

#### **Duane Arnold Energy Center**

Operated by Nuclear Management Company, LLC

July 29, 2005

NG-05-0420 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 and 10 CFR Section 50.55a(g), Nuclear Management Company, LLC (NMC) herewith submits the Refueling Outage (RFO) 19 Inservice Inspection Summary Report (Enclosure 1). This report addresses examinations that were performed at the Duane Arnold Energy Center (DAEC) during the time period from April 21, 2003 through May 3, 2005. Information regarding augmented inspections performed during RFO 19 is included in Enclosure 2. Enclosure 3 provides amended information from previously submitted RFO 17 and RFO 18 Summary Reports. These pages are being provided to correct minor errors that were identified on three pages of these reports.

As noted on Form NIS-1 included in the RFO 19 Summary Report, the third ten-year interval began on November 1, 1996 and will end on October 31, 2006. This end date has been changed from that shown on Form NIS-1 included with the RFO 18 Summary Report. The second ten year interval began on November 1, 1985 and had been previously extended in accordance with IWA-2430(d), resulting in an eleven year second interval. IWA-2430(d) states that interval adjustments shall not cause successive intervals to be altered by more than 1 year from the original pattern of intervals. Ending the third interval on October 31, 2006 meets this requirement and is therefore allowed by IWA-2430.

Gan Van Middlesworth

Site Vice President, Duane Arnold Energy Center

Nuclear Management Company, LLC

Enclosures (3)

cc: Administrator, Region III, USNRC

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

4047

3277 DAEC Road • Palo, Iowa 52324-9785 Telephone: 319.851.7611

### ENCLOSURE 1 TO NG-05-0420

\*ASME Section XI Summary Report

Duane Arnold Energy Center

Refueling Outage 19

(Period 3)

# THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

#### **DUANE ARNOLD ENERGY CENTER**

UNIT#I PALO, IOWA

Commercial Service Date: February 1, 1975

### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION SUMMARY REPORT

April 21, 2003 through May 3, 2005

Dated: July 28, 2005

OWNER:

**ALLIANT ENERGY** 

P.O. Box 351

Cedar Rapids, Iowa 52406

Prepared by:	ASME Section XI Administrator	Date: 7/26/05
Reviewed by:	Swall Justice Program Engineering Staff	Date: <u>7-26-05</u>
Reviewed by:	Inspection and Materials Supervisor	
Concurred by:	Program Engineering Manager	

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

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### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

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	Form NIS-1 Certificate of Inservice Inspection Abstract Table of Component and Weld Examination Identification Records Table of Additional and Successive Examinations Identification Records Abstract of ASME Section XI Repairs and Replacements Form NIS-2's Abstract of Conditions Noted and Corrective Measures Taken ISI Figures and Isometrics Status of Work for Third Ten Year Interval

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

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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: Interstate Power and Light Company, an Alliant Company, P.O. Box 351, Cedar Re	apids, IA 52406 *
(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 1 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 (PP1-3), Part C (P1), Part D (PP1-6), Part E (P1),	
Part F (PP1-3), Part G (PP1-75), Part H (P1), Part I (PP1-41),	
Part J (PP1-5), and Part K (PP1-2).	

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 1-3, of thi	s report for a contin	uation of compone	ents examined
İ			1	Ì

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, NY 10010

Part A, Page 2 of 2

### FORM NIS-1 (back)

8. Examination Dates 4/21/03 to 5/03/05 9. Inspection Interval from 11/01/96 to 10/31/06

10. Abstract of Examinations. Include a list of examinations for current interval.  Refer to Part C, Part D, and Part J.	and a statement concerning status of work required
11. Abstract of Conditions Noted Refer to Part H.	
12. Abstract of Corrective Measures Recommended and Tak Refer to Part H.	en
We certify that the statements made in this report a measures taken conform to the rules of the ASME Code, Sec.	
Date July 27 2005	
Signed Jany Mon / / whileway	By Gary D. Van Middlasworth
Certificate of Authorization No. (if applicable)N/A	Expiration Date N/A
CERTIFICATE OF INSER	VICE INSPECTION
I, the undersigned, holding a valid commission issued by Inspectors and/or the State or Province of <u>Iowa</u> and employe components described in this Owner's Data Report during t best of my knowledge and belief, the Owner has perfo described in this Owner's Data Report in accordance with the	the by HSB CT of Hartford CT have inspected the he period 4/21/03 to 5/3/05, and state that to the ramed examinations and taken corrective measures
By signing this certificate neither the inspector nor his enconcerning the examinations and corrective measures desineither the Inspector, nor his employer shall be liable in any or a loss of any kind arising from or connected with this insp	cribed in this Owner's Data Report. Furthermore, manner for any personal injury or property damage
Date 7- 2005.	
.0.	149614
Inspector's Signature	Commissions <u>NB 12329 A~ F_1</u> National Board, State, Province and No.
Inspector a Digitatore	. I tational Douta, Dute, I to thice and Ivo.

<sup>\*</sup> Note - Other owners are Central Iowa Power Cooperative and Com Belt Power Cooperative.

April 21, 2003 through May 3, 2005

Part B, page 1 of 3

Owners: Interstate Power and Light Company,

an Alliant Company P.O. Box 351

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

Cedar Rapids, IA. 52406

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 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

April 21, 2003 through May 3, 2005

Part B, page 2 of 3

 Owners: Interstate Power and Light Company, an Alliant Company Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

P.O. Box 351 Cedar Rapids, IA. 52406

Plant: Duane Amold 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: 614 MWE

#### CERTIFICATE OF INSERVICE INSPECTION

#### **COMPONENTS EXAMINED:**

CLASS 1	
Component	Iso No
Component	
Reactor Vessel	1.1-08B VS-01-06/-07/-08
	VS-01-00/-07/-08 VS-01-22/-23/-41
	VS-12-01/-02
	VS-13-02/-03
Reactor Vessel Stabilizers	1.1-10
Main Steam	1.2-03/-04
Feedwater	1.2-05/-06
Core Spray	1.2-07
High Pressure Coolant Injection	1.2-09
Control Rod Drive Return	1.2-12A&B
Residual Heat Removal	1.2-16
Recirculation Pump 'A' Suction	1.2-19A
Recirculation Manifold 'A' and Risers 'F' & 'G'	1.2-20
Recirculation Drain 'A'	1.2-21B
Recirculation Manifold 'B' and Riser 'D'	1.2-22
Jet Pump Instrumentation	1.2-26
Liquid Level Control	1.2-27
Reactor Vessel Instrumentation	1.2-29

1 V V I	
Component	Iso No
Vessel Head	VS-01-06
Core Spray Brackets	VS-01-26
Feedwater Brackets	VS-01-27
Guide Rod Brackets	VS-01-28
Steam Dryer Brackets	VS-01-29/-30
Surveillance Specimen Brackets	VS-01-31
Jet Pump Riser Support Pads	VS-01-34

April 21, 2003 through May 3, 2005

Part B, page 3 of 3

1) Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative Humbolt, IA.

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

3) Plant Unit: #1

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: 614 MWE

#### **CERTIFICATE OF INSERVICE INSPECTION**

#### **COMPONENTS EXAMINED:**

IVVI Continued					
Component	Iso No				
Shroud Ledge	VS-02-11				
Peripheral Fuel Support Pieces	VS-03-09				
Top Guide	VS-04-01				
Sample Holder	VS-10-02				
Bottom Head CRD Housing Stub Tubes	VS-12-01/-02				
CLASS 2					
Component	Iso No				

There were no Class 2 component or weld examinations performed during this outage.

April 21, 2003 through May 3, 2005

Part C, page 1 of 1

Owners: Interstate Power and Light Company, an Alliant Company

Central Iowa Power Cooperative

Corn Belt Power Cooperative

P.O. Box 351

Marion, IA.

Humbolt, IA.

Cedar Rapids, IA. 52406

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 MWE

#### CERTIFICATE OF INSERVICE INSPECTION

#### **ABSTRACT:**

2)

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 April 21, 2003 through May 3, 2005. The specific details and associated records of the examinations are on file at Duane Arnold Energy Center.

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

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April 21, 2003 through May 3, 2005

Part D, page 1 of 6

Owners: Interstate Power and Light Company, an Alliant Company
P.O. Box 351
Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

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

3) Plant Unit: #1

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: 614 MWE

	***************************************		CLASS 1			
		ISI			ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
Reactor Vessel	1R215(02-19)	105002	UT	1.1-08	B-O	Accepted
	1R215(02-27)	105003	UT	1.1-08	B-O	Accepted
	1R215(42-27)	105004	UT	1.1-08	B-O	Accepted
	1R215(06-23)	105125	VT-1	1.1-08	B-G-2	Accepted
	1R215(10-11)	105146	VT-1	1.1-08	B-G-2	Accepted
	1R215(10-23)	105147	VT-1	1.1-08	B-G-2	Accepted
	1R215(14-07)	I05128	VT-1	1.1-08	B-G-2	Accepted
	1R215(14-11)	I05129	VT-1	1.1-08	B-G-2	Accepted
	1R215(18-31)	I05131	VT-1	1.1-08	B-G-2	Accepted
	1R215(22-03)	I05132	VT-1	1.1-08	B-G-2	Accepted
	1R215(22-07)	I05133	VT-1	1.1-08	B-G-2	Accepted
	1R215(22-11)	I05134	VT-1	1.1-08	B-G-2	Accepted
	1R215(26-11)	I05136	VT-1	1.1-08	B-G-2	Accepted
	1R215(26-31)	I05137	VT-1	1.1-08	B-G-2	Accepted
	1R215(30-15)	I05138	VT-1	1.1-08	B-G-2	Accepted
	1R215(30-31)	I05139	VT-1	1.1-08	B-G-2	Accepted
	1R215(30-39)	I05140	VT-1	1.1-08	B-G-2	Accepted
	1R215(34-11)	I05144	VT-1	1.1-08	B-G-2	Accepted
	1R215(34-39)	I05143	VT-1	1.1-08	B-G-2	Accepted
	1R215(34-07)	I05141	VT-1	1.1-08	B-G-2	Accepted by
	, ,					Replacement
						CAP036901
	HCC-B002	105069	UT	VS-01-06	B-A	Accepted
	(HOLES 40-60)					-
	HMC-B001	105070	UT	VS-01-06	B-A	Accepted
	HMC-B002	105071	UT	VS-01-06	B-A	Accepted
	HMC-B003	105072	UT	VS-01-06	B-A	Accepted
	HMC-B004	105073	UT	VS-01-06	B-A	Accepted
	HMC-B005	105074	UT	VS-01-06	B-A	Accepted
	HMC-B006	105075	UT	VS-01-06	B-A	Accepted
	HCC-C001	105076	UT	VS-01-06	B-A	Accepted
	(HOLES 40-60)		MT			•
	HCC-C001	105076	UT	VS-01-06	B-A	Accepted
	(HOLES 60-20)		MT			•
	HCA-B001	107078	UT	VS-01-07	B-A	Accepted
	HMA-B001	105079	UT	VS-01-07	B-A	Accepted
	HMA-B002	105080	UT	VS-01-07	B-A	Accepted
	HMA-B003	105081	UT	VS-01-07	B-A	Accepted
	HMA-B004	105082	UT	VS-01-07	B-A	Accepted
	HMA-B005	105083	UT	VS-01-07	B-A	Accepted
	HMA-B006	105084	UT	VS-01-07	B-A	Accepted

April 21, 2003 through May 3, 2005

Part D, page 2 of 6

Owners: Interstate Power and Light Company, an Alliant Company

P.O. Box 351 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

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

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

3) Plant Unit: #1

5) Commercial Service Date: 02/01/75 Gross Generating Capacity: 614 MWE

National Board Number of Unit: N/A

		CLA	SS 1 Continued			
		ISI	_		ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
	HMA-B007	105085	UT	VS-01-07	B-A	Accepted
	HMA-B008	105086	UT	VS-01-07	B-A	Accepted
	HMA-B009	105087	UT	VS-01-07	B-A	Accepted
	HCA-H002	105088	MT	VS-01-08	B-K	Accepted
	VSK-K001	105089	VT-3	VS-01-08	F-A	Accepted
	VFA-E001	105001	VT-2	VS-01-22	B-E	Accepted
	VFA-E002	105001	VT-2	VS-01-23	B-E	Accepted
	VCB-C005	105090	UT	VS-01-41	B-A	Accepted
	VLB-A001	105093	UT	VS-01-41	B-A	Accepted
	VLB-A002	105094	UT	VS-01-41	B-A	Accepted
	VLC-B001	105095	UT	VS-01-41	B-A	Accepted
	VLC-B002	105096	UT	VS-01-41	B-A	Accepted
	VLD-B001	105097	UT	VS-01-41	B-A	Accepted
	VLD-B002	105098	UT	VS-01-41	B-A	Accepted
	BH-CRD	105001	VT-2	VS-12-01	B-E	Accepted
	<b>HSING/ST TUB</b>					
	BH-CRD STUB	105001	VT-2	VS-12-02	B-E	Accepted
	TUBES					-
	<b>BH-INCORE</b>	105001	VT-2	VS-13-03	B-E	Accepted
	HOUSING					
Reactor Vessel	VSW-0 AZ	105158	MT	1.1-10	B-K	Accepted
Stabilizers						
	VSW-180 AZ	105159	MT	1.1-10	B-K	Accepted
	VSW-180 AZ	105159	VT-3	1.1-10	F-A	Accepted
	VSW-270 AZ	105160	MT	1.1-10	B-K	Accepted
	VSW-270 AZ	Į05160	VT-3	1.1-10	F-A	Accepted
	VSW-90 AZ	105161	MT	1.1-10	B-K	Accepted
	VSW-90 AZ	105161	VT-3	1.1-10	F-A	Accepted
Main Steam	MSC-D001	105005	UT	1.2-03	B-D	Accepted
	MSC-D001	105005	UT	1.2-03	B-D	Accepted
	INNER RADIUS					•
	MSD-D001	105007	UT	1.2-04	B-D	Accepted
	MSC-D001	105007	UT	1.2-04	B-D	Accepted
	INNER RADIUS					

April 21, 2003 through May 3, 2005

Part D, page 3 of 6

1) Owners: Interstate Power and Light Company, an Alliant Company

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

P.O. Box 351 Cedar Rapids, IA. 52406

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 MWE

		CLAS	SS 1 Continued			
		ISI			ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
Feedwater	FWA-THERM SLV	105010	UT	1.2-05	R-A*	Accepted
	FWB-D001	105011	UT	1.2-05	B-D	Accepted
	FWB-D001	I05011	UT	1.2-05	B-D	Accepted
	<b>INNER RADIUS</b>					•
	FWA-J003	I05014	UT	1.2-05	R-A*	Accepted
	FWB-K032	105013	VT-3	1.2-05	F-A	Accepted
	FWC-D001	105017	UT	1.2-06	B-D	Accepted
	FWC-D001	105017	UT	1.2-06	B-D	Accepted
	INNER RADIUS					•
	FWC-THERM	105018	UT	1.2-06	R-A*	Accepted
	SLEV					•
	FWD-D001	105019	UT	1.2-06	B-D	Accepted
	FWD-D001	105019	UT	1.2-06	B-D	Accepted
	INNER RADIUS		-			<u> </u>
	FWC-J002	105021	UT	1.2-06	R-A*	Accepted
	FWC-J003	105022	UT	1.2-06	R-A*	Accepted
	FWC-J005	EC05006	UT	1.2-06	R-A*	Accepted
	FWC-J005	105023	UT	1.2-06	R-A*	Accepted
	FWC-J006	105024	UT	1.2-06	R-A*	Accepted
	FWC-J006	EC05006	UT	1.2-06	R-A*	Accepted
	FWC-K004	105025	VT-3	1.2-06	F-A	Accepted
	FWC-K033	105026	VT-3	1.2-06	F-A	Accepted
	FWD-J011	EC05058	UT	1.2-06	R-A*	Accepted
	FWD-J016	EC05059	UT	1.2-06	R-A*	Accepted
Core Spray	CSA-J011	105032	UT	1.2-07	R-A*	Accepted
. ,	CSA-J012	105033	UT	1.2-07	R-A*	Accepted
High Pressure	PSA-J001	105034	UT	1.2-09	R-A*	Accepted
Coolant Injection	• •					· • · · ·
	PSA-J004	105035	UT	1.2-09	R-A*	Accepted
Control Rod Drive	CRA-J032	105040	UT	1.2-12B	R-A*	Accepted
Return			- •	,		
Residual Heat	RHD-J008	105042	UT	1.2-16	R-A*	Accepted
Removal		1000.2	··			seepied
	RHD-J009	105043	UT	1.2-16	R-A*	Accepted
Recirculation	RCA-J012	105045	UT	1.2-19A	R-A*	Accepted
Pump 'A' Suction	NOA-1012	102044	01	1.2-177	N-71	Accepted
rump A Suction	RCA-J021	105016	UT	1.2-19A	R-A*	Accepted
	NON-JULI	103010	01	1.4-17/	V-V	Accepted

April 21, 2003 through May 3, 2005

Part D, page 4 of 6

Owners: Interstate Power and Light Company,

an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

Plant: Duane Amold 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: 614 MWE

		CLAS	SS 1 Continued			· · · · · · · · · · · · · · · · · · ·
		ISI		_	ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
Recirculation Manifold 'A' and Risers E, F, G & H	RRG-D001	105045	UT	1.2-20	B-D	Accepted
2,1,000	RRG-D001 INNER RADIUS	105045	UT	1.2-20	B-D	Accepted
	RRG-F002	105048	UT	1.2-20	R-A*	Accepted
	RRG-J003	105049	UT	1.2-20	R-A*	Accepted
'A' Recirculation Drain	RDB-J005	105053	UT VT-2	1.2-21B	R-A*	Accepted
Recirculation Manifold 'B' and Risers A, B, C & D	RRD-J005	105058	UT	1.2-22	R-A*	Accepted
Jet Pump Instrumentation	JPB-D001	105061	UT	1.2-26	B-D	Accepted
	JPB-D001 INNER RADIUS	105061	UT	1.2-26	B-D	Accepted
Liquid Level Control	LCA-D001	105064	UT	1.2-27	B-D	Accepted
	LCA-D001 INNER RADIUS	105064	UT	1.2-27	B-D	Accepted
Reactor Vessel Instrumentation	VIB-D001	105065	UT	1.2-29	B-D	Accepted
	VIB-D001 INNER RADIUS	105065	UT	1.2-29	B-D	Accepted
Reactor Vessel Internals	Vessel Head	105149	VT-3	VS-01-06	B-N-1	Accepted
	CSB Welds-210 <sup>o</sup>	105149	VT-3	VS-01-26	B-N-2	Accepted
	CSB Welds-330 <sup>0</sup>	105149	VT-3	VS-01-26	B-N-2	Accepted
	FWB Welds NE - 315°	105149	VT-3	VS-01-27	B-N-2	Accepted
	FWB Welds NW - 225°	I05149	VT-3	VS-01-27	B-N-2	Accepted
	GRB Welds-180°	I05149	VT-3	VS-01-28	B-N-2	Accepted
	Guide Rod Brt-180°	I05149	VT-3	VS-01-28	B-N-1	Accepted
	DSB-225 <sup>0</sup>	I05149	VT-3	VS-01-29	B-N-2	Accepted
	DSB-315 <sup>0</sup>	105149	VT-3	VS-01-29	B-N-2	Accepted
	DHB-211°	105149	VT-3	VS-01-30	B-N-2	Accepted
	DHB-329 <sup>0</sup>	105149	VT-3	VS-01-30	B-N-2	Accepted
	SH Welds-288°-LW	105149	VT-1	VS-01-31	B-N-2	Accepted
	SH Welds-288°-UP	105149	VT-3	VS-01-31	B-N-2	Accepted

#### THIRD TEN YEAR INTERVAL **INSERVICE INSPECTION REPORT** April 21, 2003 through May 3, 2005

Part D, page 5 of 6

Owners: Interstate Power and Light Company,

Central Iowa Power Cooperative an Alliant Company Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

P.O. Box 351

Cedar Rapids, IA. 52406

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 MWE

#### COMPONENT AND WELD EXAMINATION IDENTIFICATION RECORDS

		CLA	SS 1 Continued			
		ISI			ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
<u> </u>	JPR-SUPP PAD- 144 <sup>0</sup>	I05149	VT-1	VS-01-34	B-N-2	Accepted
	JPR-SUPP PAD- 252 <sup>0</sup>	105149	VT-1	VS-01-34	B-N-2	Accepted
	SHROUD LEDGE 0°-180°	105149	VT-3	VS-02-11	B-N-1	Accepted
	CSS-PERIPH FUEL SUP	105149	VT-3	VS-03-09	B-N-2	Accepted
	TOP GUIDE	105149	VT-3	VS-04-01	B-N-1	Accepted
	SAMPLE HLDR-	105149	VT-3	VS-10-02	B-N-1	Accepted

<sup>\*</sup>Risk-Informed process was used.

CLASS 1 PRESSURE TESTS								
		ISI			ASME XI			
Component	Description	Report	Examination	ISI ISO	Category	Results		
Class 1 Hydrostatic	STP 3.10.1-02	105001	VT-2	ISONO-P	B-P	Accepted		

Pressure Test

April 21, 2003 through May 3, 2005

Part D Page 6 of 6

 Owners: Interstate Power and Light Company, an Alliant Company

an Alliant Company
P.O. Box 351
Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative

Humbolt, IA.

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: 614 MWE

#### COMPONENT AND WELD EXAMINATION IDENTIFICATION RECORDS

		CL	ASS 2			
<b>4-2</b>	<del></del>	ISI			ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results

There were no Class 2 component or weld examinations performed during this outage.

