007 | | | |
|---------------------------------|---|--------------------------|---|-----------------------|---|------------------------------|------------------------|--|--|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | - | · |
| | 3277 | DAEC Road, Pal Addre | | | Repair (| PWO 11356 Organization to | 92 o P. O. No., Job | No., etc. | |
| 3.4. | Name 3277 DAEC Road, Palo, IA 52324 Identification of System: GLE-008-SS-239 (RHR | | | | Type Code Symbol Stamp Authorization No. Expiration Date R Loop B Drywell Spray Supply Line Snubber) | | | | |
| 5.6. | (b) Applic | cable Edition of | on Code ANSI E Section XI Utilized onts Repaired or Rep | for Repairs | or-Replaceme | | | nda N/A | Code Case. |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| GLE | -008-SS-239 | Bergen Paterson | Removed DA-200 Installed DA-049 | N/A | 1 | V/A | Unknown | Replaced | No |
| | | | | | | | | | |
| 7. | Descriptio | n of Work: | Replaced snubber | at location G | | 39 | | | |
| 8. | Tests Cond | ducted: Other | Hydrostatic Pressur | re <u>N/</u> | Pneumatic A psi | | Nominal Operat | ing Pressure | |
| in it | tems 1 throughtop of this fo | gh 6 on this repor | form of lists, sketch t is included on eac 2030) may be obtai | ch sheet, and | (3) each shee | t is numbered | and the number | of sheets is rec | orded at |

3

| 9. Remarks: | Snubber DA-200 |) was removed due | to seal life expir | ation and replace | ed with rebuilt spare | e snubber DA-049. DA- |
|--|-------------------------------------|--------------------------------|--------------------|----------------------------|-----------------------|---|
| | 049 was rebuilt of performed on 2/1 | | and R&R activities | es documented o | n NIS-2 20-06-13. | VT-3 (P07046) was |
| | performed on Z/1 | 12/2007. | | | | |
| , | | *** **** **** | ÷ | | | |
| | | | | | | |
| | | CERTIFICA? | TE OF COMPLI | IANCE | | |
| *** | | | | | | |
| We certify that the | statements made in | the report are corr | rect and this | Replacement (repair or rep | | |
| conforms to the rule | es of the ASME Co | ode, Section XI. | | (repair or rep | iacement) | |
| Type Code Symbol | | None | | | | , |
| Certificate of Author | orization No. | None | Exp | oiration Date | N/A | |
| Signed Se | Owner or Own | Program Enter's Designee, Titl | ngineering Dat | e March 19th | | 2007 |
| | | | | | | (|
| | | CERTIFICAT | TE OF INSERVI | ICE INSPECTI | ON | |
| I, the undersigned, l the State or Provinc | | nmission issued by Iowa | and | l employed by | HSB CT | <u> </u> |
| of | Hartford, Co | | | | | this Owner's Report |
| during the period my knowledge and accordance with the | belief, the Owner h | | minations and tak | cen corrective me | asures described in | te that to the best of this Owner's Report in |
| | orrective measures | described in this C | Owner's Report. | Furthermore, nei | ther the Inspector n | oncerning the or his employer shall be ed with this inspection. |
| 31 | - | Commissions | NB 123 | BAGANI, | 1496 IA | |
| Inspector's | Signature | | National Boar | rd, State, Provinc | e, and Endorsemen | its |
| Date | 2 | _ ,2007 | | | | |

| 1. | Owners | FPL Energy I | Duane Arnold LLC | · . | Date | 03/ | 14/2007 | | |
|------------------------------------|---|-------------------------|------------------------------------|---------------------------------------|----------------|--|----------------------|--|--|
| | P.O. Box | | h, FL 33408-0420 | <u></u> | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | · · · · · · · · · · · · · · · · · · · | Unit | 1 | | · | |
| | 3277 | DAEC Road, Pal Addre | | | Repair O | PWO 113376 Organization to | 69 P. O. No., Job | No., etc. | |
| 3. 4. | Name 3277 DAEC Road, Palo, IA 52324 Identification of System: EBD-006-SS-151 (Main St | | | | | de Symbol Station No. on Date Line Snubber | No No | ne | |
| 5. | (a) Applic | cable Construction | | 331.7 | 19 69 | 9 Edition | 71 Adde | nda N/A | Code Case. |
| 6. | Identificat | ion of Componer | nts Repaired or Re | placed and Re | placement Co | mponents | | | |
| ~~ (| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ide | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBI | D-006-SS-151 | Bergen Paterson | Removed DA-031 Installed DA-354 | N/A | N | I/A | Unknown | Replaced | No |
| | | | | | | | | | |
| | | | | | , | | | | |
| | | · | | | | | | | |
| 7. | Descriptio | n of Work: | Replaced snubber | at location E | BD-006-SS-1 | 51 | | | |
| 8. | Tests Cond | | Hydrostatic | | Pneumatic | | Nominal Opera | - | |
| in i | | gh 6 on this repor | Pressu Form of lists, sketch | nes, or drawin | gs may be use | | 1) size is 81/2 i | | |
| шС | | | 0030) may be obtai | ined from the | Order Dept., A | ASME, 345 E. | . 47th St., New | York, NY 1001 | 7. |

| 9. | Remarks: | | | | | | oare snubber DA-354. DA- 01. VT-3 (P07015) was |
|----------|---------------------------------|------------------|--|-----------------------|---------------------|-----------------------------|--|
| | | performed o | | and Rec activiti | es documented (| MI 1415-2 20-07-0 | 11. V 1-3 (10/013) Was |
| | | | | | | | |
| | | | age of the second secon | 100mm of 3 43 mm = 10 | | | Congression of the Southern State of the Southern St |
| | | | | ÷ | | | |
| | | | | | | | |
| | | | | • | • | · | |
| | | | | | | | |
| | | | CERTIFICAT | TE OF COMPL | IANCE | | |
| Wec | ertify that the | statements may | le in the report are cor | rect and this | Replacement | | |
| **** | citily that the | statements mad | ie in the report are con | .cct and tills | (repair or rep | | |
| confo | orms to the rule | es of the ASM | E Code, Section XI. | | ` 1 | , | |
| | 01011 | | | | | | |
| Туре | Code Symbol | Stamp _ | None | | | | · · · · · · · · · · · · · · · · · · · |
| Certi | ficate of Author | orization No. | None | Exr | oiration Date | N/A | |
| Signe | ed | Owner or | Owner's Designee, Tit | ngineering Dat le | e March 14th | 1, | 2007 |
| | | | | | | | (|
| | | | CERTIFICAT | TE OF INSERV | ICE INSPECTI | ON | |
| | undersigned, tate or Provinc | | commission issued by Iowa | | | l Pressure Vessel HSB CT | Inspectors and |
| of _ | | Hartford | l, Conn. | have ins | pected the comp | | in this Owner's Report |
| | g the period | | 7-06 To | | 3-23-07 | | state that to the best of |
| | | | | | en corrective me | asures described | l in this Owner's Report in |
| accoi | rdance with the | e requirements | of the ASME Code, Se | ection XI. | | | |
| By si | gning this cert | tificate neither | the Inspector nor his er | nployer makes ar | ny warranty, exp | ressed or implied | l, concerning the |
| exam | inations and c | orrective meas | ures described in this C | Owner's Report. | Furthermore, ne | ither the Inspecto | or nor his employer shall be |
| liable | e in any manne | r for any perso | nal injury or property of | damage or a loss | of any kind arisi | ng from or conne | ected with this inspection. |
| | 19 | | Commissions | NB | 123294017 | - 1406. | In |
| | Inspector's | s Signature | Commissions | National Boa | rd, State, Province | ce, and Endorsen | nents |
| . | • | | 2027 | | • | | |
| Date | <u> </u> | 23 | , 2007 | | · | | |

| 1. | Owners | FPL Energy I | Duane Arnold LLC | · · · · · · · · · · · · · · · · · · · | Date | 03/1 | 9/2007 | | |
|--|--------------------------|---|---|---------------------------------------|--|--------------------------------|----------------|--|--|
| | P.O. Box 1 | 4000 Juno Beac Addro | h, FL 33408-0420 ess | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | | |
| ٠ | 3277 I | DAEC Road, Pal Addre | | | | VO 1135695 nization to I | P. O. No., Job | No., etc. | |
| 3. 4. 5. | 3277 DAE Identificati | ormed by <u>FPL E</u> Name C Road, Palo, IA ion of System: cable Construction | A 52324 HLE-011-S | S-306 (RHR Le Section III, NF | Type Code S Authorizatio Expiration E COOP A Torus Spire 19 74 | on No. Date ray Header ! | No No | ne ne | Code Case. |
| 6. | (b) Applic | cable Edition of | Section XI Utilized | for Repairs or | Replacements 2 | 2001 <u>-A03</u> | | | - |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identif | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HLE | -011-SS-306 | Bergen Paterson | Removed 2500-10- 863 Installed DA-352 | N/A | N/A | | Unknown | Replaced | No |
| | | | | | - | | | | ئ. |
| 7. | Description | n of Work: | Replaced snubber | at location HL | .E-011-SS-306 | | | | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic | No | ominal Opera | ting Pressure | · |
| | | | | | | | | | |
| ο. | resis Conc | iucieu. | riyurostatic | | rneumatic | No | ommai Opera | ing riessure | <u> </u> |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| FORM NIS-2 (Back) |
|-------------------|
|-------------------|

| 9. Remarks: | | | | | | spare snubber DA-352. during rebuild). This |
|-----------------------|--|---------------------|----------------------------|-------------------------|---------------------------|--|
| | snubber location is | | | | | during reduild). This |
| | shabber rocation is | s exempe from pre | <u>-301 VICC V 1-3 100</u> | <u>junements due to</u> | THIC SIZE. | |
| 4 m m | | ··· . | | | | |
| | | | | | | |
| | | | • | | | |
| | | | | | | |
| | | CERTIFICAT | E OF COMPLIA | ANCE | | |
| We certify that the s | tatements made in t | he report are corre | ect and this | Replacement | | |
| • | • | - | | (repair or replace | cement) | |
| conforms to the rule | s of the ASME Cod | e, Section XI. | | | | |
| Type Code Symbol | Stamp | None | | | | |
| | | | | _ | | |
| Certificate of Author | rization No. | None | Expir | ration Date | N/A | |
| Signed Age | Malanti | / Program En | gineering Date | March 19th. | | 2007 |
| Jeginou - John | Owner or Owne | r's Designee, Title | e e | 111111 011 1 2 11-1 | | 200, |
| | | | | | | |
| | | | | | | (|
| | | CERTIFICAT | E OF INSERVIO | F INSPECTIO | N | ! |
| | | CENTIFICATI | E OF HISEKAR | E HASI ECTIO | 14 | |
| I, the undersigned, h | | | | | | spectors and |
| the State or Province | | Iowa | and e | employed by | | this Owner's Report |
| of during the period | Hartford, Con | ın. To | nave inspe | ected the compon | and stat | te that to the best of |
| my knowledge and b | pelief, the Owner ha | s performed exam | inations and take | n corrective meas | sures described in | this Owner's Report in |
| accordance with the | | | | | | |
| Do atomina atominat | en e | | T | | 4 !1i-4 - | |
| By signing this certi | | | | | | oncerning the or his employer shall be |
| | | | | | | ed with this inspection. |
| 21 | | Commissions | | | | |
| Inspector's | | Jommissions | National Board | J. State. Province. | 1496 IA and Endorsemen | ts |
| • | · · | | Transfer Board | ,, 5,000, 110, 1100, | , una Emacroanian | |
| Date $3-3$ | 2 | , 2007 | | | | |

| 1. | Owners | FPL Energy D | Duane Arnold LLC | | Date | 03/ | 19/2007 | | |
|------------------------------------|-------------------|--|---|----------------------------------|--------------------------|---|----------------------|--|--|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | 1 | of | 2 | . . |
| 2. | Plant | Duane Arnold Name | | | Unit | 1 | | | |
| | 3277 I | DAEC Road, Pal Addre | | | Repair (| PWO 113569 Organization to | 94 P. O. No., Job | No., etc. | · |
| 3. 4. | 3277 DAE | ormed by <u>FPL E</u> Name C Road, Palo, IA Ton of System: | A 52324 | S-305 (RHR I | Authoriz Expirati | ode Symbol Station No. on Date Spray Header | Nor Nor | ne | |
| 5. | (a) Applic | able Construction of S | n Code ASME Section XI Utilized | Section III, N for Repairs of | F 19 7 or Replacement | 4 Edition nts 2001-A03 | No Adder | nda N/A | Code Case. |
| 6. | Name of Component | Name of Manufacturer | nts Repaired or Rep Manufacturer Serial No. | National Board No. | | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| HLE | E-011-SS-305 | Bergen Paterson | Removed DA-112 Installed DA-396 | N/A | <u> </u> | I/A | Unknown | Replaced | No . |
| | | | | | | | , | | |
| 7. | Description | n of Work: | Replaced snubber | at location H | LE-011-SS-3 | 05 | | | <u> </u> |
| 8. | Tests Cond | lucted: Other | Hydrostatic Pressur | re N/A | Pneumatic A psi | Test Temp | Nominal Operat | ing Pressure | |
| in i | | nental sheets in f | form of lists, sketch | nes, or drawing | gs may be use | ed, provided (1 |) size is 81/2 in | ı. x 11 in., (2) ir | |

Snubber DA-112 was removed due to seal life expiration and replaced with rebuilt spare snubber DA-396. DA-396 was rebuilt on PWO 1136219 with repair activities documented on NIS-2 20-07-03. This snubber location

| is exempt from pre-service VT-3 requirements due | to line size. |
|---|--|
| | |
| | |
| CERTIFICATE OF COMPL | JANCE |
| We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. | Replacement (repair or replacement) |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None Ex | piration Date N/A |
| Signed Australia Program Engineering Da Owner or Owner's Designee, Title | te March 19th, 2007 |
| CERTIFICATE OF INSERV | TICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Bothe State or Province of Iowa and | d employed by HSB CT |
| of Hartford, Conn. have in during the period $3 - 20 - 07$ To $3 - 20$ my knowledge and belief, the Owner has performed examinations and ta accordance with the requirements of the ASME Code, Section XI. | spected the components described in this Owner's Report and state that to the best of the corrective measures described in this Owner's Report in |
| By signing this certificate neither the Inspector nor his employer makes a examinations and corrective measures described in this Owner's Report. liable in any manner for any personal injury or property damage or a loss | Furthermore, neither the Inspector nor his employer shall be |
| JG Commissions NB 133 | 379ANT, 1496 TA ard, State, Province, and Endorsements |
| Inspector's Signature National Box | ard, State, Province, and Endorsements |
| Date | |

9.

| 1. | Owners | FPL Energy D Name | uane Arnold LLC | | Date | 05/ | /29/2007 | | |
|------------------------------------|-------------------------------|---|--|---|--|--------------------------|--------------------|--|--|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit | 1 | | | |
| | 3277 | DAEC Road, Pal Addre | | | | WO 11376 anization to | 50 P. O. No., J | ob No., etc. | |
| 3. 4. | 3277 DAE | formed by <u>FPL E</u> Name C Road, Palo, LA ion of System: | 52324 | on EBB005 Lir | Type Code Authorizati Expiration | on No. | | None None | |
| 5. | (a) Applic | cable Constructio | n Code ASME Section XI Utilized | P&V Draft I for Repairs o | 19 68 r Replacements | | 70 Add | denda N/A | Code Case. |
| 6. | Identificat Name of Component | Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | Other Identi | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | 3-0081 on 3005 Line | Flowserve | S/N BA652 | N/A | 12" Swing Che | eck Valve | 2007 | Replacement | Y |
| | | | | | | | | | |
| 7. | Descriptio | n of Work: | Installation of V2 | 3-0081 on EB | B005 Line | | | : | |
| 8. | Tests Cone | , | Hydrostatic | | Pneumatic | | • | rating Pressure | X |
| | | Other | Pressu | re1170 | 0 psi | Test Temp | 73 | ° F | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| FORM NIS-2 (Back) | FOR | M NIS: | -2 (Back |
|-------------------|-----|--------|----------|
|-------------------|-----|--------|----------|

Installed 12" check valve as part of the HPCI Keep Fill Modification. Final weld radiography was completed

| | and accepted (ref. Report # P07095). A preservice VT-3 B-5-H-10 after the spring can was unpinned. The VT-3 |
|---|---|
| | |
| | |
| | |
| CERTIFICATE OF COMPLI | ANCE |
| We certify that the statements made in the report are correct and this | Replacement |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No None Exp | ration Date N/A |
| Signed Program Engineering Date Owner or Owner's Designee, Title | May 29th, 2007 |
| Owner of Owner's Designee, Title | |
| | \ <u>`</u> |
| CERTIFICATE OF INSERVI | CE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Boa the State or Province of Iowa and | rd of Boiler and Pressure Vessel Inspectors and employed by HSB CT |
| of Hartford, Conn. have insp | ected the components described in this Owner's Report |
| my knowledge and belief, the Owner has performed examinations and take accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes an | y warranty, expressed or implied, concerning the |
| examinations and corrective measures described in this Owner's Report. F liable in any manner for any personal injury or property damage or a loss of | |
| Commissions NB 133 | 24ANI, 1496IA |
| | d, State, Province, and Endorsements |
| Date | · |

9.

| 1. | Owners | | Duane Arnold LLC | | Date | 03/ | 19/07 | | | |
|------|----------------|-------------------------------|--|-----------------------------|----------------------|------------------|---------|-------------|-----------------------------|-------------|
| | P.O. Box 1 | Name 4000 Juno Beac | h, FL 33408-0420 | | Sheet | 1 | C | of · | 2 | |
| | • | Addre | | | - | | | | | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | 1 | | | | |
| | 3277 I | Name DAEC Road, Pal | | | MWO 113 | 8199 | | | | |
| | | Addre | | | | ganization to | P. O. N | lo., Job No | o., etc. | |
| | | | | | | | | | | |
| 3. | Work Perfe | ormed by <u>FPL E</u> Name | nergy | | Type Code Authorizat | Symbol Sta | ımp | None None | | · · · |
| | 3277 DAE | Name C Road, Palo, IA | A 52324 | | Expiration | | | None | | |
| 4. | | on of System: | | Discharge Li | | | | 110110 | | |
| 5. | | able Constructio | | 31.7 Class 2 | 19 69 | Edition | 1971 | Addenda | N/A | Code Case |
| | (b) Applic | able Edition of S | Section XI Utilized | for Repairs of | or Replacements | 2001 <u>-A03</u> | | | | - |
| _ | 7.1 .·C .· | 60 | | .1 1 1 D . | 1 | , | | | | |
| 6. | Identificati | on of Componer | nts Repaired or Rep | naced and Re | placement Com | ponents | ļ | | | ASME Code |
| | Name of | Name of | Manufacturer | N. 7 . 4 . 1 . 1 . 1 | | | Year | Built | Repaired, | Stamped |
| C | omponent | Manufacturer | Serial No. | National Board No. | Other Ident | iiication | | | Replaced, or Replacement | (YES or NO) |
| EDD | | N/4 | 21/4 | 21/4 | N/A | | 77.1 | | | |
| EBB- | -5-SA-5 | N/A (site fabricated) | N/A | N/A | N/A | L | Unk | nown | Replaced (Removed) | No |
| | | | | | | | | | | |
| . == | | | | | | | | | | |
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| 1 | | | | | | | | · . | | |
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| | | | | | | | | | | |
| - | D :::::: | | D | | 3 5 GA 5 T | OD 1002 | | | | |
| 7. | Description | 1 of Work: | Removed seismic | restraint EBE | 3-5-8A-5 per EC | JP 1803. | • | | · | |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic | N | Iominal | Operating | Pressure | · |
| | • | Other | Pressur | e N/2 | A psi | Test Temp | | N/A | ° F | _ |
| 310- | a 1 | | 011 | | _ | | | 01/0: | | |
| | | | orm of lists, sketch t is included on eac | | | | | | | |
| | op of this for | | . 15 moradou on car | Diivvi, uilu | (5) out in shoot is | , mannooned t | 1110 | | 0110010 10 100 | oraca at |
| | | | 1030) may be obtain | ned from the | Order Dent AS | 245 È | 17th St | New Vo | -L NV 1001 | 7 |

| 9. Remarks: <u>Seismic restraint, EBB-5-SA-5, has been permaner</u> associated structural steel. Two integrally attached | utly removed per ECP 1803. Removal included removal of lugs to the HPCI line remain in place. |
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| e de la companya de l | A STATE OF THE STA |
| | |
| | |
| CERTIFICATE OF COMPL | JANCE |
| We certify that the statements made in the report are correct and this | Replacement (Removed) |
| and former to the males of the AGME Code Section VI | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None Ex | piration Date N/A |
| Signed Signed Program Engineering Da | te April 4th 2007 |
| Owner or Owner's Designee, Title | |
| | |
| | |
| CERTIFICATE OF INSERV | ICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Bo | |
| | d employed by HSB CT spected the components described in this Owner's Report |
| of Hartford, Conn. have in during the period $4.4-67$ To | , and state that to the best of |
| my knowledge and belief, the Owner has performed examinations and tal | ken corrective measures described in this Owner's Report in |
| accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes a | |
| examinations and corrective measures described in this Owner's Report. liable in any manner for any personal injury or property damage or a loss | |
| | |
| | 102001.07 - 1000 > - |
| Inspector's Signature Commissions National Box | 13339A~I, 1496 IA urd, State, Province, and Endorsements |
| Inspector's Signature Commissions National Box Date 4-4 2007 | 133)9A~I, 1496 FA ard, State, Province, and Endorsements |

| 1. Owners | FPL Energy D Name | Ouane Arnold LLC | | Date _ | 03/ | 18/2007 | · | |
|---------------------------------|--|--------------------------------------|-----------------------|--|-------------------------------|-------------------|--|--|
| P.O. Box | 14000 Juno Beac Addre | | | Sheet _ | 1 | of | 2 | <u>.</u> |
| 2. Plant | Duane Arnold Name | | | Unit _ | 1 | <u>.</u> | | |
| 3277 | DAEC Road, Pal Addre | | · | MWO 1137681 Repair Organization to P. O. No., Job No., etc. | | | | |
| _3277 DA | rformed by <u>FPL E</u> Name EC Road, Palo, IA ation of System: | x 52324 | (HPCI Pump | Type Code Symbol Stamp Authorization No. Expiration Date Discharge to FW Line Upstream of MO2312) | | | | |
| 5. (a) Appl (b) Appl | icable Constructio licable Edition of S ation of Componer | n Code ANSI I Section XI Utilized | 331.7 Class N | or Replacement | Edition s 2001 <u>-A03</u> | 1970 Adder | | Code Case. |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Iden | tification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBB-5-H-9 | Feralloy | Ht # 1612940 | N/A | ½" A36 | Plate | 2006 | Replacement | No |
| | Feralloy | Ht # 2418627 | N/A | 3/8" A36 | 5 Plate | 2004 | Replacement | No |
| | NUCOR | Ht # 2619078 | N/A | I-Beam W6 | x 15 A992 | 2006 | Replacement | No |
| | IPSCO | Ht # B61806 | N/A | A572 Gr.50 Pl | ate Steel, 1" | 2006 | Replacement | No |
| 7. Descripti | on of Work: | Modification of s | upport EBB-5 | -H-9 | | | | |
| 8. Tests Conducted: Hydrostatic | | | | Pneumatic | | Nominal Operat | ing Pressure | |
| | Other | Pressu | re N/A | A psi | Test Temp | N/A | °F | |
| NOTE: Supple | emental sheets in f | orm of lists sketal | hes or drawin | os may ha usad | provided (1 |) size is 81/2 ir | v 11. in (2) in | nformation |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| FORM | NIS-2 | (Bac | k) |
|-------------|-------|------|----|
|-------------|-------|------|----|

| 9. Remarks: Replaced U-bolt with bent plate. Added base plate and stiffeners to existing auxiliary steel. This support upgraded as part of a package to upgrade many supports on Feedwater and HPCI in order to resolve inconsistencies between the as-built and as-designed condition. Structural welds were successfully surface examined, and a successful VT-3 (P07074) was performed on EBB-5-H-9. | | | | | | - | | |
|---|---------------------|---|---------------------|---------------------------------|----------------|---------------|----------------|--------------|
| | | * * · · · · · · · · · · · · · · · · · · | | | • | | | |
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| | | | | • | | • | | |
| | | | | | | | · | |
| | | CERTIFICAT | E OF CO | MPLIANCE | | | | |
| We certify that the s | tatements made in | the report are corr | ect and this | Replace | ement | | | |
| | Cil. AGME O | 1 0 4 37 | * | (repair | or replaceme | ent) | | |
| conforms to the rule | s of the ASME Co | ode, Section XI. | | | | | | |
| Type Code Symbol | Stamp | None - | | | | | | |
| Certificate of Autho | rizationWo | None | ٠ | Expiration Da | te | N/A | | |
| Signed | mel Den | Program Er | | | rch 19 | | 2007 | ÷ |
| | | | | | | | | (|
| I, the undersigned, h | | • | | al Board of Boil | er and Pressi | | spectors and | |
| the State or Province of | e of Hartford, Co | lowa · | hay | and employed e inspected the | | | this Owner's | Report |
| during the period my knowledge and l accordance with the | oelief, the Owner h | To nas performed exan | 3-2 ninations ar | 2-07 | | , and sta | te that to the | best of |
| By signing this certi examinations and co- liable in any manner | rrective measures | described in this O | wner's Rep | ort. Furthermo | re, neither th | e Inspector n | or his emplo | yer shall be |
| 232 | | Commissions | NB | 10309ANI Board, State, P | 149 | 6 IA | | |
| Inspector's | Signature | | National | Board, State, P | Province, and | Endorsemen | nts | |
| Date3 a | 7 | , 2007 | | | | | | |

| 1. | Owners | FPL Energy D | Duane Arnold LLC | . | Date03/ | 19/2007 | | | |
|---|---|--------------------------|---|-----------------------|--|------------|--|--|--|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet 1 | of | 2 | · | |
| 2. | Plant | Duane Arnold Name | | ····· | Unit 1 | | | | |
| 3277 DAEC Road, Palo, IA 52324 Address | | | | | MWO 1138178 Repair Organization to P. O. No., Job No., etc. | | | | |
| 3.4.5. | Name Authorization No. None 3277 DAEC Road, Palo, IA 52324 Expiration Date None 4. Identification of System: EBB-5-SR-4 (HPCI Pump Discharge to FW Line Upstream of MO2312) | | | | | | | | |
| | Identificat Name of omponent | Name of Manufacturer | nts Repaired or Rep Manufacturer Serial No. | National Board No. | placement Components Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| EBB | -5-SR-4 | Lisega | 356959 | N/A | Weld on bracket | 2003 | Replacement | No | |
| | | Lisega | 396079 | N/A | Rigid Strut | 2003 | Replacement | No | |
| | | Gerdau Ameristeel | V6-3860 | N/A | 3X3X3/8" A-36 Angle Iron | 2006 | Replacement | No | |
| | | Feralloy | 1612940 | N/A | ½" A-36 Plate | 2006 | Replacement | No | |
| | | NUCOR | 2618984 | N/A | W5 X 19 A-992 I Beam | 2006 | Replacement | No | |
| | | | | | | | | | |
| 7. Description of Work: Modification of support EBB-5-SR-4 | | | | | | | | | |
| 8. Tests Conducted: Hydrostatic | | | Pneumatic N | Nominal Operat | ing Pressure | | | | |
| Other Pressure N/A psi Test Temp N/A ° F | | | | | | | | | |
| NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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 | | | | | | | | | |

| 9. | Remarks: | Replaced rod assembly with rigid strut assembly. Added stiffeners to in-place steel. Support was upgraded as |
|----|----------|---|
| | | part of a package to upgrade many supports on Feedwater and HPCI in order to resolve inconsistencies between |
| | | the as-built and as-designed condition. Structural welds were successfully surface examined, and a successful |
| | | VT-3 (P07081) was performed on EBB-5-SR-4. |
| | | |

| CERTIFICATE OF COMPLIANCE | | | | | | |
|---|---|--|--|--|--|--|
| We certify that the statements made in the report are correct and this | Replacement | | | | | |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) | | | | | |
| Type Code Symbol Stamp None | | | | | | |
| Certificate of Authorization No. None Expiration Date N/A | | | | | | |
| Certificate of Authorization No. None Expiration Date N/A Signed Program Engineering Date March 22, 2007 Owner or Owner's Designee, Title | | | | | | |
| | | | | | | |
| CERTIFICATE OF INSERVICE INSPECTION | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Boar the State or Province of Iowa and e | d of Boiler and Pressure Vessel Inspectors and employed by HSB CT | | | | | |
| | ected the components described in this Owner's Report | | | | | |
| during the period $\frac{\partial -3}{\partial t}$ To $\frac{3}{2}$ | , and state that to the best of | | | | | |
| my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. | | | | | | |
| Inspector's Signature Commissions NB 13 | 339ANT, 1496 TA , State, Province, and Endorsements | | | | | |
| Date | | | | | | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | Date04 | 1/04/2007 | | | | |
|------------------------------------|---|---|--------------------------------------|------------------------------|---|----------------------|--|--|--|
| · | P.O. Box 1 | | h, FL 33408-0420 | <u>.</u> | Sheet 1 | of | 2 | | |
| 2. | Plant | Duane Arnold Name | | | Unit 1 | | · . | | |
| | 3277 1 | DAEC Road, Pal Addre | | | MWO 1138177 Repair Organization to P. O. No., Job No., etc. | | | | |
| 3. 4. | 3277 DAE | ormed by <u>FPL E</u> Name C Road, Palo, IA ion of System: | A 52324 | 3 (HPCI Pum | Type Code Symbol S Authorization No. Expiration Date up Discharge to FW Line – | Expiration Date None | | | |
| 5.6. | (a) Applic | able Construction of S | n Code ANSI E Section XI Utilized | 331.7 Class 2 for Repairs | | 1970 Adder | nda N/A | Code Case. | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| EBB | -5-SR-3 | Roanoke | Ht # JE7267 | N/A | 2 1/2" 2 1/2"x3/8" Angle ASTM A36 | 2006 | Replacement | No | |
| | | Lisega | 395039-E315 | N/A | 12" Carbon Steel Rigid strut | 2003 | Replacement | No | |
| | | Lisega | 356959 | N/A | Weld-on Bracket, Carbon Steel | 2003 | Replacement | No | |
| | | Lisega | 363261 | N/A | 12" Clamp , Carbon Steel | 2003 | Replacement | No | |
| | | | | | | | | | |
| 7. | Description | n of Work: | Modification of su | upport EBB-5 | 5-SR-3 | | | | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic | Nominal Operat | ing Pressure | | |
| | | Other | Pressur | re N/ | A psi Test Tem | p <u>N/A</u> | ° F | | |
| | | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| | * | |
|----|----------|--|
| 9. | Remarks: | On support EBB-5-SR-3 replaced rod assembly with rigid strut assembly and replaced auxiliary steel, base plate and anchor bolts. Stiffeners were added to in-place steel. Support was upgraded as part of a package to upgrade |
| | | many supports on Feedwater and HPCI in order to resolve inconsistencies between the as-built and as-designed condition. Structural welds were successfully surface examined, and a successful VT-3 (P07073) was performed |
| | | on EBB-5-SR-3. |
| | | |

| | | | | | - | | | |
|---|------------------------------|-------------------------------------|--------|-----------------|---------------------|-----|------------------|-------|
| CERTIFICATE OF COMPLIANCE | | | | | | | | |
| We certify that the statem | his | Replacement (repair or replacement) | | | | | | |
| conforms to the rules of t | he ASME Code, Section | on XI. | | | | , | • | |
| Type Code Symbol Stam | p None | e | | | | | <u>`</u> : | |
| Certificate of Authorizati | on No. | None | Expi | ration Date | | N/A | | |
| Signed Juste | Pr wner or Owner's Design | ogram Engineerin gnee, Title | g Date | April | 444 | | _ 2007 | |
| | | | | | | | | |
| | CERT | TIFICATE OF IN | SERVI | CE INSPECT | ION | | | |
| I, the undersigned, holdin the State or Province of | • | ssued by the Natio | | d of Boiler and | d Pressure HSB C | | nspectors and | |
| of | Hartford, Conn. | | | | | | n this Owner's R | eport |

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Iowa and employed by HSB CT of Hartford, Conn. have inspected the components described in this Owner's Report during the period 2-2-07 To 4-4-07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. Commissions 13 29 4 7 196 28 National Board, State, Province, and Endorsements Date 4-4 , 2007

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | Date04/ | 04/2007 | | · | |
|--|---|--|----------------------------|---|--|-----------------|--|---------------------------|
| ······································ | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 | · | Sheet 1 | of | 2 | |
| 2. | Plant | | Energy Center | | Unit 1 | | | |
| | 3277 I | DAEC Road, Pa | lo. IA 52324 | | MWO 113817 | 79 | | |
| | | Addr | | 101111111111111111111111111111111111111 | Repair Organization to | - | No., etc. | |
| 3. | | ormed by <u>FPL E</u> Name C Road, Palo, L | , | | Type Code Symbol Sta Authorization No. Expiration Date | | | |
| 4. | Identificati | ion of System: | HPCI | | | . Nor | | |
| 5. | | able Construction | | 331.7 Class II | <u> </u> | 1970 Adder | nda N/A | Code Case. |
| | (b) Applic | cable Edition of | Section XI Utilized | for Repairs o | or Replacements 2001-A03 | | | |
| 6. | Identificati | ion of Componer | nts Repaired or Rep | placed and Re | placement Components | | T | ASME Code |
| | Name of component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | Stamped (YES or NO) |
| €BB | -7-SR-12 | Feralloy | Heat # 2418627 | N/A | Plate Steel, 3/8" A36 | 2004 | Replacement | No |
| , | | NUCOR | Heat # 6106099 | N/A | 3/4" A572 Gr. 50 Plate Steel | 2006 | Replacement | No |
| | · · · · · · · · · · · · · · · · · · · | Gerdau Ameristeel | Heat # V6-3860 | N/A | A-36 Angle Iron 3"x3"x3/8" | 2006 | Replacement | No |
| | | Tubular Steel | Heat # S60351 | N/A | Pipe, 8" Sch. 40, A106 Gr B | 2005 | Replacement | No |
| .: | | Lisega | 395109 | N/A | Adjustable Rigid Strut | 2004 | Replacement | No |
| | | Lisega | 695953 | N/A | Load Pin | 2004 | Replacement | No |
| | | Lisega | 355959 | N/A | Weld-On Bracket | 2004 | Replacement | No |
| 7. | Description | n of Work: | Modification of s | upport EBB-5 | -SR-12 | | | |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic N | Iominal Operati | ing Pressure | |
| | , | Other | Pressur | re <u>N/A</u> | A psi Test Temp | N/A | ° F | |
| | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Replaced rod assembly with rigid strut assembly. Replaced the base plates and welded four shear lugs on pipe |
|----|----------|---|
| | | above pipe clamp. This support was upgraded as part of a package to upgrade many supports on Feedwater and |
| | | HPCI in order to resolve inconsistencies between the as-built and as-designed condition. Structural welds and |
| | | attached piping welds were successfully surface examined, and a successful VT-3 (P07082, P07084, and |
| | | P07085) were performed on EBB-5-SR-12. |
| | | |

| CERTIFICATE OF COMPLIANCE | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|
| We certify that the statements made in the report are correct and this Replacement | | | | | | | | | |
| | (repair or replacement) | | | | | | | | |
| conforms to the rules of the ASME Code, Section XI. | | | | | | | | | |
| Type Code Symbol Stamp None | | | | | | | | | |
| Certificate of Authorization No. None Expir | ration Date N/A | | | | | | | | |
| Signed Runch Program Engineering Date April 4 2007 Owner or Owner's Designee, Title | | | | | | | | | |
| CERTIFICATE OF INSERVIO | CE INSPECTION | | | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Boar the State or Province of Iowa and 6 | d of Boiler and Pressure Vessel Inspectors and imployed by HSB CT | | | | | | | | |
| of Hartford, Conn. have insp | ected the components described in this Owner's Report | | | | | | | | |
| | , and state that to the best of | | | | | | | | |
| my knowledge and belief, the Owner has performed examinations and take accordance with the requirements of the ASME Code, Section XI. | n corrective measures described in this Owner's Report in | | | | | | | | |

| 1. Owners | Owners FPL Energy Duane Arnold LLC Name | | Date _ | 03/ | /12/2007 | · · · · · · | | | |
|--|--|---|---|---|--|--|---|--|--|
| P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet _ | 1 | of | 2 | | |
| 2. Plant | Duane Arnold Name | | | Unit _ | 1 | <u> </u> | | · | |
| 3277 | DAEC Road, Pal Addre | | | | MWO 1137682 Repair Organization to P. O. No., Job No., etc. | | | | |
| 3. Work Performed by FPL Energy Name Name Authorization No. Identification of System: 4. Identification Code ASME B31.7 Class 2 Authorization Date None Expiration Date None Addenda N/A Co | | | | | | | | | |
| | | Section XI Utilized hts Repaired or Re | • | • | | | | | |
| U. Identificat | ton of componer | its repaired of rec | T T T T T T T T T T T T T T T T T T T | piacement con | iponents | | , | T | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Iden | tification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| Component EBB-5-SG-1 | | | | Other Iden | | Year Built | Replaced, or | Stamped (YES or | |
| Component EBB-5-SG-1 (H-8) EBB-5-SG-1 | Manufacturer | Serial No. | Board No. | | 72 Gr. 50 | | Replaced, or Replacement | Stamped (YES or NO) | |
| Component EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 | Manufacturer Ipsco | Serial No. Ht# B61806 | Board No. | 1" Plate A5 | 72 Gr. 50 eam A992 | 2006 | Replaced, or Replacement | Stamped (YES or NO) | |
| Component EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 | Manufacturer Ipsco Nucor | Serial No. Ht# B6l806 Ht# 2619078 | Board No. N/A N/A | 1" Plate A5" | 72 Gr. 50 eam A992 e A36 | 2006 | Replaced, or Replacement Replacement Replacement | Stamped (YES or NO) No | |
| Component EBB-5-SG-1 (H-8) | Manufacturer Ipsco Nucor Nucor | Serial No. Ht# B6l806 Ht# 2619078 Ht # 2418627 | Board No. N/A N/A N/A | 1" Plate A5" W6 X 15 I B6 3/8" Plate | 72 Gr. 50 eam A992 e A36 572 Gr. 50 | 2006 2006 2004 | Replaced, or Replacement Replacement Replacement Replacement | Stamped (YES or NO) No | |
| Component EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) | Manufacturer Ipsco Nucor Ipsco | Serial No. Ht# B61806 Ht# 2619078 Ht # 2418627 Ht# A6J840 | N/A N/A N/A N/A N/A | 1" Plate A5" W6 X 15 I B6 3/8" Plate 1 ½" Plate, A | 72 Gr. 50 eam A992 e A36 572 Gr. 50 72 Gr. 50 | 2006 2006 2004 2006 | Replaced, or Replacement Replacement Replacement Replacement Replacement | Stamped (YES or NO) No No | |
| EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) CBB-5-SG-1 (H-8) CBB-5-SG-1 | Manufacturer Ipsco Nucor Ipsco Ipsco Ipsco on of Work: | Serial No. Ht# B6l806 Ht# 2619078 Ht # 2418627 Ht# A6J840 Ht# B6K615 | N/A N/A N/A N/A N/A | 1" Plate A5" W6 X 15 I B6 3/8" Plate 1 ½" Plate, A | 72 Gr. 50 eam A992 e A36 572 Gr. 50 72 Gr. 50 | 2006 2006 2004 2006 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement | Stamped (YES or NO) No No | |
| EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) EBB-5-SG-1 (H-8) CBB-5-SG-1 (H-8) CBB-5-SG-1 | Manufacturer Ipsco Nucor Ipsco Ipsco Ipsco on of Work: | Serial No. Ht# B6l806 Ht# 2619078 Ht # 2418627 Ht# A6J840 Ht# B6K615 Modification of s Hydrostatic | Board No. N/A N/A N/A N/A N/A Support on EB | 1" Plate A5" W6 X 15 I B 3/8" Plat 1 ½" Plate, A 2" Plate, A5 B-5-SG-1 (H-8) | 72 Gr. 50 eam A992 e A36 572 Gr. 50 72 Gr. 50 | 2006 2004 2006 2006 2006 Nominal Operat | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement | Stamped (YES or NO) No No | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9. Remarks:

Replace U-bolt with "box" framing. Add base plates and anchor bolts. Add stiffeners to existing auxiliary steel. This support was upgraded as part of a package to upgrade many supports on Feedwater and HPCI in order to resolve inconsistencies between the as-built and as-designed condition. NOTE: Support mark number was changed from EBB-5-H-8 to EBB-5-SG-1. Structural welds and attached piping welds were successfully surface examined, and a successful VT-3 (P07079) was performed on EBB-5-SG-1.

| CERTIFICATE OF CO | MPLIANCE |
|--|---|
| We certify that the statements made in the report are correct and this | Replacement |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) |
| comornis to the fates of the ASMIL code, section AI. | |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None | Expiration Date N/A |
| Signed Program Engineering Owner or Owner's Designee, Title | Date March 13, 2007 |
| Owner or Owner's Designee, Title | · (|
| | |
| CERTIFICATE OF INS | ERVICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National | |
| the State or Province of Iowa | and employed by HSB CT |
| of Hartford, Conn. have during the period $\partial \cdot 3 - 0.7$ To | we inspected the components described in this Owner's Report 3.3.3.5.7, and state that to the best of |
| my knowledge and belief, the Owner has performed examinations ar accordance with the requirements of the ASME Code, Section XI. | |
| By signing this certificate neither the Inspector nor his employer malexaminations and corrective measures described in this Owner's Repliable in any manner for any personal injury or property damage or a | ort. Furthermore, neither the Inspector nor his employer shall be |
| Commissions NB | 12379ANI, 1496 IA |
| Inspector's Signature National | Board, State, Province, and Endorsements |
| Date | |

| | 1 .4 .5 . | 4000 Juno Beac | | | | | | • | | |
|-------------|--|---------------------------------------|--|--|---------------|--|----------------------|--|--|--|
| 2. P | | Addre | | , , sie s auto | Sheet | 1 | of | 2 | | |
| | lant | Duane Arnold Name | | | Unit | 1 | | | | |
| | 3277 I | DAEC Road, Pal Addre | | | Repair (| MWO 113768 Organization to | 30 P. O. No., Job | No., etc. | | |
| _3 | Work Performed by FPL Energy Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Modification of Support on | | | | | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | | |
| 5. (| a) Applic | able Constructio | | B31.7 Class 2 | 2 19 6 | 9 Edition | 1970 Adder | nda N/A | Code Case. | |
| Nai | dentificati me of ponent | on of Componer Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Re National Board No. | | omponents entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| EBB-5 | -SR-11 | Ipsco | Ht # B61806 | N/A | 1" Pla | 1" Plate A572 | | Replacement | No | |
| | | Ipsco | Ht # A6J840 | N/A | 1 ½" P | ate A572 | 2006 | Replacement | No | |
| | | Lisega | Pt # 356959 | N/A | Bracke | t SA 675 | 2004 | Replacement | No | |
| | | Lisega Lisega | 2-453271S 396259 | N/A N/A | Adjustable Ri | Clamp A387 gid Strut 82.5 x , SA 53S | 2004 2006 | Replacement Replacement | No No | |
| 7. D | Description | n of Work: | Modification of s | upport on EB | B-5-SR-11 | | | | | |
| 8. T | ests Cond | lucted: | Hydrostatic | | Pneumatic | N | Iominal Operat | ing Pressure | | |
| | | Other | Pressu | re <u>N/</u> | A psi | Test Temp | N/A | ° F | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Replaced rod assembly with rigid strut assembly. Replaced base plates and anchor bolts. Weld four shear lugs |
|----|----------------|--|
| | | on pipe above pipe clamp. Support mark number was changed from EBB-5-H-11 to EBB-5- |
| | • • | SR-11. This support was upgraded as part of a package to upgrade many supports on Feedwater and HPCI in |
| | | order to resolve inconsistencies between the as-built and as-designed condition. Structural welds were |
| | | successfully surface examined, and a successful VT-3 (VT-07-084) was performed on EBB-5-SR-11. |
| | -er contract T | |

| CERTIFICATE OF COMPLI | ANCE |
|--|---|
| We certify that the statements made in the report are correct and this | Replacement |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) |
| Type Code Symbol Stamp None | |
| | iration Date N/A |
| Signed Program Engineering Date Owner or Owner's Designee, Title | April 414 2007 |
| | |
| | |
| CERTIFICATE OF INSERVI | CE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Boathe State or Province of Iowa and | ord of Boiler and Pressure Vessel Inspectors and employed by HSB CT |
| | pected the components described in this Owner's Report |
| during the period <u>3-7-67</u> To <u>Y-my knowledge and belief, the Owner has performed examinations and take</u> | , and state that to the best of |
| accordance with the requirements of the ASME Code, Section XI. | on corrective incasures described in this Owner's Report in |
| | |
| By signing this certificate neither the Inspector nor his employer makes an examinations and corrective measures described in this Owner's Report. I | |
| liable in any manner for any personal injury or property damage or a loss of | |
| 81 - 0.000 | 10.4 |
| Inspector's Signature Commissions National Boar | 9ANE 1496 FA d, State, Province, and Endorsements |
| | .,,, with 21120100110110 |
| Date | |

| 1. | Owners | FPL Energy I | Duane Arnold LLC | | Date _ | 03/ | 13/2007 | | |
|---------------------------------|--|-------------------------|----------------------------|-----------------------|--------------------------------|--|----------------------|--|--|
| - | P.O. Box 1 | 4000 Juno Beac Addre | ch, FL 33408-0420 ess | | Sheet | . 1 | of | 2 | - |
| 2. | Plant | Duane Arnold Name | Energy Center | <u> </u> | Unit _ | 1 | | | |
| - | 327 <u>7 I</u> | DAEC Road, Pal Addre | | | | IWO 113767 ganization to | 75 P. O. No., Job | No., etc. | |
| 4. | Name 3277 DAEC Road, Palo, IA 52324 | | | | | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | Code Case. |
| 5.6. | (b) Applic | | Section XI Utilized | | or Replacements | • | 1970 Adder | nda <u>N/A</u> | Code Case. |
| 1 | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ident | • | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| DLA | -1-SS-10 | Lisega | S/N 04616493-7- 00000 | N/A | Snubb Type 30 | | 2004 | Replacement | NO |
| DLA | -1-SS-10 | Lisega | S/N 20625771 | N/A | Pipe Clamp Pa | /N 363263 | 2007 | Replacement | NO |
| DLA | -1-SS-10 | Lisega | P/N 356959 | N/A | Weld On E | Bracket | 2007 | Replacement | NO |
| DLA | -1-SS-10 | Nucor | HT # 283895 | N/A | W6 X 25 Long F | | 2006 | Replacement | NO |
| DLA | -1-SS-10 | Nucor | Ht # 1608636 | N/A | A993 W4 X 13 Long E A993 | Beam ASTM | 2006 | Replacement | NO |
| DLA | -1-SS-10 | Ipsco | Ht # B61806 | N/A | 1" Plate AST | | 2006 | Replacement | NO |
| DLA | -1-SS-10 | Lisega | S/N 20624036 | N/A | Snubber Ex Type 330 | | 2007 | Replacement | NO |
| DLA | -1-SS-10 | Ipsco | Ht # A6J840 | N/A | 1 1/2" Plate AS | STM A572 | 2006 | Replacement | NO |
| 7. | Description | - | Modification of s | upport on DL. | | | | | |
| 8. | Tests Cond | | Hydrostatic | | Pneumatic | | Iominal Operat | | |
| | | Other | Pressur | reN/2 | A psi | Test Temp | N/A | ° F | |
| | | | | | | : | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks: | number was chang | ged from DLA-1-SR-1 | | | e and anchor bolts. Note: succe VT-3 Examination was co | |
|-----------------------|-----------------------|---|------------------------|-------------------|---|-----------------|
| | accepted (ref. Repo | ort # P07077) | | | | |
| | | | | | | |
| | | CERTIFICATE O | F COMPLIA | ANCE | | |
| We certify that the | statements made in t | he report are correct ar | nd this | Replacement | | |
| | | - | | (repair or repla | acement) | |
| conforms to the rule | es of the ASME Code | e, Section XI. | | | | |
| Type Code Symbol | Stamp | None | | | | |
| Type code symbol | | | | | | |
| Certificate of Author | rization No. | None | Expir | ration Date | N/A | |
| Signed | Owner or Owner | Program Engine r's Designee, Title | | | | |
| | | | | | | |
| I, the undersigned, I | e of | Iowa | National Boar and e | d of Boiler and I | Pressure Vessel Inspectors and HSB CT | |
| of · | Hartford, Con | in. | have inspe | ected the compor | nents described in this Owne | er's Report |
| during the period | | То | 6-20 | 7 | , and state that to the | he best of |
| my knowledge and | peliet, the Owner nas | s performed examinati ASME Code, Section | ions and take | n corrective mea | sures described in this Owne | er's Report in |
| accordance with the | requirements of the | Abivil Code, beetion | Ai. | | | |
| examinations and co | orrective measures de | escribed in this Owner | r's Report. F | urthermore, neith | essed or implied, concerning her the Inspector nor his emp g from or connected with thi | oloyer shall be |
| BL | | Commissions N | 1B 1833 | 19.ANI, | 1446 Independents | |
| Inspector's | S Signature | N: | ational Board | , State, Province | e, and Endorsements | |
| Date (a.: | a | 2007 | | | | |

| 1. | Owners <u>FPL Energy Duane Arnold LLC</u> Name | | | | Date | 03/13/2007 | <u> </u> | | |
|-----|---|--------------------------------|----------------------------|-----------------------|---------------------|-----------------|------------|--|--|
| | P.O. Box | 14000 Juno Beac Addre | th, FL 33408-0420 ess | | Sheet | (| of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | · | |
| | 3277 | DAEC Road, Pal | | | | 137679 – EC | | | |
| | | Addre | ess | | Repair Organizat | tion to P. O. N | 10., JOD N | o., etc. | |
| 3. | Work Perf | Formed by <u>FPL E</u> Name | nergy | | Type Code Symb | • | None None | | |
| | 3277 DAE | EC Road, Palo, IA | A 52324 | | Expiration Date | | | | |
| 4. | | ion of System: | EBB-5-SR- | 9 | Dispiration Date | | | | |
| 5. | (a) Applic | cable Constructio | n Code ASME | B31.7 Class 2 | 19 69 Edi | tion 1970 | Addend | a N/A | Code Case. |
| | (b) Applic | cable Edition of S | Section XI Utilized | for Repairs o | r Replacements 2001 | -A03 | | . | • |
| 6. | Identificat | ion of Componer | nts Repaired or Rep | olaced and Rep | placement Componen | ts | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identificatio | | Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| EBB | -5-SR-9 | Lisega | 2-453271S1 | | 12" Pipe Clamp | 20 | 07 | Replacement | No |
| 7. | Description | n of Work: | Replacement of p | ipe clamp on I | EBB-5-SR-9 support. | | | | |
| 8. | Tests Cond | ducted: | Hydrostatic | | Pneumatic | Nominal | Operating | g Pressure | |
| | | Other | Pressur | e N/A | psi Test | Temp | N/A | °F | |
| | | | • | | • | • | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| | 1 |
|--|--|
| 9. Remarks: Replace existing 12" EBB-005-SR 9 pipe | e clamp with higher capacity clamp. This clamp was machined prior to |
| installation Preservice exam P07078 was | s completed after installation. Two welds were found missing on one |
| | s were completed from original construction. All welds were examined |
| with magnetic particle or liquid penetran | t exams and found acceptable. |
| A Company of the Comp | The second secon |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| CERTIFICATE OF | FCOMPLIANCE |
| | 1d' D. I. |
| We certify that the statements made in the report are correct an | |
| | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| | |
| Type Code Symbol Stamp None | |
| | 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| Certificate of Authorization No. None | Expiration Date N/A |
| S. I COM | |
| Signed Program Enginee | ering Date — 2007 |
| Owner or Owner's Designee, Title | |
| | · |
| | ĺ |
| | |
| CERTIFICATE OF | FINSERVICE INSPECTION |
| | |
| I, the undersigned, holding a valid commission issued by the N | |
| the State or Province of Iowa | and employed by HSB CT |
| of Hartford, Conn. | have inspected the components described in this Owner's Report |
| during the period $\partial - 5 - 07$ To | $6 \partial - 07$, and state that to the best of |
| | ons and taken corrective measures described in this Owner's Report in |
| accordance with the requirements of the ASME Code, Section | |
| , | |
| By signing this certificate neither the Inspector nor his employe | er makes any warranty, expressed or implied, concerning the |
| | 's Report. Furthermore, neither the Inspector nor his employer shall be |
| | e or a loss of any kind arising from or connected with this inspection. |
| and the many manner to any personal injury or property aming | |
| Commissions A | VB 12329ANI 1496 ID |
| Inspector's Signature Na | VB 13399Av エ, 1496 エタ tional Board, State, Province, and Endorsements |
| | |
| Date 6.2, ,2007 | |

| | ers <u>FPL Energy l</u> | Duane Arnold LLC | | Date | 03-13-07 | | | |
|---|---|---|--|---|---|---|--|---|
| | Nam | e | | | | | | |
| P.O. | Box 14000 Juno Bea | ch, FL 33408-0420 |) | Sheet | 1 | of | 2 | |
| ' ' | Addı | ess | | , | | | | |
| 2. Plant | Duane Arnold | l Energy Center | | Unit | 1 | | | |
| | Nam | | | | | | | <u> </u> |
| 3 | 277 DAEC Road, Pa | ilo, IA 52324 | | PWO 1135957, 11359 1135959 | 960, 1135964, 11 | 135965, 11 | 135963, 1135962, | 1138097, |
| | Addı | ess | | Repair Organizati | on to P. O. N | lo., Job l | No., etc. | |
| . Work | Performed by FPL I | ∃nergv | • | Type Code Symbo | ol Stamp | Non | e | 1-m B |
| | Name | | | Authorization No. | • | Non | | |
| 3277 | DAEC Road, Palo, I | A 52324 | | Expiration Date | • | Non | - | |
| | ification of System: | Control Ro | d Drive | • | | | | |
| | pplicable Construction | | /IE Sect. III | 19 68 Edit 74 | ion W68 W75 | Adden | da 1361-1 1361-2 | Code Case |
| | • • | | - | • | - | | | |
| S. Ident | fication of Compone | nts Repaired or Re | placed and Rep | lacement Component | s | · · | | ASME |
| Name of Compone | Name of | nts Repaired or Re Manufacturer Serial No. | National Board No. | lacement Component Other Identification | Year | Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or |
| Name of Compone | Name of | Manufacturer | National Board No. | | Year | Built | Replaced, or | Code Stamped |
| Name of Componer R215(18-03) R215(18-03) | Name of Manufacturer GE Nova | Manufacturer Serial No. S/N A4619 N/A | National | | Year 19 20 | 990 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes |
| Name of Compone R215(18-03) R215(18-03) R215(22-19) | Name of Manufacturer GE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 | National Board No. N/A | Other Identification 8 Bolts Ht# 8960755 | Year 19 20 | 990 904 972 | Replaced, or Replacement | Code Stamped (YES or NO) Yes No Yes |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(22-19) | Name of Manufacturer GE Nova GE Nova Nova | Manufacturer Serial No. S/N A4619 N/A S/N 3857 | National Board No. | Other Identification | Year 19 20 19 20 | 990 904 972 | Replaced, or Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(22-19) R215(30-35) | Name of Manufacturer GE Nova GE Nova GE OVER STATE OF THE STATE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 | National Board No. N/A N/A | Other Identification 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 | 990 904 972 904 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No Yes No |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(22-19) R215(30-35) R215(30-35) | Name of Manufacturer GE Nova GE Nova GE Nova GE Nova Nova | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A | National Board No. N/A | Other Identification 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 20 20 | 990 904 972 904 972 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No Yes No Yes No |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(22-19) R215(30-35) R215(30-35) R215(34-19) | Name of Manufacturer GE Nova GE Nova GE Nova GE Nova GE Nova GE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 | National Board No. N/A N/A | 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 | 990 904 972 904 972 904 972 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No Yes No Yes No Yes |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(22-19) R215(30-35) R215(30-35) R215(34-19) R215(34-19) | Name of Manufacturer GE Nova GE Nova GE Nova GE Nova GE Nova GE Nova | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A | National Board No. N/A N/A | Other Identification 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20 | 990 904 972 904 972 904 972 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No Yes No Yes No Yes No No Yos No |
| Name of | Name of Manufacturer GE Nova GE Nova GE Nova GE Nova GE Nova GE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 N/A | National Board No. N/A N/A | 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 20 19 19 20 19 | 990 904 972 904 972 904 972 | Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No Yes No Yes No Yes No Yes |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(30-35) R215(30-35) R215(34-19) R215(34-19) R215(26-43) R215(26-43) R215(26-43) | Name of Manufacturer GE Nova GE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 N/A S/N 4448 N/A S/N 4492 | National Board No. N/A N/A N/A N/A N/A N/A | 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 | 990 904 972 904 972 904 972 904 972 904 972 904 | Replaced, or Replacement | Code Stamped (YES or NO) Yes No Yes |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(30-35) R215(30-35) R215(34-19) R215(34-19) R215(26-43) R215(26-43) R215(26-47) R215(26-27) R215(26-27) | Name of Manufacturer GE Nova | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 N/A S/N 4448 N/A S/N 44292 N/A | National Board No. N/A N/A N/A | 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 | 990 904 972 904 972 904 972 904 972 904 972 904 | Replaced, or Replacement | Code Stamped (YES or NO) Yes No |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(30-35) R215(30-35) R215(34-19) R215(26-43) R215(26-43) R215(26-27) R215(26-27) R215(26-27) R215(18-15) | Name of Manufacturer GE Nova GE | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 N/A S/N 4448 N/A S/N 4292 N/A S/N 4393 | National Board No. N/A N/A N/A N/A N/A N/A N/A | 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 | 090 004 072 004 072 004 072 004 072 004 072 004 072 004 072 | Replaced, or Replacement | Code Stamped (YES or NO) Yes No Yes |
| Name of Componer R215(18-03) R215(18-03) R215(22-19) R215(30-35) R215(30-35) R215(34-19) R215(34-19) R215(26-43) R215(26-43) R215(26-47) R215(26-27) R215(26-27) | Name of Manufacturer GE Nova | Manufacturer Serial No. S/N A4619 N/A S/N 3857 N/A S/N 4451 N/A S/N 4516 N/A S/N 4448 N/A S/N 44292 N/A | National Board No. N/A N/A N/A N/A N/A N/A | 8 Bolts Ht# 8960755 | Year 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20 | 990 904 972 904 972 904 972 904 972 904 972 904 | Replaced, or Replacement | Code Stamped (YES or NO) Yes No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at top of this form.

9.

Remarks:

Replaced bolting and control rod drives at 18-03, 22-19, 30-35, 34-19, 26-43, 26-27, 18-15, 18-27 locations. Successfully performed VT-2 of replaced drives. A VT-1 was successfully completed at receiving inspection for

| | replacement bol | ung. | | | • | | |
|--|--|--|-----------------------------------|------------------------------|-------------------|---|--------------|
| | | | | | , | | |
| • | | | · | | | | |
| | | CERTIFICAT | E OF COMPLI | ANCE | | , , | |
| We certify that the conforms to the rule | • | the report are corrected the section XI. | ect and this | Replacement (repair or repl | acement) | | |
| Type Code Symbol | Stamp | None | | | · | | |
| Certificate of Author | orization No. | None | Exp | iration Date _ | N/A | | |
| Signed Signed | Owner or Own | pervisor, Materials/I ner's Designee, Title | nspection Date | · Manc | 614, | _ 2007 | . • |
| | | *= | | | | | |
| | | CERTIFICAT | E OF INSERVI | CE INSPECTION | ON . | | \ |
| I, the undersigned, the State or Province | | nmission issued by t Iowa | and | employed by | HSB CT | | |
| | belief, the Owner | onn. to has performed exam he ASME Code, Sec | 3 - 22 dinations and tak | ำ. | , and s | in this Owner's Restate that to the bes in this Owner's Re | t of |
| By signing this cert examinations and c | tificate neither the lorrective measures | Inspector nor his em described in this O injury or property de | ployer makes an wner's Report. | Furthermore, neit | her the Inspector | r nor his employer | |
| 78 | | Commissions | NB 123 | OGANT. d, State, Province | 1446 IA | | |
| Inspector's | s Signature | | National Boar | d, State, Provinc | e, and Endorsem | ents | |
| Date |) | , 2007 | | | | | |

| 1. Owr | ers <u>FPL Energy I</u> Name | Duane Arnold LLC | | Date _ | 03- | 13-07 | * | · |
|----------------------------|---|--|-----------------------|--|---|------------------|--|-----------------------------------|
| P.O. | Box 14000 Juno Beac Addr | | | Sheet | 1 | of | 2 | <u>.</u> |
| 2. Plan | t <u>Duane Arnold</u> | Energy Center | <u></u> | Unit | 1 | | | |
| | 3277 DAEC Road, Pa | | | | | | 1136703, 1135961, | 1136701 |
| | Addr | ess | | Repair Org | anization to | P. O. No., Jol | No., etc. | |
| | k Performed by <u>FPL E</u> Name DAEC Road, Palo, L | | | Type Code Authorizati Expiration | on No. | No | one one | |
| 4. Iden | tification of System: | Control Ro | d Drive | | | | | |
| , | Applicable Construction | Clas | | 19 68 74 | Edition | W68 Adde W75 | enda 1361-1 1361-2 | Code Case. |
| | Applicable Edition of tification of Compone | | | _ | | T | T : | ASME |
| Name of Compon | | Manufacturer Serial No. | National Board No. | Other Identi | fication | Year Built | Repaired, Replaced, or Replacement | Code Stamped (YES or NO) |
| 1R215(22-15 |) GE | S/N 4557 | | | • | 1972 | Replacement | Yes |
| 1R215(22-15 | | N/A_ | N/A | 8 Bolts Ht# 8 | 960755 | 2004 | Replacement | No |
| 1R215(18-07 | | S/N 3523 | | | | 1972 | Replacement | Yes |
| 1R215(18-07 | | N/A | N/A | 8 Bolts Ht# 8 | 960755 | 2004 | Replacement | No |
| 1R215(02-23 | | S/N A8360 | | | | 1987 | Replacement | Yes |
| 1R215(02-23 | | N/A S/N A3994 | N/A | 8 Bolts Ht# 8 | 960755 | 2004 1990 | Replacement Replacement | No Yes |
| 1R215(10-07 1R215(10-07 | | N/A | N/A | 8 Bolts Ht# 8 | 960755 | 2004 | Replacement | No |
| 1R215(06-11 | | S/N A8370 | 1 | | 300,100 | 1987 | Replacement | Yes |
| 1R215(06-11 | | N/A | N/A | 8 Bolts Ht# 8 | 960755 | 2004 | Replacement | No |
| 1R215(22-35 | | S/N:3996 | 37/4 | 0 D 4 IV# 0 | 0.0755 | 1972 | Replacement | Yes |
| 1R215(22-35 1R215(02-19 | | N/A S/N A6806 | N/A | 8 Bolts Ht# 8 | 960/33 | 2004 1987 | Replacement Replacement | No Yes |
| 1R215(02-19 | | N/A | N/A | 8 Bolts Ht#8 | 960755 | 2004 | Replacement | No |
| • | ription of Work: s Conducted: Other | Replaced bolting at Hydrostatic Pressu | | Pneumatic | | Nominal Opera | ting Pressure | X |
| in items 1 | other upplemental sheets in through 6 on this repo | form of lists, sketc | hes, or drawing | gs may be used, | provided (1 |) size is 81/2 i | n. x 11 in., (2) ir | |

| 9. | Remarks: | Replaced bolting and control rod drives at 22-15, 18-07, 02-23, 10-07, 06-11, 22-35, 02-19 locations. Successfully performed VT-2 of replaced drives. CRD Location 18-07 originally had 15-20 drops per minute (see CAP048269), but was successfully retested after stroking of the drive under A77141 and no leakage was documented. A VT-1 was successfully completed at receiving inspection for replacement bolting. |
|----|----------|--|
| | ÷ | |

| CERTIFICATE OF COMPLIA | ANCE |
|---|--|
| We certify that the statements made in the report are correct and this | Replacement |
| and former to the males of the ACME Code Code William VI | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None Expir | ration Date N/A N/A |
| Signed Supervisor, Materials/Inspection Date | March 15 2007 |
| Signed Supervisor, Materials/Inspection Date Owner or Owner's Designee, Title | The state of the s |
| | |
| | |
| CERTIFICATE OF INSERVIO | CE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Boar | d of Boiler and Pressure Vessel Inspectors and |
| | mployed by HSB CT |
| | ected the components described in this Owner's Report |
| during the period $7-25-06$ to $3-22-26$ my knowledge and belief, the Owner has performed examinations and take | , and state that to the best of |
| accordance with the requirements of the ASME Code, Section XI. | it corrective measures described in this Owner's Report in |
| | • |
| By signing this certificate neither the Inspector nor his employer makes any | |
| examinations and corrective measures described in this Owner's Report. For liable in any manner for any personal injury or property damage or a loss of | |
| | • |
| Commissions NB 123: | 99ANI, 1496 IA, State, Province, and Endorsements |
| Inspector's Signature National Board | , State, Province, and Endorsements |
| Date | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | | Date | · _ | 03- | -15-07 | | <u>.</u> |
|-------|---|-------------------------------|---|-----------------------|------------|--------------------|--------------|----------------|--|-----------------------------------|
| | P.O. Box | 4000 Juno Beac Addre | h, FL 33408-0420 ess | · | Shee | et | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit | : <u> </u> | 1 | | | |
| | 2277 I | DAEC Road, Pal | o IA 52324 | | | | | WO A73 | 715 | |
| | | Addre | | | Rep | air Orga | anization to | P. O. No., . | Job No., etc. | |
| 3. | Work Perf | ormed by <u>FPL E</u> Name | nergy | | | e Code | Symbol Sta | | None None | <u></u> |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | | iration l | | | None | |
| 4. | | ion of System: | | at Removal (| | | | | | |
| 5. | ` , | able Construction | | I B31.7 | 19 | 69 | Edition | 70 Ad | ldenda 1425 | Code Case. |
| , | | | Section XI Utilized | | | | | | | . : |
| 6. | Identificat | ion of Componer | nts Repaired or Rep | placed and Re | placemer | it Comp | onents | 1 . | | ASME |
| | Name of Component | Name of Manufacturer | Manufacturer Sérial No. | National Board No. | Oth | er Identi | fication | Year Buil | Repaired, Replaced, or Replacement | Code Stamped (YES or NO) |
| ILE | 013 Piping | Consolidated Power Supply | N/A | N/A | • | Ht# 262 | 06 | 2005 | Replacement | No |
| Sock | colet (¾"x12") | Consolidated Power Supply | N/A | N/A | Ht#8 | 995954 (1335AN | | 2005 | Replacement | No |
| | | | | | · · · · · | | | 1 | | |
| | | | | | | | | <u> </u> | | |
| | | | | | | | | | | |
| | | <u>-</u> | : | | | | | | | |
| | | | | | | | | | | |
| 7. | Description | n of Work: | Replaced a portion | of HLE013 pip | ing downs | tream of | f MO1934 d | ue to wall thi | nning. | |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneuma | tic | 1 | Nominal Ope | erating Pressure | X |
| | | Other | Pressur | re15: | 5 | psi | Test Temp | 6 | 9 ° F | _ |
| in it | ems 1 throug top of this fo | gh 6 on this repor | form of lists, sketch t is included on eac 0030) may be obtai | ch sheet, and | (3) each s | sheet is | numbered | and the num | ber of sheets is rec | corded at |