	CLASS 2 PRESSURE TESTS										
ISI ASME XI											
Component	Description	Report	Examination	ISI ISO	Category	Results					
Core Spray	STP NS510002	103119	VT-2	ISONO-P	С-Н	Accepted					
HPCI .	STP NS520001	105100	VT-2	ISONO-P	С-Н	Accepted					
HPCI (Steam	STP NS520003	105162	VT-2	ISONO-P	C-H	Accepted					
Tunnel											
Components)											
Standby Liquid	STP NS530001	I04001	VT-2	ISONO-P	C-H	Accepted					
Control						-					
Main Steam	STP NS830003	105102	VT-2	ISONO-P	C-H	Accepted					
Residual Heat	STP NS490003	I03118	VT-2	ISONO-P	C-H	Accepted					
Removal						•					
CRD Hydraulic	STP NS550001	105157	VT-2	ISNO-P	С-Н	Accepted					

	]	WE COM	PONENTS *			
		ISI	Exam		ASME XI	
Component	Description	Report	Method	ISI ISO	Category	Results
Drywell	STP 3.6.1.1-01	I05109	VT	N/A	E-A	Accepted
·	DRYWELL HEAD	I05110	VT-3	N/A	E-A	Accepted
	DW INT 798'-805'	I05111	VT-3	N/A	E-A	Accepted
	DW INT 776'-798' NW	I05112	VT-3	N/A	E-A	Accepted
	DW INT 742'-757' SE	105113	VT-3	N/A	E-A	Accepted
	MOIST. BAR 742' SE	I05114	VT-3	N/A	E-D	Accepted
	CRD BOLTS	I05115	VT-1	N/A	E-G	Accepted
Torus	TORUS INT (5,6,7,8)	105116	VT-3	N/A	E-A	Accepted
	ABOVE WATER LEVEL					•
	TORUS EXT (5,6,7,8)	105122	VT-3	N/A	E-A	Accepted
	TORUS BAYS 1-16	I05123	VT-1	N/A	E-C	Accepted
	DW TO TORUS VENT #E	105124	VT-3	N/A	E-A	Accepted
	DW TO TORUS VENT#F	105148	VT-3	N/A	E-A	Accepted

<sup>\*</sup> Credited for Third Period of IWE Plan Interval

April 21, 2003 through May 3, 2005

Part E, page 1 of 1

) Owners: Interstate Power and Light Company,

an Alliant Company
P.O. Box 351

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

Cedar Rapids, IA. 52406

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

3) Plant Unit: #1

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: 614 MWE

#### ADDITIONAL EXAMINATION IDENTIFICATION RECORDS

Class 1								
Component	Previous ISI	ISI Report	Examination	ASME XI	Results			
Examined	Report Number	Number		Category				

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

#### SUCCESSIVE EXAMINATION IDENTIFICATION RECORDS

	Class 1									
Component Examined	Previous ISI Report Number	ISI Report Number	Examination	ASME XI Category	Results					
HCC-B002 (HOLES 20-40)	I01093	105027	UT	B-A	Acceptable					
RRF-F002	I01068	105047	UT	R-A	Acceptable					
CRA-K017AA	I01051	105015	VT-3	F-A	Acceptable					

April 21, 2003 through May 3, 2005

Part F, page 1 of 3

 Owners: Interstate Power and Light Company, an Alliant Company
 P.O. Box 351
 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

2) Plant: Duane Amold 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: 614 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).

NIS-2 NO.	<b>CLASS</b>	COMPONENT	WORK DOCUMENT	<b>DESCRIPTION</b>
19-03-01	2	SV4334B Containment Atmosphere Dilution N2 Supply Outboard Isolation	CWO A62771	Replaced Main Disc Assembly
19-03-02	1	Spare Main Steam Safety Relief Valve Pilots	PO 19829	Spare Main Steam Safety/Relief Valves were repaired and tested
19-03-05	2	SV4333A Containment Atmosphere Dilution N2 Supply Inboard Isolation	CWO A62941	Replaced Main Disc Assembly
19-03-06	1	Spare Main Steam Safety Relief Valve Pilot	PO 19829	Spare Main Steam Safety/Relief Valve was repaired and tested
19-03-09	2	MO1055 Moisture Separator Reheat Steam Supply	CWO A64131 & CWO A68176	Welded guide slots to improve alignment
19-03-10	2	1P216 & 1P216A High Pressure Coolant Injection Pump	CWO A63477 & CWO A63478	Installed piping supports for seal water piping
19-03-11	2	1P211B Core Spray Pump	MWO 1126361	Replaced pump seal with a design for higher temperatures
19-03-13	2	MO4323A Containment Atmosphere Dilution Supply	CWO A51965	Seal welded bonnet to body
19-03-14	1	PSV4401 Main Steam Relief Valve	PWO 1128061	Pilot Valve S/N 201 was rotated in place of S/N 226
19-05-01	2	CV1064 Main Steam Drain Isolation	CWO A67068	Removed and replaced seal weld on bonnet for valve disassembly
19-05-02	2	1P211A Core Spray Pump	MWO 1126360	Replaced pump seal with a design for higher temperatures
19-05-03	2	1P211B Core Spray Pump	MWO 1130269	Replaced pump seal in order to add a spacer
19-05-04	2	1P229A Residual Heat Removal Pump Torus Suction Line Snubber	PWO 1127332	Replaced snubber DA-53 with snubber DA-250

April 21, 2003 through May 3, 2005

Part F, page 2 of 3

1)	Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406	Central Iowa Power Cooperative Marion, IA.	Corn Belt Power Cooperative Humbolt, IA.
2)	Plant: Duane Amold Energy Center, Palo, IA. 52	324 3) Plant U	Jnit: #1
4)	Owners Certificate of Authorization (if required):	N/A 5) Comm	ercial Service Date: 02/01/75
6)	National Board Number of Unit: N/A	Gross Ger	erating Capacity: 614 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, 1992 with the 1992 Addenda (Ref. Relief Request NDE-R015 Rev. 1).

<u>NIS-2 NO.</u> 19-05-09	CLASS 1	COMPONENT Core Spray Dissimilar	WORK DOCUMENT PWO 1129011 &	DESCRIPTION Ground the crowns from welds
		Metal Pipe Welds	CWO A67445	CSA-F002 and CSA-F004
19-05-10	1	Reactor Water	CWO A66243 &	Ground the crown from weld CUB-
		Cleanup Dissimilar	PWO 1129234	F004
		Metal Pipe Weld		
19-05-11	1	DLA-6-H-8 and DLA-	MWO 1129050	Replaced bolt, nut, and added the
		6-SS-13 Residual Heat		clamp support bars on clamp hanger
		Removal Piping		
19-05-12	1	Control Rod Drives	PWOs 1129089 –	Replaced bolting and control rod
			1129095 & CWO	drives at 06-23, 10-11, 10-23, 14-
			A067500	07, 14-11, 14-23, 18-31 locations
19-05-13	2	MO2112 'A' Core	MWO A63071	Replaced valve disc
	_	Spray Test Bypass		
19-05-15	2	XS2618B Standby	PWO 1128161	Replaced explosive valve
10.07.16		Liquid Control SQUIB	DV10 110000	
19-05-16	1	Control Rod Drives	PWOs 1129096 –	Replaced bolting and control rod
			1129102 & CWO	drives at 22-03, 22-07, 22-11, 22-
19-05-17	1	Control Rod Drives	A067500	31, 26-11, 26-31, 30-15 locations
19-03-17	1	Control Rod Drives	PWOs 1129104, 1129105, 129107,	Replaced bolting and control rod drives at 30-39, 34-07, 34-39, 34-
			1129103, 129107, 1129114, 1132803	11, 30-31 locations
			& CWO A067500	11, 30-31 locations
19-05-18	2	HCU Accumulators	PWOs 1132908,	Replaced HCU Accumulators at 02-
17-03-10	-	Tico recumulators	1129109, 129108,	19, 34-23, 10-23, 10-15, 30-39, 14-
			1132909, 129110,	27, 42-23 locations
			1129113 & CWO	27, 12 25 1000001
			A65092	
19-05-19	2	CV1064 Main Steam	CWO A54646	Replaced CV1064 with a valve that
		Drain Isolation		has a heavier operator, and installed
				new supports
19-05-20	1	Reactor Recirculation	CWO A64843	Removed weld crown on RRF-F002
		Riser Dissimilar Metal		weld by Machining
		Weld		_
19-05-21	1	Reactor Recirculation	CWO A64844	Removed weld crown on RRG-
		Riser Dissimilar Metal		F002 weld by machining.
		Weld		

#### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT April 21, 2003 through May 3, 2005

Part F, page 3 of 3

1) Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 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, 1992 with the 1992 Addenda (Ref. Relief Request NDE-R015 Rev. 1).

NIS-2 NO.	<b>CLASS</b>	COMPONENT	WORK DOCUMENT	DESCRIPTION
19-05-22	1	Reactor Recirculation	CWO A66133	Blended arc strike on weld RRD-
		Riser Weld		J005
19-05-23	1	CRD Return	PWO 1129048	Ground down weld crown on weld
		Dissimilar metal Weld		CRA-J032
19-05-25	1	PSV4400 Main Steam	PWO 1128060	Pilot Valve S/N 207 was rotated in
		Relief Valve		place of S/N 218
19-05-26	1	PSV4402 Main Steam	PWO 1128063	Pilot Valve S/N 200 was rotated in
		Relief Valve		place of S/N 189
19-05-27	1	PSV4405 Main Steam	PWO 1128066	Pilot Valve S/N 176 was rotated in
		Relief Valve		place of S/N 141
19-05-28	1	PSV4406 Main Steam	PWO 1128067	Pilot Valve S/N 227 was rotated in
		Relief Valve		place of S/N 203
19-05-29	1	PSV4407 Main Steam	PWO 1128068	Pilot Valve S/N 199 was rotated in
		Relief Valve		place of S/N 202
19-05-30	1	PSV4401 Main Steam	PWO 1128062	Main Valve Body S/N 201 was
		Relief Valve		rotated in place of S/N 141
19-05-31	1	PSV4407 Main Steam	PWO 1128069	Main Valve Body S/N 218 was
		Relief Valve		rotated in place of S/N 202
19-05-32	2	12" HLE014 RHR	CWO A71357	Replace 18" length section of 12"
		Test Line		diameter HLE014
19-05-33	2	18" HLE023	MWO 1132980	Repaired containment vent piping
		Containment Vent		to allow for containment thermal
				growth
19-05-34	2	HLE0335 Drywell	MWO 1133017	Removed Hanger HLE-35-SR-79
	_	Cooling Well Water	_ ,	from HLE035 to allow for
				containment thermal growth
				D

April 21, 2003 through May 3, 2005

Part G, page 1 of 75

Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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: 614 MWE

Form NIS-2's

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

1. 0	Owners		y (Interstate P & L)		Date _	04/08	3/04		
		Name	2						
_ <u>P</u>	O. Box :	351, Cedar Rapi			Sheet _	1	of	2	
		Addr	ess						
2. P	lant	Duane Arnold	Energy Center		Unit	1	_		
		Name	•		<del></del>				
3	277 DAE	C Road, Palo, L	A 52324	-	11	CWO	A62771		
		Addre		<del></del>	Repair Org	ganization to P		No., etc.	
3. V	Vork Perfe	ormed by Nucle	ar Management Co	ŠIC	Type Code	Symbol Stam	m Non	A	
J. •	, ork i criv	Name	ar ivialagement ce	<u>, Bro</u>	Authorizat	•	Non		·
3	277 DAE	C Road, Palo, L	A 52324		Expiration	Date	Non		
		on of System:		nt Atmosphere	Dilution, Class				
•	· • •	able Construction		IE Section III	19 71		372 Adden	da	Code Case.
			Section XI Utilized						
6. Id	dentificati	on of Componer	nts Repaired or Re	placed and Re	placement Com	ponents			1015
Comp	me of ponent ter No.)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ide		Year Built	Repaired, Replaced, or Replacement	Code Stamped (YES or
Main Dis	sc Assv	Target Rock	S/N 22	N/A		der/SUS 334B	1987	Replacement	NO) No
L								<del></del>	
				<b> </b>	' · ·		<del></del>		
							,		<del></del>
<u> </u>					-	• .			<u></u>
								<del></del>	
								* * * * * * * * * * * * * * * * * * *	
7. D	escription	of Work:	Replaced Main D	isc Assy, P/N	1 200442-1 in S	V4334B on C	WO A62771		<del></del>
8. T	ests Cond	ucted:	Hydrostatic		Pneumatic	☐ No	minal Operati	ng Pressure	
			•		:		•	.14.	·
		- •		re N/A	A	Test Temp	N/A	۰F	
		Other	Pressu	10	A psi	rest rettili	Ιν/Λ		
			orm of lists, sketch		•	•	····	· · · · · · ·	

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: Valve disassembled due to LLRT failure. Main Disc Assy, P/N 200442-1 replaced and valve reassembled. No

pressure test required per ASME Repair Repa	scement Administrative Document Section 5.1.13d.
CERTIFICATE OF CO	MPLIANCE
We certify that the statements made in the report are correct and thi	s 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 at Thore Ca TL Equipment Reliability	Date 4/9/ 2004
Owner or Owner's Designee, Title	· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF INS	SERVICE INSPECTION
·	PART IOU AND ACTOIN
I, the undersigned, holding a valid commission issued by the Nation the State or Province of Iowa	nal Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT
	ive inspected the components described in this Owner's Report
during the period 5-2-03 to my knowledge and belief, the Owner has performed examinations a	4-9-04 , and state that to the best of
accordance with the requirements of the ASME Code, Section XI.	nd taken corrective measures described in this Owner's Report in
	deserve and the summer of the line line line and the summer of the
By signing this certificate neither the Inspector nor his employer material examinations and corrective measures described in this Owner's Re	
liable in any manner for any personal injury or property damage or	
JBM Commissions N3	12320 ANI 1496 IA
Inspector's Signature Nationa	10309 ANI, 1496 IA al Board, State, Province, and Endorsements
(17)	

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

1.	Owners		y (Interstate P & L	<u>Co.)</u>	Date	07/14/03		
		Name	•					
_	P. O. Box	351, Cedar Rapi	ds, IA 52406	<u></u> .	Sheet	of	2	
		Addr	ess		· .	•		
2.	Plant	Duane Arnold	Energy Center	,	Unit	1	•	
	٠.	Name	•			* . *		
	3277 DAE	C Road, Palo, L	A 52324			PO 19829		
-		Addr		· · · · · · · · · · · · · · · · · · ·	Repair Organizati	on to P. O. No.,	Job No., etc.	
3.	Work Perf	ormed by <u>Nucle</u>	ar Management Co	LLC	Type Code Symb	ol Stamp	None	
		Name	<del>-</del>		Authorization No		None	
	3277 DAE	C Road, Palo, IA	\ 52324		Expiration Date		None	<del></del>
4.		on of System:		Steam Safety	Relief Valve Pilots (C			
5.		able Construction		E, Section III			ldenda N/A	Code Case.
-					r Replacements 1992-			. 0000 0000
6.					placement Component		, ·	
								ASME
_	iame of	Name of	Manufacturer	•		Year Buil		Code
Co	mponent	Manufacturer	Serial No.	National	Other Identification	<b> </b>	Replaced, or	Stamped
				Board No.			Replacement	(YES or NO)
Pilot I	Disc	Target Rock	S/N 358	N/A	Spare Pilot (S/N 176)	Unknown	Repair	No
ਤ Sta	ge Disc	Target Rock	S/N 15	N/A	Spare Pilot (S/N 176)			No
	d Spacer	Target Rock	S/N 8	N/A	Spare Pilot (S/N 176)			No
Pilot D		Target Rock	S/N 615	N/A	Spare Pilot (S/N 199)	Unknown	Repair	No
2 <sup>nd</sup> Sta	ge Disc	Target Rock	S/N 50	N/A	Spare Pilot (S/N 199)	Unknown	Repair	No
Preloa	d Spacer	Target Rock	S/N 575	N/A	Spare Pilot (S/N 199)	Unknown	Repair	No
Pilot D		Target Rock	S/N 390	N/A	Spare Pilot (S/N 227)	Unknown	Repair	No
2 <sup>nd</sup> Sta	ge Disc	Target Rock	S/N 16	N/A	Spare Pilot (S/N 227)	Unknown	Repair	No
	d Spacer	Target Rock	S/N 574	N/A	Spare Pilot (S/N 227)	Unknown	Repair	No
Pilot D		Target Rock	S/N 619	N/A	Spare Pilot (S/N 207)	Unknown	Repair	No
	ge Disc	Target Rock	S/N 73	N/A	Spare Pilot (S/N 207)	Unknown		No
	d Spacer	Target Rock	S/N 1037	N/A	Spare Pilot (S/N 201)		Replace	No _
Pilot D		Target Rock	S/N 625	N/A	. Spare Pilot (S/N 201)		Replace	No :
2 Sta	ge Disc	Target Rock	S/N 536	N/A	Spare Pilot (S/N 201)	1993	Repair	No
7.	Description	of Work:	Spare Main Steam	Safety/Relie	f Valves were repaired	and tested at NV	VS facilities	<del></del>
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	Nominal Ope	erating Pressure	
		Other	Pressur	e	psi Test T	`emp*	°F	
*The	se are spare	pilot valves.						

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: Pilot Valves (S/N's 176, 199, 201, 207, 227) were removed during RFO17 and sent to NWS Tech. for testing

And refurbishment. During the refurbishment it was necessary to machine the pilot discs.

2<sup>nd</sup> stage discs and preload spacers for S/N's 176, 199, and 227. The pilot disc and 2<sup>nd</sup> stage disc were machined on S/N 207.

PT exams were successfully performed on the machined surfaces for the above discs and spacers. The pilot disc and preload spacer were replaced on S/N 201, and preservice VT-3s were performed on the parts prior to shipping the items to NWS. The new 2<sup>nd</sup> stage disc for S/N 201 was machined, and successful PT was performed on the machined surface. The preload spacer and the pilot stem were drilled and pinned together for S/N 201. After the above mentioned repairs, all five valve pilots were tested and found to have three successive tests that were acceptable.

. v	CERTIFICATE OF CO	MPLIANCE :	· ;				
We certify that the statements made in	the report are correct and this	Repair/Replac		· · · · · · · · · · · · · · · · · · ·			
conforms to the rules of the ASME Co	de, Section XI.	(repair or repa	accincin,				
Type Code Symbol Stamp	None		<del></del>	<del></del>			
Certificate of Authorization No.	None	Expiration Date _	N/A	,			
Signed Reself Sepen for	Sup. Equipment Reliability er's Designee, Title	Date August	<u> 13,                                    </u>	2003			
Owner yr Own	or 3 Designee, 11de	<u> </u>					
	CERTIFICATE OF INSI	ERVICE INSPECTIO	NC				
I, the undersigned, holding a valid com the State or Province of	mission issued by the Nationa Iowa		Pressure Vessel Insp HSB CT	pectors and			
of Hartford, Co		e inspected the compo					
during the period $\frac{(y-1)(0-0)3}{(y-1)(0-0)3}$ to $\frac{(y-1)(0-0)3}{(y-1)(0-0)3}$ , 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 12	Board, State, Province	1496 IA				
Inspector's Signature -	National	Board, State, Province	e, and Endorsements				
Date <u>8-13</u>	_ , 2003		•				

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

1.	Owners		y (Interstate P & L	)	Date	04/08	/04		
		Name	2						
	P. O. Box	351, Cedar Rapi		·	Sheet	1	Of	2	•
		Addr	ess						
2.	Plant	Duane Arnold	Energy Center		Unit	1			
	Name								
	3277 DAE	C Road, Palo, L	A 52324		87.	CWO A	A 62941		
		Addr			Repair	Organization to P.		No., etc.	-
3.	Work Darf	ormed by Mucle	ar Management Co	TIC	Time C	ode Symbol Stam	n Non		
۶.	WOLK FELL	Name	ar Management Co	<u>. LLC</u>		ization No.	Non Non		<del></del>
	3277 DAF	C Road, Palo, L	A 52324			ion Date	Non		
4.		on of System:		t Atmosphere	•		11011	C	
5.		able Construction		E Section III			72 Adden	da	Code Case.
•			Section XI Utilized						
6.			nts Repaired or Re				•	٠	
					•				ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National	Other	Identification	Year Built	Repaired, Replaced, or	Code Stamped
	langer No.)		Della	Board No.			j	Replacement	(YES or
<del></del>						k Order/SUS	1		NO)
Main	Disc Assy	Target Rock	S/N 14	N/A		SV4333A	1999	Replacement	No
			· · · · · · · · · · · · · · · · · · ·		· · · · ·				<del> </del>
•	· · · · · · · · · · · · · · · · · · ·						<del>- </del>		
			<u> </u>	ļi	<u> </u>	<del></del>			· · · · · ·
	<u> </u>		<u> </u>					<del></del>	<del> </del>
							1		<del> </del>
						-			
<del></del>			<u> </u>		<del>/w</del>	<del></del>			l
7.	Description	of Work:	Replaced Main D	isc Assy, P/N	200442-1 i	n SV4333A on C\	WO A62941		
	•	•				:			
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	No	minal Operati	ng Pressure	
		Other	Pressu	re <u>N//</u>	A ps	i Test Temp	N/A	°F	
			orm of lists, sketch						
	ems 1 throug top of this fo		rt is included on ea	ch sheet, and (	(3) each shee	et is numbered and	d the number	of sheets is rec	orded at

(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: Valve disassembled due to LLRT failure. Main Disc Assy, P/N 200442-1 replaced and valve reassembled. No pressure test required per ASME Repair Repacement Administrative Document Section 5.1.13d.