| FORM | NIS-2 | (Ba | ck) |
|-------------|-------|-----|-----|
|-------------|-------|-----|-----|

| 9. Remarks: | Hanger GLE-5- removed and for | H-23 was pinned during the pund acceptable. The welds with m was completed on EC0705 | ipe replacement. A Vere radiographed and | to localized thinning from cavitation erosy 7T-3 exam was performed after the pin was accepted after repairs were completed. A 7064) was completed on the welds under | as |
|------------------------------|----------------------------------|--|--|--|-----|
| | | | | | |
| We certify that the | statements made in | CERTIFICATE OF CO | | ıt . | |
| conforms to the rule | es of the ASME Co | | (repair or re | | |
| Certificate of Author Signed | orization No. | None Pervisor, Materials/Inspection ner's Designee, Title | Expiration Date Date | N/A 2007 | . (|
| | | ; | | | |

| | | | · | | · | | |
|---|---|--------------------------|---------|--------------------------|-------------------------------------|--------------|--|
| | ٠. | CERTIFICA | TE OF I | NSERVICE INSPECT | TION | | |
| I, the undersigned, holdin the State or Province of | g a valid comn | nission issued b Iowa | • | | d Pressure Vessel Inspectors HSB CT | and | |
| of | Hartford, Con | n. | | have inspected the comp | ponents described in this Ow | ner's Report | |
| during the period | 2-2-07 | to | | 4-3-07 | , and state that to | the best of | |
| my knowledge and belief, accordance with the requi | during the period 2-3-67 to 4-3-67, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. | | | | | | |
| examinations and correcti | 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 Owner's 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. | | | | | | |
| JBL | | Commissions | NB | 12329ANI, | 1496 IA | | |
| Inspector's Signa | ature | | Natio | nal Board, State, Provin | nce, and Endorsements | | |
| Date <u>4-3</u> | | , 2007 | | | · | | |

| 1. | Owners | | Quane Arnold LLC | | Date | 04/10/07 | | · · · · · · · · · · · · · · · · · · · |
|-------|-------------------------|------------------------------|----------------------------|------------------|---------------------------------------|---------------------------------------|----------------------------------|---------------------------------------|
| | P.O. Box 1 | Name 4000 Juno Beac | e h, FL 33408-0420 | | Sheet | l of | 2 | |
| | | Addre | ess | | | · · · · · · · · · · · · · · · · · · · | | |
| 2. | Plant | | Energy Center | | Unit | 1 | | · |
| | 2077 1 | Name | | | MWO 1127/04 9 / | OWO 477640 " : | | |
| | 32//1 | DAEC Road, Pal Addro | | | MWO 1137684 & O | | | |
| | | Addie | 233 | | Kepan Organization | 1 to F. O. No., 300 | No., etc. | |
| 3. | Work Perf | ormed by <u>FPL</u> E | nergy | | Type Code Symbol | Stamp Non | e | |
| | | Name | | | Authorization No. | Non | e | |
| | | C Road, Palo, IA | | | Expiration Date | Non | ie , | |
| 4. | | ion of System: | | Discharge Li | | 1071 A 11 | 1- NI/A | C-1-C |
| 5. | | able Construction | | 331.7 Class 2 | 19 69 Editio | | da N/A | Code Case. |
| | (b) Applic | cable Edition of | Section XI Utilized | I for Repairs of | r Replacements 2001-A | <u>03</u> | • | |
| 6. | Identificati | ion of Componer | nts Repaired or Re | olaced and Rei | olacement Components | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> | ASME Code |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National | Other Identification | Year Built | Repaired, Replaced, or | Stamped (YES or |
| | omponent | Managetare | Serial ivo | Board No. | Other Identification | | Replacement | NO) |
| | | | | İ | | . | , | |
| EBB | -5-Н-6 | Unknown (site fabricated) | N/A | N/A | N/A | Unknown | Replaced (Removed U- bolt) | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | <u> </u> |
| | | | <u> </u> | | | | | <u> </u> |
| | | · | | | | | | |
| | | | | | | | | |
| 7. | Description | n of Work: | Removed U-bolt | from pipe supp | oort EBB-5-H-6 per ECI | P 1803. | | |
| • | T. (A) | 1 , 1 | TT 1 4-4'- | | , | No minutes 100 mail | . | |
| 8. | Tests Conc | lucted: | Hydrostatic | | Pneumatic | Nominal Operati | ng Pressure | |
| | | Other | Pressur | re N/A | n psi Test Te | mp N/A | ۰F | |
| | | Cinci | 11033ui | 1077 | poi 100t 10 | | | • |
| NO | ΓE: Supplen | nental sheets in f | form of lists, sketch | nes, or drawing | gs may be used, provided | d(1) size is 81/2 in | . x 11 in., (2) ir | nformation |
| in it | ems 1 throug | gh 6 on this repor | | | 3) each sheet is numbered | | | |
| the t | top of this for (12/82) | | 0030) may be obtai | ned from the (| Order Dept., ASME, 345 | E. 47th St., New | York, NY 1001 | 7. ' |

3

| 9. Remarks: | | permanently removed per ECP 1803. Removal was limited |
|-----------------------|--|--|
| | <u>condition</u> . The pipe support is still carrying the | weight of the pipe. Performed VT-3 (VT-07-121) in as-left |
| | <u> </u> | |
| | and the second of the second o | · · · · · · · · · · · · · · · · · · · |
| | | |
| | | |
| | | |
| | | |
| | CERTIFICATE OF COMPLIA | ANCE |
| We certify that the s | statements made in the report are correct and this | Replaced (removed U-bolt) |
| C | COLLADOR OLL CONTACT VI | (repair or replacement) |
| conforms to the rule | es of the ASME Code, Section XI. | |
| Type Code Symbol | Stamp None | |
| Certificate of Author | orization No. None Expi | ration Date N/A |
| | y and the same of | |
| Signed | Owner or Owner's Designee, Title Owner or Owner's Designee, Title | April 10th 2007 |
| | Owlief of Owlief's Designee, Title | • |
| | | · |
| | CERTIFICATE OF INSERVI | CE INSPECTION |
| | CERTIFICATE OF INSERVI | CE INSPECTION |
| | nolding a valid commission issued by the National Boar | |
| the State or Province | | employed by HSB CT sected the components described in this Owner's Report |
| during the period | 3-22-07 To 4-16-0 | , and state that to the best of |
| my knowledge and b | belief, the Owner has performed examinations and take | en corrective measures described in this Owner's Report in |
| accordance with the | requirements of the ASME Code, Section XI. | |
| | ificate neither the Inspector nor his employer makes any | |
| | | Furthermore, neither the Inspector nor his employer shall be of any kind arising from or connected with this inspection. |
| Hable III any mainier | | |
| Inspector's | Commissions NB 12 | 339ANI, 1496 IX d, State, Province, and Endorsements |
| Inspector's | Signature National Board | d, State, Province, and Endorsements |
| Date <u>4-16-6</u> | ,2007 | |

| 1. | Owners | FPL Energy D Name | Ouane Arnold LLC | · · · · · · · · · · · · · · · · · · · | Date | 03/23/07 | | <u></u> | |
|------|-----------------------------|---|---|---|--|-------------------------------|------------------------------------|---|---------------------------------|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | · · · · · · · · · · · · · · · · · · · | Sheet | 1 of | f | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit | 1 | | <u> </u> | <u>``</u> |
| | 3277 DAE | CC Road, Palo, IA | | | D O | WO 1133664 | | | |
| | | Addre | ess | | Repair Organizat | ion to P. O. No | o., Job No., | etc. | |
| 3. | Work Perf | formed by FPL E | nergy | | Type Code Symb | - | None | | |
| | 2277 DAT | Name | 52224 | | Authorization No | • | None | | |
| 4. | | C Road, Palo, IA ion of System: | | quid Control | Expiration Date | | None | | |
| 5. | | able Construction | | Draft Class 2 | 19 68 Edit | ion | Addenda | N/A | Code Case. |
| | (b) Applic | cable Edition of S | Section XI Utilized | for Repairs or | Replacements 2001- | A03 | | : | |
| | * 1 | | | 1 | | | | • | |
| 6. | Identificat | ion of Componer | its Repaired or Re | placed and Rep | lacement Component | :s | | | ASME |
| | Name of | Name of | Manufacturer | 1 | | Year | Built R | | |
| | Component | Manufacturer | Serial No. | National Board No. | Other Identification | 1 | Re | lepaired, placed, or placement | Code Stamped (YES or |
| ₹S26 | Component 518A | Manufacturer IST Conax | Serial No. | 1 | Other Identification Explosive Valve Kit | | Re Re | placed, or | Stamped |
| XS26 | 618A | Manufacturer | | Board No. | | 200 | Re Re 06 Re | placed, or placement | Stamped (YES or NO) |
| | 618A | Manufacturer IST Conax Nuclear IST Conax | 1746 | Board No. | Explosive Valve Kit | 200 | Re Re 06 Re | placed, or placement placement | Stamped (YES or NO) No |
| | 618A 618B | Manufacturer IST Conax Nuclear IST Conax | 1746 1747 | Board No. N/A N/A | Explosive Valve Kit | 200 | Re Re 06 Re | placed, or placement placement | Stamped (YES or NO) No |
| XS26 | 618A 618B | Manufacturer IST Conax Nuclear IST Conax Nuclear | 1746 1747 | Board No. N/A N/A ve valves on fre | Explosive Valve Kit Explosive Valve Kit | 200 200 ST Program. | Re Re 06 Re | placed, or placement placement placement | Stamped (YES or NO) No |
| XS20 | 518A 518B Description | Manufacturer IST Conax Nuclear IST Conax Nuclear | 1746 1747 Replaced explosi Hydrostatic | Board No. N/A N/A ve valves on fre | Explosive Valve Kit Explosive Valve Kit quency required by I | 200 200 ST Program. Nominal 0 | Re Re Re Re Re Re Re | placed, or placement placement placement | Stamped (YES or NO) No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

Replaced Explosive valve Kits for XS2618A and XS2618B. Valve is threaded into place. Successfully

9.

| performed VT-2 of the valve after installation (P007026 and P07027). |
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| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement |
| (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. |
| Conforms to the fules of the Asial Code, Section Ai. |
| Type Code Symbol Stamp None |
| |
| Certificate of Authorization No. None Expiration Date N/A |
| |
| Signed War Supervisor, Materials/Inspection Date March 23 2007 |
| Owner or Owner's Designee, Title |
| |
| |
| |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT |
| of Hartford, Conn. have inspected the components described in this Owner's Report |
| during the period $\frac{\mathcal{E} - \mathcal{B} - \mathcal{O} - \mathcal{O}}{\mathcal{E} - \mathcal{B} - \mathcal{O} - \mathcal{O}}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in |
| my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. |
| made in any mainter for any personal injury of property damage of a loss of any kind at ising non-of-connected with this inspection. |
| Commissions ~ 3 $i \ni 3 \ni 9 \land N I$, $1496 I \land I \land I \land I \land I \land I \land I \land I \land I \land I $ |
| Inspector's Signature Commissions \[\sigma \frac{\sqrt{3394NI}}{\text{National Board, State, Province, and Endorsements}} \] |
| |
| Date |
| |
| |

| 1. | Owners | | uane Arnold LLC | | Date | 03/2 | 23/07 | · | · |
|-----|---------------------------------------|---|--|---------------------------------------|---|-----------------|----------------------|--|------------------------------------|
| | | Name | | | | | | | |
| | P.O. Box 1 | 14000 Juno Beach | h, FL 33408-0420 | | Sheet | 1 | of | . 2 | |
| | | Addre | ess | | | | | -, -, -, -, -, -, -, -, -, -, -, -, -, - | |
| 2. | Plant | Duane Arnold | Energy Center | | Unit | 1 | | | 4 |
| | | Name | | | | | | | |
| | 3277 DAE | C Road, Palo, IA | x 52324 | | | WO | A76710 | | : |
| | | Addre | | | Repair Organ | | | ob No., etc. | |
| 3. | Work Perf | ormed by FPL E | nergy | | Type Code S | ymbol Sta | amp N | None | |
| | | Name | | | Authorization | • | | None | |
| | 3277 DAE | C Road, Palo, IA | 52324 | | Expiration Da | ate | <u> </u> | Vone | |
| 4. | | ion of System: | Core Spray | | | | | | |
| 5. | (a) Applic | able Constructio | n Code ANS | I B31.7 | 19 69 | Edition | 70 Add | denda N/A | Code Case. |
| | (b) Applic | cable Edition of S | Section XI Utilized | d for Repairs o | r Replacements 20 | 001 <u>-A03</u> | | | |
| | | | | | | | | | |
| | | | | | · _ | | | | |
| 6. | Identificat | ion of Componer | its Repaired or Re | placed and Re | placement Compo | onents | | · · · · · · · · · · · · · · · · · · · | T ACREE |
| | Identification Name of Component | Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Re National Board No. | Other Identific | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or |
| C | Name of | Name of | Manufacturer | National | | cation | Year Built | Replaced, or | Code Stamped |
| C | Name of Component | Name of Manufacturer Southwest Fabricating and | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Code Stamped (YES or NO) |
| C | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Code Stamped (YES or NO) |
| C | Name of Component | Name of Manufacturer Southwest Fabricating and | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Code Stamped (YES or NO) |
| C | Name of Component | Name of Manufacturer Southwest Fabricating and | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Code Stamped (YES or NO) |
| C | Name of Component | Name of Manufacturer Southwest Fabricating and | Manufacturer Serial No. | National Board No. | Other Identific | cation | | Replaced, or Replacement | Code Stamped (YES or NO) |
| C | Name of Component | Name of Manufacturer Southwest Fabricating and Welding Co. | Manufacturer Serial No. | National Board No. N/A | Other Identific | cation 3 | 1972 | Replaced, or Replacement Repaired | Code Stamped (YES or NO) |
| CSB | Name of Component -F004 | Name of Manufacturer Southwest Fabricating and Welding Co. | Manufacturer Serial No. N/A | National Board No. N/A | Other Identific | was reduc | 1972 | Replaced, or Replacement Repaired | Code Stamped (YES or NO) |
| CSB | Name of Component -F004 Description | Name of Manufacturer Southwest Fabricating and Welding Co. | Manufacturer Serial No. N/A | National Board No. N/A found during | Other Identific DLA-8-1-2 PSI Examination v | was reduc | 1972 eed to an acce | Replaced, or Replacement Repaired Peptable size rating Pressure | Code Stamped (YES or NO) |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9. Remarks:

The weld crown on ISI Weld CSB-F004 was removed to facilitate Ultrasonic examination. Once the weld crown was removed a Preservice Liquid Penetrant examination was performed to establish a new baseline. A linear indication was identified during that PSI examination. The length of the indication was 3/16" long (ref. Report PT-07-004). CAP 47392 was written. WO A76710 was written to remove the indication. The indication was reduced to an acceptable size (Ref. IWB-3122.3) with a remaining wall thickness of 0.439" (Minimum wall of 0.4378 was allowed). A final PT (ref. Report PT-07-009) was performed with the final length of indication being 0.080" which was calculated as acceptable.

| CERTIFICATE OF COMPLI | ANCE |
|---|---|
| We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. | Repaired (repair or replacement) |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None Exp | ration Date N/A |
| Signed Supervisor, Materials/Inspection Date Owner or Owner's Designee, Title | March 23, 2007 |
| | |
| of Hartford, Conn. have insp | rd of Boiler and Pressure Vessel Inspectors and employed by HSB CT pected the components described in this Owner's Report and and state that to the best of |
| By signing this certificate neither the Inspector nor his employer makes an examinations and corrective measures described in this Owner's Report. I liable in any manner for any personal injury or property damage or a loss of | urthermore, neither the Inspector nor his employer shall be |
| Commissions NB 133 Inspector's Signature NB 133 National Board | JANI, 1446 IA d, State, Province, and Endorsements |
| Date | a, state, 1 formee, and Endoisements |

| 1. | Owners | FPL Energy D Name | Quane Arnold LLC | | Date 0. | 3/23/07 | | |
|----------|-----------------------|---|-------------------------------------|--|---------------------------------------|-------------------|--|---|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 | . | Sheet 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit1 | | | |
| | 3277 DAE | EC Road, Palo, IA | | | WO 1136700, 11364 1136428, 1136699 | | | 2, 1136427, |
| | | Addre | ess | | Repair Organization | to P. O. No., Job | No., etc. | |
| 3. | | Formed by <u>FPL E</u> Name EC Road, Palo, I <i>A</i> | | Type Code Symbol S Authorization No. Expiration Date | Stamp Nor Nor Nor | ne | | |
| 4. | | ion of System: | Control Roc | 1 Drive | Expiration Date | INOI | 10 | |
| 5. | | cable Construction | | IE VIII | 19 68 Edition | N/A Adder | nda N/A | Code Case. |
| ٥. | | | | | r Replacements 2001-A03 | | | |
| | (o) Applic | cable Edition of t | Section XI Otinzed | i ioi icepans o | i Replacements 2001 <u>-200</u> . | <u>.</u> | | • |
| 6. | Identificat | ion of Componer | nts Repaired or Re | placed and Rep | placement Components | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | 0(30-27) | General Electric | S/N C0277 | N/A | HCU Accumulator | 1979 | Replacement | Yes |
| | 0(34-23) | General Electric | S/N C0173 | N/A | HCU Accumulator | 1978 | Replacement | Yes |
| | 0(26-43) | General Electric | S/N 1307 | N/A | HCU Accumulator | 1975 | Replacement | Yes |
| | 0(10-35) | General Electric | S/N C0238 | N/Ā | HCU Accumulator | 1979 | Replacement | Yes |
| | 0(22-31) | General Electric | S/N C0278 | N/A | HCU Accumulator | 1979 | Replacement | Yes |
| | 0(02-23) 0(10-31) | General Electric General Electric | S/N C0165 S/N C0169 | N/A N/A | HCU Accumulator HCU Accumulator | 1978 1978 | Replacement Replacement | Yes Yes |
| | 0(10-31) | General Electric | S/N C0169 S/N C0252 | N/A | HCU Accumulator | 1978 | Replacement | Yes |
| 7. 8. | Descriptio Tests Cond | n of Work: _ ducted: Other | Replaced HCU A Hydrostatic Pressu | | t 30-27, 34-23, 26-43, 10- Pneumatic | Nominal Operat | | ocations. |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9.

Remarks:

Inspector's Signature

Replaced HCU Accumulators at 30-27, 34-23, 26-43, 10-35, 22-31, 02-23, 10-31, 14-27 locations. A Visual

| Examination for leakage (VT-2) was performed during the Class 1 System Leakage Test and found acceptable. |
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| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement |
| (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp None |
| Type Code Symbol Stamp None |
| Certificate of Authorization No. None Expiration DateN/A |
| Man 23 |
| Signed Supervisor, Materials/Inspection Date Winds 23 2007 Owner or Owner's Designee, Title |
| Owner or Owner's Designee, Title |
| |
| |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT |
| the State or Province of Iowa and employed by HSB CT of Hartford, Conn. have inspected the components described in this Owner's Report |
| during the period $7-2/-06$ to $4-3-67$, and state that to the best of |
| my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in |
| accordance with the requirements of the ASME Code, Section XI. |
| Production of the Control of the Con |
| 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 Owner's 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.

Commissions

NB 13394NF, 1496 FA
National Board, State, Province, and Endorsements

| 1. | Owners | FPL Energy I | Ouane Arnold LLC | | Date | 05/ | /29/2007 | | |
|------------------------------------|---------------------------------|---|----------------------------|-----------------------|--------------------------------|------------------------------|---------------------------------------|--|--|
| | P.O. Box 1 | | h, FL 33408-0420 | | Sheet | 1 | of | 2 | · |
| 2. | Plant | Duane Arnold Name | | | Unit | `1 | · · · · · · · · · · · · · · · · · · · | | · |
| | 3277 1 | DAEC Road, Pal Addre | | | Repair | MWO 11375 Organization to | | Job No., etc. | |
| 4. 5. | 3277 DAE | ormed by <u>FPL E</u> Name C Road, Palo, I/ ion of System: cable Construction | A 52324 EBB005 (H | PCI Class 2) | Type Co Authori Expirati | ode Symbol St zation No. | amp | None None ddenda N/A | Code Case. |
| 6. | (b) Applic | cable Edition of | Section XI Utilized | l for Repairs of | r Replaceme | nts 2001 <u>-A03</u> | | udelida 1VA | - Code Case. |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Id | entification | Year Bu | ilt Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| wel | Sockolet ded on 3005 Line | Consolidated Power Supply | N/A . | N/A | HT-1 | 335ANB | 2006 | Replacement | No |
| | | - | | | | | | | |
| | | | | | | | | | · |
| 7. | Description | n of Work: | Installation of 3/4" | Sockolet on E | BB005 Line | ; | | | , |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic | | Nominal Op | perating Pressure | X |
| | | Other | Pressu | re 1170 | 0 psi | Test Temp |) | 73 ° F | - |
| NO | TF: Sunnlan | nental sheets in f | orm of liets skatch | nes or drawing | s may he us | ed provided (| 1) size is Q1 | /2 in v 11 in (2). | nformation |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| FORM NIS-2 (Ba | ick) | ١ |
|----------------|------|---|
|----------------|------|---|

Installed 3/4" sockolet to the 12" EBB005 Line per ECP 1797. Final weld liquid penetrant examination was

completed and accepted. A VT-2 Examination was completed and accepted (ref. Report # P07095)

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| | The same of the sa |
| CERTIFICATE OF COM | MPLIANCE |
| We certify that the statements made in the report are correct and this | Replacement |
| | (repair or replacement) |
| conforms to the rules of the ASME Code, Section XI. | |
| Type Code Symbol Stamp None | |
| | D D . |
| Certificate of Authorization No. None | Expiration Date N/A |
| Signed Program Engineering | Date May 29th, 2007 |
| Owner or Owner's Designee, Title | |
| | |
| | r in the second |
| CERTIFICATE OF INSI | ERVICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the Nationa | Il Board of Boiler and Pressure Vessel Inspectors and |
| the State or Province of Iowa | and employed by HSB CT |
| | re inspected the components described in this Owner's Report |
| during the period /- 26 - o7 To 6 my knowledge and belief, the Owner has performed examinations an | , and state that to the best of |
| accordance with the requirements of the ASME Code, Section XI. | d taken corrective measures described in this Owner's Report in |
| | |
| By signing this certificate neither the Inspector nor his employer make | |
| examinations and corrective measures described in this Owner's Rep liable in any manner for any personal injury or property damage or a | |
| habie in any manner for any personal injury of property damage of a | loss of any kind arising from or connected with this hispection. |
| Sommissions NB | 13399ANI, 1496 IA Board, State, Province, and Endorsements |
| Inspector's Signature National | Board, State, Province, and Endorsements |
| Date 6-2 , 2007 | |
| | |
| | |

9.

Remarks:

| 1. | Owners | FPL Energy D Name | Quane Arnold LLC | | Date04/: | 5/07 : | | · · |
|-----|--------------------------------------|--|---|--|--|----------------------|--|---|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 ess | <u> </u> | Sheet 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit 1 | | | · |
| | 3277 DAE | C Road, Palo, IA Addre | | | WO 1137662 Repair Organization to | P. O. No., Job | No., etc. | |
| 3. | 3277 DAE | ormed by <u>FPL E</u> Name C Road, Palo, IA on of System: | x 52324 | ure Coolant Inj | Type Code Symbol Sta Authorization No. Expiration Date | Nor Nor | ne | |
| 5. | (a) Applic | able Construction able Edition of S | n Code ANS | I B31.7 Class and for Repairs of | | 70 Adder | nda N/A | Code Case. |
| 6 | Identificati | on of Componer | te Panaired or Pa | placed and Der | Jacament Components | | | |
| | Identificati Name of component | on of Componer Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | Placed and Rep National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or |
| | Name of component | Name of | Manufacturer | National | Other Identification %" 3000 # Half Coupling | Year Built | Replaced, or | Code Stamped |
| C | Name of omponent | Name of Manufacturer Bonney Forge Consolidated | Manufacturer Serial No. | National Board No. | Other Identification | | Replaced, or Replacement | Code Stamped (YES or NO) |
| ZBB | Name of omponent | Name of Manufacturer Bonney Forge | Manufacturer Serial No. Lot 9400 | National Board No. | Other Identification %" 3000 # Half Coupling | 2006 | Replaced, or Replacement | Code Stamped (YES or NO) |
| ZBB | Name of omponent | Name of Manufacturer Bonney Forge Consolidated | Manufacturer Serial No. Lot 9400 | National Board No. | Other Identification %" 3000 # Half Coupling | 2006 | Replaced, or Replacement | Code Stamped (YES or NO) |
| ZBB | Name of omponent | Name of Manufacturer Bonney Forge Consolidated Power Supply n of Work: | Manufacturer Serial No. Lot 9400 Ht 1335ANB Add ¾" taps to 1 Hydrostatic | National Board No. N/A N/A 2" EBB-005 fo | Other Identification 3/4" 3000 # Half Coupling 3/4" x 12" Sockolet r vent, drain, and PSV2302 Pneumatic N | 2006 2006 2006 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | fitting welds to the 12 | 2" EBB-005 are the o | nly Section XI activity. S | -005 with remaining piping being ³ / ₄ ". The ³ / ₄ " Successfully performed surface exams on ss 1 Leak test on MWO 1138785. | | |
|----|----------|-------------------------|----------------------|----------------------------|--|--|--|
| | | | | | | | |

| CERTIFICATE OF COMPLIANCE | | | | | | | | |
|---|---------------------------------------|--|--|--|--|--|--|--|
| We certify that the statements made in the report are correct and this Replacement (repair or replacement) | | | | | | | | |
| conforms to the rules of the ASME Code, Section XI. | (topul of replacement) | | | | | | | |
| Type Code Symbol Stamp None | | | | | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | | | | | |
| Signed Supervisor, Materials/Inspect Owner or Owner's Designee, Title | $\frac{4}{6}$ Date $\frac{4}{6}$ 2007 | | | | | | | |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT of Hartford, Conn. have inspected the components described in this Owner's Report during the period 1-36-07 to 4-17-07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. Commissions 13344N=1465 | | | | | | | | |
| Inspector's Signature Nat Date $4 - 7$, 2007 | | | | | | | | |

| 1. | Owners | FPL Energy D | uane Arnold LLC | | Date 0 | 04/11/07 | <u>.</u> | | |
|------|--|-------------------------------|----------------------------|-----------------------|------------------------------------|-----------|-------------|--|--|
| | P.O. Box 1 | | h, FL 33408-0420 | | Sheet | 1 | of | 2 | • |
| 2. | Plant | Addre Duane Arnold Name | Energy Center | | Unit | 1 | | | |
| | 3277 I | DAEC Road, Pal | | | MWO 1137683, 11 | 39426, & | CWO A | 77649 | |
| | | Addre | | | Repair Organization | | | | |
| 3. | Work Perfe | ormed by <u>FPL E</u> Name | nergy | | Type Code Symbol Authorization No. | Stamp | Non | | |
| | 3277 DAE | C Road, Palo, IA | 52324 | | Expiration Date | | Non | | |
| 4. | | on of System: | | Discharge Li | | | | | • |
| 5. | | able Constructio | | 331.7 Class 2 | 19 69 Editio | n 1971 | Adden | da N/A | Code Case. |
| | (b) Applic | able Edition of S | Section XI Utilized | for Repairs o | r Replacements 2001-A | 03 | | | • |
| • | | | | | • | | | | |
| 6 | Identificati | on of Componer | its Repaired or Rep | placed and Re | placement Components | | 11 T 12 | <u> </u> | ACME C. I. |
| 1 | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Yea | ar Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | | | | , | | | | · | |
| EBB- | -5-H-7 | Unknown (site fabricated) | N/A | N/A | N/A | Un | known | Repaired | No |
| | 1. | | | | | | | | |
| | * . | | | | | | | | |
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| - | | | | | | | | | <u> </u> |
| | | | | | | | | | |
| 7. | Description | of Work: | Removed U-bolt a | and added shir | ms on pipe support EBB | -5-H-7 pe | r ECP 18 | 03. | : |
| 8. | Tests Cond | ucted: | Hydrostatic | | Pneumatic | Nomina | ıl Operati | ing Pressure | |
| | | Other | Pressur | re <u>N/A</u> | psi Test Tes | mp | N/A | °F | |
| | NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at | | | | | | | | |

in items 1 through 6 on this 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.

| 9. | Remarks: | The U-bolt from pipe hanger, EBB-5-H-7, has been permanently removed per ECP 1803. Removal was limited |
|----|----------|--|
| | | to U-bolt only. During VT-3 (VT-07-119) inspection the support was found unloaded (an air gap between |
| | | support and pipe). MWO 1139426 added shim plates between support an piping. A successful VT-3 (VT-07- |
| | | 120) examination was completed following shim installation |

| CERTIFICATE OF COMPLIA | ANCE | | | | | | |
|---|---|---|--|--|--|--|--|
| We certify that the statements made in the report are correct and this | Repaired | | | | | | |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) | | | | | | |
| Type Code Symbol Stamp None | | · | | | | | |
| Certificate of Authorization No. None Expir | ration DateN/A | <i>.</i> | | | | | |
| Signed Level Program Engineering Date | April 11th | _ 2007 | | | | | |
| Owner or Owner's Designee, Title | | | | | | | |
| | | | | | | | |
| | d of Boiler and Pressure Vessel I mployed by HSB CT | | | | | | |
| | ected the components described i | n this Owner's Report ate that to the best of | | | | | |
| during the period 3-32-57 To 4-16-67 my knowledge and belief, the Owner has performed examinations and taker 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 Owner's 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. | | | | | | | |
| Inspector's Signature Commissions National Board | 3394NF, 1496 T., State, Province, and Endorseme | A ents | | | | | |
| Date 4- 16 07 ,2007 | | | | | | | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | | Date03. | /23/07 | ·. · | | |
|----------|---|---|---|---|-------------------------------------|---------------------------------------|--|------------------------------------|--|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | <u> </u> | Sheet 1 | of | 2 | · . | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit 1 | · | · · · · · · · · · · · · · · · · · · · | | |
| | 3277 DAE | C Road, Palo, L | A 52324 | | WO 1137678 | | | | |
| | | Addr | | | Repair Organization to | o P. O. No., Job | No., etc. | | |
| 3. | Work Perf | ormed by <u>FPL E</u> | nerov | | Type Code Symbol St | amp Noi | ne | | |
| ٥. | WOLK I CIT | Name | ARCIEY. | | Authorization No. | · · · · · · · · · · · · · · · · · · · | | | |
| | 3277 DAE | C Road, Palo, L | | | Expiration Date None | | | | |
| 4. | | ion of System: | | ure Coolant Inje | | | | | |
| 5. | • | able Construction | | I B31.7 Class 2 | <u> </u> | 70 Adder | nda N/A | Code Case. | |
| | (b) Applic | able Edition of | Section XI Utilized | d for Repairs or | Replacements 2001-A03 | | | | |
| | | | | • | • - | | | | |
| 6 | Identificati | | | | | , | | | |
| | Identificati Name of omponent | | | | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or | |
| C | Name of | ion of Compone | nts Repaired or Re | placed and Rep | lacement Components | Year Built | Replaced, or | Code Stamped | |
| C | Name of omponent | on of Compone Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | Other Identification | | Replaced, or Replacement | Code Stamped (YES or NO) | |
| C | Name of omponent | on of Compone Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | Other Identification | | Replaced, or Replacement | Code Stamped (YES or NO) | |
| C | Name of omponent | on of Compone Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | Other Identification | | Replaced, or Replacement | Code Stamped (YES or NO) | |
| C | Name of omponent | Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | Placed and Rep National Board No. N/A | Other Identification 1" A572 Plate | | Replaced, or Replacement | Code Stamped (YES or NO) | |
| EBB- | Name of omponent 005-SR-8 | Name of Manufacturer IPSCO n of Work: | nts Repaired or Re Manufacturer Serial No. B61806 | National Board No. N/A | Other Identification 1" A572 Plate | | Replaced, or Replacement Replacement | Code Stamped (YES or NO) | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks: Replaced baseplate on EBB-005-SR-8. Welded baseplate to support. Successfully per welds. Successful VT-3 (report P07076 and VT-3 on DLA-1-H-12A, Report P07075) | | | | | | | |
|--|--|--|--|--|--|--|--|
| reassembly of support. | y was performed after | | | | | | |
| | | | | | | | |
| CERTIFICATE OF COMPLIANCE | | | | | | | |
| | | | | | | | |
| We certify that the statements made in the report are correct and this Replacement | | | | | | | |
| (repair or replacement) conforms to the rules of the ASME Code, Section XI. | | | | | | | |
| | | | | | | | |
| Type Code Symbol Stamp None | | | | | | | |
| Certificate of Authorization No. None Expiration Date N/A | | | | | | | |
| Signed Rusulf von for Supervisor, Materials/Inspection Date April 4th Owner or Owner's Designee, Title | 2007 | | | | | | |
| | | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel the State or Province of Iowa and employed by HSB CT of Hartford, Conn. have inspected the components described during the period 2-3-07 to 4-4-07, and s | in this Owner's Report state that to the best of | | | | | | |
| my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspecto liable in any manner for any personal injury or property damage or a loss of any kind arising from or connection. | r nor his employer shall be | | | | | | |
| Inspector's Signature Commissions NB 1339ANT, 1496 National Board, State, Province, and Endorsem | SIA | | | | | | |
| Inspector's Signature National Board, State, Province, and Endorsem | nents | | | | | | |
| Date $Q-Q$, 2007 | | | | | | | |

| 1. | . Owners <u>FPL Energy Duane Arnold LLC</u> | | Date | 04/ | 06/07 | | | | |
|---------------|---|---|-------------------------|------------------|-------------------|---------------|--------------|------------------------------|-----------------|
| | | Name | ; | | | | | | |
| | D O Doy 1 | 4000 Iuma Daga | h Et 22409 0420 | | Sheet | 1 | of | 2 | |
| | P.O. BOX I | Addre | h, FL 33408-0420 | | Sheet | 1 | | <u>L</u> | |
| | | Addit | 288 | | | | | | |
| 2. | Plant | Duane Arnold | Energy Center | | Unit | 1 | | | |
| ۷. | | Name | | | | | | | |
| | | 2 13 | | | | | | | |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | WO 11349 | | | | |
| | | Addre | ess | | Repair Org | anization to | P. O. No., | Job No., etc. | |
| 3. | Work Perf | ormed by FPL E | nerav | | Type Code | Symbol St | amn | None | |
| ۶. | WOLKICII | Name | iici g y | | Authorizati | • | • | None | |
| | 3277 DAE | C Road, Palo, IA | N 52324 | | Expiration | | | None | |
| 4. | | on of System: | | Safety Relief | | | | 110110 | |
| 5. | | able Construction | | E, III | 19 68 | Edition | W68 A | ldenda N/A | Code Case. |
| | | | Section XI Utilized | | | _ | | | |
| | (b) Tippine | dolo Edition of . | | a for respans of | Replacements | 2001_1105 | | | |
| 6. | Identificati | on of Componer | nts Repaired or Re | placed and Rep | lacement Com | ponents | | | • |
| 1 | _ | | | | | | | | ASME |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National | Other Identi | ification | Year Bui | It Repaired, Replaced, or | Code Stamped |
| | omponent | , , , and , | Serial 1 (or | Board No. | Other Identi | areasion | | Replacement | (YES or |
| " | G. D.1: 6 | T D. I. | 601100 | 37/4 | Work Orde | | 1076 | | NO) |
| | Steam Relief Pilot | Target Rock | S/N 189 | N/A | PWO 113494 | 8 / 83.04 | 1976 | Replacement | Yes |
| Body | -to-Pilot | Target Rock | Heat Code | N/A | N/A | | 1991 | Replacement | No |
| Boltin | ig (one nut) | | IN85326 | | | | ļ | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 7. | Description | of Work: | Replace pilot on | PSV4402 with | rebuilt tested sp | pare pilot, S | S/N 189 (rep | laced one mountin | g nut). |
| _ | m . a | | | | | <u> </u> | | | [1 |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic | | Nominal Op | erating Pressure | X |
| | | Other | Pressu | re 1010 |) psi | Test Temp | 22: | 5.9 ° F | |
| | | • | | - | · | • | | | • |
| | | | | | | | | | |
| | | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Pilot Valve S/N 200 was removed and pilot valv | ve S/N 189 was installed. Prior to installation S/N 189 was |
|----|----------|--|---|
| | | repaired and documented on NIS-2 (20-06-07). | One mounting nut was replaced during the installation of |
| | | | |

on of pilot S/N 189 (VT-1 was performed on replacement nut). A VT-2 was completed on the mechanical connection and found acceptable during Class 1 leak test.