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 1	Expiration Date N/A						
Signed Owner or Owner's Designee, Title	Date 4/9 / 2004						
CERTIFICATE OF INSER	EVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National the State or Province of Iowa	Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT						
of Hartford, Conn. have	inspected the components described in this Owner's Report						
during the period $7-21-63$ to $4-63$	9-04 , 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.							
JBU Commissions NB 123	199ANF. 1496 FA  Board, State, Province, and Endorsements						
Inspector's Signature National B	oard, State, Province, and Endorsements						
Date $4-9$ , 2004							

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

1.	Owners	Alliant Energy Name	(Interstate P & L	<u>Co.)</u>	Date	10/	22/03	<u>.</u>	<del></del>
	P. O. Box	351, Cedar Rapio Addre	ds, IA 52406	·	Sheet	1	of	2	
2.	Plant	Duane Arnold Name			Unit	1		<del></del>	
	3277 DAE	C Road, Palo, IA Addre		<del></del>	Repair O		9829 P. O. No., Job	No., etc.	
<ol> <li>3.</li> <li>4.</li> </ol>	Name 3277 DAEC Road, Palo, IA 52324 4. Identification of System: Spare Main Steam Safet				Authoriza Expiration Relief Valve	n Date Pilot (Class 1)	No.	ne ne	
<ul><li>5.</li><li>6.</li></ul>	(b) Applic		n Code ASM Section XI Utilized Its Repaired or Rep		r Replacemen	ts 1992 <u>-A92</u>	W68 Adder	nda N/A	Code Case.
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ide	ntification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
Pilot		Target Rock	S/N 269	N/A	Spare Pilot	(S/N 200)	Unknown	Repair	No
	age Disc	Target Rock	S/N 85	N/A	: Spare Pilot		Unknown	Repair	No
Pilot	Base	Target Rock		N/A	Spare Pilot	. (3/1/200)	Unknown	Repair	No
			<del></del>	· · ·	<del></del>	<del></del>	<del></del>	<del> </del>	
					-		<u> </u>	<u>                                     </u>	
7. Description of Work: Spare Main Steam Safety/Relief Valve was repaired and tested at NWS facilities									
8.	Tests Cond	ucted:	Hydrostatic		Pneumatic	N	Iominal Operat	ing Pressure	
		Other	Pressur	re <u>*</u>	psi	Test Temp	*.	°F	
*Thi	s is spare pil	ot valve.		. 1.			•		

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)

	D'1 - 11 1 - (D.O.		2010 1 4 177	rom t.e					
9. Remarks:	Remarks: Pilot Valve (S/N 200) was removed during RFO18 and sent to NWS Tech, for testing  And refurbishment. During the refurbishment it was necessary to machine the pilot disc.								
and 1:	2 <sup>nd</sup> stage disc and weld a new seat into the base of the pilot. PT exams were successfully performed on the machined and								
2 stage dis	c and weld a new	v seat into the base of the pilot.	PI exams were suc	cessfully performed on the machined and					
welded surf	ices.								
		CERTIFICATE OF CO	MPLIANCE	·					
We certify that the s	tatements made i	n the report are correct and thi		-1					
conforms to the rule	s of the ASME C	ode, Section XI.	(repair or re	placement)					
Type Code Symbol	Stamp	None							
		None	Everination Date	NIA					
Certificate of Autho	nzation No.		Expiration Date	N/A					
Signed Tuestof	com for	Sup. Equipment Reliability mer's Designee, Title	Date Oct	<del>24/</del> 2003					
	Owner or Ow	ner's Designee, Title							
		CERTIFICATE OF INS	ERVICE INSPECT	TION					
I, the undersigned, h	olding a valid co	mmission issued by the Nation	al Board of Boiler ar	nd Pressure Vessel Inspectors and					
the State or Province	of	Iowa	and employed by	HSB CT					
of during the period	Hartford, C		ve inspected the com	ponents described in this Owner's Report, and state that to the best of					
my knowledge and b	elief, the Owner	has performed examinations a		neasures described in this Owner's Report in					
accordance with the	requirements of t	the ASME Code, Section XI.							
				pressed or implied, concerning the					
				either the Inspector nor his employer shall be sing from or connected with this inspection.					
\ \ \	The second second		•						
Inspector's	Signature Signature	Commissions Nationa	10309A~1 I Board, State, Provi	nce, and Endorsements					

Date 10-24 ,2003

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

1.	. Owners Alliant Energy (Interstate P & L Co.)  Name		Date <u>7/2</u>	1/05	<del></del>	[			
	P. O. Box 351, Cedar Rapids, IA 52406 Address				Sheet 1	of	2		
2.	Plant	Duane Arnold Name	Energy Center	<u></u>	Unit 1			<u></u>	
	3277 DAEC Road, Palo, IA 52324 Address				CWO A64131 and CWO A68176  Repair Organization to P. O. No., Job No., etc.				
3.	3. Work Performed by <u>Nuclear Management Co. LLC</u> Name 3277 DAEC Road, Palo, IA 52324				Type Code Symbol Sta Authorization No. Expiration Date	nmp Nor Nor Nor	ne		
4. 5. 6.	5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition N/A Addenda N/A Code Case: (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992-A92								
	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)	
MOI	055	Flowserve Corp.	X00256888	N/A	MSR 1E18A 2 <sup>nd</sup> Stage Reheat Stm Supply	2001	Repaired	No	
						,			
						:			
7.	Description	of Work:	Welded guide slot	s to improve	alignment. Machined bore t	o clean up scrat	ches from stem	<u></u>	
8.	Tests Cond	ucted:	Hydrostatic		Pneumatic N	lominal Operat	ing Pressure	X	
	Other Pressure 968 Psi Test Temp 552 ° 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:

Welded disc guide slots to obtain the proper clearance Performed visual exam under work order A64131.

Successful surface exam was performed on the welded areas of the disc guide slots under work order A68176.

Machined bonnet bore to remove rough surfaces caused by stem galling. Machined area of bonnet bore was not accessible for a surface exam. VT-2 of the valve was successfully performed during plant startup (904004).

145 7/22/05

CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this	Repair (repair or replacement)					
conforms to the rules of the ASME Code, Section XI.	(repair of replacement)					
Type Code Symbol Stamp None						
Certificate of Authorization No. None Exp	iration Date N/A					
Certificate of Authorization No.  None  Sup. Equipment Reliability  Owner or Owner's Designee, Title	= Auly 22, 2005					
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 lowa and employed byHSB CT						
	pected the components described in this Owner's Report					
during the period 13-3-63 To 7-33-65, 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 National Board	1379/1 NIT, 1496 IN  Id, State, Province, and Endorsements					
Date $7-2$ , $2005$						

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

i.	Owners	Alliant Energy	y (Interstate P & L	<u>Co.)</u> .	Date	1/1	0/05	<del></del>	
	P. O. Box	351, Cedar Rapi Addro	ds, IA 52406	·	Sheet	1	of	2	
2.	Plant	Duane Arnold Name		··································	Unit	1			
	3277 DAE	C Road, Palo, IA	A 52324			PWC	A63477 and	A 63478	
•	Address				Repair Orga		P. O. No., Job		
<ul> <li>Work Performed by <u>Nuclear Management Co. LLC</u>         Name         3277 DAEC Road, Palo, IA 52324     </li> <li>Identification of System: High Pressure Coolant Injects</li> </ul>				Type Code a Authorization I Expiration I	on No.	mp No No	ne		
5.	(a) Applic	able Constructio	n Code ASM	E Draft P & \	/ 19 68	Edition	N/A Adde	nda N/A	Code Case:
6.			Section XI Utilized its Repaired or Rep				<del> </del>	. ,	,
1	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identif		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
1P216		Byron Jackson	69151050	N/A	HPCI Main		1970	Repaired	No
1 <u>P216</u>	5A	Byron Jackson	69181051	N/A	HPCI Booster	Pump	1970	Repaired	No
								ļ	
	·					····	<u> </u>	<del> </del>	<b> </b>
					<del> </del>			<del> </del>	
								<u> </u>	
				· · · · · ·	<del></del>				
7.	Description	-	Installed piping su	upports for sea					
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	N	Iominal Opera	ting Pressure	
*Pre	ssure testing	Other not required by	Pressur IWA-4710 since v			Test Temp		° F	
in ite		h 6 on this repor	form of lists, sketch t is included on ea						

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

9. Remarks:

Seal lines to 1P216, HPCI main pump and 1P216A, HPCI booster pump were rerouted for easier maintenan. This required two existing cyclone separator supports on 1P216 to be ground off of the pump flange, and two larger supports were welded back onto the pump flange. The welds successfully passed surface exams. Also, welded two supports for cyclone separators on 1P216A pump flange. Those welds successfully passed surface exams. Machined area of pump flange to permit threading of a larger seal flush line fitting into the seal flange. This area was accessible for a surface exam. A PT exam was performed with no indications. Pressure testing was not required since the welding the supports onto the components did not penetrate through the pressure boundary of the components, as described in IWA4710,

CERTIFICATE OF COMPLI	CERTIFICATE OF COMPLIANCE							
We certify that the statements made in the report are correct and this	Repair (repair or replacement)							
conforms to the rules of the ASME Code, Section XI.	(repair or replacement)							
Type Code Symbol Stamp None								
	iration Date N/A							
Signed Career Sup. Equipment Reliability Date Owner of Owner's Designee, Title	: March 20, 2005							
CERTIFICATE OF INSERVI	CE INSPECTION							
I, the undersigned, holding a valid commission issued by the National Boathe State or Province of Iowa and	rd of Boiler and Pressure Vessel Inspectors and employed by HSB CT							
of Hartford, Conn. have ins	, and state that to the best of en 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.								
100 Commissions Notional Boar National Boar	d, State, Province, and Endorsements							
Date 3-21 ,2005								

1.	Owners		(Interstate P & L	Co.)	Date	4/9	0/04			
		Name	:		•					
	P. O. Box	351, Cedar Rapi		-	Sheet	1	of		2	
		Addre	ess							
2.	Plant	Duane Arnold			Unit	1			·	
		Name								
	3277 DAE	C Road, Palo, IA	52324			MW	O 112636	51		
		Addre			Repair C	rganization to	P. O. No	., Job No., etc	·.	<del></del>
3.	Work Perf	ormed by Nuclea	ır Management Co	. LLC	Type Co	de Symbol St	amn	None		
٠.		Name	5	<u> </u>		ation No.	P	None		·
		C Road, Palo, IA	52324		Expiration	on Date	-	None		<del></del>
4.		on of System:	Core Spray							
5.	(a) Applic	able Constructio	n Code ASM	E Draft P & V	/ 19 6	8 Edition	N/A	Addenda	N/A	Code Case:
	(h) Annlic	able Edition of S	Section XI Utilized	for Renairs o	r Replacemen	ts 1002-A02	·	-		N/A
6.			its Repaired or Re							
										ASME
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National	Other Ide	entification	Year B	, ,	aired, ced, or	Code Stamped
				Board No.					cement	(YES or
Scal (	iland	FlowServe	RLSA04765	N/A	1P211B Cor	e Spray Pump	200	3 Replac	cement	NO) No
	Gland Cap	Texas Bolt	HT # 90940	N/A	1P211B Cor	e Spray Pump	199	5 Repla	cement	No
Screv	<u> </u>					<del></del>	<del> </del>			·
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							<del> </del>		<del></del>	
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	<del></del>						1			
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		<u> </u>			. 1		·			
7.	Description	of Work:	Replaced pump se	eal with a desi	gn for higher	temperatures				
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	1	Nominal C	Operating Pres	sure	X
		Other	Pressur	re29:	5Psi	Test Temp	,	76.9	°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:	Replaced pump seal with larger seal designed for higher temperature application. Replaced cap screws since new seal is larger, and therefore requires longer cap screws. Successfully performed VT-2 exam after installation.
		CERTIFICATE OF COMPLIANCE
We ce	ertify that the s	tatements made in the report are correct and this    Replacement
confo	rms to the rule	s of the ASME Code, Section XI.
Туре	Code Symbol	Stamp None
Certif	icate of Autho	nzation No. None Expiration Date N/A
Signe	d Kune	Owner or Owner's Designee, Title  Date  13, 2004
		CERTIFICATE OF INSERVICE INSPECTION
	undersigned, h ate or Province	olding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and Office V
of		Hartford, Conn. have inspected the components described in this Owner's Report
my kn		3-4-04 To 4-14-04 , and state that to the best of requirements of the ASME Code, Section XI.
exami	nations and co	ficate 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.
_J8		Commissions NO 13339ANF, 1496 FA National Board, State, Province, and Endorsements
	Inspector's	Signature National Board, State, Province, and Endorsements
Date	4-14-0	, 2004

1.	Owners		y (Interstate P & L	<u>Co.)</u>	Date	4/1:	3/04		
		Name	:						
	P. O. Box	351, Cedar Rapi			Sheet		of	2	
		Addro	ess						
2.	Plant		Energy Center		Unit	1			
		Name	:						
	3277 DAE	C Road, Palo, IA					A51965		
		Addre	ess		Repair C	organization to	P. O. No.,	Job No., etc.	
3.	Work Perf		or Management Co	. LLC		de Symbol Sta	• —	None	
		Name				ration No.		None	
		C Road, Palo, IA		<del></del>	Expiration	on Date		None	
4.		on of System:		t Atmosphere					<del></del>
5.		able Construction		E Section III			N/A Ac	idenda N/A	Code Case:
			Section XI Utilized						
6.	Identificati	on of Componer	nts Repaired or Rep	placed and Re	placement Co	mponents	I	<del></del>	T
	Name of	Name of	Manufacturer	1			Year Bui	lt Repaired,	ASME Code
	omponent	Manufacturer	Serial No.	National	Other Ide	entification		Replaced, or	Stamped
	i		•	Board No.				Replacement	(YES or
MO4	323A	Rockwell	KA034	N/A	A CAD SUPPI	LY PCV INLET	Unknown	n Repaired	NO) No
		Edwards							
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7.	Description	n of Work:	Seal welded bonn	et to body and	d bonnet to me	otor flange.		<del></del>	
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic		ominal Op	erating Pressure	
		Other	Pressur	re	Psi	Test Temp		• 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:	Disassembled valve bonnet. During re-assembly seal welded Successful surface exams were performed on both welds.	bonnet to body and bonnet to the motor flange.
<del></del>	<del></del>		
		CERTIFICATE OF COMPLIANCE	
We ce	ertify that the s	statements made in the report are correct and this Repair	
confo	rms to the rule	(repair of the ASME Code, Section XI.	or replacement)
	Code Symbol		
Certif	ficate of Autho	orization No. None Expiration Dat	e N/A
Signe	d Tine	None Expiration Date Owner or Qwner's Designee, Title	mil 13, 2004
	Ž	Owner or Qwner's Designee, Title	· · · · · · · · · · · · · · · · · · ·
		CERTIFICATE OF INSERVICE INSPI	ECTION
	undersigned, h	holding a valid commission issued by the National Board of Boile ce of Iowa and employed	er and Pressure Vessel Inspectors and by HSB CT
of _		Hartford, Conn. have inspected the	components described in this Owner's Report
		To Y-14-03  To Y-14-04  I belief, the Owner has performed examinations and taken corrective requirements of the ASME Code, Section XI.	, and state that to the best of ve measures described in this Owner's Report in
By sig exami	gning this certi inations and co	tificate neither the Inspector nor his employer makes any warranty corrective measures described in this Owner's Report. Furthermor	e, neither the Inspector nor his employer shall be
liable	in any manner	er for any personal injury or property damage or a loss of any kind	arising from or connected with this inspection.
75	bo James de la constante de la	*S Signature Commissions National Board, State, Pr	1 496 IA rovince, and Endorsements
	•	•	rovince, and uniorsements
Date	4-14-00	, 2004	

1.	Owners		y (IES Utilities)		Date _	03/31	/05		
	P. O. Box	Name	ds, IA 52406		Sheet	1	Of	2	
		Addro	ess						
2.	Plant		Energy Center		Unit _	1			
		Namo	:				•		
	3277 DAE	C Road, Palo, I/	\ 52324				1128061		
		Addre	ess	<del>-</del>	Repair Org	anization to P	O. No., Job	No., etc.	
3.	Work Perf	ormed by Nuclea	ar Management Co	o. LLC	Type Code	Symbol Stan	np Non	e	
	Name			Authorizati	ion No.	Non	e		
		C Road, Palo, 1/			Expiration		Non	е	·····
4.		on of System:			Valve (Class 1)				
5.		able Construction			19 68		W68 Adden	da <u>N/A</u>	Code Case.
6			Section XI Utilized ats Repaired or Re						
С	Name of omponent anger No.)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ide	ntification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
Pilot	Valve	Target Rock	S/N 201	N/A	PWO 1128		1976	Replacement	Yes
					· · · · · · · · · · · · · · · · · · ·				
							-{		
	· · · · · · · · ·								
				<u> </u>			<u> </u>		<u> </u>
7.	Description	n of Work:	The Pilot Valve w place of S/N 226.		nd documented o	on NIS-2 (19-	03-02). This l	Pilot Valve was	s rotated in
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	No No	minal Operati	ng Pressure	X
		Other	Pressu	re 95:	5 psi	Test Temp	514	°F	
NOT	TE: Supplen	nental sheets in f	orm of lists, sketch	nes, or drawing	gs may be used,	provided (1)	size is 81/2 in.	x 11 in., (2) in	formation

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.

į		alve S/N 201 was installed. Prior to installation S/N 201 was  A VT-2 (P03064) was completed on the mechanical connection
_	•	
	CERTIFICATE OF CO	MPLIANCE
	itements made in the report are correct and this of the ASME Code, Section XI.	Replacement (repair or replacement)
Type Code Symbol St	amp None	
Certificate of Authoriz	Zation No. None  Town Car TL Equipment Reliability  Owner or Owner's Designee, Title	
	Owner or Owner's Designee, Title	
	CERTIFICATE OF INS	ERVICE INSPECTION
I, the undersigned, hol the State or Province o	of lowa	al Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT
	4-02-04 10	ve inspected the components described in this Owner's Report  7-18-05, and state that to the best of  nd taken corrective measures described in this Owner's Report in
examinations and corr	ective measures described in this Owner's Rep	kes any warranty, expressed or implied, concerning the port. Furthermore, neither the Inspector nor his employer shall be a loss of any kind arising from or connected with this inspection.
JS Inspector's Si	Commissions AB /	13339A~F, 1496 FA I Board, State, Province, and Endorsements

Date 7-16-05,2005

1.	1. Owners Alliant Energy (IES Utilities) Name		D	ate Januar	ry 10, 2005				
	P. O. Box	x 351, Cedar Rap Addr	ids, IA 52406	SI	heet 1	of	2	<del></del>	
2.	Plant	Duane Arnold	Energy Center	U	nit <u>1</u>			· <del></del>	
3277 DAEC Road, Palo, IA 52324  Address  Address  A67068  Repair Organization to P. O. No., Job N					No., etc.	<del></del>			
3. Work Performed by Nuclear Management Co. LLC.  Name 3277 DAEC Road, Palo, IA 52324				A	Type Code Symbol Stamp Authorization No.  Expiration Date  None				
4.									
5. 6.	5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition NA Addenda NA Code Case.  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992-92A								
	ame of mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
CVI	064	Anchor Darling	EA748-1	NA	NA	1988	Repaired	No	
7.	Description	on of Work:	Removed and rep	laced seal weld on bo	onnet for valve disassem	bly			
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure									
Other Pressure NA* ps *Pressure testing seal welds not required in accordance with IWA-4710.				psi Test Temp	NA*	• F			
					be used, provided (1) si				

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

the top of this form.

9.	Remarks:	Valve was disassembled an internal components were replaced. No pressure boundary components were replaced. Valve bonnet requires a seal weld to be removed and installed after disassembly and reassembly.  Surface exam was successfully completed on the body to bonnet seal weld. Pressure test was not necessary since
		IWA-4710 does not require pressure testing seal welds.

CERTIFICATE OF COMPLIANCE							
We certify that the statements made in the report are correct and this Repair							
conforms to the rules of the ASM	·	(repair or replacen	nent)				
Type Code Symbol Stamp	None			<del></del>			
Certificate of Authorization No.	None	Expi	ation Date	N/A			
Signed Line Owner or	None  Owner's Designee, Title	ing Date	Tanung	2005			
	CERTIFICATE OF	INSERVI	CE INSPECTION				
I, the undersigned, holding a valid							
the State or Province of	lowa		mployed by HS	· · · · · · · · · · · · · · · · · · ·			
of Hartford	d, Conn.	have insp	ected the component	s described in this Owner's Report			
my knowledge and belief, the Own accordance with the requirements			n corrective measure	, and state that to the best of ses 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.							
JBL	Commissions AB	12320	PANE 14	IOL IN			
Inspector's Signature	Nati	onal Board	NANE , 14 , State, Province, and	d Endorsements			
Date (-18)	, 2005						

1.	Owners	Alliant Energy	y (Interstate P & L	Co.)	Date _	1/1	0/05		
	P. O. Box	351, Cedar Rapi Addre	ds, IA 52406	<del></del>	Sheet _	1	of _	2	
2.	Plant	Duane Arnold Name			Unit _	1	······································		
	3277 DAE	C Road, Palo, 14 Addre			Repair Or		O 1126360 P. O. No., Jo	b No., etc.	
<ol> <li>4.</li> <li>5.</li> </ol>	Name			<del></del>	Authoriza Expiration		No	one one one enda N/A	Code Case:
6.	(b) Applic	able Edition of S		for Repairs o	r Replacement	s 1992 <u>-A92</u>			
-	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)
Seal (	Gland	FlowServe	RLSA04764	N/A	1P211A Core	Spray Pump	2003	Replacement	No
Seal ( Screv	Gland Cap	Texas Bolt	HT # 90940	N/A	1P211A Core	Spray Pump	1995	Replacement	No
7.	Description	of Work:	Replaced pump se	eal with a desi	gn for higher to	emperatures	<u> </u>	1	
8.	Tests Cond	ucted:	Hydrostatic		Pneumatic	N	lominal Opera	ating Pressure	X
		Other	Pressur	re302	Psi	Test Temp	96.2	<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:		o seal with larger s ger, and therefore r					aced cap screws since F-2 exam after
		CERTIFICAT	TE OF COM	IPLIANCE			
We certify that the s		•	rect and this	Replacement (repair or	ent replacement)		
Type Code Symbol	Stamp	None					<del></del>
Certificate of Autho	<b>、</b> )	None		Expiration Date		N/A	
Signed Cuncil	Devem for Owner or Own	Sup. Equipment er's Designee, Tit	Reliability le	Date <u>Jon</u>	very 10	2,	2005
<u></u>		3					
		CERTIFICAT	TE OF INSE	RVICE INSPEC	TION		
I, the undersigned, he the State or Province		nmission issued by Iowa		Board of Boiler and employed by			pectors and
of during the period my knowledge and to accordance with the		onn.  To as performed exar	have /-/ ninations and	inspected the cor	mponents des	, and state	his Owner's Report that to the best of his Owner's Report in
	rrective measures	described in this C	wner's Repo	ort. Furthermore,	neither the In	spector no	ncerning the or his employer shall be I with this inspection.
JB	Sionature	Commissions	National 1	399ANI, Board, State, Prov	1496 J	dorsement	<u> </u>
Date 1-18	Jignature	, 2005	rational	Douid, State, 110	mee, and th	aoi seinent	J