| CERTIFICATE OF COMPLIANCE | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| We certify that the statements made in the report are correct and this Replacement | | | | | | | | |
| u · | air or replacement) | | | | | | | |
| conforms to the rules of the ASME Code, Section XI. | | | | | | | | |
| Type Code Symbol Stamp None | | | | | | | | |
| Certificate of Authorization No. None Expiration | Date N/A | | | | | | | |
| Signed Signed Signed Signed Signed Signed Signed Signed Program Engineering Date A | pril 6 th , 2007 | | | | | | | |
| Owner or Owner's Designee, Title | | | | | | | | |
| | | | | | | | | |
| CERTIFICATE OF INSERVICE INSPECTION | | | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Board of E the State or Province of Iowa and employ | ved by HSB CT | | | | | | | |
| of Hartford, Conn. have inspected to | the components described in this Owner's Report | | | | | | | |
| during the period 8.8-06 to 4-16-07 | , and state that to the best of | | | | | | | |
| my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. | | | | | | | | |
| J3 Commissions NB /2329 | ANI 1496 ID | | | | | | | |
| Inspector's Signature National Board, State | ANI, 196 IA e, Province, and Endorsements | | | | | | | |
| Date | | | | | | | | |

| 1. Owners FPL Energy Duane Arnold LLC Name | | | | 2 | Date | 04/2 | 26/07 | | | <u>:</u> |
|--|--|---|---|---|--|-----------------------------|-----------------------|---|-------------------------------------|---|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | | Sheet | 1 | of | | 2 | · |
| 2. | . Plant Duane Arnold Energy Center Name | | | | Unit | 1 | | · . | ·. | |
| | 3277 DAE | C Road, Palo, L | A 52324 | | MWOs 113 | 9066, 1139 | 067, 11390 | 064, & 113 | 39059 | |
| | | Addr | | = <u></u> - | Repair Orga | | | | | |
| 3. | Work Perfe | ormed by <u>FPL E</u> Name | Energy | | Type Code S | • | mp _ | None None | | <u>.</u> |
| | | C Road, Palo, L | | | Expiration I | Date | | None | | |
| 4. | | on of System: | | on System – Cla | | | | | | |
| 5. | (a) Applic | able Construction | | ME, III SI B31.1 | 19 65 67 | Edition | S67 A | | N2, N7, N9 & N10 | Code Case |
| | (b) Applic | able Edition of | Section XI Utilized | d for Repairs or | Replacements | 2001 <u>-A03</u> | | | | |
| | | | | | | | | | | |
| 6 | Idontificati | on of Compone | nts Danginad on Da | nlaced and Dan | Jacomont Comn | ononta | | | | |
| | Identificati Name of Component | on of Compone Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | lacement Comp | | Year Bu | Rep | epaired, placed, or placement | ASME Code Stamped (YES or |
| Reci | Name of Component rculation Inlet teles (N2C & | Name of | Manufacturer | National | | fication | Year Bu *19 **1 | Rep Rep | olaced, or | Code Stamped |
| Reci Nozz | Name of Component rculation Inlet teles (N2C & | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identif | fication | *19 | Rep Rep | olaced, or olacement | Code Stamped (YES or NO) |
| Reci Nozz | Name of Component rculation Inlet teles (N2C & | Name of Manufacturer CB&I | Manufacturer Serial No. | National Board No. | Other Identif | fication | *19 | Rep Rep | olaced, or olacement | Code Stamped (YES or NO) |
| Reci Nozz | Name of Component rculation Inlet teles (N2C & | Name of Manufacturer CB&I | Manufacturer Serial No. | National Board No. | Other Identif | fication | *19 | Rep Rep | olaced, or olacement | Code Stamped (YES or NO) |
| Reci Nozz | Name of Component reulation Inlet teles (N2C &) | Name of Manufacturer CB&I cssel Information Information | Manufacturer Serial No. | National Board No. *NB3663 | Other Identif RRC-F00 RRF-F00 | fication 02 02 | *19 | Rep Rep | olaced, or olacement | Code Stamped (YES or NO) |
| Reci Nozz N2F | Name of Component representation Inlet teles (N2C &) * = Reactor Ve* ** = Safe-End | Name of Manufacturer CB&I cssel Information Information | Manufacturer Serial No. * B-4833 | National Board No. *NB3663 | Other Identif RRC-F00 RRF-F00 | fication 02 02 to nozzle w | *19 | Rep. Rep. Rep. Rep. Rep. Rep. Rep. Rep. | placed, or placement epaired | Code Stamped (YES or NO) |
| Reci Nozz N2F | Name of Component reculation Inlet teles (N2C &) * = Reactor Ve* ** = Safe-End | Name of Manufacturer CB&I cssel Information Information | Manufacturer Serial No. * B-4833 Applied full structure Hydrostatic | National Board No. *NB3663 | Other Identif RRC-F00 RRF-F00 on two safe-end | fication 02 02 to nozzle w | *19 **19 velds. | Rep. Rep. Rep. Rep. Rep. Rep. Rep. Rep. | placed, or placement epaired | Code Stamped (YES or NO) *Yes |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9. Remarks:

During the In-service Inspection of RRF-F002, the UT examination revealed indications with the characteristics of IGSCC. The expanded scope included RRC-F002 which also revealed indications. Both welds were repaired by applying full structural overlays in accordance with ASME, Section XI, Code Cases N-638-1 and N-504-2. Some exceptions were taken to both Code Cases as addressed in Relief Request NG-07-0176. DAEC has received verbal approval of submitted Relief Request with formal SER to follow. Pre-weld PTs and final acceptance NDE (PT & UT) revealed no recordable indications in either overlay.

| CERTIFICATE OF CO | DMPLIANCE | | | | |
|---|---|--|--|--|--|
| We certify that the statements made in the report are correct and th | | | | | |
| | (repair or replacement) | | | | |
| conforms to the rules of the ASME Code, Section XI. | | | | | |
| Type Code Symbol Stamp None | | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | | |
| | g Date April 26 th , 2007 | | | | |
| Owner or Owner's Designee, Title | | | | | |
| | | | | | |
| | | | | | |
| CERTIFICATE OF IN | SERVICE INSPECTION | | | | |
| CERTIFICATE OF IIV | SERVICE MSI ECTION | | | | |
| I, the undersigned, holding a valid commission issued by the Natio | nal Board of Boiler and Pressure Vessel Inspectors and | | | | |
| the State or Province of Iowa | and employed by HSB CT | | | | |
| of Hartford, Conn. | ave inspected the components described in this Owner's Report | | | | |
| during the period $3-36-67$ to | 4-37-07, and state that to the best of | | | | |
| my knowledge and belief, the Owner has performed examinations | and taken corrective measures described in this Owner's 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 Owner's 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. | | | | | |
| J3 Commissions 1 | 13 12329ANE, 1486 IA | | | | |
| Inspector's Signature Nation | al Board, State, Province, and Endorsements | | | | |
| Date <u>4-37</u> , 2007 | | | | | |

| 1. Owners FPL Energy Duane Arnold LLC Name | | | | Date | 04. | /26/07 | · | | |
|--|---|-------------------------|----------------------------|-----------------------|--|------------------------|-----------------------|--|---|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet | 1 | of _: | 2 | · · · · · · · · · · · · · · · · · · · |
| 2. | Plant | Duane Arnold Name | | | Unit | . 1 | | | |
| | 3277 DAE | C Road, Palo, IA | | | MWO 1 Repair C | | o P. O. No., Job | No., etc. | |
| 3.4.5. | Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 Identification of System: <u>Drywell Valves & Torus, S</u> | | | | Authoriz Expiration SUS 73.01, (2 19 6 | ISI Class 2) 9 Edition | Non Non Non Non Adden | ne ne | Code Case. |
| 6 | Identificati | on of Componer | nts Repaired or Rep | olaced and Re | placement Co | omponents_ | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ide | entification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| Jange Down CV43 | stream of | Site fabricated | N/A | N/A | 7 | i/A | Unknown | Repaired (modified rigid support to guides) | N/A |
| 2"X 2 | "X ¼" Angle | Dubose National | Ht# JB9473 | N/A | SA | A-36 | 2003 | Replacement (added material) | No |
| | t for 2' Pipe | Nova | Lot# 50097196 | N/A | SA-193 | 3, Gr B7 | 2007 | Replacement (added material) | No |
| 5/8" 1 | Vuts | Nova | Lot# 50097197 | N/A | SA-30 |)7 Gr A | 2007 | Replacement (added material) | No |
| 7. | Description | n of Work: | Modified support | after CV4371 | C by removing | ng anchor stra | p and replacing | with U-bolt gui | de. |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic |] | Nominal Operat | ing Pressure | |
| | | Other | Pressur | reN/A | A psi | Test Temp | N/A_ | <u>° F</u> | |
| | | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9,

Remarks:

Modified 2" pipe support located downstream of CV4371C by removing an anchor strap and replacing it with a U-bolt. The vertical 2"x2"x1/4" angle iron that holds the U-bolt was also replaced.

| • | | | | | | |
|---|--|--|--|--|--|--|
| | | | | | | |
| CERTIFICATE OF COM | MPLIANCE | | | | | |
| We certify that the statements made in the report are correct and this | | | | | | |
| conforms to the rules of the ASME Code, Section XI. | (repair or replacement) | | | | | |
| Type Code Symbol Stamp None | | | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | | | |
| Signed Sent Program Engineering Owner or Owner's Designee, Title | Date April 27 th , 2007 | | | | | |
| | | | | | | |
| CERTIFICATE OF INSI | | | | | | |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and | | | | | | |
| I, the undersigned, holding a valid commission issued by the National | al Board of Boiler and Pressure Vessel Inspectors and | | | | | |
| I, the undersigned, holding a valid commission issued by the Nationa the State or Province of Iowa of Hartford, Conn. | al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT re inspected the components described in this Owner's Report | | | | | |
| I, the undersigned, holding a valid commission issued by the Nationa the State or Province of Iowa of Hartford, Conn. | al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT re inspected the components described in this Owner's Report , and state that to the best of | | | | | |
| I, the undersigned, holding a valid commission issued by the National the State or Province of Iowa of Hartford, Conn. have during the period 1-5-07 to 5 my knowledge and belief, the Owner has performed examinations and | al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT re inspected the components described in this Owner's Report for inspected the components described in this Owner's Report in the described in this Owner's Report in the corrective measures described in this Owner's Report in t | | | | | |
| I, the undersigned, holding a valid commission issued by the National the State or Province of Iowa of Hartford, Conn. have during the period 1-5-07 to 5 my knowledge and belief, the Owner has performed examinations an accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer make examinations and corrective measures described in this Owner's Repliable in any manner for any personal injury or property damage or a | al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT re inspected the components described in this Owner's Report in and state that to the best of the taken corrective measures described in this Owner's Report in the cor | | | | | |
| I, the undersigned, holding a valid commission issued by the National the State or Province of Iowa of Hartford, Conn. have during the period 1-5-07 to 5 my knowledge and belief, the Owner has performed examinations an accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer make examinations and corrective measures described in this Owner's Repliable in any manner for any personal injury or property damage or a | al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT re inspected the components described in this Owner's Report for inspected the components described in this Owner's Report in the described in this Owner's Report in the corrective measures described in this Owner's Report in t | | | | | |

| 1. | Owners | | Ouane Arnold LLC | | Date _ | 04/ | 26/07 | | | |
|----------|---------------------------|---|---|---|-------------------------|---|-----------|------------|--|---|
| | P.O. Box | Name 14000 Juno Beac Addre | h, FL 33408-0420 | | Sheet | _1 | of | · | 2 | · |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | 1 | | | | |
| | 3277 DAE | EC Road, Palo, IA | A 52324 | | MWO 113 | 6693 | | | | |
| | | Addr | | | Repair Org | ganization to | P. O. No | o., Job No | o., etc. | |
| 3. | | Formed by <u>FPL E</u> Name CC Road, Palo, IA | | | Authorizat | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | | |
| 4. | | ion of System: | | SUS 51.00, (IS | | | | | | |
| 5. | ., | cable Construction | Pump Code | VE - Draft b & Valve c, Section III c ANSI B31.7 I for Repairs or | 19 68 69 Replacements | Edition 5 2001-A03 | No 70 | Addenda | N/A N/A | Code Case. |
| C | | | | | | | | | | |
| | Name of omponent | Name of Manufacturer | nts Repaired or Rep Manufacturer Serial No. | National Board No. | Other Ident | | Year l | | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | Spray Loop Test Bypass | Flowserve | BA648 | N/A | MO21 | 32 | 200 | 7 | Replacement | Yes |
| Core | Spray LooP est Bypass | Consolidated Power Supply | Heat # SX0512 | N/A | N/A | | 200 | 5 | Replacement | No |
| | · | | | | | | | | | |
| 7. | Description | n of Work: | Replaced MO213 | 2 and approxin | nately 12" OF | 8" piping do | ownstrear | n of MO2 | 2132. | |
| 8. | Tests Cond | ducted: | Hydrostatic | | Pneumatic | | Nominal (| Operating | Pressure | X |
| | | Other | Pressur | re | psi | Test Temp | | 73.1 | ° F | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| _ | |
|---|---------|
| Λ | Remarks |
| | |
| | |

Replaced MO2132 and approximately 12" of 8" piping downstream of MO2132. Replacement was required due to FAC damage. Replacement materials and installing weld procedure were impact qualified design specification requirements. All welding was subject to final acceptance radiography and a system leak test (P07068). Spring can hanger, HLE-016-H-11, was removed & replaced during valve replacement and received a VT-3 exam (P07067) following installation.

| CERTIFICATE OF COMPLIANCE | | | | | | | |
|---|--|--|--|--|--|--|--|
| We certify that the statements made in | the report are correct and this | Replacement (repair or replacement) | | | | | |
| conforms to the rules of the ASME Co | de, Section XI. | (repair or repracement) | | | | | |
| Type Code Symbol Stamp | None | | | | | | |
| Certificate of Authorization No. | None | Expiration Date N/A | | | | | |
| Signed Scott resk Owner or Own | Program Engineering ler's Designee, Title | Date April 27 th , 2007 | | | | | |
| I, the undersigned, holding a valid con the State or Province of | CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT | | | | | | |
| my knowledge and belief, the Owner haccordance with the requirements of the | to san performed examinations and a ASME Code, Section XI. | ve inspected the components described in this Owner's Report 5-8-07, and state that to the best of nd taken corrective measures described in this Owner's Report in kes any warranty, expressed or implied, concerning the | | | | | |
| 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 Owner's 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. | | | | | | | |
| Inspector's Signature | Commissions NB National | 13399AV I, 1496 IA 1 Board, State, Province, and Endorsements | | | | | |
| Date 5-8 | , 2007 | | | | | | |

| 1. | 1. Owners <u>FPL Energy Duane Arnold LLC</u> Name | | | | Date | 04/2 | 6/07 | · . | |
|----------|---|---------------------------------------|--|---|---------------|---|--------------------|--|---|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet | 1 | of | 2 | - |
| 2. | Plant Duane Arnold Energy Center Name | | | | Unit | 1 | · | | |
| | 3277 DAE | C Road, Palo, IA | | | MWO 1136 | | , | · . | t . |
| | | Addre | ess | | Repair Orga | nization to | P. O. No., Job | No., etc. | |
| 3. | Work Perf | formed by <u>FPL E</u> Name | nergy | | | Type Code Symbol Stamp Authorization No. None None | | | |
| 4. | | C Road, Palo, IA | | SUS 51.00, (I | | Expiration Date None | | | |
| 5. | (a) Applic | able Constructio | n Code VAL Pum Code | VE - Draft p & Valve e, Section III - ANSI B31.7 | 19 68 | | No Adde | nda N/A N/A | Code Case. |
| | Identificat Name of omponent | on of Componer Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | National Board No. | Other Identif | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | Spray Loop Fest Bypass | Flowserve | BA649 | N/A | MO211 | 2 | 2007 | Replacement | Yes |
| Core | Spray LooP Test Bypass | Consolidated Power Supply | Heat # SX0512 | N/A | N/A | | 2005 | Replacement | No |
| 7. 8. | Description Tests Cond | _ | Replaced MO211 Hydrostatic Pressu | | Pneumatic | | vnstream of Norman | | X |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9. Remarks:

Replaced MO2112 and approximately 12" of 8" piping downstream of MO2112. Replacement was required due to FAC damage. Replacement materials and installing weld procedure were impact qualified design specification requirements. All welding was subject to final acceptance radiography and a system leak test (P07066). Spring can hanger, HLE-015-H-14, was removed & replaced during valve replacement and received a VT-3 exam (P07065) following installation.

| CERTIFICATE OF COMPLIANCE | | | | | | |
|---|--|--|--|--|--|--|
| We certify that the statements made in the | ne report are correct and this | | | | | |
| conforms to the rules of the ASME Code | e, Section XI. | (repair or replacement) | | | | |
| Type Code Symbol Stamp | None | | | | | |
| Certificate of Authorization No. | None | Expiration Date N/A | | | | |
| Signed Swift Owner or Owner | Program Engineering 's Designee, Title | Date April 27 th , 2007 | | | | |
| CERTIFICATE OF INSERVICE 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 Iowa and employed by HSB CT | | | | | | |
| of Hartford, Conduring the period | n. ha to S- | ve inspected the components described in this Owner's Report , and state that to the best of | | | | |
| my knowledge and belief, the Owner has accordance with the requirements of the | s performed examinations at ASME Code, Section XI. | nd taken corrective measures described in this Owner's Report in | | | | |
| 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 Owner's 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. | | | | | | |
| | Commissions NB | 13324AN = 1496 IA | | | | |
| Inspector's Signature | Nationa | l Board, State, Province, and Endorsements | | | | |
| Date <u>5-8</u> | , 2007 | | | | | |

| 1. Owners <u>FPL Energy Dua</u> Name | | | Duane Arnold LLC | | Date _ | 05/ | 10/07 | <u>.</u> , | · | |
|---|--|---------------------------------|---|-----------------------|--|---|------------------------|--|---|--|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | | Sheet _ | 1 | of | 2 | | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | 1 | | | | |
| | 3277 DAE | C Road, Palo, IA Addre | | | | 37217 & 113 ganization to | 7218 P. O. No., Job | No., etc. | | |
| 3.4. | Name 3277 DAEC Road, Palo, IA 52324 | | | | Authoriza Expiratior n Recirculation | Type Code Symbol Stamp Authorization No. Expiration Date Recirculation & Main Steam pipe clamps (Class 1) | | | | |
| 6. | (b) Applic | | on Code ANS Section XI Utilized ants Repaired or Re | | | | Adden | ida N/A | Code Case. | |
| . 1 | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Iden | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) | |
| QR00 on Re | ic monitor 05 mounted circ pipe on "B" loop | Bergen Paterson (pipe clamp) | N/A | N/A | QR00 | | Unknown | Repaired | No · | |
| Seism QR00 on Ma | ic monitor 06 mounted ain Steam ipe clamp | Bergen Paterson (pipe clamp) | N/A | N/A | QR00 | 006 | Unknown | Repaired | No . | |
| 7. | Description | n of Work: | Welded seismic n | | ing plate to cla | ss 1 pipe cla | mps (scope of R | /R Activity is I | imited to | |
| 8. Tests Conducted: | | | Hydrostatic | | Pneumatic | <u> </u> | Nominal Operat | ing Pressure | | |
| | | Other | Pressu | re <u>N/A</u> | A psi | Test Temp | N/A | ° F | | |
| NOT | Tr. Complem | antal abasta in f | Same of lists alsotal | | | | l) sign in 91/2 in | 11 in (2) in | £ 4: | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks: | Welded seismic monitor mounting plates to class 1 pipe clamps ("B" Recirc riser & "B" Main Steam Line). The | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | scope of R/R Activity is limited to welding to pipe clamp. The seismic monitor 1/4" mounting plate is compatible material (A-36). The completed welding was found acceptable via visual inspection. | | | | | | | |
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| : | | | | | | | | |
| | CERTIFICATE OF COMPLIANCE | | | | | | | |
| We certify that the st | atements made in the report are correct and this Repair Repair | | | | | | | |
| | (repair or replacement) s of the ASME Code, Section XI. | | | | | | | |
| Type Code Symbol S | stamp None | | | | | | | |
| Certificate of Author | ization No. None Expiration Date N/A | | | | | | | |
| Signed Su | Owner or Owner's Designee, Title May 10 th , 2007 | | | | | | | |
| | Owner of Owner's Designee, The | | | | | | | |
| | | | | | | | | |
| | CERTIFICATE OF INSERVICE INSPECTION | | | | | | | |
| I, the undersigned, ho the State or Province | olding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and of Iowa and employed by HSB CT | | | | | | | |
| of | Hartford, Conn. have inspected the components described in this Owner's Report | | | | | | | |
| during the period | 13-33-06 to $5-35-67$, and state that to the best of | | | | | | | |
| | elief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in requirements of the ASME Code, Section XI. | | | | | | | |
| examinations and cor | icate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the rective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. | | | | | | | |
| JBC | Commissions NB 12329ANI, 1496 IA | | | | | | | |
| Inspector's S | | | | | | | | |
| Date 5-25 | , 2007 | | | | | | | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | Date | 05/1 | 7/07 | | | |
|----------|---|--------------------------------------|--|-----------------------|----------------------------|---|----------------|--|---|
| | P.O. Box | 14000 Juno Beac Addre | h, FL 33408-0420 ess | | Sheet | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | | | Unit | 11 | | | |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | PWO 1136 | 891 | | | |
| | Address | | | | | | P. O. No., Job | No., etc. | |
| 3. | Name 3277 DAEC Road, Palo, IA 52324 | | | | Authorizati | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | |
| 4. 5. | | ion of System: cable Construction | | Below) | 19 | Edition | Adden | nda | Code Case. |
| 6. | (b) Applie | cable Edition of | or sizing pressure pressure pressure pressure pressure pressure states and series are supported on the pressure | I for Repairs o | r Replacements | 2001 <u>-A03</u> | Code [1968] S | Section III, Clas | |
| C | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identi Work Order | | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | rc Seal nbly for 1A | Byron Jackson | S/N: 741 S 2741 (seal flange) S/N: RS162499 (seal assembly) | N/A | PWO 113689 | | 1971 | Replacement | No |
| | | | | | | | | | |
| 7. | Description | n of Work: | Replaced seal ass | embly on reci | rc pump 1P201/ | Α. | | | |
| 8. | Tests Cond | ducted: | Hydrostatic | | Pneumatic | N | ominal Operat | ing Pressure | X |
| | | Other | Pressu | re101 | 0 psi | Test Temp | 225.9 | °F | |
| | | | | | | | | | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| • | | |
|---------------------------------------|---|---|
| 9. Remarks: | | ecirc pump 1P201A. This recirc seal flange was removed |
| | from 1P201B during RFO18. Mechanical seals were r | replaced on this seal assembly prior to installation. No |
| | | nild. A VT-3 (P06009) was completed on seal flange prior |
| | | The installed seal flange was subjected to a pressure test |
| | during the Class 1 leak test. | |
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| | CERTIFICATE OF COMPLIAN | NCE |
| TTT | de to the arm and are compact and this | D 1 |
| We certify that the si | | Replacement (repair or replacement) |
| conforms to the rule | es of the ASME Code, Section XI. | (repair of replacement) |
| Comornio to me rure. | 5 01 the Advil Code, Section 21. | |
| Type Code Symbol S | Stamp None | |
| Certificate of Author | orization No. None Expira | ation Date N/A |
| 1 | An / 1 | a. |
| Signed Acc | Program Engineering Date | May 17 th , 2007 |
| | Owner or Owner's Designee, Title | |
| · | | |
| · · · · · · · · · · · · · · · · · · · | | |
| | OPPOSICATE OF INCEDMC | T THOREOTHORI |
| | CERTIFICATE OF INSERVICE | EINSPECTION |
| I the undersigned, h | holding a valid commission issued by the National Board | of Boiler and Pressure Vessel Inspectors and |
| the State or Province | | nployed by HSB CT |
| of | · · · · · · · · · · · · · · · · · · · | cted the components described in this Owner's Report |
| during the period | 7-7-06 to 5-18.0 | , and state that to the best of |
| | belief, the Owner has performed examinations and taken | corrective measures described in this Owner's Report in |
| accordance with the | requirements of the ASME Code, Section XI. | |
| Decision this portif | to the International big application makes any | · · · · · · · · · · · · · · · · · · · |
| By signing this certifications and co | ificate neither the Inspector nor his employer makes any vergetive measures described in this Owner's Report. Fur | warranty, expressed or implied, concerning the rthermore, neither the Inspector nor his employer shall be |
| liable in any manner | r for any personal injury or property damage or a loss of a | any kind arising from or connected with this inspection. |
| nation in any manner | for any personal rightly or property sammage of a rest | any kind dribing from or connected and |
| <u> </u> | | 379ANI, 1496 IA |
| Inspector's | Signature National Board, | State, Province, and Endorsements |

Date

| | FPL Energy I Name | Duane Arnold LLC | | Date | 05/18/07 | | | |
|---|---|---|------------------------------------|---|-------------------------------|--|---|--|
| P.O. Box | 14000 Juno Beac Addr | ch, FL 33408-0420 ess | | Sheet | 1 of | 2 | <u>: : : : : : : : : : : : : : : : : : : </u> | |
| 2. Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | | |
| 3277 DAEC Road, Palo, IA 52324 Address | | | | CWO A73336 Repair Organization to P. O. No., Job No., etc. | | | | |
| 3277 DA | formed by <u>FPL E</u> Name EC Road, Palo, Lotion of System: | | (Class 2) | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | | |
| 5. (a) Appli (b) Appl | cable Construction of | on Code ANS Section XI Utilized | I B31.1 I for Repairs or | 19 67 Edition Replacements 2001-A | .03 | Idenda N/A | Code Case. | |
| o. Identifica | tion of compone | its repaired of rec | placed and rep | accinent Components | | | | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Bui | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or | |
| Component Main Steam Stop Valve Seat Drain | 1 | 1 | | Other Identification Work Order / SUS A73336 / 83.02 | Year Bui | Replaced, or | Code Stamped | |
| Component Main Steam Stop | Manufacturer | Serial No. | Board No. | Work Order / SUS | | Replaced, or Replacement | Code Stamped (YES or NO) | |
| Main Steam Stop Valve Seat Drain Valve, MO1098 2" Sch 160 Pipe, SA-106 Gr "B" | Manufacturer Flowserve Energy Process | Serial No. 61BHF Heat #: 151234 | Board No. N/A N/A MO1098, and a | Work Order / SUS A73336 / 83.02 | 1999 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) No | |
| Main Steam Stop Valve Seat Drain Valve, MO1098 2" Sch 160 Pipe, SA-106 Gr "B" | Manufacturer Flowserve Energy Process Corp. on of Work: | Serial No. 61BHF Heat #: 151234 Replaced valve, M | N/A N/A MO1098, and a coundary. | Work Order / SUS A73336 / 83.02 A73336 / 83.02 | 2007 1999 downstream 2" | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) No | |
| Main Steam Stop Valve Seat Drain Valve, MO1098 2" Sch 160 Pipe, | Manufacturer Flowserve Energy Process | Serial No. | Board No. | Work Order / SUS A73336 / 83.02 | 2007 | Replaced, or Replacement | Sta (YI | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks: | | | | | wnstream of MO1098. O | |
|-----------------------|---------------------------------------|---|---------------|--------------------------------|---|-----------------|
| | piping and the val VT-2. | ve are located in the | : ISI boundar | y. Replacement was | s subject to a system oper | ating pressure |
| | <u>V 1-2.</u> | | | | | |
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| | 2. 4 | | | | | |
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| | • | CERTIFICATE | OF COMP | LIANCE | | |
| Wa | · · · · · · · · · · · · · · · · · · · | 1 | ما طه است | D le comont | | |
| We certify that the s | statements made in i | he report are correc | t and this | Replacement (repair or replace | | |
| conforms to the rule | es of the ASME Cod | le. Section XI. | , | (repair or replace | ement) | |
| | | , | | | | |
| Type Code Symbol | Stamp | None | | | | |
| Certificate of Author | wigation No | None | E. | xpiration Date | N/A | 5 |
| Certificate of Author | Tization No. | / | | tpitation Date | IN/A | |
| Signed A | CIM Ins | W−Program Engi | ineering Da | ate May 18 th , | 2007 | 4 |
| - | Owner or Owne | r's Designee, Title | | | | |
| | | = | · | | | • |
| | - | | | | | ****** |
| | | CEPTIFICATE | OF INCERV | VICE INSPECTION | AT | |
| | | CERTIFICATE | Or mode. | VICE INSLECTION | • | |
| | | nission issued by th | | | ressure Vessel Inspectors | and |
| the State or Province | e of | Iowa | ar | nd employed by I | HSB CT | |
| of | Hartford, Con | | | | ents described in this Own | |
| during the period | 8-11-06 | to | 5 - 19 | lean corrective mass | , and state that to ures described in this Ow | the best of |
| accordance with the | requirements of the | ASME Code, Secti | ianons and a | iken corrective measi | ires described in this Ow | ner's Report in |
| | | | | | | • |
| | | | | | sed or implied, concernin | |
| | | | | | er the Inspector nor his en | |
| nable in any manner | for any personal in | jury or property dan | nage or a los | s of any kind arising | from or connected with the | ais inspection. |
| SIL | | Commissions | NB 12 | ard, State, Province, | 1496 -19 | • |
| Inspector's | Signature | _ | National Bo | ard, State, Province, | and Endorsements | |
| Date 5 | -18 | , 2007 | | | | |
| Dan | 17) | , 4007 | | | | |