I.	Owners		y (Interstate P & I	<u>, Co.)</u>	Date	1/1	10/03		
٠		Name							
	P. O. Box	351, Cedar Rapi	ds, IA 52406		Sheet	1	of	2	
	•	Addr		•					
2.	Plant	Duane Arnold	Energy Center		Unit	1			
۷.	1 Idill	Name Name		<del></del>					
	3277 DAE	C Road, Palo, 1/ Addre		<del></del>	Parais Oraș		O 1130269 P. O. No., Jol	No str	
		nbuA	CSS		Kepan Orga	mization to	) r. O. No., Joi	o No., etc.	
3.	Work Perf	ormed by Nucle	ar Management Co	o. LLC	Type Code	Symbol Sta	amp No	ne	
		Name			Authorization		No		
		C Road, Palo, IA		<del></del>	Expiration I	Date	No	ne	
4.		ion of System:	Core Spray		1 10 60	E 122	N// A 3 1	· · · · · · · · · · · · · · · · · · ·	<del></del>
. <b>5.</b>		able Construction	n Code ASM Section XI Utilized	E Draft P & V		Edition	N/A Adde	nda <u>N/A</u>	Code Case:
6.			nts Repaired or Re						
					piuotilioni Comp	-	T	T	ASME
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National	Other Identif	iention	Year Built	Repaired, Replaced, or	Code Stamped
`	ombonene	Manutactures	Scrintivo.	Board No.	Other Ideath	ication		Replacement	(YES or
Seel	Gland	FlowServe	RLSA04763	N/A	1P211B Core Sp	mu Dumn	2003	Replacement	NO) No
Scar	Omin -	Flowseive	KLSAUTUS	IVA	11211B Cote Sp	ray rump	2003	Replacement	No
				•					
							<del> </del>	<del>-{</del>	<del> </del>
<b>!</b>						· · · · ·	<del> </del>	<u> </u>	ļ
						<u></u>	<del></del>	<del></del>	
<u> </u>	·							<del> </del>	
								1	
7.	-Description	of Work:	Replaced pump se	eal in order to	add a spacer				<del></del>
8.	Tests Cond	ncted:	Hydrostatic		Pneumatic		lominal Opera	ting Pressure	$\overline{\mathbf{x}}$
u.	1 Cata Cullu	autou.	11541034110	<b></b>	I noumant [	. ·	-опши орста	ing i rosuic	لث
		Other	Pressur	re 293	B Psi	Test Temp	N/A	° F	
					<del></del>				

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 pump seal after adding a spacer. Spacer was required to obtain good fit for seal. Old seal was removed

because the set screw was jammed, and seal could not be removed without damaging the seal. Successfully performed VT-2 exam after installation of new seal.
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 Successful Sup. Equipment Reliability Date Agriculty 2005 Owner on 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 1/-17-04 To 1-24-05, 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.
UB Commissions National Board, State, Province, and Endorsements
Date

1.	Owners Alliant Energy (Interstate P & L Co.)  Name		Date	3/1	2/05						
	P. O. Box	351, Cedar Rapi Addre	ds, IA 52406		Sheet	1	of	2			
2.	Plant	Duane Arnold Name		<del>, , , , , , , , , , , , , , , , , , , </del>	Unit	1					
	_3277 DAE	C Road, Palo, IA Addre		<del></del>	PWO 1127332  Repair Organization to P. O. No., Job No., etc.						
<ul><li>3.</li><li>4.</li></ul>	3277 DAE	Name C Road, Palo, IA on of System:	Residual He	at Removal	Authoriz Expiratio		-	None None None			
<ul><li>5.</li><li>6.</li></ul>	(b) Applic		n Code ANS Section XI Utilized nts Repaired or Rep			ts 1992 <u>-A92</u>	71 Ad	ldenda <u>N/A</u>	Code Case:		
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ide	ntification	Year Buil	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)		
	29A Torus on Line ber	Bergen- Patterson	DA-250	N/A	HBB-02	4-SS-222	N/A	Replacement	No		
7.	Description	of Work:	Replaced snubber	r DA-53 with	snubber DA-2	250 due to end	of seal life.				
8.	Tests Cond		Hydrostatic		Pneumatic			erating Pressure	X		
		Other	Pressur	reN//	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:	•
7.	Remarks.	

Snubber DA-53, located at HBB-024-SS-222, had reached the end of seal life and was replaced with DA-250. This snubber (DA-53) passed the visual and functional tests. The snubber (DA 250) was rebuilt under PWO 1124686. No load bearing parts were repaired or replaced during rebuild. Successfully performed VT-3 exam (Rpt # P05032) after installation of replacement snubber.

CERTIFICATE OF COMPLIANCE								
in the report are correct and this	Replacement							
Code, Section XI.	(repair or replacement)							
-								
TAORC								
None	Expiration Date N/A							
Sup. Equipment Reliability	Date 3/16/05 2005							
<del></del>								
<u> </u>								
CERTIFICATE OF INSE	RVICE INSPECTION							
'' ' J b 4ba National	D. C. CD. T J. D							
AMMICCIAN ICCIDES BY THE STREET	Board of Boiler and Pressure vessel inspectors and							
Conn. have	and employed by HSB CT inspected the components described in this Owner's Report							
Iowa	and employed by HSB CT e inspected the components described in this Owner's Report 6-05, and state that to the best of							
Iowa Conn. have To 3-16 er has performed examinations and	and employed by HSB CT inspected the components described in this Owner's Report							
Iowa	and employed by HSB CT e inspected the components described in this Owner's Report 6-05, and state that to the best of							
Iowa Conn. have To 3-/6 er has performed examinations and f the ASME Code, Section XI.	and employed by HSB CT inspected the components described in this Owner's Report 6-05, and state that to the best of							
Iowa Conn. have To 3-16 er has performed examinations and f the ASME Code, Section XI.  The Inspector nor his employer make the described in this Owner's Repo	and employed by HSB CT e inspected the components described in this Owner's Report 6-05, and state that to the best of I taken corrective measures described in this Owner's Report in es any warranty, expressed or implied, concerning the ort. Furthermore, neither the Inspector nor his employer shall be							
Iowa Conn. have To 3-16 er has performed examinations and f the ASME Code, Section XI.  The Inspector nor his employer make the described in this Owner's Repo	and employed by HSB CT e inspected the components described in this Owner's Report 6-05, and state that to the best of I taken corrective measures described in this Owner's Report in es any warranty, expressed or implied, concerning the							
Iowa Conn. have To 3-16 er has performed examinations and f the ASME Code, Section XI.  The Inspector nor his employer make tres described in this Owner's Report al injury or property damage or a log	and employed by HSB CT einspected the components described in this Owner's Report 6-05, and state that to the best of I taken corrective measures described in this Owner's Report in es any warranty, expressed or implied, concerning the ort. Furthermore, neither the Inspector nor his employer shall be oss of any kind arising from or connected with this inspection.							
Iowa Conn. have To 3-16 er has performed examinations and f the ASME Code, Section XI.  The Inspector nor his employer make tres described in this Owner's Report al injury or property damage or a log	and employed by HSB CT e inspected the components described in this Owner's Report 6-05, and state that to the best of I taken corrective measures described in this Owner's Report in es any warranty, expressed or implied, concerning the ort. Furthermore, neither the Inspector nor his employer shall be							
	e in the report are correct and this  Code, Section XI.  None  None  Sup. Equipment Reliability Owner's Designee, Title							

	Owners	ners Alliant Energy (IES Utilities)		Date	4/1				
		Name	e						<del></del>
	P. O. Box	351, Cedar Rapi	ids, IA 52406		Sheet	1	of	2	
		Addr				<del></del>			<del></del>
2.	Plant	Duane Arnold	Energy Center		Unit	1			
		Name				<del></del>	<u> </u>	<del></del>	
	3277 DAE	C Road, Palo, I	A 52324			PWO	) 1129011 and	CWO A67445	
		Addr		<del></del>	Repair C		P. O. No., Job		
3.	Work Perf	ormed by Allian	t Energy (IES Util	ities)	Type Co	de Symbol Sta	amp No	ne	
		Name		<u>,</u>		ation No.	No		
	3277 DAE	C Road, Palo, IA	A 52324		Expiration		No	<del></del>	
4.		ion of System:	Core Spray	Pining	zpu		• • •		
5.		Applicable Construction Code ANSI B31.7 Class 1				Edition	70 Adde	nda N/A	Code Case.
	(h) Applic	able Edition of	Section XI Utilized	d for Renairs	or Replacemen	ts 1992-A92	<del></del>	<del></del>	•
	(U) Exppiii	word marriage or i		u ioi itepaus i					
	(o) Applic		Section XI Ounze	u for repairs	or respication.				
6.			nts Repaired or Re	•	· ,				
				•	placement Co		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
(	Identificati	on of Componer Name of	nts Repaired or Re	placed and Re	Other Ide	mponents entification	Year Built	Replaced, or	Code Stamped (YES or
(	Identificati Name of Component	On of Componer  Name of  Manufacturer	nts Repaired or Re  Manufacturer Serial No.	placed and Re National Board No.	Other Ide	mponents		Replaced, or Replacement	Code Stamped (YES or NO)
(	Identificati Name of Component	On of Componer  Name of  Manufacturer	nts Repaired or Re  Manufacturer Serial No.	placed and Re National Board No.	Other Ide	mponents entification		Replaced, or Replacement	Code Stamped (YES or NO)
(	Identificati Name of Component	On of Componer  Name of  Manufacturer	nts Repaired or Re  Manufacturer Serial No.	placed and Re National Board No.	Other Ide	mponents entification		Replaced, or Replacement	Code Stamped (YES or NO)
(	Identificati Name of Component	Name of Manufacturer  Bechtel Corp.	nts Repaired or Re  Manufacturer Serial No.	National Board No.	Other Ide Core Spray D Pipe	entification issimilar Metal Welds	1974	Replaced, or Replacement Repair	Code Stamped (YES or NO) No
DC/	Identificati Name of Component	Name of Manufacturer  Bechtel Corp.	nts Repaired or Re  Manufacturer Serial No.  NA	National Board No.	Other Ide Core Spray D Pipe	entification issimilar Metal Welds	1974	Replaced, or Replacement  Repair  Cexamination of	Code Stamped (YES or NO) No
7.	Identification Name of Component A-008  Description	Name of Manufacturer  Bechtel Corp.	Manufacturer Serial No.  NA  Ground the crow	National Board No. N/A	Core Spray D Pipe  CSA-F002 ar	entification issimilar Metal Welds	1974 to improve UT	Replaced, or Replacement  Repair  Cexamination of	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:	Ground the	rowns from welds CSA-	-F002 and C	CSA-F004 to improve UT examination of weld.
		Successful s	urface exam was perforn		1-F002 (P05055) and on CSA-F004 (P05048) after weld crown.
		was removed	l by grinding.		
	•				
					•
			CERTIFICATE	OF COMI	PLIANCE
l					
We ce	rtify that the	statements mad	le in the report are correc	ct and this	Repair
confo	me to the rule	s of the ASMI	Code, Section XI.		(repair or replacement)
Collio	ins to me int	es of the Asimi	code, Section Al.		
Type	Code Symbol	Stamp	None		
1	•	• -		*******	
Certifi	cate of Autho	rization No.	None	F	Expiration Date N/A
۵.	٠ ﴿ رَبِهِ	x. /			1 1/
Signed	Timile	1642 /0	Supervisor, Materials/In Dwner's Designee, Title	spection 1	Date April (Co. 2005
ļ		Owner or	owner's Designee, Title		
<u> </u>	<del></del>	<del></del>			
<u></u>	<del></del>	······································			
			CERTIFICATE	OF INSER	RVICE INSPECTION
I, the t	ındersigned, l	olding a valid			Board of Boiler and Pressure Vessel Inspectors and
	te or Provinc		Iowa		and employed by HSB CT
of .	41	Hartford	<u> </u>		inspected the components described in this Owner's Report
	the period	3-21-0		<u>4 - 18</u>	, and state that to the best of taken corrective measures described in this Owner's Report in
			of the ASME Code, Sect		taken corrective measures described in this Owner's Report in
accord	ance with the	requirements	or the reside code, seed	1011 711.	
By sig	ning this cert	ificate neither t	he Inspector nor his emp	loyer makes	s any warranty, expressed or implied, concerning the
					rt. Furthermore, neither the Inspector nor his employer shall be
liable	in any manne	r for any person	nal injury or property da	mage or a lo	oss of any kind arising from or connected with this inspection.
,	31	-	Commissiess	1,1	172 20 4 4 5 4464 5
3	Inspector's	Signature	Commissions	National D	193 94ANI 1496 IM Board, State, Province, and Endorsements
	mspeciol s	o orginature		Manonal D	Source, Fromitte, and Engolsements
Date	4-18		, 2005		

ı.					Date5/-		4/2005				
Name			;								
	P. O. Box	351, Cedar Rapi			Sheet	1	of _	2			
		Addr	ess '								
2.	Plant	Duane Arnold Name	Energy Center		Unit _	1					
		·	•								
	3277 DAI	EC Road, Palo, L	A 52324					PWO 1129234			
		Addre	ess		Repair Or	ganization t	o P. O. No., Jo	b No., etc.			
3.	Work Peri	formed by <u>Allian</u>	t Energy (IES Util	ities)	Type Cod	e Symbol St	amp No	one			
	Name			Authoriza		No	None				
	3277 DAEC Road, Palo, IA 52324				-	Expiration Date None					
4.		ion of System:		ter Cleanup P							
5.	. (a) Applicable Construction Code ANSI B31.7 Class 1			1 19 69	Edition	70 Adde	enda N/A	Code Case.			
	(b) Applie	cable Edition of	Section XI Utilized	d for Repairs o	r Replacement	s 1992 <u>-A92</u>			-		
	• • • •			-	-						
6.	Identificat	ion of Componer	ts Repaired or Re	placed and Re	placement Con	nponents			<u>,</u>		
C	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Iden	ntification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)		
DCA	L-014	Bechtel Corp	NA	N/A	Reactor Water Cleanup Dissimilar Metal Pipe Weld		1974	Repair	No		
			·		<del> </del>		ļ	<u> </u>			
								<u>                                     </u>			
7.	Descriptio	n of Work:	Ground the crown	n from weld C	UB-F004 to in	prove UT e	xamination of	weld.			
8.	Tests Cond	ducted:	Hydrostatic		Pneumatic		Nominal Opera	ting Pressure			
		Other	Pressu	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: Ground the crown from weld CUB-F004 to improve UT examination of weld. Uncovered porosity under the

Crown. Ground out the porosity and verified weld was above minimum wall by using UT. Successful surface
exam was performed on CUB-F004 (P05050) after the porosity was removed and after the UT verifying
adequate wall thickness was performed.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this    Repair
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 Research Supervisor, Materials/Inspection Date May 1/1/1/2005  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 IISB CT
of Hartford, Conn. have inspected the components described in this Owner's Report
during the period $4-4-5$ to $5-5-65$ , 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 National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date 5-5 , 2005

•	Owners Alliant Energy (IES Utilities) Name			Date	4/2	21/2005		•					
	P. O. Box	351, Cedar Rapi Addre		<del></del>	Sheet	1	c	of	2				
2.	Plant Duane Arnold Energy Center Name			Unit	1								
	3277 DAEC Road, Palo, IA 52324					MWO 1129050							
		Addre	ess		Repair O	rganization t	o P. O. N	o., Job	No., etc.				
3.	Work Perf	ormed by <u>Allian</u>	Energy (IES Util	ities)		le Symbol St	amp	Non-					
	3277 DAE	EC Road, Palo, IA	52324			Authorization No. Expiration Date			ie				
4.		ion of System:		eat Removal	Lapitatio	n Date		1101					
5.		able Construction		I B31.7 Class 1	19 69	Edition	71	Adden	da N/A	Code Case.			
			Section XI Utilized	for Repairs or	Replacemen	ts 1992-A92		• •		•			
	(-)												
6.	Identificat	ion of Componer	its Repaired or Re	placed and Rep	lacement Co	mponents							
-	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ide	ntification	Year	Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)			
	6-H-8 and 6-SS-13	Nova	NA	N/A	Bolt Ht#	8898297	20	05	Replacement	No			
A-	6-H-8 and 6-SS-13	Nova	NA NA	N/A	Nut Lot #	50041551	20	05	Replacement	No			
	6-H-8 and 6-SS-13	Tuscaloosa Steel	NA	N/A	Ht#A7	X3024	19	98	Repair	No			
									<u> </u>				
7.	Descriptio	n of Work:	Replaced one bol for supports DLA										
8.	Tests Cond	dúcted:	Hydrostatic		Pneumatic		Nominal	Operati	ing Pressure				
		Other	Pressu	re <u>N/A</u>	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 Others									
Remarks:  Replaced one bolt and nut that were cut to remove the pipe clamp for supports DLA-6-H-8 and DLA-6-SS-13  Pipe clamp was removed to facilitate examining welds next to the clamp. Welded support bars onto the pipe clamp as depicted on the clamp drawing.									
Successful preservice VT-3 exam was performed on the supports (P05004 and P05006).									
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 Punelly Supervisor, Materials/Inspection Date April 21, 2005									
Signed Tunel Deur Supervisor, Materials/Inspection Date April 21, 2005									
Owner or Owner's Designee, Title									
CERTIFICATE OF INSERVICE INSPECTION									
CERTIFICATE OF INSERVICE INSTECTION									
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 $1/-03-04$ to $1/-03-05$ , 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.									
JG Commissions NO 12329ANT 1496 IA									
Inspector's Signature  Commissions  NO 13339ANI 1496 IA  National Board, State, Province, and Endorsements									

ı.	. Owners Alliant Energy (IES Utilities) Name			Date	_	4/3	0/2005			<del> </del>	
	P. O. Box	351, Cedar Rapi Addre		<del></del>	Sheet		1	0	of	2	
2.	Plant	Duane Arnold Name	Energy Center		Unit		1			···	
	3277 DAEC Road, Palo, IA 52324 Address				PWO 1129089, 1129090, 1129091, 1129092 1129093, 1129094, 1129095 and CWO A067500 Repair Organization to P. O. No., Job No., etc.						
<b>3. 4.</b>	Name 3277 DAEC Road, Palo, IA 52324					ode	Symbol Sta on No.		Non-	ne ne	
5.						68 ents	Edition 1992 <u>-A92</u>	W68	Adden	da N/A	Code Case.
6.	Identificat	ion of Componer	nts Repaired or Re	placed and Rep	olacement C	Comp	onents				
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I	denti	fication	Year	Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or
1R21	5(06-23)	GE	S/N 4501			_		19	72	Replacement	NO) Yes
	5(06-23)	Nova	N/A	N/A	8 Bolts	Ht# 8	960755	20	04	Replacement	No
	5(10-11)	GE	S/N 2519						72	Replacement	Yes
	5(10-11)	Nova	N/A	N/A	8 Bolts	Ht# 8	960755	20	04	Replacement	No
	5(10-23)	GE	S/N 4494						72	Replacement	Yes
	5(10-23)	Nova	N/A	N/A	8 Bolts	Ht# 8	960755	20		Replacement	No
	5(14-07)	GE	S/N A4286	1	3 2,0,03			4	90	Replacement	Yes
	5(14-07)	Nova	N/A	N/A	8 Bolts	Ht# 8	960755	20		Replacement	No
	5(14-11)	GE	S/N 3522					19	72	Replacement	Yes
1R21	5(14-11)	Nova	N/A	N/A	8 Bolts	Ht# 89	960755	20	04	Replacement	No
1R21	5(14-23)	GE	S/N 4467					19	73	Replacement	Yes
	5(14-23)	Nova	N/A	N/A	8 Bolts	Ht# 89	960755	20		Replacement	No
	5(18-31)	GE	S/N 4333					19		Replacement	Yes
7.	Descriptio	n of Work:	Replaced bolting	and control ro	8 Bolts d drives at C			)-23, 14		Replacement	No
8.	Tests Cond	ducted: Other	Hydrostatic Pressu	•	Pneumatic	; <b>i</b>	Test Temp		Operati <b>240.6</b>	ing Pressure	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 bolting and control rod dr Successfully performed VT-2 of rep bolting. See the individual work or bolting at receiving inspection.	olaced drives (10	5001). A VT-1 was succ	cessfully completed on all removed
	CERTIFICAT	E OF COMPL	ANCE	
	statements made in the report are correspondences of the ASME Code, Section XI.	ect and this	Replacement (repair or replacemen	1)
Type Code Symbol				
Certificate of Author	orization No. None	Ехр	iration Date	N/A
Signed <u>Als</u>	Owner or Owner's Designee, Title	nspection Date	: Jacy 11	2005
	CERTIFICAT	E OF INSERV	CE INSPECTION	
I, the undersigned, I the State or Provinc		and	employed by HSB (	СТ
of during the period	Hartford, Conn. 9-16-04 to		pected the components d	lescribed in this Owner's Report , and state that to the best of
my knowledge and	belief, the Owner has performed exame requirements of the ASME Code, Sec	inations and tak	en corrective measures d	lescribed in this Owner's Report in
examinations and co	ificate neither the Inspector nor his em orrective measures described in this O r for any personal injury or property d	wner's Report.	Furthermore, neither the	Inspector nor his employer shall be
US	Commissions	<u>18 1333</u>	9ANE, 1496 d, State, Province, and I	<i>FA</i>
inspector s	i Signature	National Boal	a, state, Province, and I	indorsements

7-1/ ,2005

Date

1.	Owners	Alliant Energ	y (IES Utilities)		Date 4/30/2005			_	
		Name							
	P. O. Box	351, Cedar Rapi	ds, IA 52406		Sheet	1	of	2	
		Addr	ess						
2.	Plant	Duane Arnold	Energy Center		Unit	1			
	•	Name	;	<del></del>					
	3277 DAE	C Road, Palo, IA	A 52324			MWC	A63071		
		Addre	ess	<del></del>	Repair Orga	nization to	P. O. No., Job	No., etc.	
3.	Work Perf	ormed by Allian	t Energy (IES Util	lities)	Type Code	Symbol Star	np Nor	ne	
		Name			Authorizatio	on No.	Not	ne	
		C Road, Palo, I		<del></del>	Expiration I	Date	Not	ne	
4.		ion of System:	Core Spray		10 (0	D 1'4'	A 11	1 27/4	0.1.0
5.		able Construction		/ Draft Class 2	1968	Edition _	Adder	ida <u>N/A</u>	Code Case.
	(b) Applic	cable Edition of	Section XI Utilize	d for Repairs or	Replacements	1992 <u>-A92</u>			
6.	Identificati	ion of Componer	nts Repaired or Re	placed and Rep	lacement Comp	onents			
									ASME
	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National	Other Identif	ication	Year Built	Repaired, Replaced, or	Code Stamped
Ì			001141110	Board No.	O 140			Replacement	(YES or
MO2	112	Flowserve	23520-1	N/A	Value Di		2005	Replacement	NO)
MOZ	112	Flowserve	23320-1	N/A	Valve Di	Valve Disc 2		Replacement	No
					······································				
		·							
7	Description	n of World	Danlaged value d	lies dus to moon			tom and disa		mononts
7.	Description	n or work:	Replaced valve d	isc due to poor	connection bety	veen valve s	tem and disc c	on replaced con	iponents.
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	□ No	ominal Operat	ing Pressure	
		Other	Pressu	ire N/A	psi	Test Temp	N/A	°F	
		Other	Pressu	ire 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 valve disc.
·
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.
Type Code Symbol Stamp None
Certificate of Authorization No. None Expiration Date N/A
Signed Fundant Sur for Supervisor, Materials/Inspection Date April 30 2005  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
of Hartford, Conn. have inspected the components described in this Owner's Report
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 13394NI 1496 - TA  National Board, State, Province, and Endorsements
Date <u>5-5</u> , 2005