| Owners FPL Energy Duane Arnold LLC Name | | | | Date | 05/ | 18/07 | | |
|---|---|--|---|---|--|---|--|--|
| P.O. Box 1 | | | <u></u> | Sheet | 1 | of | 2 | · · · · · · · · · · · · · · · · · · · |
| Plant | | | | Unit | 1 | | | |
| 3277 DAE | C Road, Palo, L | A 52324 | | CWO A | 76827 | • | ii. | • |
| Address | | | | Repair O | rganization to | P. O. No., Job | No., etc. | |
| Work Performed by FPL Energy Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Reactor Recirc (Class 1) | | | | Authoriz | ation No. | Nor | ne | |
| | • | | | 19 | Edition | Adden | Addenda | |
| (b) Applic | able Edition of | Section XI Utilized | for Repairs of | or Replacemen | its 2001 <u>-A03</u> | 1 Code [1968] S | ection III, Class | <u>s C.</u> |
| Name of | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ide | ntification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| ibly for | Byron Jackson | S/N: 691S1005 (seal flange) | N/A | CWO A76 | 827 / 64.01 | 1971 | Replacement | No |
| c Flange Cap | Energy & Process Corp. | Heat #: 8991820 | N/A | CWO A76 | 827 / 64.01 | 2002 | Replacement | No |
| Description | n of Work: | Replaced seal asso | embly and fla | | | | | |
| Tests Cond | lucted: | Hydrostatic | | Pneumatic | | Nominal Operati | ing Pressure | X |
| | Other | Pressur | re101 | 0 psi | Test Temp | 225.9 | ° F | |
| 1 | P.O. Box 1 Plant 3277 DAE Work Performance 3277 DAE Identificati (a) Applic Draft ASM N9, N10 + (b) Applic Identificati Name of component To Seal mibly for the Flange Cap ws Description | P.O. Box 14000 Juno Beach Address Plant Duane Arnold Name 3277 DAEC Road, Palo, Language Address Work Performed by FPL Englie Name 3277 DAEC Road, Palo, Language Agency Palo, Language Agency Palo, Language Agency Palo, Language Agency Palo, Name of Component Name of Manufacturer To Seal Byron Jackson Process Corp. Description of Work: Tests Conducted: | P.O. Box 14000 Juno Beach, FL 33408-0420 Address Plant Duane Arnold Energy Center Name 3277 DAEC Road, Palo, IA 52324 Address Work Performed by FPL Energy Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Reactor Rec (a) Applicable Construction Code (See) Draft ASME Code for Pumps and Valves for N9, N10 + Design Guide for sizing pressure p (b) Applicable Edition of Section XI Utilized Identification of Components Repaired or Rep Name of Manufacturer Serial No. The Seal Byron Jackson S/N: 691S1005 (seal flange) In Process Corp. Description of Work: Replaced seal asset Tests Conducted: Hydrostatic | P.O. Box 14000 Juno Beach, FL 33408-0420 Address Plant Duane Arnold Energy Center Name 3277 DAEC Road, Palo, IA 52324 Address Work Performed by FPL Energy Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Reactor Recirc (Class 1) (a) Applicable Construction Code (See Below) Draft ASME Code for Pumps and Valves for Nuclear Power N9, N10 + Design Guide for sizing pressure parts in ASME (b) Applicable Edition of Section X1 Utilized for Repairs of Identification of Components Repaired or Replaced and Reformation of Manufacturer Serial No. Identification of Components Repaired or Replaced and Reformation of Section Serial No. Name of Manufacturer Serial No. National Board No. Re Seal Byron Jackson S/N: 691S1005 (Seal flange) The Flange Cap Energy & Heat #: 8991820 N/A Process Corp. Description of Work: Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. Replaced seal assembly and flated the Serial No. | P.O. Box 14000 Juno Beach, FL 33408-0420 Address Plant Duane Arnold Energy Center Unit Name 3277 DAEC Road, Palo, IA 52324 Address Repair O Work Performed by FPL Energy Name Authoriz 3277 DAEC Road, Palo, IA 52324 Identification of System: Reactor Recirc (Class 1) (a) Applicable Construction Code (See Below) Draft ASME Code for Pumps and Valves for Nuclear Power or NDE and N9, N10 + Design Guide for sizing pressure parts in ASME Boiler and P (b) Applicable Edition of Section XI Utilized for Repairs or Replacement Identification of Components Repaired or Replaced and Replacement Co Name of Name of Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Sepaired or Replaced and Replacement Co Name of Name of Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Sepaired Or Replaced and Replacement Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer Serial No. National Board No. Work Or Component Manufacturer No. National Replacement Component Manufacturer No. National Replacement Component Manufacturer No. National Replacement Component No. National Replacement Component No. National Replacement Component No. National Re | P.O. Box 14000 Juno Beach, FL 33408-0420 Sheet 1 Address Plant Duane Arnold Energy Center Unit 1 Name 3277 DAEC Road, Palo, IA 52324 CWO A76827 Address Repair Organization to Address Repair Organization to Code Symbol St. Authorization No. Expiration Date Identification of System: Reactor Recirc (Class 1) (a) Applicable Construction Code (See Below) 19 Edition Draft ASME Code for Pumps and Valves for Nuclear Power or NDE and acceptance r. N9, N10 + Design Guide for sizing pressure parts in ASME Boiler and Pressure Vesse (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001-A03 Identification of Components Repaired or Replaced and Replacement Components Name of Manufacturer Serial No. Name of Manufacturer Serial No. Now Coder / SUS To Seal Byron Jackson S/N: 691S1005 N/A CWO A76827 / 64.01 The Flange Cap Energy & Heat #: 8991820 N/A CWO A76827 / 64.01 Description of Work: Replaced seal assembly and flange cap screws on recirc put Tests Conducted: Hydrostatic Pneumatic 1 | Name P.O. Box 14000 Juno Beach, FL 33408-0420 Address Plant Duane Arnold Energy Center Name 3277 DAEC Road, Palo, IA 52324 Address Work Performed by FPL Energy Name Authorization No. Identification of System: (a) Applicable Construction Code (See Below) Draft ASME Code for Pumps and Valves for Nuclear Power or NDE and acceptance requirements of N9, N10 + Design Guide for sizing pressure parts in ASME Boiler and Pressure Vessel Code [1968] S (b) Applicable Edition of Section X1 Utilized for Repairs or Replacements 2001-A03 Identification of Components Repaired or Replaced and Replacement Components Name of Manufacturer Serial No. Manufacturer Serial No. Manufacturer Serial No. Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Name of Manufacturer Serial Rose Replaced and Replacement Components Name of Manufacturer Serial Rose Replaced and Replacement Components Rose Seal Byron Jackson (seal flange) Rose Seal Rose Serial Rose Replaced seal assembly and flange cap screws on recirc pump 1P201B. Tests Conducted: Hydrostatic Pneumatic Nominal Operative Rose Screy Replaced Seal assembly and flange cap screws on recirc pump 1P201B. | Name P.O. Box 14000 Juno Beach, FL 33408-0420 Sheet 1 of 2 |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| • | FORM NIS-2 (Back) | | | | | | |
|---------------------|---|--|--|--|--|--|--|
| 9. Remarks: | Recirc seal flange S/N: 691S1005 was installed on recirc pump 1P201B. This recirc seal flange was removed from 1P201A during RFO20. Mechanical seals were replaced on this seal assembly prior to installation. No repair activities occurred during the seal cartridge rebuild. All 16 seal flange cap screws were replaced during seal cartridge installation. A VT-3 (P07093) examination was completed on seal flange prior to installation. Cap screws received a VT-1 examination during receipt inspection. The installed seal flange was subjected to a pressure test during the Class 1 leak test. | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | CERTIFICATE OF COMPLIANCE | | | | | | |
| · | | | | | | | |
| | | | | | | | |
| | CERTIFICATE OF INSERVICE INSPECTION nolding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and e of Iowa and employed by HSB CT | | | | | | |
| of | Hartford, Conn. have inspected the components described in this Owner's Report | | | | | | |
| , , , | belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in requirements of the ASME Code, Section XI. | | | | | | |
| examinations and co | ificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the orrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be r for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. | | | | | | |
| 236 | Commissions NB 12329A~ I, 1496 I | | | | | | |
| Inspector's | | | | | | | |

, 2007

Date

| 1. | Owners | FPL Energy I Name | Duane Arnold LLC | | Date 0: | 5/21/07 | <u> </u> | · . |
|--------------------------------|--|---|---|---|--|---|--|---|
| | P.O. Box 1 | | ch, FL 33408-0420 | | Sheet 1 | of | 2 | · · |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit 1 | 11. | | ·. |
| | 3277 DAE | C Road, Palo, I | A 52324 | | PWO 1134947 | | • • • • | |
| | Address | | | | Repair Organization | to P. O. No., Job | No., etc. | |
| 3. | | ormed by <u>FPL E</u> Name | | | Type Code Symbol S Authorization No. | No | ne | |
| 4. | | C Road, Palo, In on of System: | | Safety Relief | Expiration Date Valve (Class 1) | No | ne | |
| 5. | | able Construction | | IE, III | 19 68 Edition | W68 Adde | nda N/A | Code Case. |
| | (b) Applic | able Edition of | Section XI Utilized | l for Repairs or | Replacements 2001-A03 | 3 | | |
| 6. | Identificati | on of Componer | nts Repaired or Re | placed and Rep | lacement Components | | • • | • |
| | | | | | | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| √ain | Steam Relief | | Manufacturer | National | Other Identification | Year Built | Replaced, or | Code Stamped (YES or |
| Main Valve Body | omponent | Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main Valve Body | Steam Relief e Pilot | Manufacturer Target Rock | Manufacturer Serial No. S/N 226 Heat #: M72321 | National Board No. | Other Identification Work Order/SUS PWO 1134947 / 83.04 | 1976 | Replaced, or Replacement | Code Stamped (YES or NO) Yes |
| Vain Valve | Steam Relief e Pilot | Manufacturer Target Rock Allied Group | Manufacturer Serial No. S/N 226 Heat #: M72321 H843 | National Board No. N/A N/A | Other Identification Work Order/SUS PWO 1134947 / 83.04 | 1976 1999 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No |
| √ain Valve Body Bolti | Steam Relief e Pilotto-Pilot ng (one bolt) | Manufacturer Target Rock Allied Group of Work: | Manufacturer Serial No. S/N 226 Heat #: M72321 H843 | National Board No. N/A N/A | Other Identification Work Order/SUS PWO 1134947 / 83.04 N/A | 1976 1999 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No |
| Aain Valve Body Boltii | Steam Relief e Pilot r-to-Pilot ng (one bolt) Description | Manufacturer Target Rock Allied Group of Work: | Manufacturer Serial No. S/N 226 Heat #: M72321 H843 Replace pilot on I | National Board No. N/A N/A PSV4401 with | Other Identification Work Order/SUS PWO 1134947 / 83.04 N/A rebuilt tested spare pilot, | 1976 1999 S/N 226 (replace Nominal Opera | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Pilot Valve S/N 201 was removed and pilot valve S/N 226 was installed. Prior to installation S/N 226 was |
|----|----------|---|
| | | repaired and documented on NIS-2 (20-06-12). One mounting bolt was replaced during the installation of pilo |
| | | S/N 226 (VT-1 was performed on replacement bolt during receipt inspection). A VT-2 was completed on the |

mechanical connection and found acceptable during Class 1 leak test.

CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this Replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp Expiration Date N/A Certificate of Authorization No. None Program Engineering Date May 21st, Signed Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and Iowa and employed by HSB CT the State or Province of have inspected the components described in this Owner's Report of Hartford, Conn. $5^{\circ} \partial / - o ?$, and state that to the best of during the period 9-8-06 to my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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 1339 ANT 1496 IA
National Board, State, Province, and Endorsements Commissions Inspector's Signature 5-21 ,2007

| 1. | Owners | FPL Energy D Name | Ouane Arnold LLC | | Date | 05/2 | 1/07 | | |
|---------------|---|---------------------------------------|---|---|---|---|----------------|--|--|
| | P.O. Box 1 | 4000 Juno Beac Addre | h, FL 33408-0420 ess | · | Sheet | 1 | of | 2 | · |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit | 1 | | | |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | PWO 11349 | 52 | | | |
| | | Addre | | | | | P. O. No., Job | No., etc. | |
| 3. | Work Perf | ormed by FPL E | nergy | | Type Code S | Symbol Star | mp Nor | ne | |
| | Name | | | Authorization No. None | | | | | |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | Expiration Date None | | | | |
| 4. | Identificati | ion of System: | Main Steam | n Safety Relief | Valve (Class 1) | | •. | | |
| 5. | (a) Applic | able Construction | n Code ASM | IE, III | 19 68 | Edition | W68 Adden | ida N/A | Code Case. |
| | (b) Applic | able Edition of | Section XI Utilized | for Repairs or | Replacements 2 | 2001-A03 | • | | |
| | | | | | | | | | |
| | | | | | | | • | | |
| 6 | Identificati | | nts Repaired or Re | | | | | · · · | 1 |
| | Identificati Name of omponent | | | | olacement Comp | onents | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or |
| Main | Name of | on of Componer | nts Repaired or Re Manufacturer | placed and Rep | lacement Comp | onents ication | Year Built | Replaced, or | Code Stamped |
| Main | Name of omponent Steam Relief | On of Componer Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | placed and Rep National Board No. | Other Identifi Work Order | onents ication | | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main | Name of omponent Steam Relief | On of Componer Name of Manufacturer | Manufacturer Serial No. | placed and Rep National Board No. | Other Identifi Work Order | onents ication | | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main | Name of omponent Steam Relief Pilot | On of Componer Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identifi Work Order/ PWO 1134952 | ication /SUS / 83.04 | 1976 | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main Valve | Name of omponent Steam Relief Pilot | Name of Manufacturer Target Rock | Manufacturer Serial No. | National Board No. N/A | Other Identifi Work Order/ PWO 1134952 | onents ication /SUS / 83.04 are pilot, S/ | 1976 | Replaced, or Replacement Replacement | Code Stamped (YES or NO) |
| Main Valve | Name of omponent Steam Relief Pilot Description | Name of Manufacturer Target Rock | Manufacturer Serial No. S/N 203 Replace pilot on Hydrostatic | National Board No. N/A PSV4406 with | Other Identifi Work Order/ PWO 1134952 rebuilt tested spa | onents ication /SUS / 83.04 are pilot, S/ | 1976 N 203. | Replaced, or Replacement Replacement | Code Stamped (YES or NO) Yes |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. Remarks | repaired and do | 227 was removed and cumented on NIS-2 (20 e during Class 1 leak to | -06-10). A V | N 203 was installed T-2 was completed | . Prior to insta l on the mechan | llation S/N 203 was nical connection and | <u>3</u> <u>d</u> |
|---|-----------------------|--|----------------|--|-------------------------------------|---|----------------------|
| | | | | | | | |
| | | | | | | | |
| | | CERTIFICATE (| OF COMPLIA | ANCE | | | |
| - | ne statements made in | ode, Section XI. | and this | Replacement (repair or replace | ment) | | |
| Type Code Syml | ool Stamp | None | | · | | | |
| Certificate of Au | thorization No. | None | Expi | ration Date | N/A | | |
| Signed | Owner or Ow | Program Engin ner's Designee, Title | neering Date | May 21 st , | | 2007 | |
| ; | | CERTIFICATE (| OF INSERVI | CE INSPECTION | : ' | | |
| I, the undersigned the State or Prov | | nmission issued by the Iowa | and o | employed by H | SB CT | | |
| | nd belief, the Owner | | tions and take | 1-67 | , and sta | n this Owner's Repo ate that to the best on this Owner's Repo | of |
| examinations and | d corrective measures | Inspector nor his emplo described in this Own injury or property dam | er's Report. F | urthermore, neither | the Inspector | nor his employer sh | |
| <u> 130</u> | or's Signature | Commissions | NB 12 | 329AN = 1 I, State, Province, a | 1496 -7 | nta | |
| mspecto | n s signature | 1 | national board | i, Siale, Floville, a | ma Endorseme | 1115 | |

| 1. | Owners | FPL Energy I Name | Duane Arnold LLC | · · · | Date0 | 5/21/07 | | |
|----------|---|-------------------------------------|----------------------------|---------------------------------------|--|---------------------------------------|--|---|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | · · · · · · · · · · · · · · · · · · · | Sheet 1 | of | 2 | · |
| 2. | Plant | Duane Arnold Name | Energy Center | · | Unit 1 | · · · · · · · · · · · · · · · · · · · | | · |
| | 3277 DAE | C Road, Palo, IA | A 52324 | | PWO 1134953 | | | |
| | | Addr | | · · · · · · · · · · · · · · · · · · · | Repair Organization | to P. O. No., Job | No., etc. | |
| 3. | . Work Performed by <u>FPL Energy</u> Name | | | | Type Code Symbol S Authorization No. | Stamp Nor Nor | | |
| | | C Road, Palo, IA | | | Expiration Date None | | | |
| 4. 5. | | ion of System: able Construction | | | Valve (Class 1) 19 68 Edition | W68 Adder | nda N/A | Code Case. |
| ٥. | . , | | | | Replacements 2001-A0 | | iua IN/A | Code Case. |
| 6. | . , | | | | lacement Components | <u>~</u> | · | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| | Steam Relief Pilot | Target Rock | S/N 202 | N/A | PWO 1134953 / 83.04 | 1976 | Replacement | Yes |
| Body- | to-Pilot ig (one bolt) | Nova | Heat Code#: DMH | N/A | N/A | 1996 | Replacement | . No |
| 7. | Description Tests Cond | - | Hydrostatic | | rebuilt tested spare pilot, Pneumatic psi Test Ten | Nominal Operat | | s bolt). |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Pilot Valve S/N 199 was removed and pilot valve S/N 202 was installed. Prior to installation S/N 202 was |
|----|----------|--|
| | | repaired and documented on NIS-2 (20-06-09). One mounting bolt was replaced during the installation of pilot |
| | | S/N 202 (VT-1 was performed on replacement bolt during receipt inspection). A VT-2 was completed on the |

mechanical connection and found acceptable during Class 1 leak test.

| CERTIFICATE OF COMPLIANCE | E |
|--|--|
| , | lacement |
| (rep conforms to the rules of the ASME Code, Section XI. | pair or replacement) |
| Type Code Symbol Stamp None | |
| Certificate of Authorization No. None Expiration | Date N/A |
| Signed Sublimed Program Engineering Date M Owner or Owner's Designee, Title | 1ay 21 st , 2007 |
| | |
| CERTIFICATE OF INSERVICE IN | |
| I, the undersigned, holding a valid commission issued by the National Board of E the State or Province of Iowa and employed | |
| of Hartford, Conn. have inspected | the components described in this Owner's Report , and state that to the best of rective measures described in this Owner's Report in |
| By signing this certificate neither the Inspector nor his employer makes any warre examinations and corrective measures described in this Owner's Report. Further liable in any manner for any personal injury or property damage or a loss of any l | rmore, neither the Inspector nor his employer shall be |
| Inspector's Signature Commissions NB 1333 9AN National Board, State | e, Province, and Endorsements |
| Date | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | | Date 05 | 5/21/07 | · · · · · · · · · · · · · · · · · · · | |
|---|---|--|--|--|---|--|--|--|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | | Sheet 1 | of | . 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit 1 | | <u>:</u> | |
| | 3277 DAE | C Road, Palo, L Addr | | · | PWO 1134946 & 113 Repair Organization (| | No., etc. | |
| 3. 4. | Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Main Steam Safety Rel | | | | Type Code Symbol S Authorization No. Expiration Date | tamp No | ne | |
| 5. | | | | | 19 68 Edition | | nda N/A | Code Case. |
| | | | and the second s | - | | | | |
| | Identificati Name of Component | Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or |
| Main | Name of Component | Name of | Manufacturer | National | | Year Built | Replaced, or | Code Stamped |
| Main Valv Mair | Name of Component Steam Relief e Pilot Steam Relief | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main Valv Main Main Body | Name of Component I Steam Relief e Pilot | Name of Manufacturer Target Rock | Manufacturer Serial No. S/N 218 | National Board No. | Other Identification Work Order/SUS PWO 1134946 / 83.04 | 1976 | Replaced, or Replacement | Code Stamped (YES or NO) Yes |
| Main Valv Main Main Body | Name of Component Steam Relief e Pilot Steam Relief Body 7-to-Pilot | Name of Manufacturer Target Rock Target Rock Allied Group | Manufacturer Serial No. S/N 218 S/N 200 Heat #: M72321 H843 | National Board No. N/A N/A N/A | Other Identification Work Order/SUS PWO 1134946 / 83.04 PWO 1135063 / 83.04 N/A SV4400 with rebuilt teste | 1976 1976 1999 | Replaced, or Replacement Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No |
| Main Valv Main Main Body Bolti | Name of Component Steam Relief e Pilot steam Relief Body (-to-Pilot ng (one bolt) | Name of Manufacturer Target Rock Target Rock Allied Group | Manufacturer Serial No. S/N 218 S/N 200 Heat #: M72321 H843 Replace pilot & n | National Board No. N/A N/A N/A nain body on P pilot mountin | Other Identification Work Order/SUS PWO 1134946 / 83.04 PWO 1135063 / 83.04 N/A SV4400 with rebuilt tested bolt). | 1976 1976 1999 | Replaced, or Replacement Replacement Replacement Replacement N 218, & main b | Code Stamped (YES or NO) Yes No |
| Main Valv Main Main Body Bolti | Name of Component Steam Relief e Pilot Steam Relief Body y-to-Pilot ng (one bolt) Description | Name of Manufacturer Target Rock Target Rock Allied Group | Manufacturer Serial No. S/N 218 S/N 200 Heat #: M72321 H843 Replace pilot & n 200 (replaced one Hydrostatic | National Board No. N/A N/A N/A N/A nain body on Perpilot mounting | Other Identification Work Order/SUS PWO 1134946 / 83.04 PWO 1135063 / 83.04 N/A SV4400 with rebuilt tested bolt). | 1976 1976 1999 ed spare pilot, S/ | Replaced, or Replacement Replacement Replacement Replacement N 218, & main b | Code Stamped (YES or NO) Yes No No |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

9. Remarks:

Pilot Valve S/N 207 & main body S/N 227 were removed and pilot valve S/N 218 & main body S/N 200 were installed. Prior to installation S/N 218 was repaired and documented on NIS-2 (20-06-11). No repair or replacement activities were performed on main body S/N 200 since its removal in 1998. One mounting bolt was replaced during the installation of pilot S/N 227 (VT-1 was performed on replacement bolt during receipt inspection). A VT-2 was completed on the mechanical connection and found acceptable during Class 1 leak test.

| uuuuuu | | | |
|--|---------------------------------|-----------------------------|--|
| | CERTIFICATE OF COM | MPLIANCE | |
| We certify that the statements made in | the report are correct and this | | |
| conforms to the rules of the ASME Coo | de, Section XI. | (repair or repla | .cement) |
| Type Code Symbol Stamp | None | | |
| Certificate of Authorization No. | None | Expiration Date | N/A |
| Signed Scott Trust | Program Engineering | Date May 21 st , | 2007 |
| Owner or Owner | er's Designee, Title | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| I, the undersigned, holding a valid com- the State or Province of | CERTIFICATE OF INSE | al Board of Boiler and I | • |
| of Hartford, Co. | nn. hav | | nents described in this Owner's Report |
| during the period 8-8-06 | to <u>5.9</u> | 1/-67 | , and state that to the best of |
| my knowledge and belief, the Owner has accordance with the requirements of the | as performed examinations and | d taken corrective mea | sures described in this Owner's Report in |
| | described in this Owner's Repo | ort. Furthermore, neith | essed or implied, concerning the her the Inspector nor his employer shall be g from or connected with this inspection. |
| 33 | Commissions NB 12 | 2329ANI, 1 | 496 IA |
| Inspector's Signature | National | Board, State, Province | , and Endorsements |
| Date5-21 | _ ,2007 | | |

| 1. Owners <u>FPL Energy I</u> Nam | | Duane Arnold LLC | | Date05/ | /21/07: | | | |
|--------------------------------------|---|--|--|--|---|------------------------------------|--|---|
| | P.O. Box 1 | | eh, FL 33408-0420 | <u></u> | Sheet1 | of | 2 | · |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit1 | · | · | · · · · · · · · · · · · · · · · · · · |
| | 3277 DAE | C Road, Palo, L | A 52324 | | PWO 1134951 & 113 | 5064 | , | |
| | Address | | | | Repair Organization to | P. O. No., Job | No., etc. | |
| 3. 4 | 3. Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 4. Identification of System: <u>Main Steam Safety Relief</u> | | | | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | |
| 5. | | able Construction | | IE, III | 19 68 Edition | W68 Adden | da N/A | Code Case. |
| | /1 \ A 1! - | 11 70 12.2 | ~ · | | | | | |
| 6. | | | | • | Replacements 2001-A03 lacement Components | .: | | • |
| | | | | • | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| C | Identificati Name of omponent Steam Relief | on of Compone | nts Repaired or Re | placed and Rep | lacement Components | Year Built | Replaced, or | Code - Stamped |
| Main Valve | Identificati Name of omponent Steam Relief Pilot Steam Relief | on of Compone Name of Manufacturer | nts Repaired or Re Manufacturer Serial No. | National Board No. | Other Identification Work Order/SUS | | Replaced, or Replacement | Code Stamped (YES or NO) |
| Main Valve | Identificati Name of omponent Steam Relief | on of Compone Name of Manufacturer Target Rock Target Rock | Manufacturer Serial No. S/N 141 S/N 141 | National Board No. | Other Identification Work Order/SUS PWO 1134951 / 83.04 | 1976 1976 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes |
| Main Valve Main Main | Identificati Name of omponent Steam Relief Pilot Steam Relief Body | on of Components Name of Manufacturer Target Rock Target Rock | Manufacturer Serial No. S/N 141 S/N 141 Replace pilot & n | National Board No. N/A N/A nain body on P | Other Identification Work Order/SUS PWO 1134951 / 83.04 PWO 1135064 / 83.04 SV4405 with rebuilt tested | 1976 1976 | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes |
| Main Valve Main Main | Identificati Name of omponent Steam Relief e Pilot Steam Relief Body Description | on of Components Name of Manufacturer Target Rock Target Rock | Manufacturer Serial No. S/N 141 S/N 141 Replace pilot & n 141. Hydrostatic | National Board No. N/A N/A nain body on P | Other Identification Work Order/SUS PWO 1134951 / 83.04 PWO 1135064 / 83.04 SV4405 with rebuilt tested | 1976 1976 d spare pilot, S/N | Replaced, or Replacement Replacement Replacement | Code Stamped (YES or NO) Yes No oody S/N |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

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|-----------|-------|---------|
| 9. | Dan | narks |
| 7. | IVCI. | כא נגוו |

Pilot Valve S/N 176 & main body S/N 203 were removed and pilot valve S/N 141 & main body S/N 141 were installed. Prior to installation pilot S/N 141 was repaired and documented on NIS-2 (20-06-08). No repair or replacement activities were performed on main body S/N 141 since its removal. A VT-2 was completed on the mechanical connection and found acceptable during Class 1 leak test.

| CERTIFICATE OF COMPLIANCE | | | | | | | | |
|--|--|---|---|-----------------------------|--|--|--|--|
| We certify that the statements made in | the report are correct and this | Replacement | | | | | | |
| conforms to the rules of the ASME Coo | le Section XI | (repair or replac | ement) | | | | | |
| contoning to the rules of the ASME Coc | ie, Section XI. | • | | | | | | |
| Type Code Symbol Stamp | None | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Certificate of Authorization No. | None | Expiration Date | N/A | | | | | |
| | Program Engineering | Date May 21 st , | 2007 | | | | | |
| Owner or Owner | er's Designee, Title | | | | | | | |
| | , | | | | | | | |
| I, the undersigned, holding a valid commented the State or Province of Hartford, Conduring the period Repeated the Owner has accordance with the requirements of the | Iowa nn. have to 5 as performed examinations and | Board of Boiler and Prand employed byI e inspected the componer | ressure Vessel Inspectors HSB CT ents described in this Ow, and state that to | vner's Report o the best of | | | | |
| By signing this certificate neither the In examinations and corrective measures of liable in any manner for any personal in Inspector's Signature | lescribed in this Owner's Repo jury or property damage or a | ort. Furthermore, neithe | er the Inspector nor his en from or connected with | mployer shall be | | | | |
| Date 5-01 | _ , 2007 | | | | | | | |

Date

FPL Energy Duane Arnold LLC

| | | Name | • | | | | | | |
|--------------|--|-------------------------|----------------------------|-----------------------|---------------------|--|--------------------|--|---|
| | P.O. Box | 4000 Juno Beac | h, FL 33408-0420 | | · Sheet | 1 | of | 2 | |
| 2. | Plant | | Energy Center | | Unit _ | 1 | | | |
| | 3277 DAEC Road, Palo, IA 52324 Address | | | | | 2287 ganization to | P. O. No., Job | No., etc. | |
| 3. | Work Performed by <u>FPL Energy</u> | | | | | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | |
| 5. | (a) Applic | able Construction | n Code ANS | I B31.7 | 19 69 | Edition | 70 Adder | nda N/A | Code Case. |
| 6. | | | Section XI Utilized | | | | | | |
| 11 | Name of Component | Name of Manufacturer | Manufacturer Scrial No. | National Board No. | Other Iden | tification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| iprir Rod | ng Can Hanger | Bergen Power | Part #: 93A | N/A | Hanger Rod DLA-5 | | 2007 | Replacement | No |
| 7. 8. | Description Tests Cond | lucted: | Replaced spring c | | Pneumatic | r | Nominal Operat | ing Pressure | |
| | | Other | Pressur | re <u>N/A</u> | nsi psi | Test Temp | N/A | <u>° F</u> | |
| | | | | | | | ţ | ۸ | |
| NO | TE: Supplen | nental sheets in f | orm of lists, sketch | es, or drawing | gs may be used | , provided (1 | l) size is 81/2 ir | n. x 11 in., (2);in | formation |

the top of this form.
(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, NY 10017.

in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at

| 9. Remarks: | 9. Remarks: Replaced 1.5" hanger rod on spring can hanger DLA-5-H-3. Original rod was too short and did not allow full thread engagement. Hanger was subject to a VT-3 examination (P07025) following completion of work. | | | | | | | |
|-----------------------|---|-------------------------------|--|--|--------------------|---|--|--|
| | | | | | | | | |
| | | • | | • • Abbs consiste | - | | | |
| | | | | | | | | |
| | | · | - <u></u> | | | | | |
| | | CERTIFICAT | E OF COM | IPLIANCE | | | | |
| We certify that the s | statements made in | the report are corr | ect and this | Replacement | | | | |
| C 4-41 1- | C.I. ACMERICA | · O · · · · · · · · · · · · · | | (repair or repla | cement) | · | | |
| conforms to the rule | s of the ASME Co | de, Section XI. | | | | | | |
| Type Code Symbol | Stamp | None | | | | | | |
| Certificate of Autho | rization No. | None | | Expiration Date | N/A | | | |
| Signed Le | MA our | UN Program Ei | ngineering | Date May 22nd, | | 2007 | | |
| 2.5 | Owner or Own | er's Designee, Titl | e | | | | | |
| | | | <u> </u> | A residence of the second seco | | · · · · · · · · · · · · · · · · · · · | | |
| | | AUV 18-15 | ************************************** | | | * **** | | |
| | | CERTIFICAT | E OF INSE | RVICE INSPECTIO | N | • | | |
| | | | | Board of Boiler and F | | spectors and | | |
| the State or Province | | Iowa | | and employed by | | | | |
| of | Hartford, Co | | | inspected the compor | | | | |
| during the period | 7-25-06 | to | inations and | 1 taken corrective mean | and sta , and sta | this Owner's Report in | | |
| accordance with the | | | | i taken concense mea. | sures described in | uns Owner's Report in | | |
| | • | | | | | | | |
| | | | | es any warranty, expre | | | | |
| | | | | | | or his employer shall be ed with this inspection. | | |
| | 101 any personari | illury or property o | _ | | | • | | |
| -131 | | Commissions | NB | 10309 AN F, Board, State, Province | 1490 I. | 4 | | |
| Inspector's | Signature | | National I | Board, State, Province | , and Endorsemen | nts | | |
| Date 5- | 23 | . 2007 | , | | | | | |

| 1. | Owners FPL Energy Duane Arnold LLC Name | Date | .05/29/07 | | | | |
|------------------------------------|---|--|---------------------|--------------|---------------------------------------|-----------|--|
| | P.O. Box 14000 Juno Beach, FL 33408-0420 Address | Sheet | 1 | of | 2 | · | |
| 2. | Plant Duane Arnold Energy Center Name | Unit | . 1 | | | | |
| | 3277 DAEC Road, Palo, IA 52324 Address | MWO 1137248 Repair Organization to P. O. No., Job No., etc. | | | | | |
| 3. 4. | Work Performed by <u>FPL Energy</u> Name 3277 DAEC Road, Palo, IA 52324 Identification of System: RHR Drywell Spray – SU | Authoriz Expiration | | None None | · · · · · · · · · · · · · · · · · · · | | |
| 5. | (a) Applicable Construction Code ANSI B31.7 (b) Applicable Edition of Section XI Utilized for Repairs on | 19 <u>69</u> | 9 Edition <u>71</u> | Addenda | 1425, 1426, & 1427 | Code Case | |

6. Identification of Components Repaired or Replaced and Replacement Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
|-------------------------------|-------------------------|--|-----------------------|---|------------|--|---|
| Spring Can Hanger | Bergen Power | Part #: VS4B | N/A | Replacement Spring Cans (QTY – 2) for hanger GLE-7-H-17 | 2007 | Replacement | No |
| Snubber | Lisega | SN: .305000547/001 & .305000547/003 | N/A | Newly Installed snubbers (QTY – 2) for locations GLE- 007-SS-001 & GLE-007-SS- 002 | 2007 | Replacement (new installation) | No |
| Yoke Clamps | Lisega | S/N: A1278-4 | N/A | Lisega Part#: 362761 (QTY-2) | 2007 | Replacement | No |
| Weld End Bracket | Lisega | S/N: A-3222-4 | N/A | Lisega Part#: 354953 (QTY-2) | 2007 | Replacement | No |
| Welded Beam Attachment | Bergen Power | N/A | N/A | Bergen Power Part#: k114278 (QTY-2) | 2006 | Replacement | No |
| 1" Weldless Eye Nut | Bergen Power | N/A | N/A | Bergen Power Part#: BP5130 (QTY-2) | 2006 | Replacement | No |
| 1" X 26" Hanger Rod | Cardinal | Heat #: 8070063 | N/A | SA-193 Grade B7 (QTY-1) | 1993 | Replacement | No |
| 1" X 8" Hanger Rod | Cardinal | Heat #: 8070063 | N/A | SA-193 Grade B7 (QTY-1) | 1993 | Replacement | No |
| 1" Hex Nut (SA- 194 Gr 2H) | Cardinal | Heat #: MX2374 | N/A | N/A | 1985 | Replacement | No |
| 1" Hex Nut (SA- 194 Gr 2H) | | Heat #:KB5607 | N/A | N/A | 1986 | Replacement | No |
| 1/2" Plate (A-36) | Dubose | Heat #: 1612940 | N/A | N/A | 2006 | Replacement | No |
| 4"X4"X1/4" Tube Steel | Dubose | Heat #: N623852 | N/A | Trace #: 27439-1 | 2007 | Replacement | No |