1.	Owners		y (IES Utilities)		Date _	4/3	0/2005		
		Name							
	P. O. Box	351, Cedar Rapi	ds, IA 52406		Sheet _	1	of	2	
		Addr	ess						
2.	Plant	Duane Arnold	Energy Center	<del>· · · · · · · · · · · · · · · · · · · </del>	Unit _	1			
		Name							
	3277 DAE	C Road, Palo, I	A 5232 <u>4</u>				1128161		
		Addr	ess		Repair Org	ganization to	P. O. No., Job	No., etc.	_
3.	Work Perf	ormed by <u>Allian</u>	t Energy (IES Util	ities)	Type Code				
		Name			Authorizat	ion No.	No	ne	
		C Road, Palo, L			Expiration	Date	No	ne	
4.		ion of System:		quid Control					
5.	(a) Applic	able Construction	n Code P&V	Draft Class 2	19 68	Edition	Adde	nda N/A	Code Case.
	(b) Applic	able Edition of	Section XI Utilized	d for Repairs of	Replacements	1992 <u>-A92</u>	<del></del>		•
					_				
6.	Identificat	on of Componer	nts Repaired or Re	placed and Rep	lacement Con	ponents	,	<del>,</del>	
,	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National	Other Ident	lification	Year Built	Repaired, Replaced, or	ASME Code
	omponent	Manutacturer	Senaino.	Board No.		nication		Replacement	Stamped (YES or NO)
XS2	618B	IST Conax Nuclear	608	N/A	Valv	e	2004	Replacement	No
								I	
	•			]					
		•	<del> </del>	*			•		*
7.	Description	n of Work:	Replaced explosi	ve valve on fre	quency require	d by IST Pro	ogram.		
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	N	lominal Operat	ing Pressure	X
		Other	Pressu	re 124:	5 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 valve. Valve is threaded into place. Successfully performed VT-2 of the valve after installation (P05024).
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 Rusell Four for Supervisor, Materials/Inspection Date May 6 , 2005 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 //-/0-04 to 5-6-05 , 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.
J9 Commissions NB 12329 AN 1 1496 >>
19 Commissions V3 11339 AV 1 1496 75  Inspector's Signature National Board, State, Province, and Endorsements
Date <u>5-6-05</u> ,2005

ł.	Owners	Alliant Energy	y (IES Utilities)	<del></del>	Date	5/	2/2005			
	P. O. Box	351, Cedar Rapi Addro		····	Sheet	1	of		2	·····
2.	Plant	Duane Arnold Name	Energy Center		Unit	1				
	3277	DAEC Road, Pal			Repair (		129101, 1	129102 a	29098, 1129 nd CWO A0	
3. 4.	Work Performed by Alliant Energy (IES Utilities) Name 3277 DAEC Road, Palo, IA 52324				Type Co	ode Symbol S zation No.		None None None		
5.	(a) Applio	cable Construction		IE Sect. III s I		8 Edition		Addenda	N/A	Code Case.
6	Idontificat	ion of Compone	ata Danairad ar Da	nload and Dan	lagament C	anamanta				
	Name of omponent	Name of Manufacturer	nts Repaired or Re Manufacturer Serial No.	National Board No.		entification	Year B		Repaired, Replaced, or Replacement	ASME Code Stamped (VES or
1R21	5(22-03)	GE	S/N 4407	-	<del> </del>	<del></del>	1972	2	Replacement	NO) Yes
1R21	5(22-03)	Nova	N/A	N/A	8 Bolts I	t# 8960755	200-	1	Replacement	No
IR2I	5(22-07)	GE	S/N 4388				1972		Replacement	Yes
IR21	5(22-07)	Nova	N/A	N/A	8 Bolts I	t# 8960755	200-	1	Replacement	No
	5(22-11)	GE	S/N 4017		•		1972		Replacement	Yes
1R21	5(22-11)	Nova	N/A	N/A	8 Bolts H	t# 8960755	200-	1	Replacement	No
	5(22-31)	GE	S/N 3965	1		· · · · · · · · · · · · · · · · · · ·	1972		Replacement	Yes
1R21	5(22-31)	Nova	N/A	N/A	8 Bolts H	t# 8960755	200-		Replacement	No
1R21	5(26-11)	GE	S/N 3986				1972	2	Replacement	Yes
1R21	5(26-11)	Nova	N/A	N/A	8 Bolts H	u# 8960755	200-	1 :	Replacement	No
	5(26-31)	GE	S/N 4789			· · · · · · · · · · · · · · · · · · ·	197.		Replacement	Yes
	5(26-31)	Nova	N/A	N/A	8 Bolts H	t# 8960755	200		Replacement	No
	5(30-15)	GE	S/N 4350	<b> </b>			1972	2   1	Replacement	Yes
1 <u>KZI.</u> 7.	5(30-15) Descriptio	n of Work:	Replaced bolting	n/A and control roo		# 8960755 2-03, 22-07, 2	200-	<del></del>	26-31, 30-1	5 loc.
8.	Tests Cond	ducted:	Hydrostatic		Pneumatic		Nominal C	perating	Pressure	X
		Other	Pressu	re 1025	i psi	Test Tem	p 2	40.6	۰F	

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 bolting and control rod drives at 22-03, 22-07, 22-11, 22-31, 26-11, 26-31, 30-15 locations. Successfully performed VT-2 of replaced drives (105001). A VT-1 was successfully completed at receiving inspection for replacement bolting. An Inservice bolting VT-1 inspection was completed on all removed bolting and found satisfactory. See the individual work order for each VT-1.					

CERTIFICATE OF COM	IPLIANCE
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.	(reput of reputernon)
Type Code Symbol Stamp None	
Certificate of Authorization No. None	Expiration Date N/A
Signed Owner or Owner's Designee, Title	Date 042 1/ 2005
CERTIFICATE OF INSE	ERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the Nationa the State or Province oflowa	and employed by HSB CT
of Hartford, Conn. have during the period $\frac{\sqrt{2} - 16 - 0.94}{\sqrt{2}}$ to $\frac{\sqrt{2} - 16 - 0.94}{\sqrt{2}}$ my knowledge and belief, the Owner has performed examinations an accordance with the requirements of the ASME Code, Section XI.	e inspected the components described in this Owner's Report
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
UB Commissions NB 13	Board, State, Province, and Endorsements
	Board, State, Province, and Endorsements
Date 7-11 , 2005	

ı.	Owners	Alliant Energ	y (IES Utilities)	<del> </del>	Date	5/2	2/2005		
	P. O. Box	351, Cedar Rapi Addr			Sheet	1	of	2	
2.	Plant	Duane Arnold Name	Energy Center		Unit	1	<del>.</del>	<del> </del>	
	3277	DAEC Road, Pa			Repair (	11328	29104, 1129105 03 and CWO A o P. O. No., Job		9114,
<ol> <li>3.</li> <li>4.</li> </ol>	3. Work Performed by <u>Alliant Energy (IES Utilities)</u> Name 3277 DAEC Road, Palo, IA 52324				Type Code Symbol Stamp Authorization No. Expiration Date  None None				
5.	(a) Applic	cable Construction of S	on Code ASM Class Section XI Utilized	1E Sect. III s 1 d for Repairs or	•	nts 1992 <u>-A92</u>	W68 Adde	nda N/A	Code Case.
	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)
1R21	5(30-39)	GE	S/N 4875	†			1973	Replacement	Yes
1R21	5(30-39)	Nova	N/A	N/A	8 Bolts II	t# 8960755	2004	Replacement	No
IR2I	5(34-07)	GE	S/N A8883		<u></u>		1990	Replacement	Yes
	5(34-07)	Nova	N/A	N/A	8 Bolts H	t# 8960755	2004	Replacement	No
	5(34-39)	GE	S/N 3979				1972	Replacement	Yes
	5(34-39)	Nova	N/A	N/A	8 Bolts H	t# 8960755	2004	Replacement	No
	5(34-11)	GE:	S/N 4355	<del> </del>	00.16.13		1972	Replacement	Yes
	5(34-11) 5(30-31)	Nova GE	N/A S/N 3964	N/A	8 Boits H	t# 8960755	1972	Replacement Replacement	No Yes
	5(30-31)	Nova	N/A	N/A	8 Bolts H	t# 8960755	2004	Replacement	No
7.		n of Work:	Replaced bolting	and control roc	l drives at 30	)-39, 34-07, 3	4-39, 34-11, 30	-31 loc.	
8.	Tests Con	ducted:	Hydrostatic		Pneumatic		Nominal Operat	ting Pressure	X
		Other	Pressu	re 1025	j psi	Test Temp	240.6	٥F	

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 bolting and control rod drives at 30-39, 34-07, 34-39, 34-11, 30-31 locations. Successfully performed VT-2 of replaced drives (105001). A VT-1 was successfully completed at receiving inspection for all replacement bolting. An Inservice bolting VT-1 was completed on all removed bolting and found satisfactory with one exception. 105141 on PWO 1129105 found one bolt with damage to two threads from handling damage.					

CERTIFICATE OF CO	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 Will Record for Supervisor, Materials/Inspection Owner or Owner's Designee, Title	Date <u>Taly 11.</u> 2005
CERTIFICATE OF INS	nl Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT
	ve inspected the components described in this Owner's Report  , 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.	nd taken corrective measures described in this Owner's Report in
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
-33 Commissions NB	Board, State, Province, and Endorsements
Inspector's Signature National	Board, State, Province, and Endorsements

1.	. Owners Alliant Energy (IES Utilities) Name		Date	5/2	2/2005	<del></del> -					
	P. O. Box	351, Cedar Rapi Addr	ids, IA 52406	<del></del>	Sheet	1_	of	2			
2.	Plant	Duane Amold Name	Energy Center	<del></del>	Unit	1					
	3277	DAEC Road, Pa Addr		<del></del>	Repair C	PWOs 1132908, 1129109, 1129108, 1132909, 1129110, 1129113 and CWO A067500, A65092  Repair Organization to P. O. No., Job No., etc.					
<ol> <li>3.</li> <li>4.</li> </ol>	Name 3277 DAEC Road, Palo, IA 52324				Authori2	Type Code Symbol Stamp Authorization No. Expiration Date  None None					
5.					•	nts 1992 <u>-A92</u>	Adder	nda N/A	Code Case.		
		nts Repaired or Re Manufacturer Serial No.	Placed and Rep National Board No.		Other Identification		Repaired, Replaced, or Replacement	ASME Code Stamped (YES or			
1S220	(02-19)	GE	S/N C0101	<del> </del>	HCU Ac	cumulator	1978	Replacement	NO) Yes		
	(34-23)	GE	S/N C0079	<del> </del>	HCU Ac	cumulator	1978	Replacement	Yes		
	(10-23)	GE	S/N A2573			cumulator	1978	Replacement	Yes		
1S220	(10-15)	GE	S/N A2547	1	HCU Ac	cumulator	1978	Replacement	Yes .		
1S220	(30-39)	GE	S/N C0089		HCU Ac	cumulator	1978	Replacement	Yes		
1S220	(14-27)	GE	S/N C0078	<del>                                     </del>	HCU Ac	cumulator	1978	Replacement	Yes		
1S220	(42-23)	GE	S/N C0100		HCU Ac	cumulator	1978	Replacement	Yes		
				1	•		<u> </u>	<u> </u>			
							ļ		·		
7. 8.	Description Tests Cond	-	Replaced HCU A  Hydrostatic  Pressur		Pneumatic		5, 30-39, 14-27, Nominal Operati		s X		
7. 8.	-	ducted:	Hydrostatic		Pneumatic		lominal Operati		g Pressure		

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 HCU Accumulators at 02-19, 34-23, 10-23, 10-15, 30-39, 14-27, 42-23 locations. Successfully performed VT-2 of replaced HCU accumulators (105001).

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 Russefor Supervisor, Materials/Inspection Date May 6, 2005 Owner or Owner's Designee, Title							
Owner of Owner a Designee, Thie							
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 $9-6-04$ to $6-14-05$ , 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 13339 ANT, 1496 ID  National Board, State, Province, and Endorsements							
Inspector's Signature National Board, State, Province, and Endorsements							
Date 6-14 ,2005							

1.	Owners Alliant Energy (IES Utilities) Name				Date	5/2	25/2005			
	P. O. Box 351, Cedar Rapids, IA 52406 Address			Sheet	1	of	2			
2.	Plant	Duane Arnold Name		·····	Unit	1				
	3277 DAEC Road, Palo, IA 52324 Address				Repair	CWO AS	54646 o P. O. No., Job	No., etc.	<del></del>	
<ol> <li>3.</li> <li>4.</li> </ol>	Work Performed by Alliant Energy (IES Utilities)  Name  3277 DAEC Road, Palo, IA 52324  Identification of System: Main Steam Line Drain				Type Co Authori	Type Code Symbol Stamp Authorization No. Expiration Date  None None				
5.	(a) Applic	cable Constructio	n Code ANS	I B31.1		67 Edition	N/A Adder	nđa N/A	Code Case.	
6.			Section XI Utilized ats Repaired or Re	-	_					
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)	
CVI	)64	Flowserve	S/N 29AXD	N/A		am Drain to Isolation Valve	2004	Replacement	No	
EBD(	002	Vision Metals	HT# 151234	N/A	Piping	to CV1064	1999	Replacement	No	
EBDO	002	Gulf States Steel	HT# 7462666	N/A		teel for CV1064	1998	Replacement	No	
EBDO	002	Lukens Steel	HT# R2958	N/A	5/8" Plate St	eel for CV1064	1991	Replacement	No	
EBD002		Independence Tube Corp	HT# D42964	N/A	Tube Steel for CV1064 Support		2002	Replacement	No	
EBDO	002	Bergen-Power	283	N/A	U-	Bolts	2004	Replacement	No	
7.	Descriptio	n of Work:	Replaced CV106 operator.	4 with a valve	that has a he	avier operator,	, and installed n	ew supports for	the	
8. Tests Conducted: Hydrostatic				Pneumatic	1	Nominal Operat	ing Pressure	$\bowtie$		
		Other	Pressu	re 968	3* psi	Test Temp	552*	°F		
*Der	formed in a	ccordance with C	ode Case N416-1							

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.

<sup>\*</sup>Performed in-accordance with Code Case N416-1

9. Remarks:	examined piping welds. Built a	Valve and a pipe pup piece to fit valve into system. Successfully surface dditional supports from the flat plate and u-bolts to support the heavier valve and led VT-2 of piping welds and of the replaced valve (Report P05025 performed on
	CERTIFIC	CATE OF COMPLIANCE
We certify that the	statements made in the report are o	
conforms to the rule	es of the ASME Code, Section XI.	(repair or replacement)
Type Code Symbol		•
	-	
Certificate of Author	) /) ———	als/Inspection Date May 27, 2005
	CERTIFIC	ATE OF INSERVICE INSPECTION
I, the undersigned, I the State or Province	<del>-</del>	by the National Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT
ofduring the period	Hartford, Conn.	have inspected the components described in this Owner's Report  o $5 \cdot 27 - 65$ , and state that to the best of
my knowledge and l		xaminations and taken corrective measures described in this Owner's Report in
examinations and co	orrective measures described in thi	s employer makes any warranty, expressed or implied, concerning the s Owner's Report. Furthermore, neither the Inspector nor his employer shall be ty damage or a loss of any kind arising from or connected with this inspection.
JBL	Commissions	NB 19399ANE, 1496 IA  National Board, State, Province, and Endorsements
Inspector's	<b>C</b>	National Board, State, Province, and Endorsements
Date <u>5-∂</u>	7 , 2005	

ı.	Owners	Owners Alliant Energy (IES Utilities) Name				-	5/26/2005					
_	P. O. Box 351, Cedar Rapids, IA 52406 Address			Shee	t	1	•	of	2	<del></del>		
2.				Unit		1_				<del></del>		
	3277 DAEC Road, Palo, IA 52324 Address				Dona	is Osa	CWO A		Io Joh N			
		Addre	:55		Repair Organization to P. O. No., Job No., etc.							
3.	Work Perf	ormed by Allian	Energy (IES Util	ities)	Type Code Symbol Stamp None							
		Name	•		•		on No.		None			
		C Road, Palo, IA		• • •	Expi	ration 1	Date		None			
4. 5.	Identification of System: Reactor Recirculation			19	67	Edition	N/A	Addenda	a N/A	Code Case.		
٥.	<ul> <li>(a) Applicable Construction Code ANSI B31.1</li> <li>(b) Applicable Edition of Section XI Utilized for Repairs or</li> </ul>					_			Addella		Coue Case.	
	(в) Аррис	able Edition of a	Section At Offized	i for Kepairs (	ог керіасе	ments	1992 <u>-A92</u>					
6.	Identificati	ion of Componer	its Repaired or Re	placed and Re	placement	Comp	onents					
Name of Component		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification				Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)		
Recirculation Piping		GE	N/A	N/A	Reactor Recirculation Riser Dissimilar Metal Weld		Unknown		Repaired	No		
								<u> </u>				
								┨──				
								-				
								$\mathbf{J}_{-}$				
7.	Description	n of Work:	Removed weld cr	own on RRF-	F002 weld	l by M	achining.					
8. Tests Conducted: Hydrostatic				Pneumat	ic		Nominal	Operating	g Pressure			
		Other	Pressu	reN/	<u>A</u>	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 weld crown from Recirculation Riser safe-end dissimilar metal weld RRF-F002 by machining. Weld crown was removed to improve the ultrasonic examination of the weld. Successful surface exam was completed on weld (P05019) after machining was completed.
	CERTIFICATE OF COMPLIANCE
We certify that the	statements made in the report are correct and this Repair
	(repair or replacement)
Type Code Symbol	
Certificate of Author	orization No. None Expiration Date N/A
Signed Loud	Owner or Owner's Designee, Title  Date  May 26, 2005
	CERTIFICATE OF INSERVICE INSPECTION
the State or Provinc	nolding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and e of and employed byHSB CT
	Hartford, Conn. have inspected the components described in this Owner's Report  11-6-6-4 to 5-36-65, and state that to the best of 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.
BL	Commissions  NS 13324NI, 1496 II  National Board, State, Province, and Endorsements
Inspector's	Signature National Board, State, Province, and Endorsements

1.	. Owners Alliant Energy (IES Utilities) Name		<del></del>	Date	5/2	6/2005				
	P.O. Box	351, Cedar Rapi Addr		<del> </del>	Sheet _	1	of	2	·	
2.	Plant	Duane Arnold Name	Energy Center	<del></del>	Unit _	1	· · · · · · · · · · · · · · · · · · ·		<u></u> .	
	3277	DAEC Road, Pa Addr			Repair Or	CWO A6	4844 P. O. No., Job	No., etc.		
3. 4.	Work Performed by Alliant Energy (IES Utilities)  Name 3277 DAEC Road, Palo, IA 52324  Identification of System: Reactor Recirculation				Type Code Symbol Stamp Authorization No. Expiration Date  None  None					
5.	<ul> <li>(a) Applicable Construction Code ANSI B31.1</li> <li>(b) Applicable Edition of Section XI Utilized for Repair</li> </ul>				•	s 1992 <u>-A92</u>	N/A Adde	nda N/A	Code Case.	
6. C	Name of Name of Manufacturer Component Manufacturer Serial No. Na		Placed and Re National Board No.	Other Identification		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)		
Reci Pipir	rculation ng	GE	N/A	N/A	Reactor Recirc Dissimilar N		Unknown	Repaired	No	
	Di.ii	F.W I	D	DDC.	T00211 L					
7. 8.				OWN ON KRG-	Pneumatic		Iominal Opera	ting Pressure	×	
		Other	Pressu	re <u>N//</u>	A psi	Test Temp	N/A	°F		

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9.	Remarks:	crown was i		ultrasonic exam	e-end dissimilar metal weld RRG-F002 by machining. Weld in the weld. Successful surface exam was complete
			CERTIFICAT		
We c	ertify that the	statements ma	de in the report are corre	ect and this	Repair (repair or replacement)
confo	orms to the rul	es of the ASM	E Code, Section XI.		(repair of replacement)
Туре	Code Symbol	Stamp	None		
Certi	ficate of Autho	okization No.	None	Exp	piration Date N/A
Signe	d fund	Lewer or Owner or	Supervisor, Materials/It Owner's Designee, Title	nspection Date	ne May 26, 2005
			CERTIFICATI	E OF INSERVI	VICE INSPECTION
I, the	undersigned, late or Province	holding a valid	commission issued by t Iowa		oard of Boiler and Pressure Vessel Inspectors and demployed by HSB CT
my kı		11-6-0 belief, the Ow		<u> </u>	spected the components described in this Owner's Report , and state that to the best of ken corrective measures described in this Owner's Report in
exam	inations and c	orrective meas	ures described in this Ov	vner's Report.	iny warranty, expressed or implied, concerning the Furthermore, neither the Inspector nor his employer shall be of any kind arising from or connected with this inspection.
	سا الك		Commissions	NB 13	P374 ANE, 1496 FA ard, State, Province, and Endorsements
	Inspector's	Signature		National Boar	ard, State, Province, and Endorsements
Date	5-2	6	, 2005		