7. Description of Work:

Replaced spring can hanger, GLE-7-H-17, and installed two new snubbers, GLE-007-SS-001 & GLE-007-SS-002.

| 8. | Tests Conduct | ed: | Hydrostatic | Pneu | matic | Nominal Ope | erating Pressure | |
|--------|------------------------------------|----------------------------|---|-------------------------------------|-----------------------------------|---------------------------------------|---|-------------|
| | | Other | Pressure | N/A | psi Test 7 | Temp N/ | A °F | . ' _ |
| | | | | | | | | |
| in ite | ems 1 through 6 op of this form. | on this report | orm of lists, sketches, is included on each say be obtained from t | sheet, and (3) ea | ch sheet is number | ered and the num | ber of sheets is red | corded at |
| 9. | Remarks: | 002 as part of manufacture | ring can hanger, GLE of modification for drughted design of the design o | ywell penetratio d on page #1 on | n X039A. Snubt this NIS-2. The | er-to-building co | mponents were si | te |
| | | | | | | | | : . |
| | | | CERTIFICA de in the report are co E Code, Section XI. | TE OF COMP | Replacemen | nt eplacement) | | |
| | Code Symbol | • | None None | | | | | |
| Certi | ficate of Author | rization No. | None | | xpiration Date | N/A | | |
| Sign | ed <u>Se</u> | Owner or | Owner's Designee, T | Engineering Ditle | eate May 29th | · · · · · · · · · · · · · · · · · · · | 2007 | |
| | | | | | | | | |
| | • | | CERTIFICA | TE OF INSER | VICE INSPECT | TION | | |
| the S | undersigned, h tate or Province | of | commission issued b | a | nd employed by | HSB CT | | |
| . my k | | /-//- pelief, the Own | I, Conn. O7 to ner has performed exa of the ASME Code, S | aminations and t | 6.2-07 | , and | d in this Owner's a state that to the bed in this Owner's | est of |
| exam | inations and co | rrective meas | the Inspector nor his ourses described in this nal injury or property | Owner's Report | . Furthermore, n | either the Inspect | or nor his employ | er shall be |
| | BU | | Commissions | NB | 12379 AN | F, 1496 nce, and Endorse | Iq | |
| | Inspector's | • | | National Be | oard, State, Provi | nce, and Endorse | ments | |
| Date | l | o-7 | . 2007 | | | | | Ĺ |

| 1. | Owners FPL Energy Duane Arnold LLC Name | | | | Date _ | 05/2 | 5/07 | <u> </u> | |
|------------------------------------|--|-------------------------|-----------------------------------|-----------------------|------------------------------|---|--------------------------|--|---------------------------------------|
| | P.O. Box 1 | 4000 Juno Beac Addr | ch, FL 33408-0420 ess | | Sheet _ | 1 | of | 2 | |
| 2. | Plant | Duane Arnold Name | Energy Center | | Unit _ | 1 | | | <u> </u> |
| | 3277 DAEC Road, Palo, IA 52324 Address | | | | | 38808 from E ganization to | CP1814 P. O. No., Job | No., etc. | |
| 3. 4. | Name 3277 DAEC Road, Palo, IA 52324 | | | | Authoriza Expiration | Type Code Symbol Stamp Authorization No. Expiration Date None None | | | · · · · · · · · · · · · · · · · · · · |
| 5. | the state of the s | | | | <u>1969</u> | Edition ts 2001 <u>-A03</u> | Adden | nda | Code Case |
| 6. | Identificati | ion of Compone | nts Repaired or Re | placed and Re | placement Cor | nponents | | | |
| | Name of omponent | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Ider | ntification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| 2" U (Deta | bolt support il 1) | Bergen Patterson | Unknown | N/A | Detail 1 U b between CV10 | 064 and V03- | 1974 | Replaced (Removed) | No |
| 1" St (Deta | rap support il 2) | Bergen Patterson | Unknown | N/A | Detail 2 Strap of FO10 | | 1974 | Replaced (Removed) | . No |
| 7. | Description | n of Work: | Removed one 2" ECP1814. The su | | | | support (Detai | l 2) strap hanger | per |
| 8. | Tests Cond | lucted: | Hydrostatic | | Pneumatic | □ N | ominal Operat | ing Pressure | |
| | | Other | Pressu | re <u>N//</u> | A psi | Test Temp | N/A | °F | |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 81/2 in. x 11 in., (2) information in items 1 through 6 on this 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.

| 9. | Remarks: | Removed one 1" Strap support downstream of FO1064D and one 2" U bolt support between CV1064 and V0 | | |
|----|----------|---|--|--|
| | | 0319 on FSK-04951, as part of modification for ECP1814, Support Modification for Main Stream Drip Legs. | | |
| | | These supports were completely removed. No VT-3 was performed due to these lines being 1" and 2" class 2. | | |
| | - | | | |

| CERTIFICATE OF COMPLIANCE | | | | |
|---|---|--|--|--|
| We certify that the statements made in the report are correct and this | Replacement | | | |
| | (repair or replacement) | | | |
| conforms to the rules of the ASME Code, Section XI. | | | | |
| Type Code Symbol Stamp None | | | | |
| Certificate of Authorization No. None | Expiration Date N/A | | | |
| Signed Owner or Owner's Designee, Title | Date May 23rd, 2007 | | | |
| | · | | | |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Iowa and employed by HSB CT of Hartford, Conn. have inspected the components described in this Owner's Report during the period 3.8.07 to 5.05.07, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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. | | | | |
| Commissions NB Inspector's Signature National | 13339ANI 1496 IN Board, State, Province, and Endorsements | | | |
| Date | Board, State, 110 vince, and Endorsoments | | | |

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

November 1, 2006 through March 18, 2007

Part I, page 1 of 1

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

ABSTRACT OF CONDITIONS NOTED AND CORRECTVIE MEASURES TAKEN:

The corrective measures are addressed in this report and were performed in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, 2001 with the 2003 Addenda and the Duane Arnold Energy Center Updated Final Safety Analysis Report. The corrective measures performed as Repairs or Replacements are listed in Part G of this report and are documented, using Form NIS-2, in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code Section XI, 2001, 2003 Addenda. Specific details and associated records of additional corrective measures are on file at Duane Arnold Energy Center. The corrective measures addressed were performed during the period of Nov. 01, 2006 through March 18, 2007.

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

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FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

November 1, 2006 through March 18, 2007

Part J, page 1 of 24

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324 , 3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A 5) Commercial Service Date: 02/01/75

National Board Number of Unit; N/A Gross Generating Capacity: 649 MWE

ISI FIGURES AND ISOMETRICS

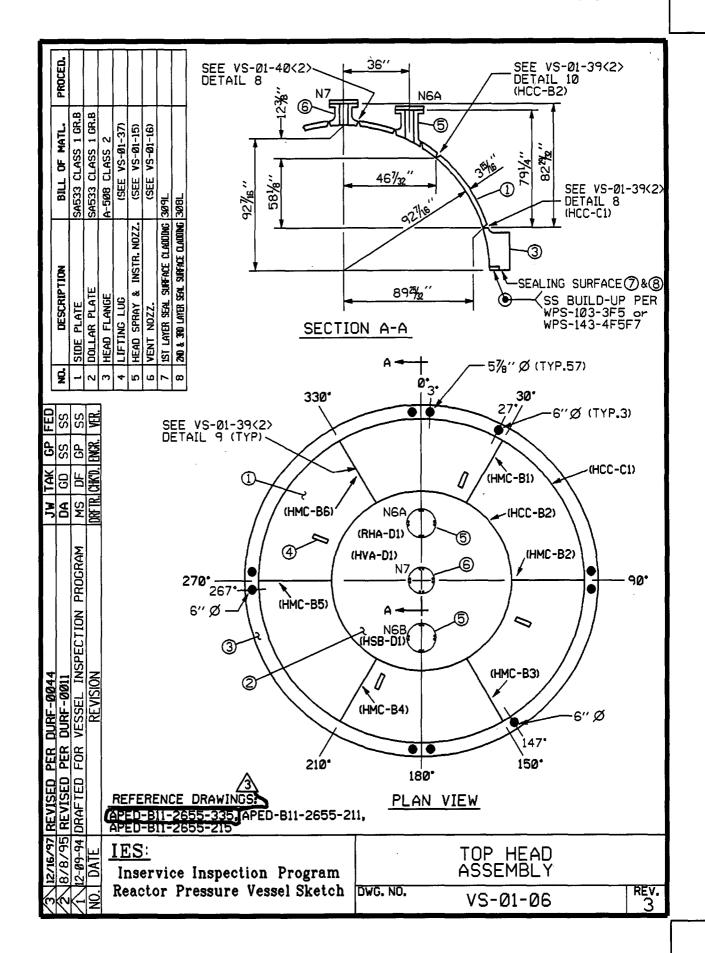
PLEASE NOTE: ISI Figures and Isometrics are listed in Part B and Part D of this report

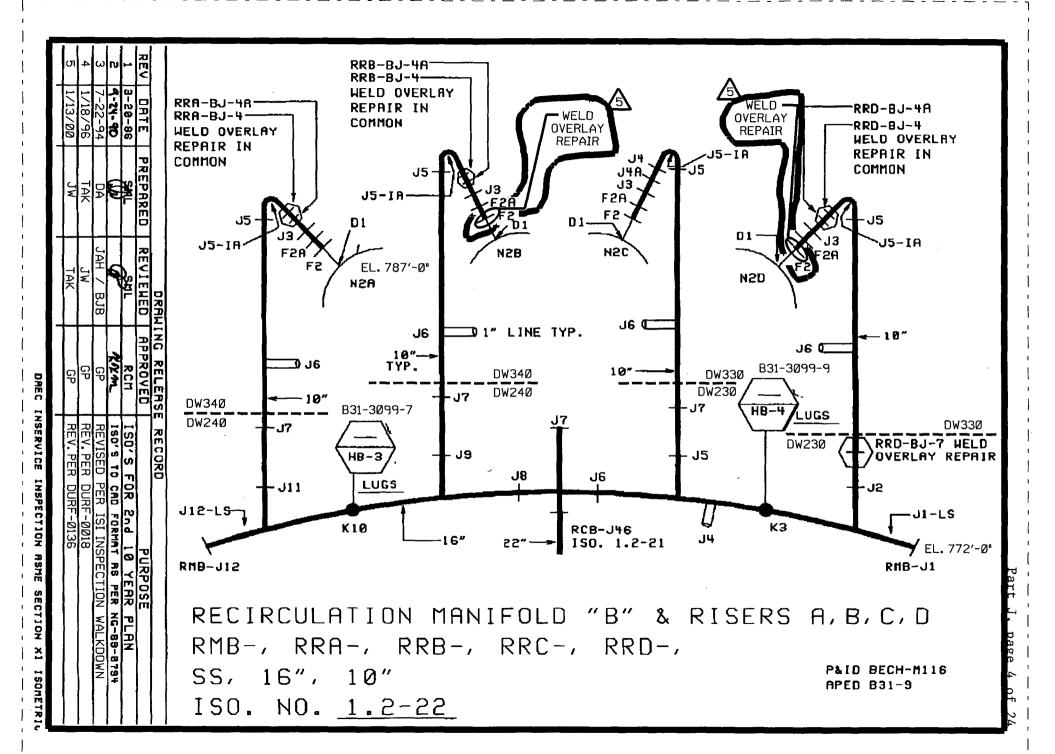
FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

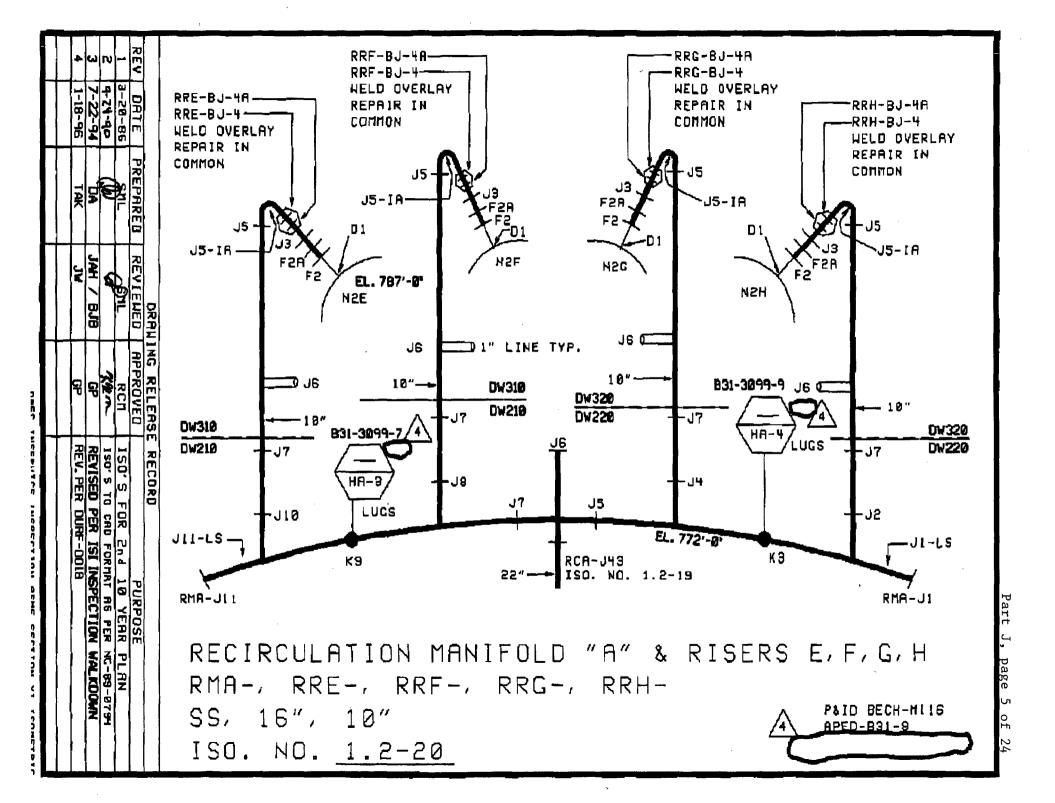
November 1, 2006 through March 18, 2007

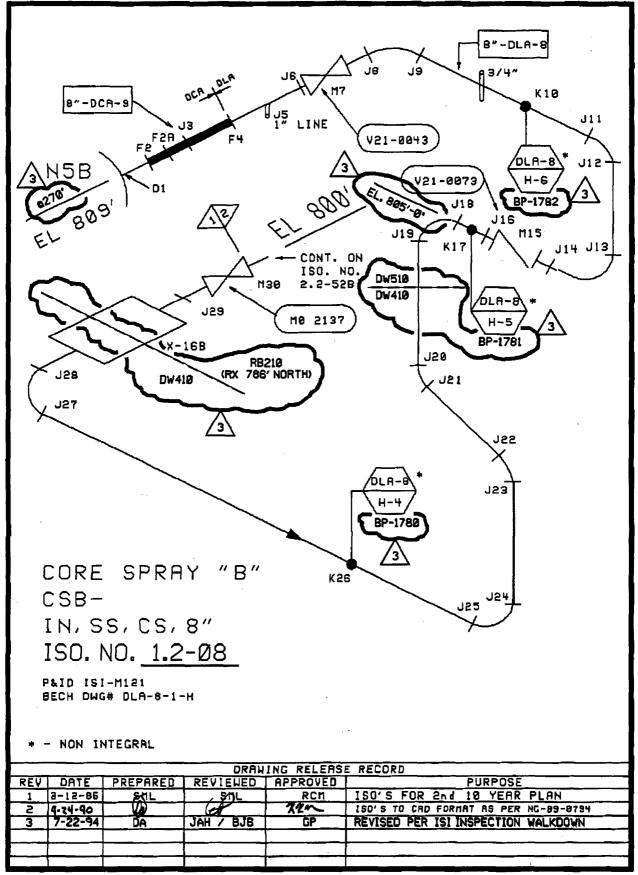
Part J, page 2 of 24

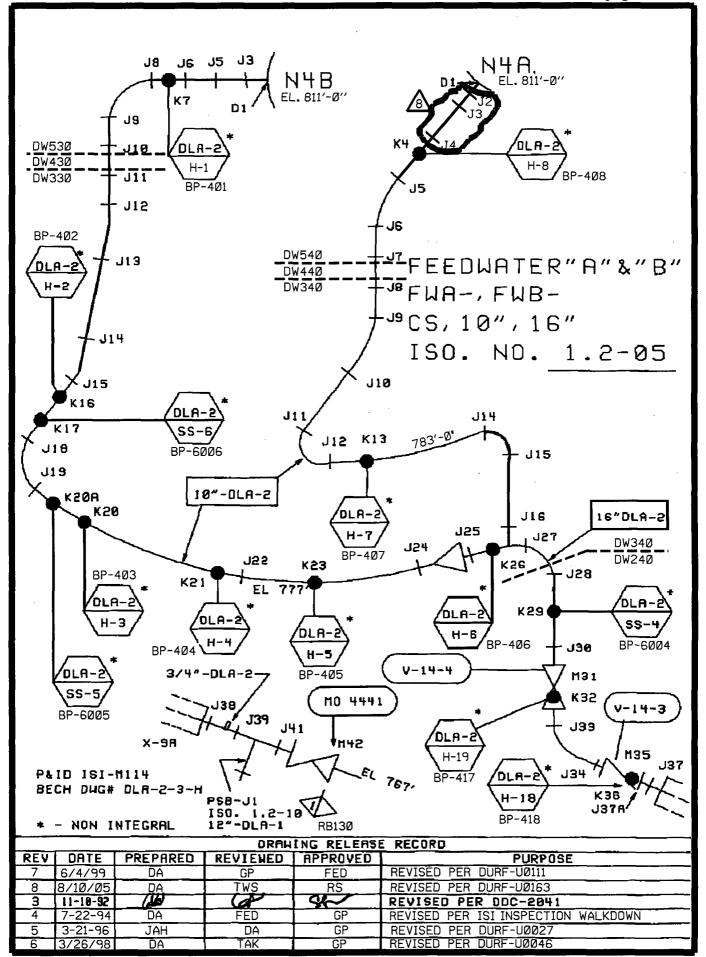
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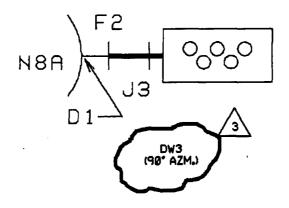








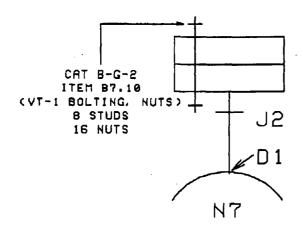


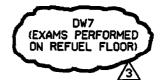


JET PUMP INSTRUMENTATION "A"
JPASS, 4"
ISO. NO. 1.2-25

P&ID BECH-M115 APED-B11-2655-105-4

| | | | | ING RELEASE | RECORD |
|-----|---------|--------------------|-----------|-------------|---------------------------------------|
| REV | DATE | PREPARED | REVIEWED | APPROVED | PURPOSE |
| 1 | 3-26-86 | ,2 1 41 | SHL | RCM | ISO'S FOR 2nd 10 YEAR PLAN |
| 2 | 9-74-90 | (11) | 6 | 父父九 | ISO'S TO CAD FORMAT AS PER NG-89-0794 |
| 3 | 7-22-94 | BA | JAH / FED | GP | REVISED PER ISI INSPECTION WALKDOWN |
| | | | | | |
| | | | | | |
| | | | 1 | | |





HEAD VENT HVA-CS, 4" ISO. NO. 1.2-24

P&ID BECH-M114 APED-B11-2655-104-3

| DRAHING RELEASE RECORD | | | | | | | | |
|------------------------|---------|----------|----------|----------|---------------------------------------|--|--|--|
| REV | DATE | PREPARED | REVIEWED | APPROVED | PURPOSE | | | |
| 1 | 3-26-86 | SAL | SML | RCM | ISO'S FOR 2nd 10 YERR PLAN | | | |
| 2 | 1.24-90 | (13) | (d) | 221 | ISO'S TO CAD FORMAT AS PER NG-89-0794 | | | |
| 3 | 7-22-94 | DA | JAH /FED | GP | REVISED PER ISI INSPECTION WALKDOWN | | | |
| | [] | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Tait ő, page i

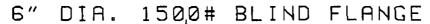
RHR-HEADSPRAY

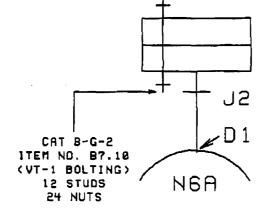
RHA

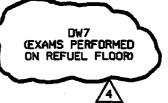
C.S.-6"

ISO. NO. 1.2-13

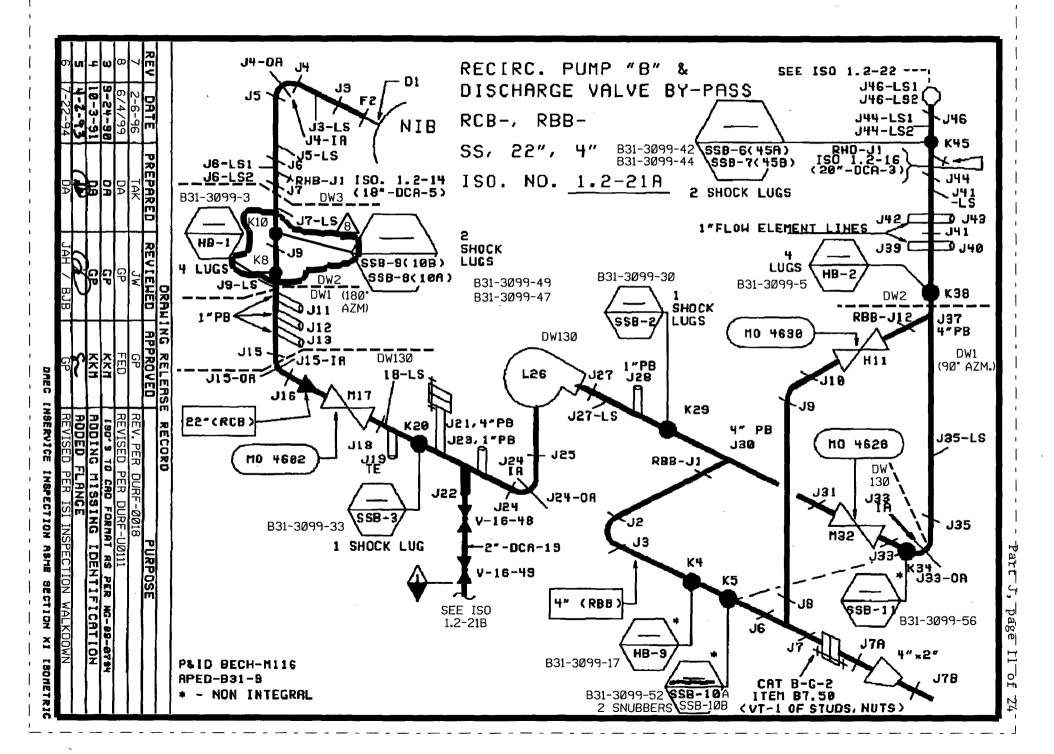
P&1D-M119 BECH DWG# DBR-5-1-H

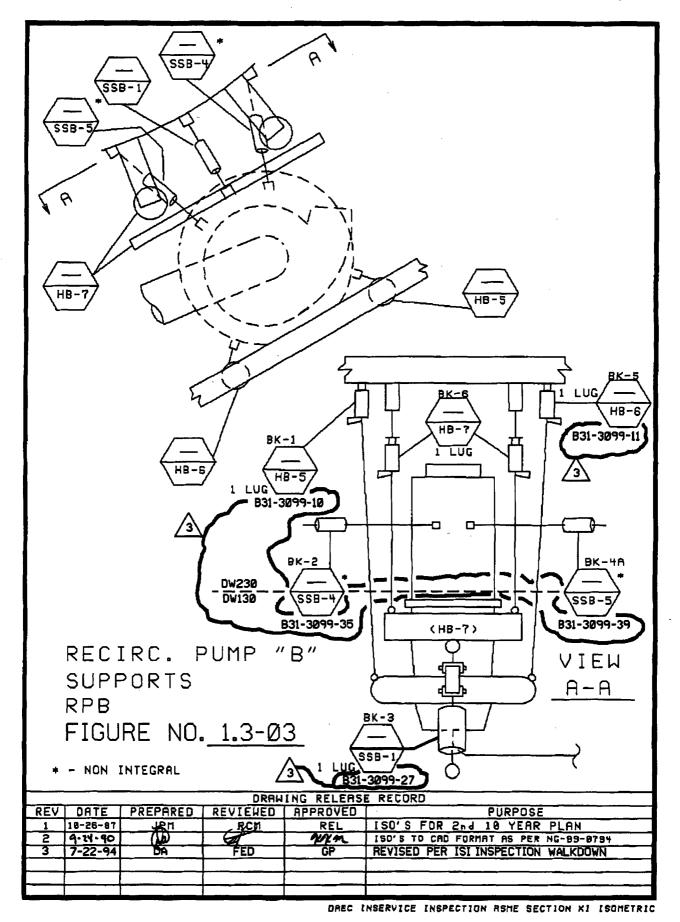


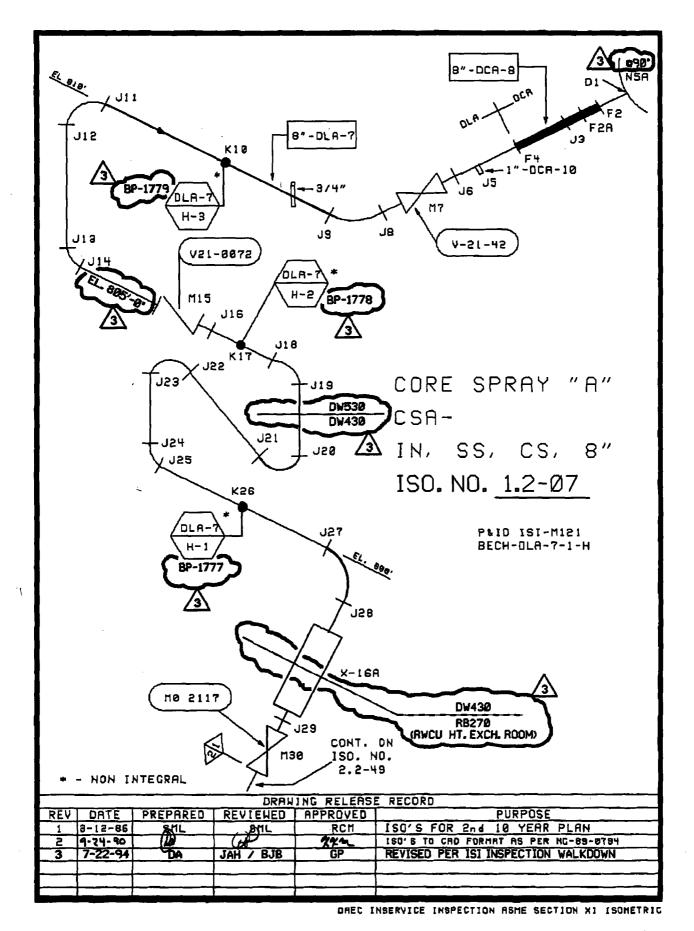


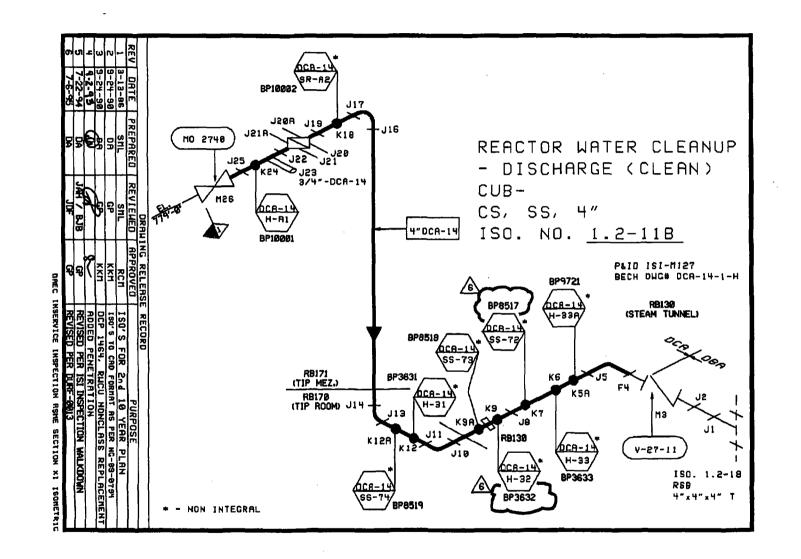


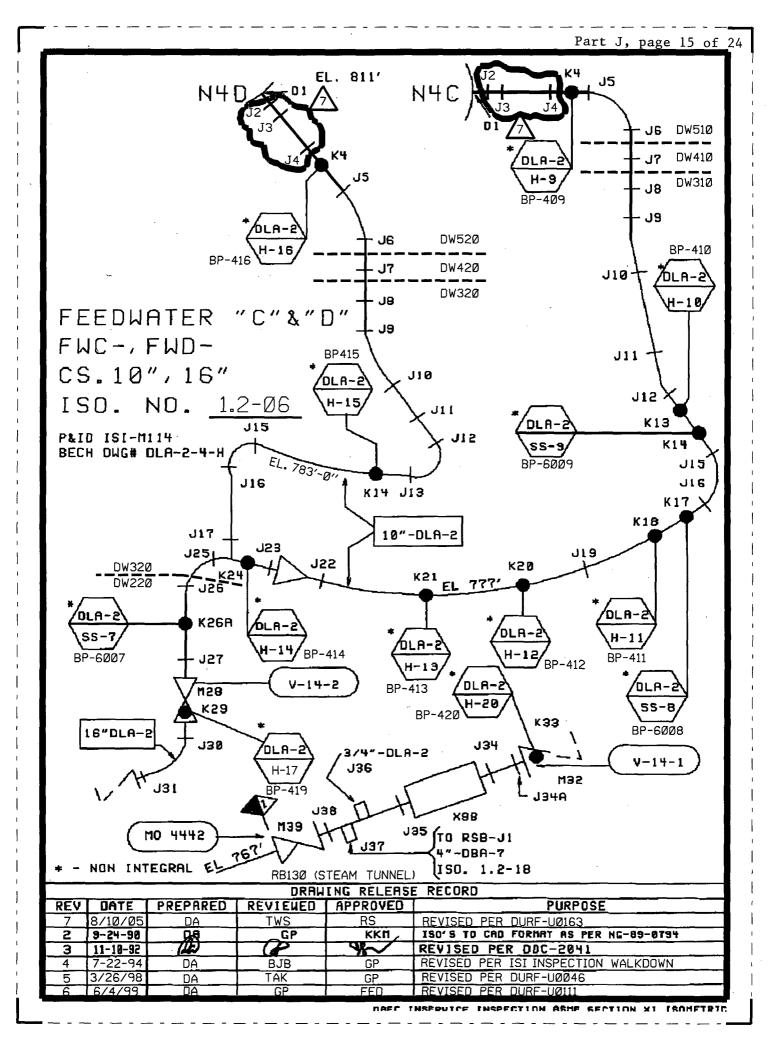
| DRAWING RELEASE RECORD | | | | | | | | | |
|------------------------|----------|----------|-----------|-------------|---------------------------------------|--|--|--|--|
| REV | DATE | PREPARED | REVIEWED | APPROVED | PURPOSE | | | | |
| _ 1 | 3-14-86 | SML | SML | RCM | ISO'S FOR 2nd 10 YEAR PLAN | | | | |
| 2 | 10-26-87 | JPN | RCM | REL | PORTION OF SYSTEM REMOVAL PER | | | | |
| L | l | | 2.4 | | DCP 1985, 1987 RFO | | | | |
| 3 | 9-24-90 | (ID) | GAR | 水龙 加 | ISO'S TO CAD FORMAT AS PER NG-89-8794 | | | | |
| 4 | 7-22-94 | DA | JAH / FED | GP | REVISED PER ISI INSPECTION WALKDOWN | | | | |
| | | | | | | | | | |



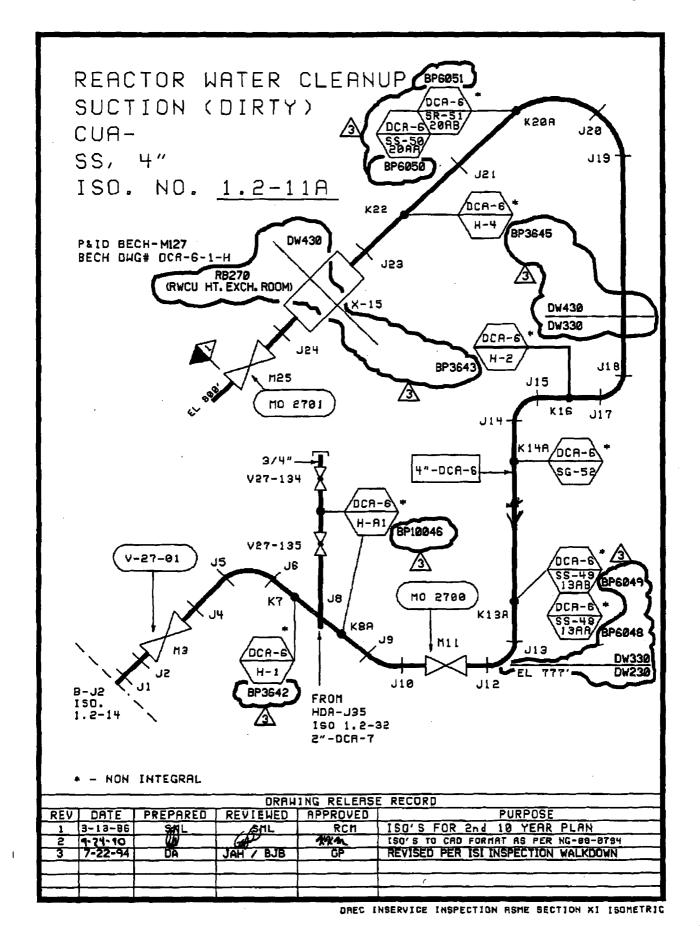




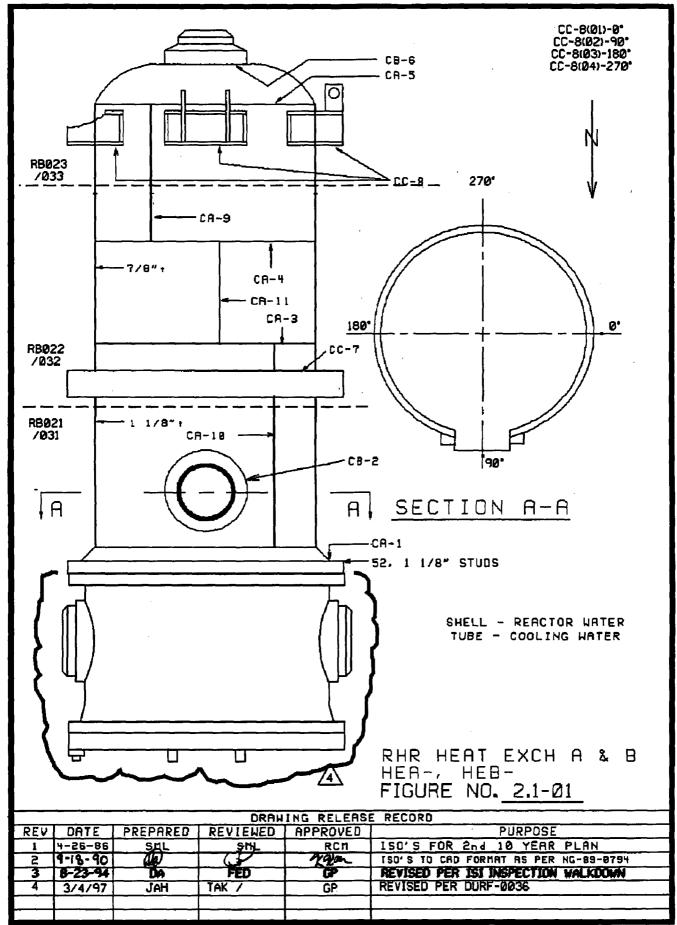




Part J, page 156 of 24



DREC INSERVICE INSPECTION ASKE SECTION XI ISOMETRIC



| REV DATE 1 7-11-86 2 9-16-60 3 7-22-94 4 7-6-95 5 1/24/96 6 6/4/99 | 1P- 21LB 6 CF-45 45 GOC HBB-1 4 LUGS | |
|--|---|---|
| PREPARED DA DA DA TAK DA | CF-47 CF-42 CF-42 CF-42 CF-42 CF-42 | CORE SPRAY SUCTION (NW) WELD PREFIX CSD CS, 12" |
| REVIEHED SIL FED JDF DA GP | 3/4" SOC CF-39 CD-38 RBØ21 (NWCR) CF-35 CD-38 V-21-2 | ISO. NO. <u>2.2-51</u> |
| NG RELEAS APPROVED RCH RCH GP GP GP GP FED DAEC | CF-34 CF-32 CD-30 V-21-2 HBB-1 CF-31 CF-29 CF-22 CF-31 CF-29 CF-22 CF-24 CD-23 | P&ID ISI-M121 RECH DNG& M-709-H CE-21 R-78 * HBB-1 |
| ISO'S FOR ISO'S TO CAU ISO'S TO CAU REVISED PER REVISED PER REVISED PER REVISED PER REVISED PER | * CE-26 CF-27 CE-26 HBB-1 SS-9 MD 2120 | CF-19 SR-4 CE-18 PIPING EXEMPT BY IWC-1221(f) CF-10 |
| PURPC 2nd 18 YE FORMAT AS P ISI INSPECTI DURF-0013 F-0018 DURF-U-0111 ECTION ASME | STANCH DWØ15 (TORUS BASEMEN | CF-18 CF-13 CF-4 CF-8 CF-8 |
| PLAN WALKDOW | | DW014 (TORUS BASEMENT) CF-5 CF-6 CE-7 HBB-1 H-1 |
| Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z | * - NON INTEGRAL | |

Part J, page 23 of 24

DREC INSERVICE INSPECTION ASME SECTION XI ISOMETRI

November 1, 2006 through March 18, 2007

Part K, page 1 of 4

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR FOURTH TEN YEAR INTERVAL

(Those percentages shown are actual, where the percentages exceed the allowable only the maximum (50% for period one and at least 16% for period two) will be taken credit for).

| CLASS 1 | | | | | | | | | |
|----------|--------|----------|----------|----------|----------------|--|--|--|--|
| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | <u>REMARKS</u> | | | | |
| B1.11 | 4 | 0% | 0% | 0% | • | | | | |
| B1.12 | 8 | 0% | 0% | 0% | | | | | |
| B1.21 | 2 | 0% | 0% | 0% | | | | | |
| B1.22 | 15 | 0% | 0% | 0% | | | | | |
| B1.30 | 1 | 0% | 0% | 0% | | | | | |
| B1.40 | 1 | 33% | 0% | 0% | | | | | |
| B3.90 | 33 | 21% | 0% | 0% | See Note 1 | | | | |
| B3.100 | 33 ' | 21% | 0% | 0% | See Note 1 | | | | |
| B5.10 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B5.20 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B5.30 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B6.10 | 60 | 0% | 0% | 0% | | | | | |
| B6.20 | 56 | 0% | 0% | 0% | | | | | |
| B6.30 | 4 | 0% | 0% | 0% | | | | | |
| B6.40 | 60 | 0% | 0% | 0% | | | | | |
| B6.50 | 6Ó | 0% | 0% | 0% | | | | | |
| B6.180 | 2 | 0% | 0% | 0% | Set of 16 ea. | | | | |
| B6.190 | . 2 | 0% | 0% | 0% | Set of 16 ea. | | | | |
| B6.200 | | 0% | 0% | 0% | Set of 16 ea. | | | | |
| B7.10 | 3 | 33% | 0% | 0% | | | | | |
| B7.50 | 5 | 20% | 0% | 0% | | | | | |
| B7.60 | 2 | 0% | 0% | 0% | Set of 16 ea. | | | | |
| B7.70 | 47 | 0% | 0% | 0% | | | | | |
| B7.80 | 89 | 0% | 0% | 0% | | | | | |
| B9.11 | N/A | 0% | 0% | 0% . | See Note 2 | | | | |
| B9.21 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B9.31 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B9.32 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B9.40 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| B10.10 | 5 | 0% | 0% | 0% | One Vessel | | | | |
| B10.20 | 3 | 0% | 0% | 0% | | | | | |

November 1, 2006 through March 18, 2007

Part K, page 2 of 4

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR FOURTH TEN YEAR INTERVAL

| | CLASS 1 | | | | | | | |
|----------|---------|----------|----------|----------|--------------|--|--|--|
| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS | | | |
| B10.30 | 8 | 0% | 0% | 0% | | | | |
| B12.20 | 2 | 0% | 0% | 0% | | | | |
| B12.50 | 45 | 0% | 0% | 0% | | | | |
| B13.10 | 13 | 38% | 0% | 0% | | | | |
| B13.20 | 11 | 0% | 0% | 0% | | | | |
| B13.30 | 35 | 23% | 0% | 0% | | | | |
| B13.40 | 5 | 8% | 0% | 0% | See Note 3 | | | |
| | | | | | (183 items) | | | |
| B14.10 | 3 | 0% | 0% | 0% | | | | |
| B15.10 | 1 | N/A | N/A | N/A | Every Outage | | | |
| | | | | | | | | |

CLASS 1 AND CLASS 2 Risk Informed

| CAT NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
|---------|--------|----------|----------|----------|----------------|
| R-A | 70 | 17% | 0% | 0% | See Note 4 |

| CLASS 2 | | | | | | | | | |
|----------|---------|----------|----------|----------|--------------|--|--|--|--|
| ITEM NO. | TOTAL # | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS | | | | |
| C1.10 | 2 | 50% | 0% | 0% | | | | | |
| C1.20 | 1 | 0% | 0% | 0% | | | | | |
| C2.21 | 2 | 0% | 0% | 0% | | | | | |
| C2.22 | . 2 | 0% | 0% | 0% | | | | | |
| C3.10 | 5 | 0% | 0% | 0% | (One Vessel) | | | | |
| C3.20 | 7 | 14% | 0% | 0% | | | | | |
| C5.51 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| C5.81 | N/A | 0% | 0% | 0% | See Note 2 | | | | |
| C7.10 | 7 | N/A | N/A | N/A | Every Period | | | | |

November 1, 2006 through March 18, 2007

Part K, page 3 of 4

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR FOURTH TEN YEAR INTERVAL

CLASS 1 AND 2 SUPPORTS

| ITEM NO. | TOTAL# | PERIOD 1 | PERIOD 2 | PERIOD 3 | REMARKS |
|----------|--------|----------|----------|----------|---------|
| F1.10 | 42 | 7% | 0% | 0% | |
| F1.20 | 52 | 12% | 0% | 0% | |
| F1.40 | 29 | 7% | 0% | 0% | |

November 1, 2006 through March 18, 2007

Part K, page 4 of 4

1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420

2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

Gross Generating Capacity: 649 MWE

STATUS OF WORK FOR FOURTH TEN YEAR INTERVAL

- NOTE 1 There are a total of 34 nozzles, however 1 of the nozzles is exempt by IWA-1220 and not included in the percentages
- NOTE 2 Risk-Informed methods are utilized as described in EPRI TR-112657B-A to determine scope of the inspections for examination categories B-F, B-J, and C-F-2.
- NOTE 3 There are five locations, however two of the locations are the control rod guide tube and fuel support castings which total 89 each. Therefore percentage will include the total amount.
- NOTE 4 The total number of Risk-Informed welds selected for examination is 70. The percentages taken are combined Class 1 and 2 welds completed.

November 1, 2006 through March 18, 2007

Part L, page 1 of 1

- 1) Owners: FPL Energy Duane Arnold LLC, PO Box 14000, Juno Beach, FL 33409-0420
- 2) Plant: Duane Arnold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

4) Owners Certificate of Authorization (if required): N/A

5) Commercial Service Date: 02/01/75

6) National Board Number of Unit: N/A

N-695

Gross Generating Capacity: 649 MWE

RELIEF REQUESTS

The following are the relief requests and code cases that were used during the period of this Summary Report.

| RELIEF REQUESTS | DESCRIPTION |
|--------------------|--|
| NDE-R001 | Use of the DAEC Technical Requirements Manual for Snubber Visual Examination and Testing |
| NDE-R002 | Approved use of PDI for Overlays in lieu of Supplement 11 to Appendix VIII |
| NDE-R005 | Risk Informed ISI for Class 1 B-F & B-J Welds and Class 2 C-F-2 Welds |
| NDE-R006 | Request to use Code Case N-686 "Alternative Requirements for Visual Examinations" |
| NDE-R008 | Request approval to use Appendix VIII examinations for the Fourth 10-year Interval Reactor Vessel-to-Flange Weld and Head-to-Flange Weld in lieu of the existing requirements to use Section V |
| Relief Request | Alternative to ASME Section XI Requirements to use Code Case N-504-2 and N-638-1 for Weld Overlay Repairs at the Duane Arnold Energy Center |
| CODE CASE # | <u>DESCRIPTION</u> |
| N-460 | Alternative Examination Coverage for Class 1 and 2 Welds |
| N-504-2 | Alternative Rules for Repair of Classes 1, 2, and 3 Austenitic Stainless Steel Piping |
| N-537 | Location of Ultrasonic Depth Sizing Flaws |
| N-552 . | |
| | Alternative Methods – Qualification for Nozzle Inside Radius Section from the Outside Surface |
| N-613-1 | |
| N-613-1 N-638-1 | Outside Surface UT of Full Penetration Nozzles in Vessels, Examination Category B-D, Item No's. B3.10 and B3.90, Reactor Nozzle-To-Vessel Welds, Figs. IWB-2500-7(a), (b), and (c). Similar and Dissimilar Metal Welding Using Ambient Temperature Machine GTAW Temper Bead Technique |
| | Outside Surface UT of Full Penetration Nozzles in Vessels, Examination Category B-D, Item No's. B3.10 and B3.90, Reactor Nozzle-To-Vessel Welds, Figs. IWB-2500-7(a), (b), and (c). Similar and Dissimilar Metal Welding Using Ambient Temperature Machine GTAW Temper Bead Technique Alternative Calibration Block Material |
| N-638-1 | Outside Surface UT of Full Penetration Nozzles in Vessels, Examination Category B-D, Item No's. B3.10 and B3.90, Reactor Nozzle-To-Vessel Welds, Figs. IWB-2500-7(a), (b), and (c). Similar and Dissimilar Metal Welding Using Ambient Temperature Machine GTAW Temper Bead Technique |

Qualification Requirements for Dissimilar metal Piping Welds

FOURTH TEN YEAR INTERVAL INSERVICE INSPECTION REPORT November 1, 2006 through March 18, 2007

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ENCLOSURE 3 TO NG-07-0492

AUGMENTED INSPECTION RESULTS

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|----------------------|---------------------------|--------------------------|---------|------------|---|--------|---------------------|-------------|
| Class Null 169410 | Category A IRM (08-37) | UG-SIL REACTOR VESSEL | 409 | ACP1211.36 | VT / BWRVIP-172 / NRI | RPV | VS-13-02 SHT- 01 | - 2/17/2007 |
| 169420 | IRM (16-21) | REACTOR VESSEL | 409 | ACP1211.36 | VT / BWRVIP-174 / NRI | RPV | VS-13-02 SHT- 01 | - 2/18/2007 |
| 169430 | SRM (32-21) | REACTOR VESSEL | 409 : | ACP1211.36 | VT / BWRVIP-176 / NRI | RPV | VS-13-02 SHT- 01 | - 2/18/2007 |
| 169440 | IRM (32-13) | REACTOR VESSEL | 409 | ACP1211.36 | VT / BWRVIP-175 / NRI | RPV | VS-13-02 SHT- 01 | - 2/18/2007 |
| 169450 | SRM (16-13) | REACTOR VESSEL | 409 | ACP1211.36 | VT / BWRVIP-173 / NRI | RPV | VS-13-02 SHT- 01 | - 2/17/2007 |
| Class 1 C | Category AUC | | • | | | | | |
| 150501 | LCA-F002 | NOZZLE-SAFE END | AUG-SLC | ACP1211.38 | UT / UT-07-107, 108, 109, 110, 111 / Accept | LC | 1.2-27 SHT-01 | 2/22/2007 |
| 165701 | CSP-P1-090 | CORE SPRAY TEE BOX | AUG9-P1 | ACP1211.36 | VT / BWRVIP-183 / Inaccessible | RPV | VS-05-01 SHT- 01 | 2/14/2007 |
| 165702 | CSP-P1-270 | CORE SPRAY TEE BOX | AUG9-P1 | ACP1211.36 | VT / BWRVIP-156 / NRI | RPV . | VS-05-01 SHT- 01 | 2/16/2007 |
| 165703 | CSP-P2-090 | CORE SPRAY TEE BOX | AUG9-P2 | ACP1211.36 | VT / BWRVIP-182 / NRI | RPV | VS-05-01 SHT- 01 | 2/14/2007 |
| 165704 | CSP-P2-270 | CORE SPRAY TEE BOX | AUG9-P2 | ACP1211.36 | VT / BWRVIP-257 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165705 | CSP-AP3 | CORE SPRAY | AUG9-P3 | ACP1211.36 | VT / BWRVIP-181 / NRI | RPV | VS-05-01 SHT- 01 | 2/14/2007 |
| 165706 | CSP-BP3 | CORE SPRAY | AUG9-P3 | ACP1211.36 | VT / BWRVIP-157 / NRI | RPV | VS-05-01 SHT- | 2/16/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO Exam Date |
|-------------|----------|-------------|----------|------------|----------------------------|--------|-------------------------------|
| 165707 | CSP-CP3 | CORE SPRAY | AUG9-P3 | ACP1211.36 | VT / BWRVIP-184 / NRI | RPV | VS-05-01 SHT- 2/14/2007 01 |
| 165708 | CSP-DP3 | CORE SPRAY | AUG9-P3 | ACP1211.36 | VT / BWRVIP-160 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165711 | CSP-AP4c | CORE SPRAY | AUG9-P4c | ACP1211.36 | VT / BWRVIP-138 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165712 | CSP-AP4d | CORE SPRAY | AUG9-P4d | ACP1211.36 | VT / BWRVIP-139 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165725 | CSP-AP5 | CORE SPRAY | AUG9-P5 | ACP1211.36 | VT / BWRVIP-134 / NRI : | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165726 | CSP-BP5 | CORE SPRAY | AUG9-P5 | ACP1211.36 | VT / BWRVIP-158 / NRI | RPV . | VS-05-01 SHT- 2/16/2007 01 |
| 165727 | CSP-CP5 | CORE SPRAY | AUG9-P5 | ACP1211.36 | VT / BWRVIP-124 / NRI | RPV | VS-05-01 SHT- 2/14/2007 01 |
| 165728 | CSP-DP5 | CORE SPRAY | AUG9-P5 | ACP1211.36 | VT / BWRVIP-163 / NRI | RPV | VS-05-01 SHT- 2/17/2007 |
| 165729 | CSP-AP6 | CORE SPRAY | AUG9-P6 | ACP1211.36 | VT / BWRVIP-135 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165730 | CSP-BP6 | CORE SPRAY | AUG9-P6 | ACP1211.36 | VT / BWRVIP-159 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |
| 165731 | CSP-CP6 | CORE SPRAY | AUG9-P6 | ACP1211.36 | VT / BWRVIP-125 / NRI | RPV | VS-05-01 SHT- 2/14/2007 01 |
| 165732 | CSP-DP6 | CORE SPRAY | AUG9-P6 | ACP1211.36 | VT / BWRVIP-168 / NRI | RPV | VS-05-01 SHT- 2/17/2007 01 |
| 165733 | CSP-AP7 | CORE SPRAY | AUG9-P7 | ACP1211.36 | VT / BWRVIP-136 / NRI | RPV | VS-05-01 SHT- 2/16/2007 01 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item : | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------|--|----------|------------|-------------------------|--------|---------------------|-----------|
| 165734 | CSP-BP7 | CORE SPRAY | AUG9-P7 | ACP1211.36 | VT / BWRVIP-202 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165735 | CSP-CP7 | CORE SPRAY | AUG9-P7 | ACP1211.36 | VT / BWRVIP-126 / NRI | RPV | VS-05-01 SHT- | 2/14/2007 |
| 165736 | CSP-DP7 | CORE SPRAY | AUG9-P7 | ACP1211.36 | VT / BWRVIP-170 / NRI | RPV | VS-05-01 SHT- 01 | 2/17/2007 |
| 165737 | CSP-AP8a | CORE SPRAY | AUG9-P8a | ACP1211.36 | VT / BWRVIP-140 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165738 | CSP-A8b | CORE SPRAY | AUG9-P8b | ACP1211.36 | VT / BWRVIP-137 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165739 | CSP-BP8a | CORE SPRAY | AUG9-P8a | ACP1211.36 | VT / BWRVIP-203 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165740 | CSP-BP8b | CORE SPRAY | AUG9-P8b | ACP1211.36 | VT / BWRVIP-204 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 165741 | CSP-CP8a | CORE SPRAY | AUG9-P8a | ACP1211.36 | VT / BWRVIP-133 / NRI | RPV | VS-05-01 SHT- 01 | 2/15/2007 |
| 165742 | CSP-CP8b | CORE SPRAY | AUG9-P8b | ACP1211.36 | · VT / BWRVIP-141 / NRI | RPV | VS-05-01 SHT- | 2/16/2007 |
| : 165743 | CSP-DP8a | CORE SPRAY | AUG9-P8a | ACP1211.36 | VT / BWRVIP-169 / NRI | RPV | VS-05-01 SHT- 01 | 2/17/2007 |
| 165744 | CSP-DP8b | CORE SPRAY | AUG9-P8b | ACP1211.36 | VT / BWRVIP-256 / NRI | RPV | VS-05-01 SHT- 01 | 2/16/2007 |
| 171101 | JP-01-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-192 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO Exam Date |
|-------------|------------|--|-----------|------------|-------------------------|--------|---------------------------------|
| 171103 | JP-01-RB1b | JET PUMP #01 | AUG9-RB1b | ACP1211.36 | VT / BWRVIP-198 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171105 | JP-01-RB1d | JET PUMP #01 | AUG9-RB1d | ACP1211.36 | VT / BWRVIP-199 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171108 | JP-01-RB2b | JET PUMP #01 | AUG9-RB2b | ACP1211.36 | VT / BWRVIP-218 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171110 | JP-01-RB2d | JET PUMP #01 | AUG9-RB2d | ACP1211.36 | VT / BWRVIP-219 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171111 | BB1 | JET PUMP #01 | AUG9-BB1 | GE-UT-504 | UT / VE-07-018 / Accept | RPV | VS-11-01 SHT- 2/16/2007 01 |
| 171112 | BB2 | JET PUMP #01 | AUG9-BB2 | GE-UT-504 | UT / VE-07-019 / Accept | RPV | VS-11-01 SHT- 2/16/2007 01 |
| 171119 | BB3 | JET PUMP #01 | AUG9-BB3 | GE-UT-504 | UT / VE-07-020 / Accept | RPV | VS-11-01 SHT- 2/16/2007 01 |
| 171124 | JP-01- WD1 | JET PUMP #01 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-150 / NRI | RPV | VS-11-01 SHT- 2/17/2007 01 |
| 171201 | JP-02-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-193 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171202 | JP-02-RB1a | JET PUMP #02 | AUG9-RB1a | ACP1211.36 | VT / BWRVIP-195 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171204 | JP-02-RB1c | JET PUMP #02 | AUG9-RB1c | ACP1211.36 | VT / BWRVIP-196 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171207 | JP-02-RB2a | JET PUMP #02 | AUG9-RB2a | ACP1211.36 | VT / BWRVIP-197 / NRI | RPV | VS-11-01 SHT- 2/18/2007 01 |
| 171209 | JP-02-RB2c | JET PUMP #02 | AUG9-RB2c | ACP1211.36 | VT / BWRVIP-194 / NRI | RPV | VS-11-01 SHT- 2/18/2007 · 01 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000 Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

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5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|------------|--------------|---------------|------------|-------------------------|--------|---------------------|-----------|
| 171211 | BB1 | JET PUMP #02 | AUG9-BB1 | GE-UT-504 | UT / VE-07-021 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171212 | BB2 | JET PUMP #02 | AUG9-BB2 | GE-UT-504 | UT / VE-07-022 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171218 | BB3 | JET PUMP #02 | AUG9-BB3 | GE-UT-504 | UT / VE-07-023 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171224 | JP-02- WD1 | JET PUMP #02 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-189 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171311 | BB1 | JET PUMP #03 | AUG9-BB1 | GE-UT-504 | UT / VE-07-024 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171312 | BB2 | JET PUMP #03 | AUG9-BB2 | GE-UT-504 | UT / VE-07-025 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171319 | BB3 | JET PUMP #03 | AUG9-BB3 | GE-UT-504 | UT / VE-07-026 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171324 | JP-03- WD1 | JET PUMP #03 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-187 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171411 | BB1 | JET PUMP #04 | AUG9-BB1 | GE-UT-504 | UT / VE-07-027 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171412 | BB2 | JET PUMP #04 | AUG9-BB2 | GE-UT-504 | UT / VE-07-028 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171418 | BB3 | JET PUMP #04 | AUG9-BB3 | GE-UT-504 | UT / VE-07-029 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171424 | JP-04- WD1 | JET PUMP #04 | ; AUG9-WD1 | ACP1211.36 | VT / BWRVIP-185 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |

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2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

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5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|----------------|------------|--|----------|------------|-------------------------|--------|---------------------|-------------|
| 171501 | JP-05-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-247 / NRI | RPV | VS-11-01 SHT- 01 | - 2/20/2007 |
| 171511 | BB1 | JET PUMP #05 | AUG9-BB1 | GE-UT-504 | UT / VE-07-030 / Accept | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 171512 | BB2 | JET PUMP #05 | AUG9-BB2 | GE-UT-504 | UT / VE-07-031 / Accept | RPV | VS-11-01 SHT- 01 | - 2/16/2007 |
| 171519 | BB3 | JET PUMP #05 | AUG9-BB3 | GE-UT-504 | UT / VE-07-032 / Accept | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 171524 | JP-05- WD1 | JET PUMP #05 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-186 / NRI | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 171601 | JP-06-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-235 / NRI | RPV | VS-11-01 SHT- 01 | - 2/17/2007 |
| 171611 | BB1 | JET PUMP #06 | AUG9-BB1 | GE-UT-504 | UT / VE-07-033 / Accept | RPV | VS-11-01 SHT- 01 | - 2/16/2007 |
| 171612 | BB2 | JET PUMP #06 | AUG9-BB2 | GE-UT-504 | UT / VE-07-034 / Accept | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 171618 | BB3 | JET PUMP #06 | AUG9-BB3 | GE-UT-504 | UT / VE-07-035 / Accept | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 171 624 | JP-06- WD1 | JET PUMP #06 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-190 / NRI | RPV | VS-11-01 SHT- 01 | - 2/16/2007 |
| 171701 | JP-07-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-233 / NRI | RPV | VS-11-01 SHT | - 2/18/2007 |
| 171711 | BB1 | JET PUMP #07 | AUG9-BB1 | GE-UT-504 | UT / VE-07-036 / Accept | RPV | VS-11-01 SHT | - 2/16/2007 |
| 171712 | BB2 | JET PUMP #07 | AUG9-BB2 | GE-UT-504 | UT / VE-07-037 / Accept | RPV | VS-11-01 SHT- 01 | - 2/16/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|------------|--|----------|------------|-------------------------|--------|---------------------|-----------|
| 171719 | BB3 | JET PUMP #07 | AUG9-BB3 | GE-UT-504 | UT / VE-07-038 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171724 | JP-07- WD1 | JET PUMP #07 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-188 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171801 | JP-08-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-232 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 171811 | BB1 | JET PUMP #08 | AUG9-BB1 | GE-UT-504 | UT / VE-07-039 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171812 | BB2 | JET PUMP #08 | AUG9-BB2 | GE-UT-504 | UT / VE-07-040 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171818 - | BB3 | JET PUMP #08 | AUG9-BB3 | GE-UT-504 | UT / VE-07-041 / Accept | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171824 | JP-08- WD1 | JET PUMP #08 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-236 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 171901 | JP-09-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-231 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 171911 | BB1 | ; JET PUMP #09 | AUG9-BB1 | GE-UT-504 | UT / VE-07-042 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 171912 | BB2 | JET PUMP #09 | AUG9-BB2 | GE-UT-504 | UT / VE-07-043 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 171919 | BB3 | JET PUMP #09 | AUG9-BB3 | GE-UT-504 | UT / VE-07-044 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 171924 | JP-09- WD1 | JET PUMP #09 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-020 / NRI | RPV | VS-11-01 SHT- 01 | 2/8/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp, ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|--------------------|------------|--|-----------|------------|-------------------------|--------|----------------------|-------------|
| 172001 | JP-10-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-263 / NRI | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172011 | BB1 | JET PUMP #10 | AUG9-BB1 | GE-UT-504 | UT / VE-07-045 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172012 | BB2 | JET PUMP #10 | AUG9-BB2 | GE-UT-504 | UT / VE-07-046 / Accept | RPV | VS-11-01 SHT | - 2/18/2007 |
| 172018 | BB3 | JET PUMP #10 | AUG9-BB3 | GE-UT-504 | UT / VE-07-047 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172024 | JP-10- WD1 | JET PUMP #10 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-021 / NRI | RPV | VS-11-01 SHT | - 2/8/2007 |
| 172101 | JP-11-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-206 / NRI | RPV | VS-11-01 SHT 01 | - 2/16/2007 |
| 172103 | JP-11-RB1b | JET PUMP #11 | AUG9-RB1b | ACP1211.36 | VT / BWRVIP-208 / NRI | RPV | VS-11-01 SHT | - 2/16/2007 |
| 172105 | JP-11-RB1d | JET PUMP #11 | AUG9-RB1d | ACP1211.36 | VT / BWRVIP-209 / NRI | RPV | VS-11-01 SHT 01 | - 2/16/2007 |
| 172108 | JP-11-RB2b | JET PUMP #11 | AUG9-RB2b | ACP1211.36 | VT / BWRVIP-258 / NRI | RPV | VS-11-01 SHT 01 | • |
| 172110 | JP-11-RB2d | JET PUMP #11 | AUG9-RB2d | ACP1211.36 | VT / BWRVIP-259 / NRI | RPV | VS-11-01 SHT | - 2/16/2007 |
| 172111 | BB1 | JET PUMP #11 | AUG9-BB1 | GE-UT-504 | UT / VE-07-048 / Accept | RPV | VS-11-01 SHT | - 2/18/2007 |
| 172112 | BB2 | JET PUMP #11 | AUG9-BB2 | GE-UT-504 | UT / VE-07-049 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172118 | JP-11-RS6 | JET PUMP #11 | AUG9-RS6 | ACP1211.36 | VT / BWRVIP-250 / NRI | RPV | ; VS-11-01 SHT 01 | - 2/20/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------------|--|-----------|------------|-------------------------|--------|---------------------|-------------|
| 172119 | BB3 | JET PUMP #11 | AUG9-BB3 | GE-UT-504 | UT / VE-07-050 / Accept | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172120 | JP-11-12 RS8 | JET PUMP RISER AT 252 DEG | AUG9-RS8 | ACP1211.36 | VT / BWRVIP-246 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |
| 172121 | JP-11-12 RS9 | JET PUMP RISER AT 252 DEG | AUG9-RS9 | ACP1211.36 | VT / BWRVIP-245 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |
| 172122 | JP-11-IN4 | JET PUMP #11 | AUG9-IN4 | ACP1211.36 | VT / BWRVIP-251 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |
| 172123 | JP-11-MX2 | JET PUMP #11 | AUG9-MX2 | ACP1211.36 | VT / BWRVIP-252 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |
| 172124 | JP-11- WD1 | JET PUMP #11 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-026 / NRI | RPV | VS-11-01 SHT- 01 | 2/8/2007 |
| 172125 | JP-11-DF1 | JET PUMP #11 | AUG9-DF1 | ACP1211.36 | VT / BWRVIP-210 / NRI | RPV | VS-11-01 SHT- 01 | 2/17/2007 |
| 172201 | JP-12-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-254 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |
| 172202 | JP-12-RB1a | JET PUMP #12 | AUG9-RB1a | ACP1211.36 | VT / BWRVIP-260 / NRI | RPV | VS-11-01 SHT- 01 | 2/16/2007 |
| 172204 | JP-12-RB1c | JET PUMP #12 | AUG9-RB1c | ACP1211.36 | VT / BWRVIP-227 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172207 | JP-12-RB2a | JET PUMP #12 | AUG9-RB2a | ACP1211.36 | VT / BWRVIP-228 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172209 | JP-12-RB2c | JET PUMP #12 | AUG9-RB2c | ACP1211.36 | VT / BWRVIP-229 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|------------|--------------|----------|------------|----------------------------|--------|-------------------------|-------------|
| 172211 | BB1 | JET PUMP #12 | AUG9-BB1 | GE-UT-504 | UT / VE-07-051 / Accept | RPV | VS-11-01 SHT . 01 | - 2/18/2007 |
| 172212 | BB2 | JET PUMP #12 | AUG9-BB2 | GE-UT-504 | UT / VE-07-052 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172218 | BB3 | JET PUMP #12 | AUG9-BB3 | GE-UT-504 | UT / VE-07-053 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172219 | JP-12-RS7 | JET PUMP #12 | AUG9-RS7 | ACP1211.36 | VT / BWRVIP-223 / NRI | RPV | VS-11-01 SHT | - 2/18/2007 |
| 172222 | JP-12-IN4 | JET PUMP #12 | AUG9-IN4 | ACP1211.36 | VT / BWRVIP-253 / NRI : | RPV | : VS-11-01 SHT 01 | - 2/20/2007 |
| 172223 | JP-12-MX2 | JET PUMP #12 | AUG9-MX2 | ACP1211.36 | VT / BWRVIP-255 / NRI | RPV | VS-11-01 SHT | - 2/20/2007 |
| 172224 | JP-12- WD1 | JET PUMP #12 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-044 / NRI | RPV | VS-11-01 SHT | - 2/8/2007 |
| 172225 | JP-12DF1 | JET PUMP #12 | AUG9-DF1 | ACP1211.36 | VT / BWRVIP-201 / NRI | RPV | VS-11-01 SHT 01 | - 2/17/2007 |
| 172311 | BB1 | JET PUMP #13 | AUG9-BB1 | GE-UT-504 | UT / VE-07-054 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172312 | BB2 | JET PUMP #13 | AUG9-BB2 | GE-UT-504 | UT / VE-07-055 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172319 | BB3 | JET PUMP #13 | AUG9-BB3 | GE-UT-504 | UT / VE-07-056 / Accept | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172324 | JP-13-WD1 | JET PUMP #13 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-025 / NRI | RPV | VS-11-01 SHT 01 | - 2/8/2007 |
| 172411 | BB1 | JET PUMP #14 | AUG9-BB1 | GE-UT-504 | UT / VE-07-057 / Accept | RPV | VS-11-01 SHT ; 01 | - 2/18/2007 |

- 1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000 Juno Beach, FL 33409-0420
- 2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324

3. Plant Unit: 1

- 4. Owner Certificate of Authorization (If Req.): N/A
- 5. Commercial Service Date: 02/01/1975
- 6. National Board Number for Unit: N/A