1.	. Owners Alliant Energy (IES Utilities) Name			<del></del>	Date		5/2	26/2005		-	
	P. O. Box	351, Cedar Rapi Addre			Shee	t _	11		of	2	
2.	Plant	Duane Arnold Name	Energy Center	<del></del>	Unit		11				
	3277	3277 DAEC Road, Palo, IA 52324 Address			Repa	ir Org	CWO Ac		lo., Job N	o., etc.	
3. 4.	Work Peri	ities)	Type Code Symbol Stamp Authorization No. Expiration Date  None  None								
5.					19 or Replace	67 ments	Edition 1992 <u>-A92</u>	N/A	Addend	a N/A	Code Case.
	6. Identification of Components Repaired or Replaced and Re  Name of Name of Manufacturer Component Manufacturer Serial No. National Board No.		placement Components Other Identification		P		Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)			
Reci Pipir	rculation g	GE	N/A	N/A	Reactor	Recircul Weld	ation Riser	Unk	nown	Repaired	No
7.	Descriptio	n of Work:	Blended arc strike	e on weld RR	D-J005.						
8.	Tests Cond	ducted:	Hydrostatic		Pneumati	ic	1	Nominal	Operating	g Pressure	
		Other	Pressu	re <u>N/.</u>	<u>A</u>	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:	Blended arc strike on Rec (P05054) after grinding v		RRD-J005. Success	sful surface exam was completed on weld
	CER	TIFICATE OF COM	MPLIANCE	
We certify that the s	tatements made in the repo	ort are correct and this		
conforms to the rule	s of the ASME Code, Secti	ion XI	(repair or rep	placement)
1				
Type Code Symbol	Stamp Nor	1e		
Certificate of Author		None	•	N/A
Signeduncel	Supervisor, I Owner or Owner's Desi	Materials/Inspection	Date May	<u> کل,</u> 2005
	Owner or Owner's Des	ignee, Title	0	
	CER	TIFICATE OF INSI	ERVICE INSPECT	ION
the State or Province	olding a valid commission to	issued by the Nationa	and employed by	Pressure Vessel Inspectors and HSB CT
of	Hartford, Conn.	hav	e inspected the comp	HSB CT conents described in this Owner's Report
my knowledge and b	elief, the Owner has perfor	med examinations an	d taken corrective me	, and state that to the best of easures described in this Owner's Report in
accordance with the	requirements of the ASME	Code, Section XI.		•
				ressed or implied, concerning the
				ither the Inspector nor his employer shall be ng from or connected with this inspection.
			-	-
Inspector's	Commis Signature	sions <u>NG 12</u> National	Board, State, Province	1486 IA
Date 5 0	, 2005	<u> </u>		
L <del></del>				

1.	Owners Alliant Energy (IES Utilities) Name				Date 5/26/2005					<del></del>	
2.	P. O. Box	351, Cedar Rapi Addr	ids, IA 52406 ess Energy Center		Shee Unit	·	1		of	2	
	3277 DAEC Road, Palo, IA 52324 Address				Repa	ir Orga	PWO 112		lo., Job No	o., etc.	
<ol> <li>3.</li> <li>4.</li> </ol>	Work Performed by Alliant Energy (IES Utilities) Name 3277 DAEC Road, Palo, IA 52324 Identification of System: Control Rod Drive					Type Code Symbol Stamp Authorization No. Expiration Date  None None					
5.	· · · · · · · · · · · · · · · · · · ·				19 or Replace	69 ments	Edition 1992 <u>-A92</u>	70	Addenda	N/A	Code Case.
6.	Identificati	on of Componer	nts Repaired or Re	placed and Re	placement	Comp	onents				
	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)	
Cont Retu	rol Rod Drive m	Bechtel	N/A	N/A	CRD Retu	m Diss Weld	imilar metal	19	774	Repaired	No
7.	Description	n of Work:	Ground down we	ld crown on v	veld CRA-	1032.					
8.	Tests Cond	lucted:	Hydrostatic		Pneumati	С	1	Nominal	Operating	Pressure	
		Other	Pressu	re <u>N/</u>	<u>A</u>	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.

after grinding was completed.	
	<del></del>
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this Repair	
(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 Pucul Sew for Supervisor, Materials/Inspection Date May 7.6, 2005  Owner or Owner's Designee, Title	
Owner's Designee, Title	
	<del></del>
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 F	
during the period $3-31-05$ to $5-36-05$ , and state that to the be my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's F	est of
accordance with the requirements of the ASME Code, Section XI.	report in
Description also and Great weighted by the section will apply the section and the section of the section and 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 employe	r 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 ins	
Commissions NB 13399ANF, 1496 FA  Inspector's Signature National Board, State, Province, and Endorsements	
Inspector's Signature National Board, State, Province, and Endorsements	
Date 5-06, 2005	
	<del></del>

1. Own	1. Owners Alliant Energy (IES Utilities)  Name		Date	Date 05/27/05					
<u>P. O.</u>	Box 351, Cedar Rapi	ids, IA 52406	<del></del>	Sheet	1	of	2	<del></del>	
2. Plant	Duane Arnold Name	Energy Center		Unit _	1.				
3277	DAEC Road, Palo, I. Addr	Repair Or	PWO 1128060 Repair Organization to P. O. No., Job No., etc.						
3277	Performed by Allian Name DAEC Road, Palo, Idification of System:	A 52324		Type Cod Authoriza Expiration f Valve (Class	n Date	Nor Nor	ne		
5. (a) A (b) A	Applicable Construction of Special Applicable Edition of Special Information of Components	19 68 or Replacement	Edition s 1992 <u>-A92</u>	W68 Adder	nda <u>N/A</u>	Code Case.			
Name of Compone (Hanger N	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Id	entification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
Pilot Valve	Target Rock	S/N 207	N/A		8060 / 83.04	1976	Replacement	Yes	
7. Desci	iption of Work:	The Pilot Valve w		nd documented	on NIS-2 (19-	03-02). This	Pilot Valve was	s rotated in	
8. Tests	8. Tests Conducted: Hydrostatic			Pneumatic	Pneumatic Nominal Operating Pressure X				
	Other	Pressur	re <u>102</u>	0 psi	Test Temp	240	°F		
in items 1 t	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:								allation S/N 207 was he mechanical connection
		CERTIFICAT	TE OF COM	1PLIANCE				
We certify that the	statements mad	le in the report are cor	rect and this	Replac				
(repair or replacement) conforms to the rules of the ASME Code, Section XI.								
Type Code Symbol	-	None			<del></del>			
Certificate of Autho	1			Expiration Da	_		N/A	
Signed <u>(U &amp;</u>	Owner or	GL Equipment N Owner's Designee, Tit	Monitoring le	Date Ju	1/2	7,		_ 2005
		CERTIFICAT	E OF INSE	RVICE INSP	ECTIO	N		
I, the undersigned, he the State or Province		commission issued by Iowa		and employed	l by	HSB C7	Γ.	-
of	Hartford		hav	e inspected the	compoi	nents des	cribed i	n this Owner's Report
		to ner has performed exar of the ASME Code, Se	ninations an	d taken correct	ive mea	sures des	and st, scribed i	ate that to the best of in this Owner's Report in
examinations and co	rrective meas		wner's Rep	ort. Furthermo	re, neith	er the In	spector	concerning the nor his employer shall be ted with this inspection.
J9U		Commissions	NB 13	3391NI, Board, State, F		1446.	IA	
Inspector's	Signature		National	Board, State, F	Province	, and En	dorseme	ents
Date 6.10		, 2005						

1.				Date	Date 05/27/05				
		Name	;						
	P O Boy	351, Cedar Rapi	de IA 52406		Sheet	1	of	2	
	r. O. Bux	Addre			Silect		01		
		2 Iddi							
2.	Plant	Duane Arnold	Energy Center		Unit	I			
		Name	;						
	3277 DAE	C Road, Palo, IA		<del></del>			128063		
		Addre	ess		Repair Orga	anization to P.	. O. No., Job	No., etc.	
3.	Work Perf	ormed by Allian	t Energy (IES Utili	ities)	Type Code	Symbol Stam	p Non	e	
٥.	WOIRTCH	Name	Lineigy (ILS Offi	ities)	Authorization	-	Non		<del> </del>
	3277 DAE	C Road, Palo, IA	\ 52324		Expiration I		Non		
4.		ion of System:		Safety Relief	Valve (Class 1)			.•	
5.		able Construction			19 68		V68 Adden	da N/A	Code Case
			Section XI Utilized	for Repairs o	r Replacements			*	
6.	Identificati	on of Componer	nts Repaired or Rep	placed and Re	placement Comp	onents			
	· · ·				<del></del>				ASME
5	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National	Other Iden	tification	Year Built	Repaired, Replaced, or	Code Stamped
	langer No.)			Board No.			1	Replacement	(YES or
Dilat	Value	Town A Doub	C/N1 200	N/A	Work Ord		1976	Dla	NO) Yes
Phot	Valve	Target Rock	S/N 200	N/A	PWO 11280	03 / 83.04	1976	Replacement	1 cs
. —							-		<u> </u>
		· - · ·							
					<del></del>				
		-							
	<u> </u>			<u> </u>					<u> </u>
7.	Description	n of Work:	The Pilot Valve w place of S/N 189.		nd documented o	on NIS-2 (19-0	03-06). This	Pilot Valve was	s rotated in
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	Nor	minal Operati	ng Pressure	X
		Other	Pressur	re 102	0 psi	Test Temp	240	۰F	
					•	•			
			orm of lists, sketch						
	op of this for	rm.	0030) may be obtai		•				

9. Remarks:	Remarks: Pilot Valve S/N 189 was removed and pilot valve S/N 200 was installed. Prior to installation S/N 200 was repaired and documented on NIS-2 (19-03-06). A VT-2 (105001) was completed on the mechanical connection and found acceptable.							
		CERTIFICATE OF COM	APLIA	NCE		<del></del>		***********
We certify that the	: statements made in	the report are correct and this		Replacemen		<del></del>		
conforms to the ru	les of the ASME Co	de, Section XI.		(repair or re	eplaceme	ent)		
Type Code Symbo	I Stamp	None				. <u></u>		····
Certificate of Auth	orization No.	None	Expir	ation Date		N/A		
Signed <u>A</u>	Owner or Own	GL Equipment Monitoring ter's Designee, Title	Date	JANE	7		_ 2005	
		CERTIFICATE OF INSE	ERVIC	E INSPEC	TION			
I, the undersigned, the State or Province		nmission issued by the Nationa Iowa	and er	mployed by	HSB	B CT.	nspectors and	<del></del>

	CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid the State or Province of	commission issued by Iowa	the National Board of Boiler and Pressure Vessel Inspectors and and employed by HSB CT.						
of Hartford	l, Conn.	have inspected the components described in this Owner's Report						
during the period 9-1-04	to	6-10-6; and state that to the best of						
during the period $9-1-04$ to $6-10-0-$ , 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.								
examinations and corrective measu	ires described in this O	mployer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the Inspector nor his employer shall be damage or a loss of any kind arising from or connected with this inspection.						
Inspector's Signature	Commissions	NB 13399 AVE, 1446 In National Board, State, Province, and Endorsements						
Date 6-10	,2005							

1.	Owners	Alliant Energy	y (IES Utilities)		Date _	06/7/	05				
	P. O. Box	351, Cedar Rapi Addro			Sheet _	<u> </u>	of	2			
2.	Plant	Duane Arnold Name	Energy Center		Unit _	1					
	3277 DAE	C Road, Palo, 14	N 52324			PWO 1	1128066				
		Addre			Repair Organization to P. O. No., Job No., etc.						
3.	Work Perf		t Energy (1ES Utili	ties)		Symbol Stam	•				
	Name				Authorizat		Non	<del></del>			
4.	3277 DAEC Road, Palo, IA 52324 Expiration Date None  Identification of System: Main Steam Safety Relief Valve (Class 1)										
5.		able Construction			19 68		W68 Adden	da N/A	Code Case.		
			Section XI Utilized								
6.	Identificati	on of Componer	its Repaired or Rep	placed and Re	placement Com	ponents			·		
C	Name of omponent anger No.)	Name of Manufacturer	Manufacturer Serial No.	National Board No.		entification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or		
Pilot '	Valve	Target Rock	S/N 176	N/A		rder / SUS 3066 / 83.04	1976	Replacement	NO) Yes		
ody	to Pilot Bolt	Nova Machine	Item # 107 Ht # 66923	N/A		3066 / 83.04	1996	Replacement	No		
Body	to Pilot Nut	Target Rock	Item # 150 Ht # IN 85326	N/A	. PWO 1128	3066 / 83.04	1991	Replacement	No		
			<u> </u>				<del>                                     </del>		<u> </u>		
	· · · · · · · · · · · · · · · · · · ·										
7.	Description	of Work:	The Pilot Valve w						rotated in		
8. Tests Conducted:			Hydrostatic		Pneumatic	No	minal Operati	ng Pressure	X		
		Other	Pressur	e 102	0 psi	Test Temp	240	° F			
			orm of lists, sketch t is included on eac								

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

the top of this form.

9.	Remarks:	Pilot Valve S/N 141 was removed and pilot valve S/N 176 was installed. Prior to installation, S/N 176 was
		repaired and documented on NIS-2 (19-03-02). During removal of S/N 141, two bolts, one nut was galled and
		required replacement. A VT-1 was performed as part of the receipt inspections. A VT-2 (105001) was completed
		on the mechanical connection and found acceptable.

	CERTIFICATE OF COM	<b>1PLIANC</b>	E					
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.	` '		•	,			
Type Code Symbol Stamp	None			····				
Certificate of Authorization No.	None	Expiration	n Date		N/A			
Signed Willows (0)	GL Equipment Monitoring er's Designee, Title	Date _	Jave	20,		2005		
Office of Office				·		· · · · · · · · · · · · · · · · · · ·		
I, the undersigned, holding a valid con the State or Province of	Iowa	l Board of and emplo	Boiler an	d Pressur HSB (	CT.	•		
of Hartford, Coduring the period $9 - 1 - 69$ my knowledge and belief, the Owner haccordance with the requirements of the	to 6 as performed examinations and the ASME Code, Section XI.	e inspected ・ <u>ランータ</u> d taken cor	the com <u> T</u> rective m	ponents d	lescribed in a new and state and sta	n this Owner's Report ate that to the best of n this Owner's Report in		
By signing this certificate neither the I examinations and corrective measures liable in any manner for any personal i	described in this Owner's Rep	ort. Furthe	rmore, no	ither the	Inspector	nor his employer shall be		
Inspector's Signature	Commissions National	<i>i                                    </i>	10 I	19 nce, and F	196 I	A mts		
Date (5-2)	, 2005							

1.	Owners	Alliant Energy	y (IES Utilities)	<del></del>	Date	06/7/0	5			
	P. O. Box	351, Cedar Rapi Addre	ds, IA 52406	<del></del>	Sheet	1	of	2		
2.	Plant	Duane Arnold Name	Energy Center		Unit	11	· · · · · · · · · · · ·			
	3277 DAE	C Road, Palo, IA Addre		<del></del>	Repair Orga	PWO 11 anization to P.		No., etc.		
3.	3277 DAE	ormed by <u>Alliant</u> Name C Road, Palo, IA on of System:			Authorization l	Type Code Symbol Stamp Authorization No. Expiration Date None None				
4. 5. 6.	5. (a) Applicable Construction Code ASME III 19 68 Edition W68 Addenda N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992-A92									
C	Name of omponent anger No.)	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Iden Work Ord	tification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
Pilot	Valve	Target Rock	S/N 227	N/A	PWO 11280	67 / 83.04	1976	Replacement	Yes	
·										
7.	Description	of Work:	The Pilot Valve w		nd documented o	n NIS-2 (19-0	3-02). This	Pilot Valve was	s rotated in	
8. Tests Conducted: Hydrostatic				Pneumatic	Nom	inal Operati	ng Pressure	X		
		Other	Pressur	re <u>102</u>	0 psi	Test Temp _	240	°F		
in ite		h 6 on this repor	orm of lists, sketch t is included on eac							

9. Remarks: Pilot Valve S/N 203 was removed and pilot valve S/N 227 was installed. Prior to installation, S/N 227 was									
repaired and documented on NIS-2 (19-03-02). A VT-2 (105001) was completed on the mechanical connection									
and found acceptable.									
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									
Signed (1) Thouse Gral Equipment Monitoring Date June 7, 2005									
Owner or Owner's Designee, Title									
CERTIFICATE OF INSERVICE INSPECTION									
Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
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 9-1-01 to 6-10-05, 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.									
JA									
Inspector's Signature  Commissions  National Board, State, Province, and Endorsements									

Date 6-10 , 2005

1.	. Owners Alliant Energy (IES Utilities) Name				Date	06/2	3/05		
	P. O. Box	351, Cedar Rapi Addr	ds, IA 52406		Sheet	1	of	2	
2.	Plant	Duane Arnold Name	Energy Center		Unit .	1			<del></del>
	3277 DAE	C Road, Palo, L		<del></del>	Repair O	PWO rganization to I	1128068 P. O. No., Job	No., etc.	
<ol> <li>3.</li> <li>4.</li> </ol>	3277 DAE	ormed by Allian Name C Road, Palo, I/ on of System:			Type Code Symbol Stamp None Authorization No. None Expiration Date None  [Valve (Class 1)				
<ul><li>5.</li><li>6.</li></ul>	(a) Applic (b) Applic	able Construction of S		IE III I for Repairs o	19 68 or Replacement	Edition ts 1992 <u>-A92</u>	W68 Adden	da <u>N/A</u>	Code Case.
Name of Name of Component (Hanger No.)		Manufacturer Serial No.	National Board No.	Other Identification Work Order / SUS		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
Pilot	Valve	Target Rock	S/N 199	N/A		8068 / 83.04	1976	Replacement	Yes
7.	Description	of Work:	The Pilot Valve w		nd documented	l on NIS-2 (19-	03-02). This l	Pilot Valve was	rotated in
8.	3. Tests Conducted: Hydrostatic				Pneumatic	☐ No	minal Operati	ng Pressure	X
		Other	Pressur	re <u>102</u>	0 psi	Test Temp	240	° F	
NO	re-Sunnlen	ental sheets in f	orm of lists sketch	es or drawing	es may be used	l provided (1)	size is 81/7 in	v 11 in (2) in	formation

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:		imented on NIS-2 (						ation, S-N 199 was mechanical connection		
CERTIFICATE OF COMPLIANCE										
We certify that the s	tatements made in	the report are corre	ect and this		Replacement					
S	a afab - ACME Ca	I. C VI		_	(repair or rep	lacement)		<u> </u>		
conforms to the rule	s of the ASME Co	ie, Section XI.								
Type Code Symbol	Stamp	None	<del></del>							
Certificate of Author	rization No.	None		Expira	ition Date	1	I/A			
Signed <u>Al S</u>	Owner or Owner	GL Equipment Mer's Designee, Title	onitoring	Date	JUNE	- 24		2005		
		CERTIFICATI	OF INSE	FRVICI	F INSPECTI	ON				
I, the undersigned, he the State or Province		mission issued by t lowa	he Nationa		of Boiler and aployed by	Pressure V HSB CT.		pectors and		
of	Hartford, Co		have	e inspec	eted the comp	onents desc	ribed in t	this Owner's Report		
during the period	Q - 1-64	to	inations and	-74 d taken	corrective me	asures desc	, and state ribed in t	e that to the best of this Owner's Report in		
accordance with the				u taken	concente me	asares aese	mocu m	mis Owner's Report in		
	rrective measures c	lescribed in this Ov	vner's Repo	ort. Fui	thermore, nei	ther the Ins	pector no	oncerning the or his employer shall be d with this inspection.		
581		Commissions	NB	1733	94VI State, Province	149	6 2/	2		
Inspector's	Signature		National	Board,	State, Provinc	e, and End	orsement	S		
Date 6.	24	, 2005								

I.	I. Owners Alliant Energy (IES Utilities) Name			<del></del>	Date _	06	/23/05	·		
	P. O. Box	351, Cedar Rap			Sheet _	1	of _	2		
2.	Plant	Duane Arnold	Energy Center		Unit _	1				
	3277 DAE	C Road, Palo, L		····	Repair Or		O 1128062 O P. O. No., Jo	b No., etc.		
3. 4.	3277 DAE	Formed by Allian Name C Road, Palo, 1/ ion of System:			Type Code Symbol Stamp Authorization No. Expiration Date (Class 1)			None None		
5. 6.	(a) Applic (b) Applic	able Construction of		1E III I for Repairs o	19 68 r Replacements	Edition s 1992 <u>-A92</u>	W68 Adde	enda <u>N/A</u>	Code Case.	
C	Name of Name of Manufacturer omponent Manufacturer Serial No.		National Board No.		Other Identification  Work Order/SUS		Repaired, Replaced, or Replacement	ASME Code Stamped (YES or		
Main	Valve Body	Target Rock	S/N 201	N/A		4401	1976	Replacement	NO) Yes	
7.	Description	n of Work:	Main Valve Body Body was rotated			ocumented o	on NIS-2 (17-0	0-01). This Mai	n Valve	
8.	8. Tests Conducted: Hydrostatic				Pneumatic	1	Nominal Opera	iting Pressure	X	
		Other	Pressu	re 955	psi	Test Temp	514	۰F		

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. Remark	201 was repaire	dy S.N 141 was removed d and documented on N found acceptable.	d and <u>Main V</u> IS-2 (17- <u>00-0</u>	alye Body S.1 1). A V I-2 (	9 201 was P0 <u>3064)</u> w	installed, as compl	Prior to installation, S. Neted on the mechanical
		· · · · · · · · · · · · · · · · · · ·			<del>,</del>		
		CERTIFICATE O	F COMPLIA	NCE			
We certify that t	he statements made in	n the report are correct a	nd this	Replacemen	t		
		·		(repair or re		)	<del>*</del>
conforms to the	rules of the ASME C	ode, Section XI.					
Type Code Sym	bol Stamp	None					
Certificate of At	nthorization No.	None	Expir	ation Date		N/A	
Signed <u>Al</u>	Owner or Own	GI, Equipment Monit ner's Designee, Title	oring Date	Jane	ટર્		2005
		CERTIFICATE O	F INSERVIC	E INSPECT	ION		
						., .,	
the State or Prov		nmission issued by the I lowa		a of Boiler an mployed by			nspectors and
of	Hartford, C	onn.	have inspe	cted the comp	ponents de	scribed in	this Owner's Report
during the period	4.5-04	to	6-24-	05	<del></del>	_ , and sta	ate that to the best of a this Owner's Report in
		nas performed examinat he ASME Code, Section		i corrective in	ieasures de	escribed ii	n this Owner's Report in
	•						
By signing this c	ertificate neither the	Inspector nor his employ	er makes any	warranty, exp	pressed or	implied,	concerning the nor his employer shall be
		injury or property damag					
\Q.\	- ·	Commissions V	3 .222	3.4	1.20		-
Inspect	or's Signature	Commissions 7V	<u>フーロラン</u> ational Board	<i>1 AN ≠₁</i> , State, Provir	7996 ice, and E	14 ndorseme	nts
	>-34	, 2005					

1.	Owners	Alliant Energy Name	y (IES Utilities)		Date	06/2	23/05	<del></del>	······································
	P. O. Box	351, Cedar Rapi Addro			Sheet	1	of	2	<del> </del>
2.	Plant	Duane Arnold Name	Energy Center		Unit	1			·····
	3277 DAE	C Road, Palo, 1/ Addre		<del></del>	Repair O		1128069 P. O. No., Job	No., etc.	
<ol> <li>3.</li> <li>4.</li> </ol>	3277 DAE	ormed by <u>Allian</u> Name C Road, Palo, IA on of System:			Authoriz Expiratio		mp Non Non Non	e	
<ul><li>5.</li><li>6.</li></ul>	(a) Applicable Construction Code ASME III 19 68 Edition W68 Addenda N/A Code Case. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992-A92 Identification of Components Repaired or Replaced and Replacement Components								
Name of Name of Component (Hanger No.)		Manufacturer Serial No.	National Board No.		Other Identification  Work Order / SUS		Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
Main	Valve Body	Target Rock	S/N 218	N/A		V 4407	1974	Replacement	Yes
									<u> </u>
7.	Description	of Work:	Main Valve Body Body was rotated			documented or	า NIS-2 (15-97-	-12). This Mai	n Valve
8.	Tests Cond	lucted:	Hydrostatic		Pneumatic	N	ominal Operati	ng Pressure	X
		Other	Pressur	e 102	0 psi	Test Temp	240.6	o l:	
тои	E: Supplem	nental sheets in f	orm of lists, sketch	es, or drawing	gs may be use	d, provided (1)	) size is 81/2 in.	x 11 in., (2) in	formation

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.