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------------|--|-----------|------------|-------------------------|--------|---------------------|-------------|
| 172412 | BB2 | JET PUMP #14 | AUG9-BB2 | GE-UT-504 | UT / VE-07-058 / Accept | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172418 | BB3 | JET PUMP #14 | AUG9-BB3 | GE-UT-504 | UT / VE-07-059 / Accept | RPV | VŞ-11-01 SHT- 01 | - 2/18/2007 |
| 172424 | JP-14-WD1 | JET PUMP #14 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-022 / NRI | RPV | VS-11-01 SHT- 01 | - 2/8/2007 |
| 172501 | JP-15-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-239 / NRI | RPV | VS-11-01 SHT- 01 | - 2/20/2007 |
| 172503 | JP-15-RB1b | JET PUMP #15 | AUG9-RB1b | ACP1211.36 | VT / BWRVIP-248 / NRI | RPV | VS-11-01 SHT- 01 | - 2/20/2007 |
| 172505 | JP-15-RB1d | JET PUMP #15 | AUG9-RB1d | ACP1211.36 | VT / BWRVIP-129 / NRI | RPV | VS-11-01 SHT- 01 | - 2/16/2007 |
| 172508 | JP-15-RB2b | JET PUMP #15 | AUG9-RB2b | ACP1211.36 | VT / BWRVIP-237 / NRI | RPV | VS-11-01 SHT- 01 | - 2/19/2007 |
| 172510 | JP-15-RB2d | JET PUMP #15 | AUG9-RB2d | ACP1211.36 | VT / BWRVIP-238 / NRI | RPV | VS-11-01 SHT- 01 | · 2/19/2007 |
| 172511 | BB1 | JET PUMP #15 | AUG9-BB1 | GE-UT-504 | UT / VE-07-060 / Accept | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172512 | BB2 | JET PUMP #15 | AUG9-BB2 | GE-UT-504 | UT / VE-07-061 / Accept | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172515 | JP-15-16 RS1 | JET PUMP RISER AT 324 DEG | AUG9-RS1 | ACP1211.36 | VT / BWRVIP-261 / NRI | RPV | VS-11-01 SHT- 01 | - 2/20/2007 |
| 172516 | JP-15-16 RS2 | JET PUMP RISER AT 324 DEG | AUG9-RS2 | ACP1211.36 | VT / BWRVIP-240 / NRI | RPV | VS-11-01 SHT- 01 | 2/20/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------------|--|----------|------------|-------------------------|--------|-----------------------|------------------|
| 172517 | JP-15-16 RS3 | JET PUMP RISER AT 324 DEG | AUG9-RS3 | ACP1211.36 | VT / BWRVIP-214 / NRI | RPV | VS-11-01 SHT 01 | - 2/18/2007 |
| 172518 | JP-15-RS6 | JET PUMP #15 | AUG9-RS6 | ACP1211.36 | VT / BWRVIP-213 / NRI | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172519 | BB3 | JET PUMP #15 | AUG9-BB3 | GE-UT-504 | UT / VE-07-062 / Accept | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |
| 172520 | JP-15-16 RS8 | JET PUMP RISER AT 324 DEG | AUG9-RS8 | ACP1211.36 | VT / BWRVIP-241 / NRI | RPV | VS-11-01 SHT- | - 2/19/2007 |
| 172521 | JP-15-16 RS9 | JET PUMP RISER AT 324 DEG | AUG9-RS9 | ACP1211.36 | VT / BWRVIP-242 / NRI | RPV | VS-11-01 SHT- 01 | - 2/19/2007 |
| 172522 | JP-15-IN4 | JET PUMP #15 | AUG9-IN4 | ACP1211.36 | VT / BWRVIP-243 / NRI | RPV | VS-11-01 SHT | - 2/20/2007 |
| 172523 | JP-15-MX2 | JET PUMP #15 | AUG9-MX2 | ACP1211.36 | VT / BWRVIP-244 / NRI | RPV | VS-11-01 SHT | - 2/20/2007 |
| 172524 | JP-15-WD1 | JET PUMP #15 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-024 / NRI | RPV | VS-11-01 SHT- 01 | - 2/8/2007 |
| 172525 | JP-15-DF1 | JET PUMP #15 | AUG9-DF1 | ACP1211.36 | VT / BWRVIP-205 / NRI | RPV | · VS-11-01 SHT- 01 | - 2/17/2007 |
| 172526 | JP-15-DF2 | JET PUMP #15 | AUG9-DF2 | ACP1211.36 | VT / BWRVIP-131 / NRI | RPV | VS-11-01 SHT- | - 2/16/2007 |
| 172527 | JP-15-AD1 | JET PUMP #15 | AUG9-AD1 | ACP1211.36 | VT / BWRVIP-207 / NRI | RPV | VS-11-01 SHT 01 | - 2/16/2007 · |
| 172528 | JP-15-AD2 | JET PUMP #15 | AUG9-AD2 | ACP1211.36 | VT / BWRVIP-132 / NRI | RPV | VS-11-01 SHT- 01 | - 2/16/2007 : |
| 172601 | JP-16-RB1 | JET PUMP RISER BRACE PAD TO VESSEL WELD | AUG9-RB1 | ACP1211.36 | VT / BWRVIP-216 / NRI | RPV | VS-11-01 SHT- 01 | - 2/18/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|------------|--------------|-----------|------------|-------------------------|--------|---------------------|-----------|
| 172602 | JP-16-RB1a | JET PUMP #16 | AUG9-RB1a | ACP1211.36 | VT / BWRVIP-211 / NRI | RPV | VS-11-01 SHT- | 2/18/2007 |
| 172604 | JP-16-RB1c | JET PUMP #16 | AUG9-RB1c | ACP1211.36 | VT / BWRVIP-212 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172607 | JP-16-RB2a | JET PUMP #16 | AUG9-RB2a | ACP1211.36 | VT / BWRVIP-262 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172609 | JP-16-RB2c | JET PUMP #16 | AUG9-RB2c | ACP1211.36 | VT / BWRVIP-215 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172611 | BB1 | JET PUMP #16 | AUG9-BB1 | GE-UT-504 | UT / VE-07-063 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172612 | BB2 | JET PUMP #16 | AUG9-BB2 | GE-UT-504 | UT / VE-07-064 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172618 | BB3 | JET PUMP #16 | AUG9-BB3 | GE-UT-504 | UT / VE-07-065 / Accept | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172619 | JP-16-RS7 | JET PUMP #16 | AUG9-RS7 | ACP1211.36 | VT / BWRVIP-217 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172622 | JP-16-IN4 | JET PUMP #16 | AUG9-IN4 | ACP1211.36 | VT / BWRVIP-220 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172623 | JP-16-MX2 | JET PUMP #16 | AUG9-MX2 | ACP1211.36 | VT / BWRVIP-221 / NRI | RPV | VS-11-01 SHT- 01 | 2/18/2007 |
| 172624 | JP-16-WD1 | JET PUMP #16 | AUG9-WD1 | ACP1211.36 | VT / BWRVIP-023 / NRI | RPV | VS-11-01 SHT- 01 | 2/8/2007 |
| 172625 | JP-16-DF1 | JET PUMP #16 | AUG9-DF1 | ACP1211.36 | VT / BWRVIP-165 / NRI | RPV | VS-11-01 SHT- 01 | 2/17/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

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5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------|------------------|----------|------------|-------------------------------------|--------|---------------------|-------------|
| 172626 | JP-16-DF2 | JET PUMP #16 | AUG9-DF2 | ACP1211.36 | VT / BWRVIP-166 / NRI | RPV | VS-11-01 SHT | 2/17/2007 |
| 172627 | JP-16-AD1 | JET PUMP #16 | AUG9-AD1 | ACP1211.36 | VT / BWRVIP-167 / NRI | RPV | VS-11-01 SHT- 01 | 2/17/2007 |
| 172628 | JP-16-AD2 | JET PUMP #16 | AUG9-AD2 | ACP1211.36 | VT / BWRVIP-164 / NRI | RPV | VS-11-01 SHT- 01 | 2/17/2007 |
| 175301 | SD-DC-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-113 / RI (CAP047697) | RPV | APED-B11-036 | 2/12/2007 |
| 175302 | SD-DC-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-077 / NRI | RPV | APED-B11-036 | 3 2/11/2007 |
| 175303 | SD-DC-V03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-094 / RI (CAP047697) | RPV | APED-B11-036 | 3 2/11/2007 |
| 175304 | SD-DC-V04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-064 / NRI | RPV | APED-B11-036 | 3 2/10/2007 |
| 175305 | SD-DC-V05 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-114 / RI (CAP047697) | RPV | APED-B11-036 | 3 2/12/2007 |
| 175306 | SD-DC-V06 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-100 / NRI | RPV | APED-B11-036 | 5 2/12/2007 |
| 175307 | SD-DC-V07 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-115 / NRI | RPV | APED-B11-036 | 5 2/12/2007 |
| 175308 | SD-DC-V08 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-119 / NRI | RPV | APED-B11-036 | 2/13/2007 |
| 175309 | SD-DC-V09 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-122 / RI (CAP047697) | RPV | APED-B11-036 | 2/12/2007 |
| 175310 | SD-DC-V10 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-121 / NRI | RPV | APED-B11-036 | 3 2/12/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|------------------|---------------------|----------|------------|-------------------------------------|--------|--------------------|-------------|
| 175311 | SD-DC-V11 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-127 / NRI | RPV | APED-B11-03 | 6 2/9/2007 |
| 175312 | SD-DC-V12 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-071 / NRI | RPV | APED-B11-03 | 6 2/9/2007 |
| 175313 | SD-DC-V13 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-018 / NRI | RPV | APED-B11-03 | 6 2/8/2007 |
| 175314 | SD-DC-V14 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-010 / NRI | RPV · | APED-B11-03 | 6 2/8/2007 |
| 175315 | SD-DC-V15 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-001 / NRI | RPV | APED-B11-03 | 6 2/6/2007 |
| 175316 | SD-DC-V16 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-070 / RI (CAP047697) | RPV | APED-B11-03 | 6 2/10/2007 |
| 175320 | SD-LL 30 DEG | STEAM DRY LIFT LUGS | AUG9-DRY | ACP1211.36 | VT / BWRVIP-095 / NRI | RPV | VS-07-01 SHT 01 | - 2/11/2007 |
| 175321 | SD-LL 150 DEG | STEAM DRY LIFT LUGS | AUG9-DRY | ACP1211.36 | VT / BWRVIP-103 / NRI | RPV | VS-07-01 SHT 01 | - 2/11/2007 |
| 175322 | SD-LL 210 DEG | STEAM DRY LIFT LUGS | AUG9-DRY | ACP1211.36 | VT / BWRVIP-056 / NRI | RPV | VS-07-01 SHT 01 | - 2/9/2007 |
| 175323 | SD-LL 330 DEG | STEAM DRY LIFT LUGS | AUG9-DRY | ACP1211.36 | VT / BWRVIP-029 / NRI | RPV | VS-07-01 SHT 01 | - 2/6/2007 |
| 175330 | SD-TIE BAR 1 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-111 / NRI | RPV | APED-B11-03 | 6 2/12/2007 |
| 175331 | SD-TIE BAR 2 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-112 / NRI | RPV | APED-B11-03 | 6 2/12/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|---|---------------------|----------|------------|-------------------------------------|--------|--------------|--------------------------------|
| 175332 | SD-TIE BAR 3 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-110 / NRI | RPV | APED-B11-03 | 6 2/12/2007 |
| 175333 | SD-TIE BAR 4 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-106 / NRI | RPV | APED-B11-036 | 6 2/12/2007 |
| 175334 | SD-TIE BAR 5 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-105 / NRI | RPV | APED-B11-03 | 6 2/12/2007 |
| 175335 | SD-TIE BAR 6 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-109 / NRI | RPV | APED-B11-036 | 6 2/12/2007 |
| 175336 | SD-TIE BAR 7 | STEAM DRYER TIE BAR | AUG9-DRY | ACP1211.36 | VT / BWRVIP-107 / NRI | RPV | APED-B11-03 | 6 2/12/2 _, 007 : |
| 175340 . | SD-UPPER SUPPORT RING 000- 090 DEG | UPPER SUPPORT RING | AUG9-DRY | ACP1211.36 | VT / BWRVIP-289 / NRI | RPV | APED-B11-03 | 6 2/14/2007 |
| 175341 | SD-UPPER SUPPORT RING 090- 180 DEG | UPPER SUPPORT RING | AUG9-DRY | ACP1211.36 | VT / BWRVIP-292 / NRI | RPV | APED-B11-03 | 6 2/13/2007 |
| 175342 | SD-UPPER SUPPORT RING 180- 270 DEG | UPPER SUPPORT RING | AUG9-DRY | ACP1211.36 | VT / BWRVIP-118 / RI (CAP047697) | RPV | APED-B11-036 | 6 2/13/2007 |
| 175343 | SD-UPPER SUPPORT RING 270-0 DEG | UPPER SUPPORT RING | AUG9-DRY | ACP1211.36 | VT / BWRVIP-099 / RI (CAP047697) | RPV | APED-B11-03 | 6 2/11/2007 |
| 175343.(a) | SD-UPPER SUPPORT RING 270-0 DEG | UPPER SUPPORT RING | AUG9-DRY | ACP1211.36 | VT / BWRVIP-116 / RI (CAP047697) | RPV | APED-B11-03 | 6 2/12/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------|-------------------------------|----------|------------|-------------------------------------|--------|--------------|-------------|
| 175401 | SD-R1 | STEAM DRYER COVER PLATE | AUG9-DRY | ACP1211.36 | VT / BWRVIP-082 / NRI | RPV | APED-B11-036 | 5 2/10/2007 |
| 175402 | SD-R2 | STEAM DRYER COVER PLATE | AUG9-DRY | ACP1211.36 | VT / BWRVIP-098 / RI (CAP047697) | RPV | APED-B11-036 | 5 2/10/2007 |
| 175403 | SD-C-1 | STEAM DRYER MANWAY COVER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-058 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175410 | SD-DE-V03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-043 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175411 | SD-DE-V04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-041 / NRI | RPV | APED-B11-036 | 3 2/8/2007 |
| î 175412 | SD-DE-H03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-042 / NRI | RPV | APED-B11-036 | 3 2/8/2007 |
| 175413 | SD-DE-H04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-016 / NRI | RPV | APED-B11-036 | 3 2/8/2007 |
| 175414 | SD-CE-V03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-006 / NRI | RPV | APED-B11-036 | 3 2/8/2007 |
| 175415 | SD-CE-V04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-008 / NRI | RPV | APED-B11-036 | 3 2/8/2007 |
| 175416 | SD-CE-H03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-003 / NRI | RPV | APED-B11-036 | 5 2/7/2007 |
| 175417 | SD-CE-H04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-007 / NRI | RPV | APED-B11-036 | 6 2/8/2007 |
| 175418 | SD-BE-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-079 / NRI | RPV | APED-B11-036 | 3 2/11/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------|------------------|----------|------------|-----------------------|--------|--------------|-----------------|
| 175419 | SD-BE-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-080 / NRI | RPV | APED-B11-036 | 2/10/2007 |
| 175420 | SD-BE-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-078 / NRI | RPV | APED-B11-036 | 2/11/2007 |
| 175421 | SD-BE-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-059 / NRI | RPV | APED-B11-036 | 2/10/2007 |
| 175422 | SD-AE-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-053 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175423 | SD-AE-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-054 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175424 | SD-AE-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-060 / NRI | RPV | APED-B11-036 | 3 2/10/2007 |
| 175425 | SD-AE-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-052 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175426 | SD-AH-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-084 / NRI | RPV | APED-B11-036 | 3 2/10/2007 |
| 175427 | SD-AH-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-085 / NRI | RPV | APED-B11-036 | * |
| 175428 | SD-AH-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-050 / NRI | RPV | APED-B11-036 | : 3 2/9/2007 |
| 175429 | SD-AH-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-051 / NRI | RPV | APED-B11-036 | 3 2/9/2007 |
| 175430 | SD-AE-V03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-083 / NRI | RPV | APED-B11-036 | 5 2/10/2007 |
| 175431 | SD-AE-V04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-063 / NRI | RPV | APED-B11-036 | 5 2/10/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------|------------------|----------|------------|-----------------------|--------|--------------|-------------|
| 175432 | SD-AE-H03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-062 / NRI | RPV | APED-B11-03 | 6 2/10/2007 |
| 175433 | SD-AE-H04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-055 / NRI | RPV · | APED-B11-03 | 6 2/9/2007 |
| 175434 | SD-BE-V03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-092 / NRI | RPV | APED-B11-036 | 6 2/11/2007 |
| 175435 · · | SD-BE-V04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-091 / NRI | RPV | APED-B11-030 | 6 2/11/2007 |
| 175436 | SD-BE-H03 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-093 / NRI | RPV | APED-B11-036 | 6 2/11/2007 |
| 175437 | SD-BE-H04 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-076 / NRI | RPV | APED-B11-036 | 6 2/11/2007 |
| 175438 | SD-CE-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-066 / NRI | RPV | APED-B11-036 | 6 2/10/2007 |
| 175439 | SD-CE-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-068 / NRI | RPV | APED-B11-03 | 6 2/10/2007 |
| 175440 | SD-CE-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-067 / NRI | RPV | APED-B11-036 | 6 2/10/2007 |
| 175441 | SD-CE-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-065 / NRI | RPV | APED-B11-036 | 6 2/10/2007 |
| 175442 | SD-DE-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-013 / NRI | RPV | APED-B11-036 | 6 2/8/2007 |
| 175443 | SD-DE-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-040 / NRI | RPV | APED-B11-036 | 6 2/8/2007 |

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Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|---------------------------------|----------------------------|----------|------------|-------------------------------------|--------|---------------------|-----------|
| 175444 | SD-DE-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-014 / NRI | RPV | APED-B11-036 | 2/8/2007 |
| 175445 | SD-DE-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-012 / NRI | RPV | APED-B11-036 | 2/8/2007 |
| 175450 | SD-DH-V01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-047 / NRI | RPV | APED-B11-036 | 2/9/2007 |
| 175451 | SD-DH-V02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-046 / NRI | RPV | APED-B11-036 | 2/9/2007 |
| 175452 | SD-DH-H01 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-049 / NRI | RPV | APED-B11-036 | 2/9/2007 |
| 175453 | SD-DH-H02 | STEAM DRYER WELD | AUG9-DRY | ACP1211.36 | VT / BWRVIP-015 / NRI | RPV | APED-B11-036 | 2/8/2007 |
| 175604 | -TGG (14-19) | TOP GUIDE | AUG9-TG | ACP1211.36 | VT / BWRVIP-177 / NRI | RPV | VS-04-01 SHT- | 2/18/2007 |
| 175606 | TGG (30-19) | TOP GUIDE | AUG9-TG | ACP1211.36 | VT / BWRVIP-179 / NRI | RPV | VS-04-01 SHT- 01 | 2/18/2007 |
| 175607 | TGG (30-27) | TOP GUIDE | AUG9-TG | ACP1211.36 | VT / BWRVIP-180 / NRI | RPV | VS-04-01 SHT- 01 | 2/18/2007 |
| 175608 | TGG (14-27) | TOP GUIDE | AUG9-TG | ACP1211.36 | VT / BWRVIP-178 / NRI | RPV | VS-04-01 SHT- 01 | 2/18/2007 |
| 175800 | SD-ACCESS OPENING 040 DEG | S ACCESS OPENING AT 40 DEG | AUG9-DRY | ACP1211.36 | VT / BWRVIP-096 / RI (CAP047697) | RPV | APED-B11-036 | 2/11/2007 |

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Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

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|-------------|---------------------------------|--|--------------|------------|-------------------------------------|--------|--------------------|-----------|
| 175801 | SD-ACCESS OPENING 140 DEG | ACCESS OPENING AT 140 DEG | AUG9-DRY | ACP1211.36 | VT / BWRVIP-102 / RI (CAP047697) | RPV | APED-B11-036 | 2/11/2007 |
| 175802 | SD-ACCESS OPENING 220 DEG | ACCESS OPENING AT 220 DEG | AUG9-DRY | ACP1211.36 | VT / BWRVIP-072 / RI (CAP047697) | RPV | APED-B11-036 | 2/10/2007 |
| 175803 | SD-ACCESS OPENING 320 DEG | ACCESS OPENING AT 320 DEG | AUG9-DRY | ACP1211.36 | VT / BWRVIP-075 / RI (CAP047697) | RPV | APED-B11-036 | 2/10/2007 |
| Class 1 C | ategory AU0 RSB-J004 | G-GL 90 DEGREE LONG RADIUS ELBOW - PIPE | 87-11 | ACP1211.19 | UT / UT-07-121, 122 / Accept | RS | 1.2-18 SHT-01 | 2/24/2007 |
| 101850 | RSB-J006 | CONTROL VALVE CHECK - 90 DEGREE LONG RADIUS ELBOW | 87-11 | ACP1211.19 | UT / UT-07-123, 124 / Accept | RS | 1.2-18 SHT-01 | 2/24/2007 |
| 76050 | CUB-J001 | PIPE - TEE | 87-11 | ACP1211.19 | UT / UT-07-105, 106 / Accept | CU | 1.2-11B SHT- 01 | 2/24/2007 |
| 76150 | CUB-J002 | CHECK - PIPE | 87-11 | ACP1211.19 | UT / UT-07-125, 126 / Accept | CU | 1.2-11B SHT- 01 | 2/24/2007 |
| Class 1 C | ategory AU0 RCA-F002 | G-NRG NOZZLE - SAFEEND | 0313C-D | ACP1211.38 | UT / UT-07-144 / Accept | RC | 1.2-19A SHT- 01 | 2/26/2007 |
| 104410 | RCA-J005B | PIPE-CAP | 0313C-D | ACP1211.20 | UT / UT-07-104, 103 / Accept | RC | 1.2-19A SHT- 01 | 2/24/2007 |
| 108500 | RCA-J034 | BRANCH CONNECTION - WELDOLET | 0313C-D | ACP1211.20 | UT / UT-07-093 / Accept | RC | 1.2-19A SHT- 01 | 2/8/2007 |

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|-------------|------------------|---------------------------------------|---------|---------------------------------------|--|--------|---------------------|----------------|
| 109800 | RCA-J043 | TEE - PIPE CROSS | 0313B-C | ACP1211.20 | UT / UT-07-035, 036 / Accept | RC | 1.2-19A SHT- 01 | 2/15/2007 |
| 112600 | RBA-J006 | PIPE - TEE | 0313C-D | ACP1211.20 | UT / UT-07-085, 086 / Accept | RB | 1.2-19A SHT- 01 | 2/20/2007 |
| 119610 | RRE-F002 | SAFEEND - NOZZLE | 0313C-D | Zetec_OmniSc anPA_03 ACP1211.38 | UT / VE-07-005 / Accept UT / UT-07-083 / Accept | RR | 1.2-20 SHT-01 | 2/10/2007 |
| 122610 | RRG-F002 | SAFEEND - NOZZLE | 0313C-D | Zetec_OmniSc anPA_03 ACP1211.38 | UT / VE-07-010 / Accept UT / UT-07-099 / Accept | RR | 1.2-20 SHT-01 | 2/21/2007 |
| 124110 | RRH-F002 | SAFEEND - NOZZLE | 0313C-D | ACP1211.38 | UT / UT-07-084 / Accept | RR | 1.2-20 SHT-01 | 2/19/2007 |
| 126110 | RCB-F002 | NOZZLE - SAFEEND | 0313C-D | Zetec_OmniSc anPA_03 ACP1211.38 | UT / VE-07-007 / Accept | RC | 1.2-21A SHT- 01 | 2/27/2007 |
| 142710 | RRA-F002 | SAFEEND - NOZZLE | 0313C-D | ACP1211.38 Zetec_OmniSc anPA_03 | UT / UT-07-027 / Accept | RR | 1.2-22 SHT-01 | 2/11/2007 |
| 145300 | RRB-J005 | PIPE - 90 DEGREE LONG RADIUS ELBOW | 0313B-C | ACP1211.20 | UT / UT-07-005, 006 / Accept | RR | 1.2-22 SHT-01 | 2/6/2007 |
| 145910 | RRC-F002 | SAFEEND - NOZZLE | 0313C-D | Zetec_OmniSc anPA_03 ACP1211.38 | UT / VE-07-014 / Reject (See NIS-2 20-07-49) UT / UT-07-148 / Accept | RR | 1.2-22 SHT-01 | 2/19/2007 ; |
| 168405 | FWB at 6 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-313 / RI (CAP047394) | RPV | VS-09-01 SHT- 01 | - 2/15/2007 |
| 168410 | FWB at 84 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-316 / NRI | RPV | VS-09-01 SHT- 01 | 2/15/2007 |

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5. Commercial Service Date: 02/01/1975

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|-------------|-------------------------------------|-------------------|------|------------|-------------------------------------|--------|----------------------|-----------|
| 168415 | FWB at 96 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-311 / RI (CAP047394) | RPV | VS-09-01 SHT- 01 | 2/15/2007 |
| 168420 | FWB at 174 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-308 / RI (CAP047394) | RPV | VS-09-01 SHT- 01 | 2/14/2007 |
| 168425 | FWB at 186 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-306 / RI (CAP047394) | RPV . | VS-09-01 SHT- 01 | 2/14/2007 |
| 168430 | FWB at 264 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-303 / RI (CAP047394) | RPV | VS-09-01 SHT- .01 | 2/14/2007 |
| 168435 | FWB at 276 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-297 / RI (CAP047394) | RPV | VS-09-01 SHT- 01 | 2/14/2007 |
| 168440 | FWB at 354 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-301 / RI (CAP047394) | RPV | VS-09-01 SHT- 01 | 2/14/2007 |
| 168445 | T-Box to Spgr Weld at 45 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-315 / NRI | RPV | VS-09-01 SHT- 01 | 2/15/2007 |
| 168450 | T-Box to Spgr Weld at 135 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-310 / NRI | RPV | VS-09-01 SHT- 01 | 2/15/2007 |
| 168455 | T-Box to Spgr Weld at 225 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-305 / NRI | RPV | VS-09-01 SHT- 01 | 2/14/2007 |
| 168460 | T-Box to Spgr Weld at 315 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-299 / NRI | RPV | VS-09-01 SHT- 01 | 2/14/2007 |
| 168480 | FW Inner Rad at 315 DEG | FEEDWATER BRACKET | 0619 | ACP1211.36 | VT / BWRVIP-300 / NRI | RPV | VS-09-01 SHT- 01 | 2/14/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|-----------------------|--|-------|---------------------------------------|--|--------|--------------------|-----------|
| 5210 | FWA-BORE | NOZZLE BORE (ZONE 3) | 0619 | ACP1211.44 | UT / UT-07-054 / Accept | FW | 1.2-05 SHT-01 | 2/13/2007 |
| 5500 | FWA- NOZZLE | NOZZLE (ZONES 1 AND 2) | 0619 | ACP1211.44 | UT / UT-07-049 / Accept | FW | 1.2-05 SHT-01 | 2/13/2007 |
| 5600 | FWA- THERM SLEV | THERMAL SLEEVE WELD | 0619 | ACP1211.43 | UT / UT-07-050, 051 / Accept | FW | 1.2-05 SHT-01 | 2/16/2007 |
| 61100 | CSA-F002 | SAFEEND - NOZZLE | 0313D | _ | UT / VE-07-009 / Accept UT- 2 07-146 / Accept | · CS | 1.2-07 SHT-01 | 2/27/2007 |
| 64400 | CSB-F002 | SAFEEND - NOZZLE | 0313D | ACP1211.38 Zetec_OmniSc anPA_03 | UT / UT-07-082 / Accept UT / VE-07-004 / Accept | CS | 1.2-08 SHT-01 | 2/17/2007 |
| 64600 | CSB-F002A | SAFEEND - S/E Extension | 0313D | ACP1211.38 | UT / UT-07-113, 115, 117, 120 / Accept | cs | 1.2-08 SHT-01 | 2/18/2007 |
| 64800 | CSB-F004 | PIPE - PIPE | 0313D | ACP1211.38 | UT / UT-07-127, 128, 129, 130 / Accept | CS | 1.2-08 SHT-01 | 2/18/2007 |
| 65000 | CSB-J003 | PIPE - S.E. EXTENSION | 0313D | ACP1211.20 | UT / UT-07-087, 088 / Accept | cs | 1.2-08 SHT-01 | 2/18/2007 |
| 71200 | CUA-J001 | WELDOLET - PIPE | 0313D | ACP1211.20 | UT / UT-07-038, 039 / Accept | CU | 1.2-11A SHT- 01 | 2/14/2007 |
| 72000 | CUA-J006 | 90 DEGREE LONG RADIUS ELBOW - PIPE | 0313D | ACP1211.20 | UT / UT-07-040, 041 / Accept | CU | 1.2-11A SHT- 01 | 2/14/2007 |
| 72300 | CUA-J009 | PIPE - 45 DEGREE ELBOW | 0313D | ACP1211.20 | UT / UT-07-042, 043 / Accept | CU | 1.2-11A SHT- 01 | 2/14/2007 |
| 72500 | CUA-J010 | 45 DEGREE ELBOW - MOTOR OPERATED GATE | 0313D | ACP1211.20 | UT / UT-07-025, 026 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

6. National Board Number for Unit: N/A

| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
|-------------|----------|--|---------|------------|---|--------|--------------------|-----------|
| 72700 | CUA-J012 | MOTOR OPERATED GATE - 90 DEGREE LONG RADIUS ELBOW | 0313D | ACP1211.20 | UT / UT-07-023, 024 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 72900 | CUA-J013 | 90 DEGREE LONG RADIUS ELBOW - PIPE | 0313D | ACP1211.20 | UT / UT-07-021, 022 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 73100 | CUA-J014 | PIPE - 90 DEGREE LONG RADIUS ELBOW | 0313D | ACP1211.20 | UT / UT-07-019, 020 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 73300 | CUA-J015 | 90 DEGREE LONG RADIUS ELBOW - PIPE | 0313D | ACP1211.20 | UT / UT-07-017, 018 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 73500 | CUA-J017 | PIPE - 90 DEGREE LONG RADIUS ELBOW | 0313D | ACP1211.20 | UT / UT-07-016, 015 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 73700 | CUA-J018 | 90 DEGREE LONG RADIUS ELBOW - PIPE | 0313D | ACP1211.20 | UT / UT-07-013, 014 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 73900 | CUA-J019 | PIPE - 45 DEGREE ELBOW | 0313D | ACP1211.20 | UT / UT-07-011, 012 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 74100 | CUA-J020 | 45 DEGREE ELBOW - 90 DEGREE LONG RADIUS ELBOW | G 0313D | ACP1211.20 | UT / UT-07-010, 009 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 74300 | CUA-J021 | 90 DEGREE LONG RADIUS ELBOW - PIPE | 0313D | ACP1211.20 | UT / UT-07-036, 037 / Accept | CU . | 1.2-11A SHT- 01 | 2/16/2007 |
| 74500 | CUA-J023 | PIPE -PIPE | 0313D | ACP1211.20 | UT / UT-07-007, 008 / Accept | CU | 1.2-11A SHT- 01 | 2/8/2007 |
| 74700 | CUA-J024 | PIPE - MOTOR OPERATED GATE | 0313D | ACP1211.20 | UT / UT-07-030, 031 / Accept | cu | 1.2-11A SHT- 01 | 2/12/2007 |
| 92800 | RHC-F002 | PIPE | 0313C | ACP1211.38 | UT / UT-07-089, 090, 091, 092 / Accept | RH | 1.2-15 SHT-01 | 2/15/2007 |

Class 1 Category AUG-VIP

1. Owner: FPL Energy Duane Arnold LLC, PO Box 14000

Juno Beach, FL 33409-0420

2. Plant: Duane Arnold Energy Center, 3277 DAEC Road,

Palo, IA 52324 3. Plant Unit: 1 4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: 02/01/1975

| | | | | - | | | • | |
|-------------|-------------------------|---------------------------------------|---------|------------|-------------------------|--------|---------------------|---|
| Summary No. | Comp. ID | Comp. Desc. | Item | Procedure | Method/Report/Results | System | Dwg/ISO | Exam Date |
| 175050 | SHD-H-8 & F 9 | REACTOR VESSEL SHROUD LEDGE | IVI-3-9 | ACP1211.36 | VT / BWRVIP-264 / NRI | RPV | VS-02-11 SHT- 01 | 2/20/2007 |
| | Category AU | | | | | | | |
| 501675 | TORUS SUPPORT #13 | TORUS SUPPORT BETWEEN BAYS 13 8 14 | k VOL | ACP1211.18 | VT / VT-07-006 / Accept | TC | 5.1-02 (2) | 1/9/2007 |
| 501680 | TORUS SUPPORT #14 | TORUS SUPPORT BETWEEN BAYS 14 8 15 | k VOL | ACP1211.18 | VT / VT-07-007 / Accept | тс | 5.1-02 (2) | 1/9/2007 |
| 501682 | EARTH | EARTH QUAKE TIE (BAY 15) | VOL | ACP1211.18 | VT / VT-07-040 / Accept | тс | 5.1-02 | 2/18/2007 |
| | QUAKE TIE #4 | • | | | | | · | # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 501685 | TORUS SUPPORT | TORUS SUPPORT BETWEEN BAYS 15 8 | k VOL | ACP1211.18 | VT / VT-07-008 / Accept | TC | 5.1-02 (2) | 1/9/2007 |
| | #15 | | | | | | | |
| 501690 | TORUS SUPPORT #16 | TORUS SUPPORT BETWEEN BAYS 16 8 | k VOL | ACP1211.18 | VT / VT-07-009 / Accept | тс | 5.1-02 (2) | 1/9/2007 |
| Class N (| Category AU | G | | | | | | |
| 357600 | 1R-001A | ACCUMULATOR TANK (INSIDE | N/A | ACP1211.10 | VT / VE-07-015 / Accept | MS | M048-001 | 2/21/2007 |
| 359000 | 1T-115B | NORMAL START AIR RECEIVER TANK | N/A | ACP1211.10 | VT / VT-07-005 / Accept | DAS | M15-58-1 | 12/20/2006 |