201 was repaired and documented on NIS-2 (15-97-12). A VT-2 (105001) was completed on the mechanical connection and found acceptable.
Connection and found acceptable.
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 WiThow GL. Equipment Monitoring Date JUNE 24, 2005
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 lowa and employed by HSB CT.  of Hartford, Conn. have inspected the components described in this Owner's Report
during the period $11-6-04$ to $6-3405$ , 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  N3 D3791NE, 1946 EA  National Board, State, Province, and Endorsements
inspector's Signature invarious pound, State, Province, and Endorsements

1.	Owners	Alliant Energy Name	y (IES Utilities)		Date _	06/24/	05		
	P. O. Box	351, Cedar Rapi Addre		· · · · · · · · · · · · · · · · · · ·	Sheet _	1	of	2	··· .
2.	Plant	Duane Arnold Name			Unit _	1			
	3277 DAE	C Road, Palo, 1/		·	Repair Or	CWO A ganization to P.		No., etc.	<del></del>
<ul><li>3.</li><li>4.</li></ul>	3277 DAE	Name C Road, Palo, I/ on of System:	Residual He	at Removal (	Type Code Symbol Stamp Authorization No. Expiration Date  (Class 2)  None  None				
<ul><li>5.</li><li>6.</li></ul>	(b) Applic		on Code ANS Section XI Utilized onts Repaired or Rep			s 1992 <u>-A92</u>	/A Adden	da <u>N/A</u>	Code Case
C	Name of component langer No.)	Name of Manufacturer	Manufacturer Serial No.	National Board No.		entification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
	dual Heat oval Piping	Dubose National Energy	HT # 24353	N/A	12" HLE-014	downstream of 2007	2005	Replacement	No
7.	Description	of Work:	Replace 18" lengt N416-1.	h section of 1	2" diameter HI	LE-014 downstr	eam of MO2	007. Applied (	Code Case
8.	8. Tests Conducted: Hydros				Pneumatic	Non	ninal Operati	ng Pressure	X
NOT	EE- O las	Other		-	·	Test Temp	78	°F	
in ite		h 6 on this repor	orm of lists, sketch t is included on each						

9. Remarks:

A 18" long section of 12" diameter IILE-014 was replaced on CWO A71357 due to localized thinning from cavitation erosion. Hangar IILE-014-01H was removed and reinstalled due to interference. A VT-3 exam was successfully performed to document proper installation. The welds were radiographed and accepted after one repair. A baseline UT exam was successfully completed on EC05072. A VT-2 exam (P05049) was completed on the mechanical connection and found acceptable.

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	nacement)						
Type Code Symbol Stamp	None						
Certificate of Authorization No.	None		N/A				
Signed Of Description Owner or Own	GL Equipment Monitoring ner's Designee, Title	Date June	ZY, 2005				
	CERTIFICATE OF INSE	ERVICE INSPECTI	ON				
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 $(1-8.05)$ to $(6-34-05)$ , 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 13344~=, 1496 IA.  Inspector's Signature National Board, State, Province, and Endorsements							
Inspector's Signature	National	Board, State, Province	ce, and Endorsements				
Date 6.24	Date <u>6.24</u> , 2005						

ì.	Owners Alliant Energy (IES Utilities) Name			Date 7/21/2005				<u>_</u>			
	P. O. Box	351, Cedar Rapi Addr			Sheet _	1	of	2			
2.	Plant	Duane Arnold Name	Energy Center	<del></del>	Unit _	1		<u> </u>			
	3277	DAEC Road, Pa Addr			MWO 1132980  Repair Organization to P. O. No., Job No., etc.						
3. Work Performed by Alliant Energy (IES Utilities) Name 3277 DAEC Road, Palo, IA 52324			ities)  Atmosphere	Type Code Symbol Stamp Authorization No. Expiration Date  None							
4. 5.		ion of System: able Construction		1 B31.7	19 69	Edition	71 Adder	nda N/A	Code Case.		
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992-A92  6. Identification of Components Repaired or Replaced and Replacement Components  ASME											
C	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Iden	tification	Year Built	Repaired, Replaced, or Replacement	Code Stamped (YES or NO)		
	Sypass piping ILE-23	Bechtel	N/A	N/A	Removed and Bypass piping		Unkown	Repaired	No		
	Sypass piping ILE-23	Ladish	Ht# YG2K	N/A	2" tee installed rerout		1973	Replaced	No		
	-23-SS-47	Bergen Power	251 HSSA/3K	N/A	Piston Rod		1992	Replacement	No		
	-23-SS-47	Bergen Power	DA-064	N/A	Snub		Unknown	Replacement	No		
	-23-SS-47	Bergen Power	2510	N/A	End Cap A		2005	Replacement	No		
	Bypass piping ILE-23	ALRO Steel	Ht# D22186	N/A	U-Bolt from	rod stock	1999	Replacement	No		
2:" E	Sypass piping LE-23	Dubose NES	Ht# 2Z151	N/A	Nuts for attac	hing U bolt	2003	Replacement	No		
7. Description of Work:  Removed part of 2" bypass, and modified supports on Drywell purge piping to allow thermal growth of the containment.						mal growth					
8. Tests Conducted: Hydrostatic				Pneumatic	X 1	Nominal Operat	ing Pressure				
		Other	Pressu	re <u>68</u>	. <u>5</u> 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:

This work order reconfigured the bypass line around the Drywell purge line including a support change, and changed a support on the Drywell purge line. The current support design did not account for containment thermal growth. The bypass line run was cut out and welded, with one elbow added. Surface exams were successfully performed on the welds. A support on the 2" bypass line was modified, a new u-bolt was installed that allowed for thermal movement. The new welds and fitting were pneumatically pressure tested successfully (P05053) A snubber (previously installed under PWO1131078) was installed on the Drywell purge line. Successful VT-3 was performed (P05052) after the new supports were installed.

CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.	Repair/Replacement (repair or replacement)					
Type Code Symbol Stamp None						
Certificate of Authorization No. None Exp	ration Date N/A					
Signed Research Supervisor, Materials/Inspection Date Lucy 21, 2005 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 insp	ected the components described in this Owner's Report					
during the period 4-1/-05 to 7-22-5, 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.						
SBL Commissions NB 12	379ANT, 1496 TA					
Inspector's Signature National Boar	d, State, Province, and Endorsements					
Date						

1.	Owners	Owners Alliant Energy (IES Utilities) Name		Date		7/2	5/2005				
	P. O. Box	351, Cedar Rapio Addre	ds, IA 52406	<del>, ,</del>	Shee	· _	1	o	of	2	
2.	Plant	Duane Arnold Name			Unit		1			<u></u>	
	3277 DAEC Road, Palo, IA 52324 Address				MWO 1133017 Repair Organization to P. O. No., Job No., etc.						
3. 4.	Name 3277 DAEC Road, Palo, IA 52324				Auth	Type Code Symbol Stamp Authorization No. Expiration Date  None None					
5. (a) Applicable Construction Code ANSI B31.7 (b) Applicable Edition of Section XI Utilized for Repairs					19 or Replace	69 ments	Edition 1992 <u>-A92</u>	N/A	Addenda	N/A	Code Case.
6.	Identificat	ion of Componer	nts Repaired or Re	placed and Re	placement	Comp	onents				
Name of Name of Component Manufacturer			Manufacturer Serial No.	National Board No.	Other Identification		Year Built		Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)	
HL	E-035	Bechtel	N/A	N/A		outside enetrati	: X-24B on	Unki	nown	Repaired	No
7.	Description	n of Work:	Removed Hanger	HLE-35-SR-	79 from li	ne HL	E-035 to al	low for o	drywell th	ermal growth	J
8.	Tests Cond	ducted:	Hydrostatic		Pneumati	c	1	Nominal	Operating	g Pressure	
		Other	Pressu	reN/A	4	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:	This work order removed hanger HLE-35-SR-79 from the HLE 35 line near penetration X-24B. The hanger was
		removed to allow thermal growth of the drywell per ECP1715.

CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this	Repair					
conforms to the rules of the ASME Code, Section XI.	(repair or replacement)					
Type Code Symbol Stamp None						
Certificate of Authorization No. None Ex	piration Date N/A					
Signed Tuelle Supervisor, Materials/Inspection Date July 25 2005  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						
	d employed by HSB CT					
	spected the components described in this Owner's Report					
during the period $\frac{4-19.05}{}$ to $\frac{7.55-05}{}$ , 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

Date 7-35 ,2005

N3 13399AN T, 1496 FA
National Board, State, Province, and Endorsements

THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

A. 1.50

April 21, 2003 through May 3, 2005

Part H, page 1 of 1

Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406

Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative Humbolt, IA.

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

3) Plant Unit: #1

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: 614 MWE

#### ABSTRACT OF CONDITIONS NOTED AND CORRECTIVE 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 April 21, 2003 through May 3, 2005.

#### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

April 21, 2003 through May 3, 2005

Part I, page 1 of 41

Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351

Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative Humbolt, IA.

Cedar Rapids, IA. 52406

Plant: Duane Amold Energy Center, Palo, IA. 52324

3) Plant Unit: #1

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

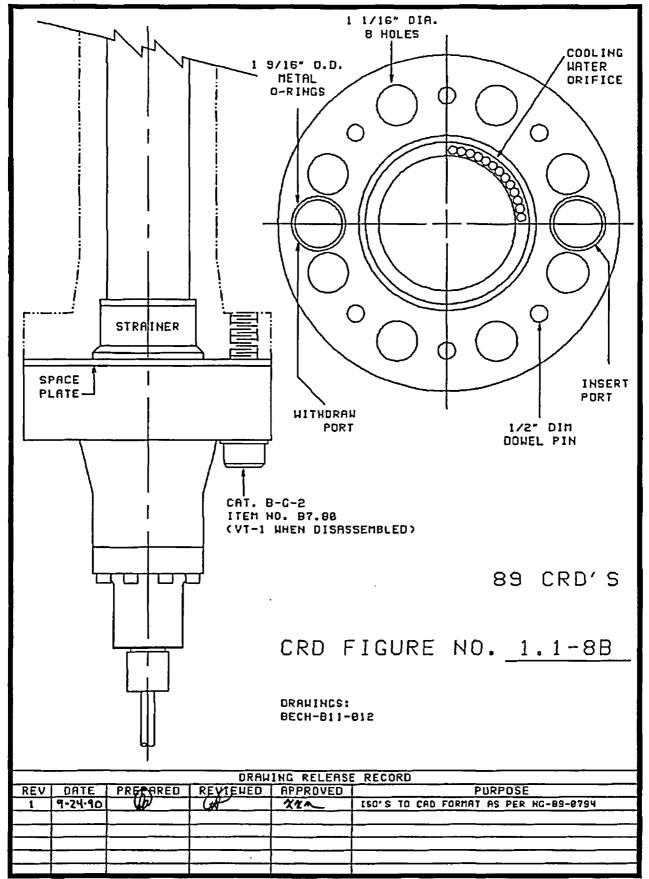
5) Commercial Service Date: 02/01/75

National Board Number of Unit: N/A

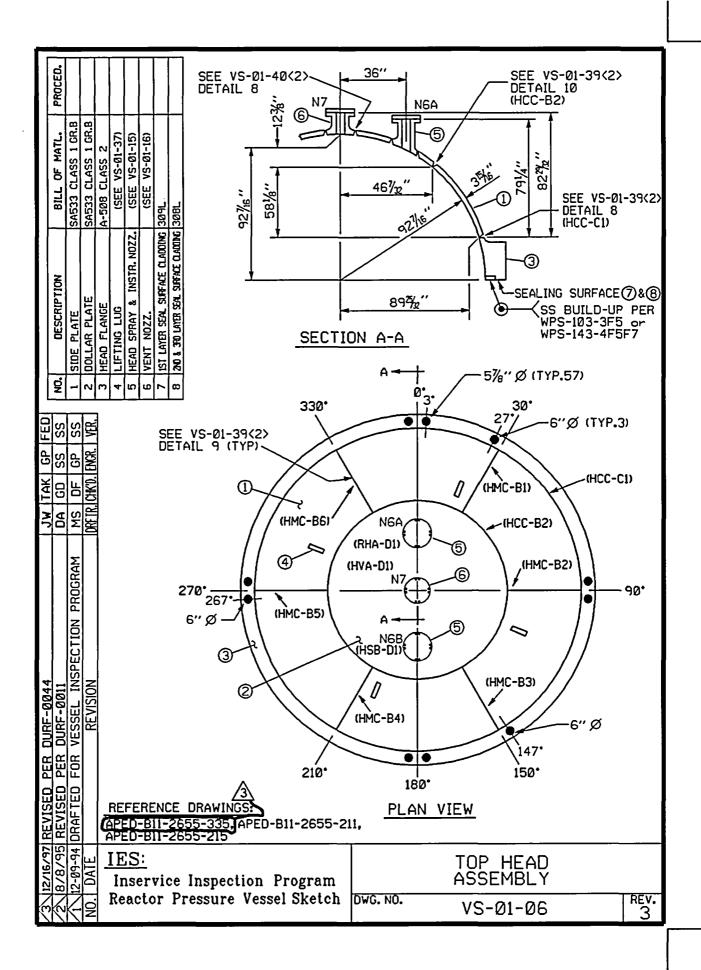
Gross Generating Capacity: 614 MWE

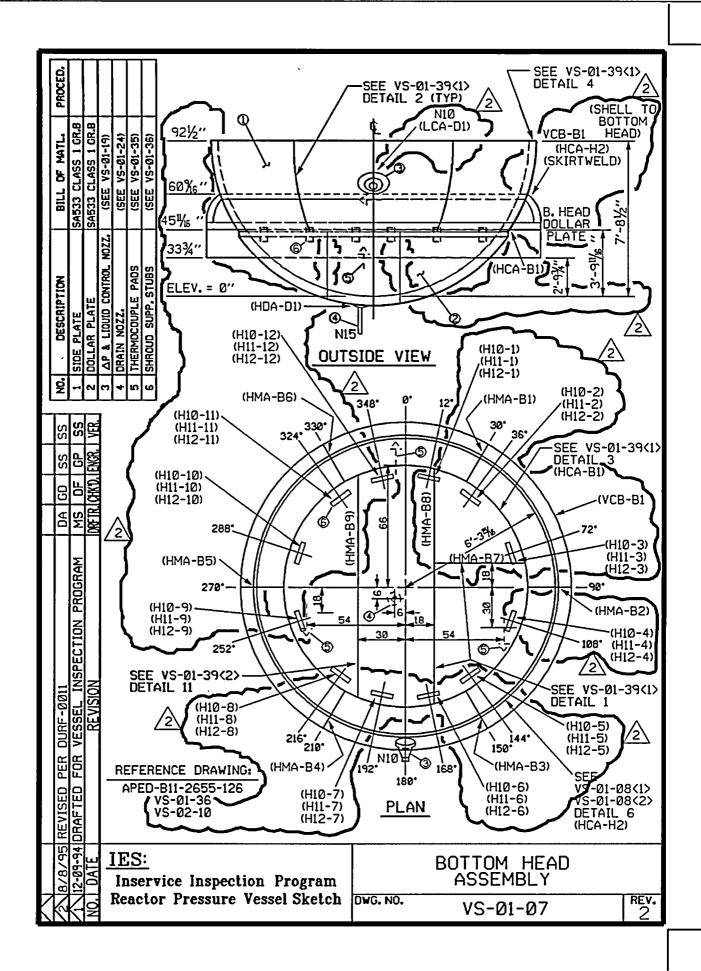
#### ISI FIGURES AND ISOMETRICS

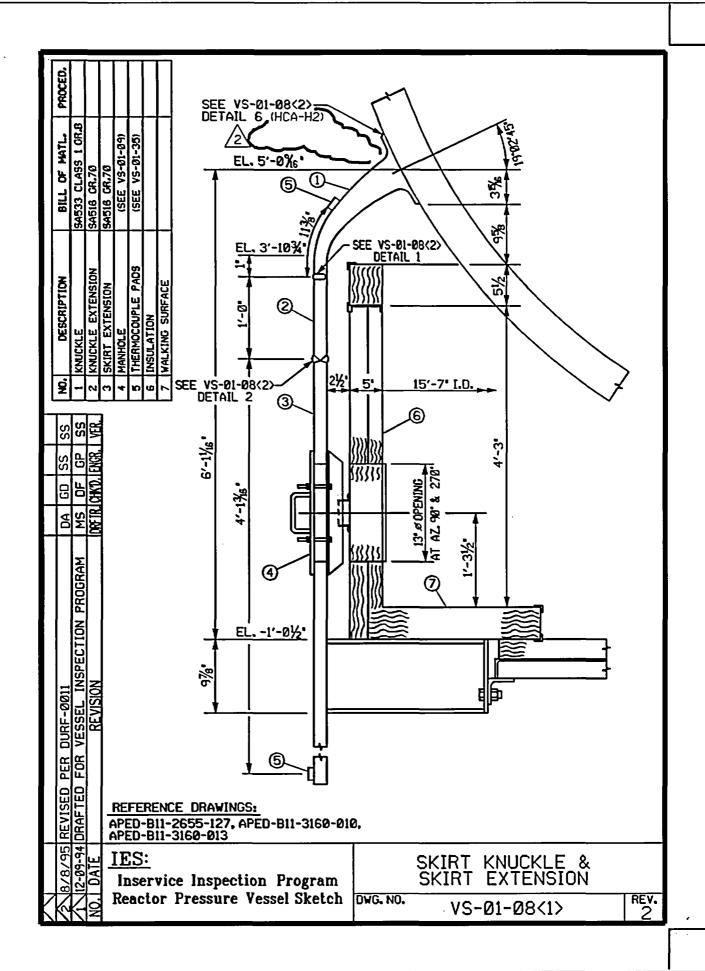
PLEASE NOTE: ISI Figures and Isometrics are listed in Part B and Part D of this report

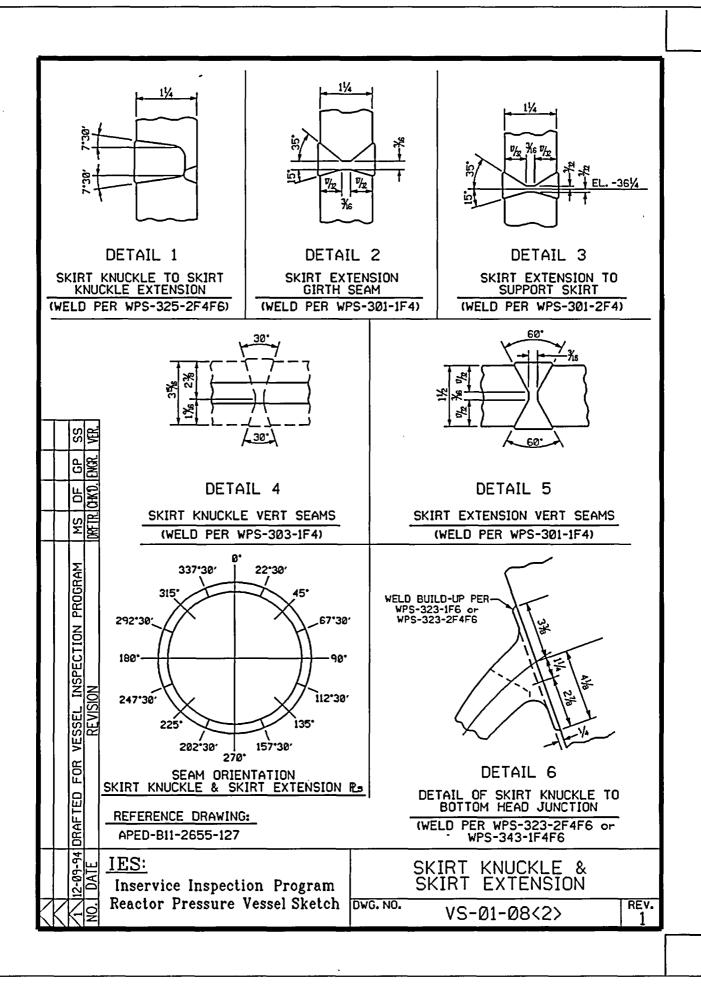


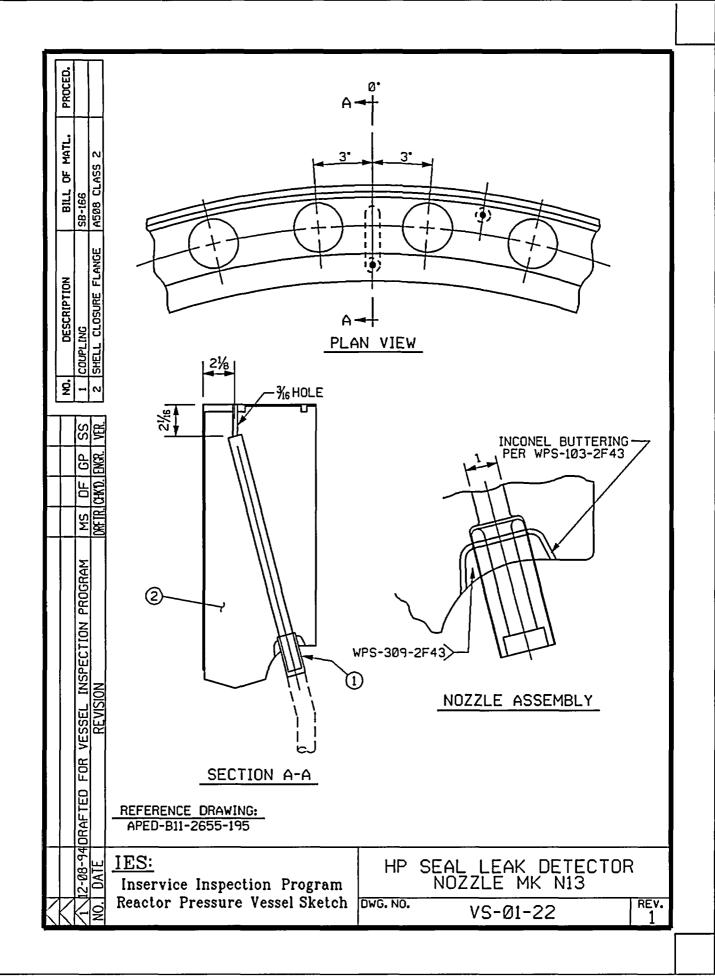
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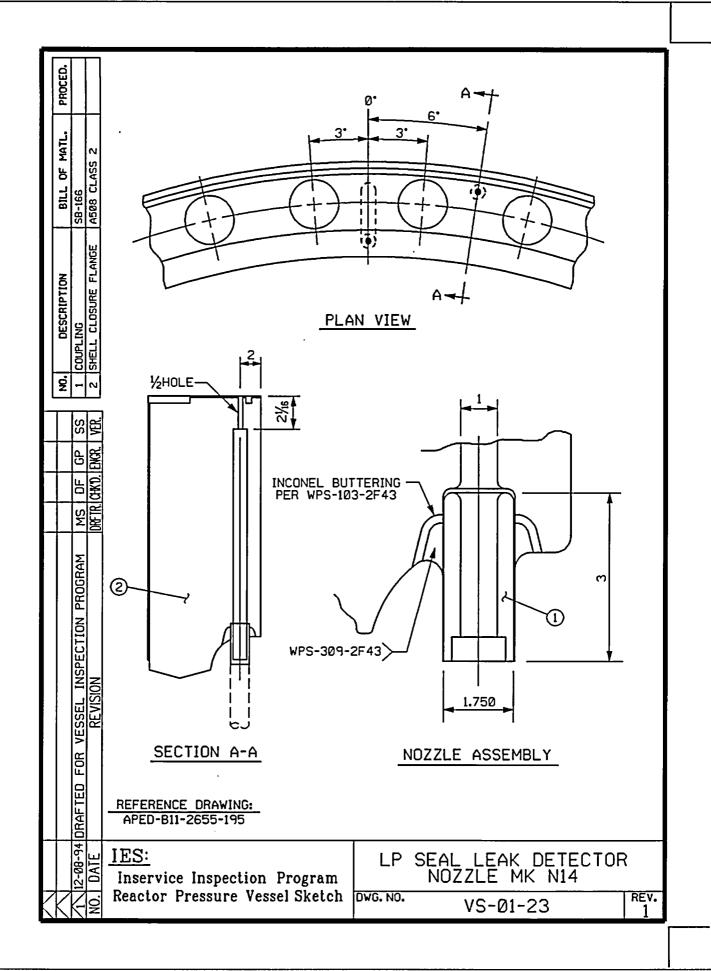






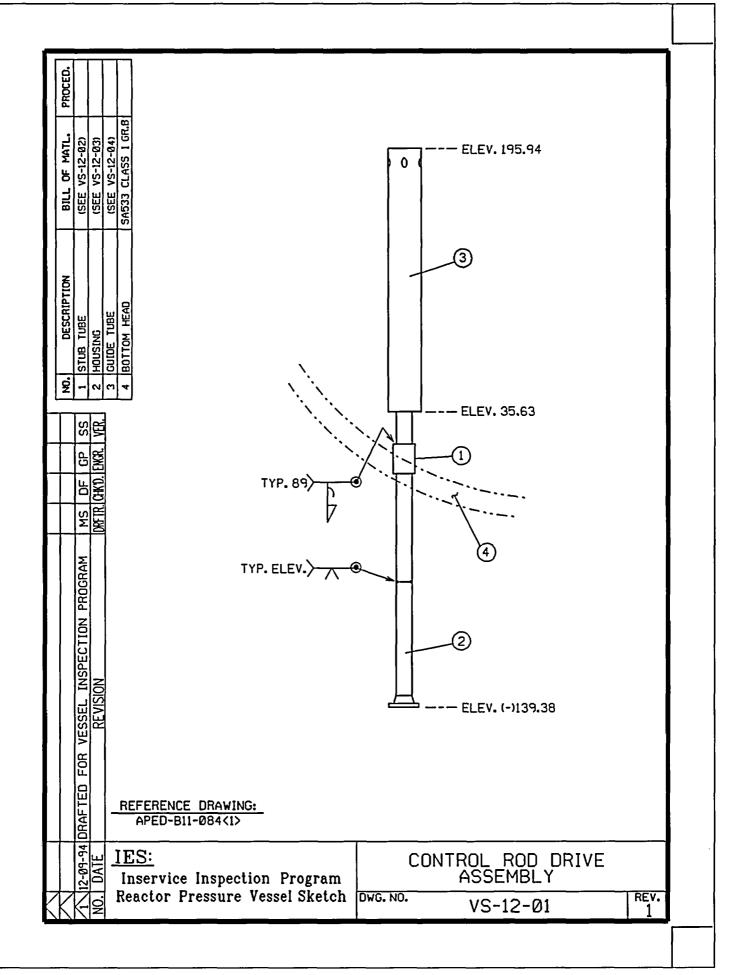


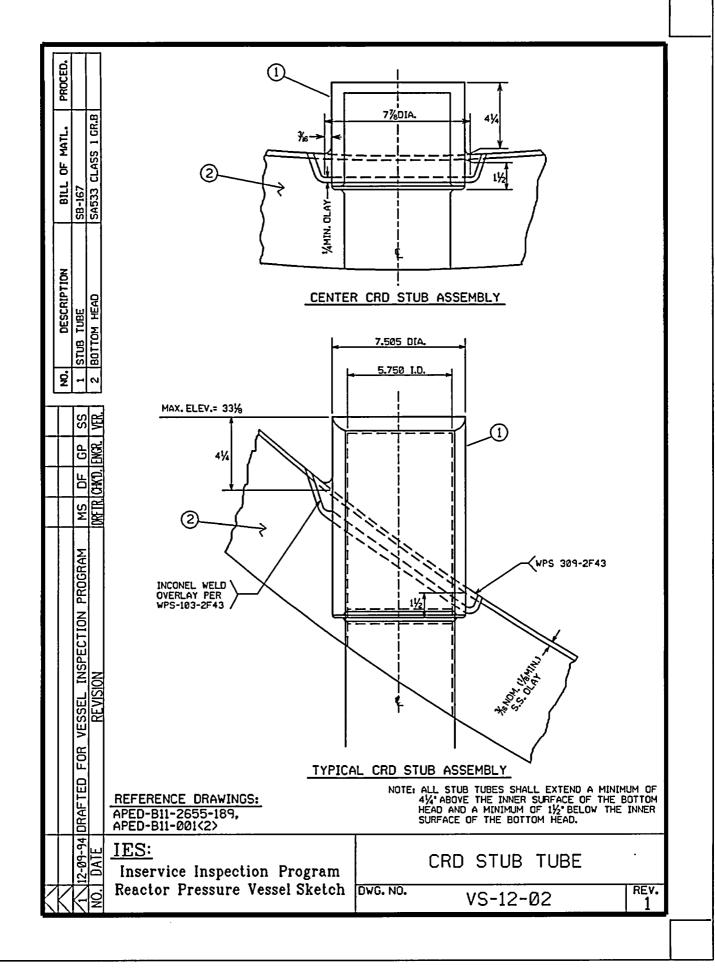


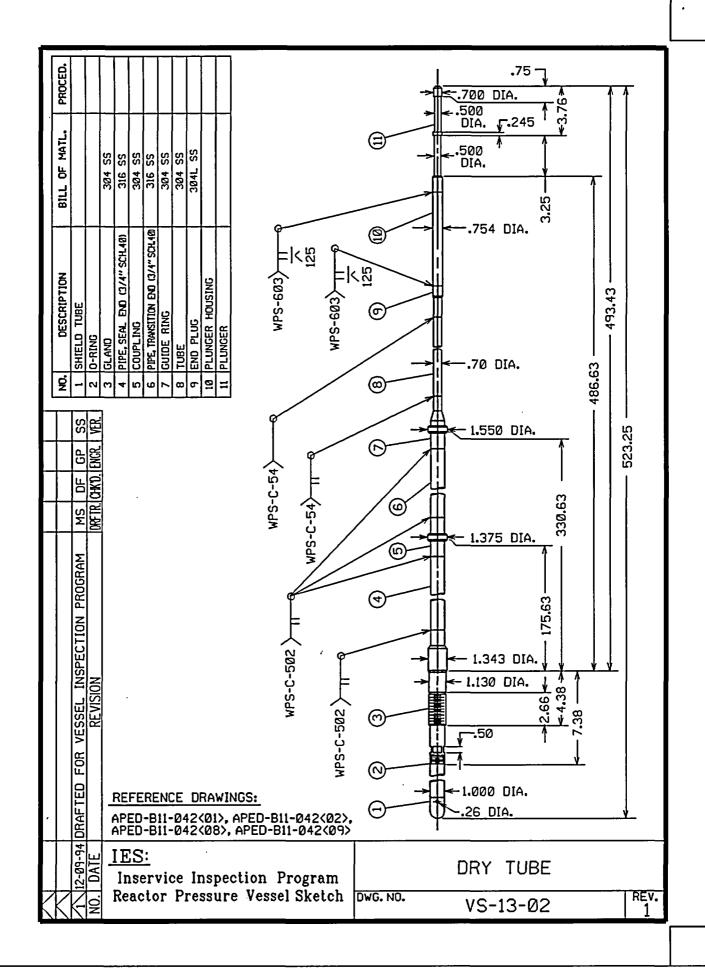


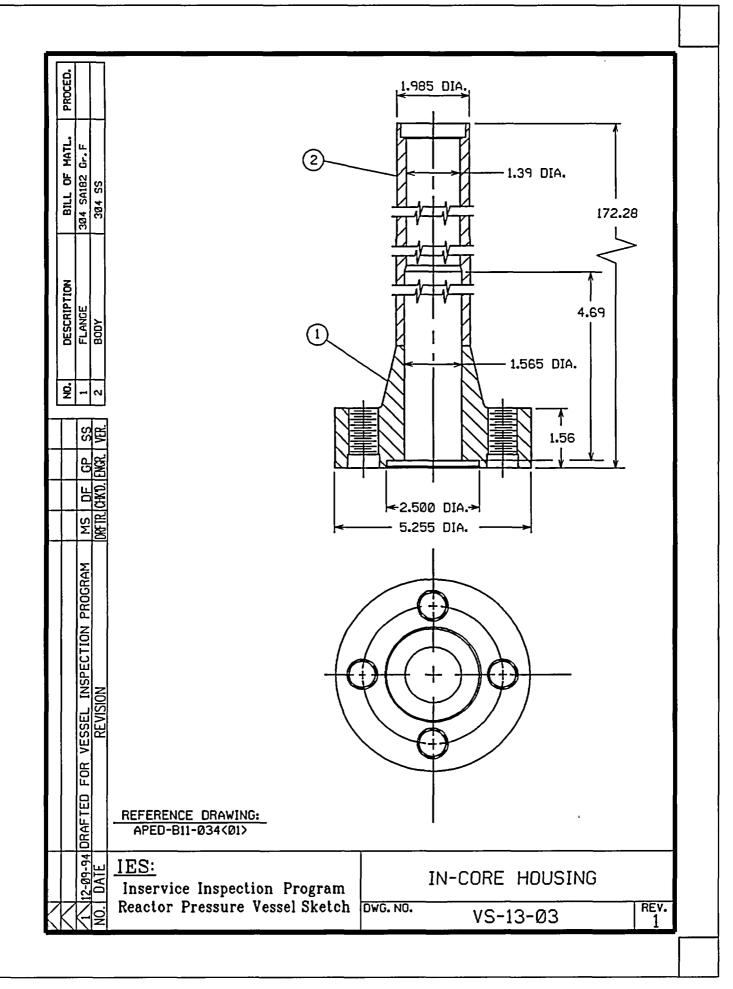
					i
1	180 160 140 12 170 150 130	20 100 80 60 40 2 110 90 70 50 30	<u>0 0 340 320</u> 10 350 330 3	<u>300 280 260 2</u> 310 290 270 250	240 220 200 180 0 230 210 190
	676 <b>¾</b> 2	(V	GH CB-C5)		
	G2 (VLD-B1)	N3B N3A MSB-DI) (MSA-DI) N12A (VIC-DI)	61 (VLD-82)	N3D N3C (MSD-DI) (MSC-C	NI 2B (VID-DI)
	530%	©	FG (VCB-B4)		SHELL NO. 4
	N4B (FWB-DL) N9 (CRA-DL)			N5B (CSB-D1)	(VIB-DI)  N4C  IFWC-DI)
ENGR. VER.	384¾	(NLC-B1)	EF (VCB-B3)	F2 (WLC-82)	SHELL NO.3
居 S S S		(VIE-DI)			NIGB (VIF-DI)
A MS DRFIR	C E2 (VLB-A1)	٥			CLADDING PATCHES EXAMINED
PROGRAM	238%	"·"	DE CB-A2)		SHELL NO.2
SPECTION P	(RRD-DI) (I	N2C N2B RRC-DI) (RRB-DI) (RRA-DI)	NIA (RCA-DI)		NZE (RRE-DI)
VESSEL INS	NIB (RCB-DI)	N8A G G S	BD (VCB-	N8B (JPB-DI)	SHELL NO. 1
FOR		<u>0</u> 1	JTSIDE VIEW		
DRAFTED					
12-08-94 DATE		spection Program	VESS	SEL SHELL LAYOUT	RING
	Reactor Pres	sure Vessel Sketch	DWG. NO.	VS-Ø1-41	REV.

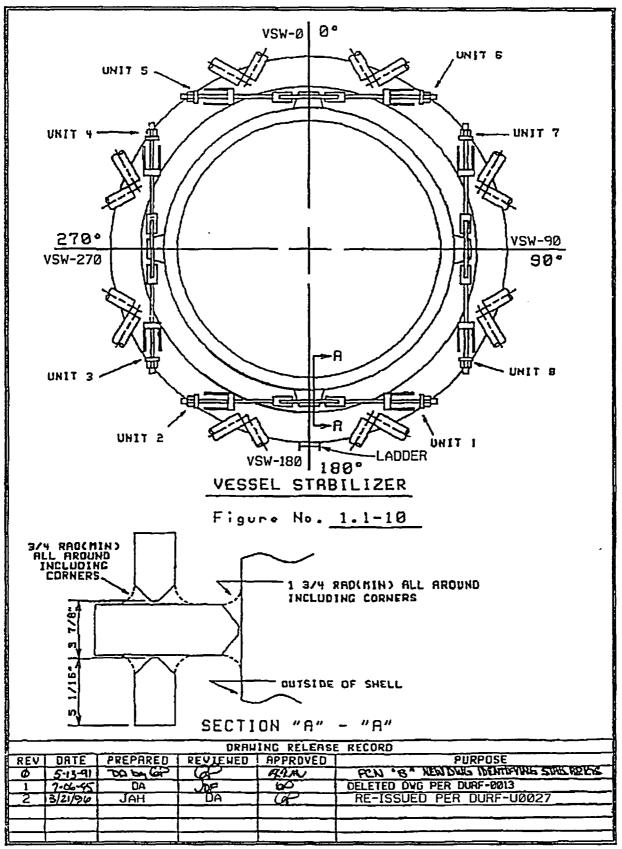
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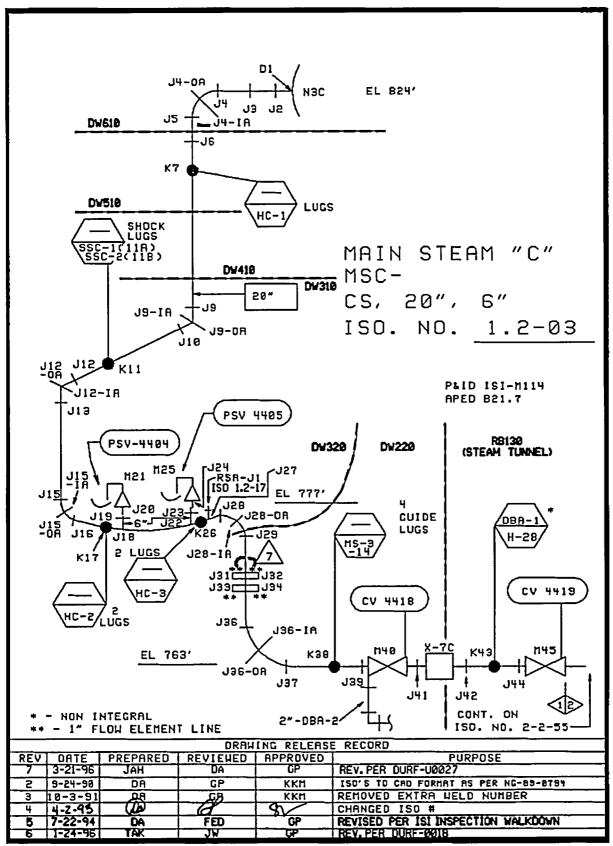


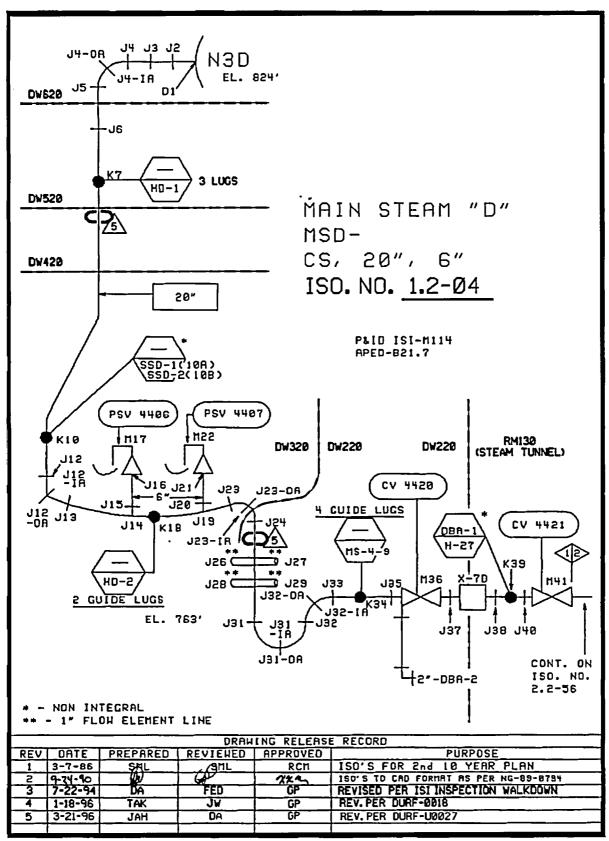






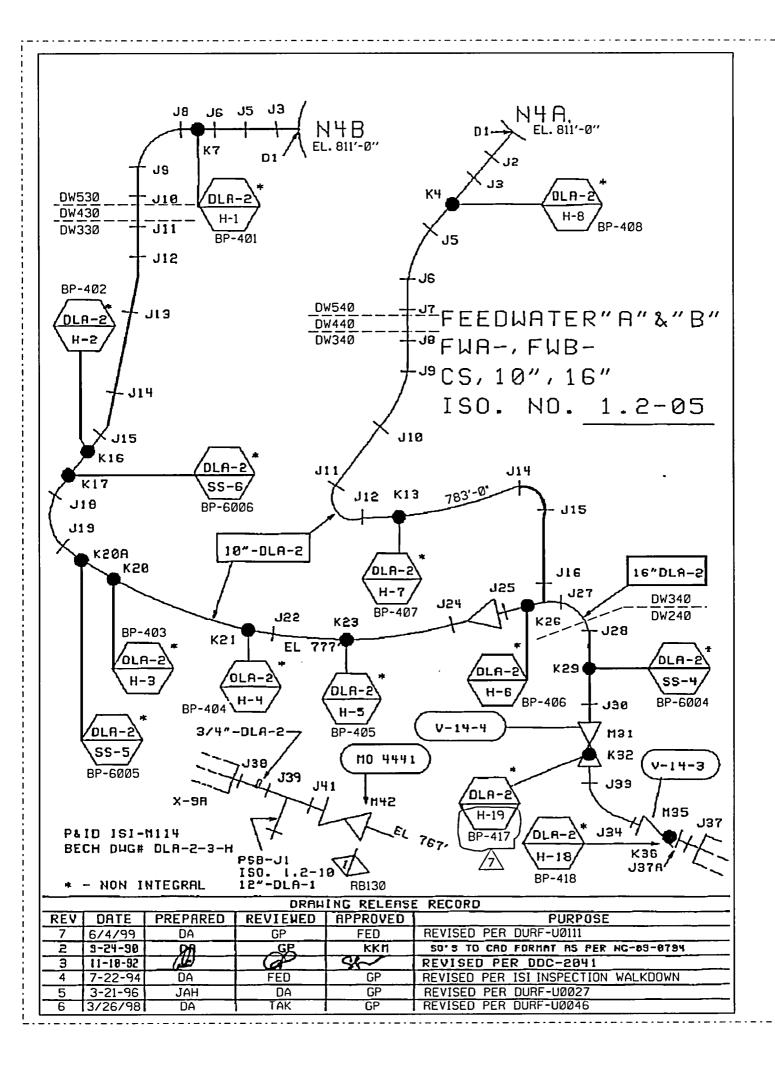


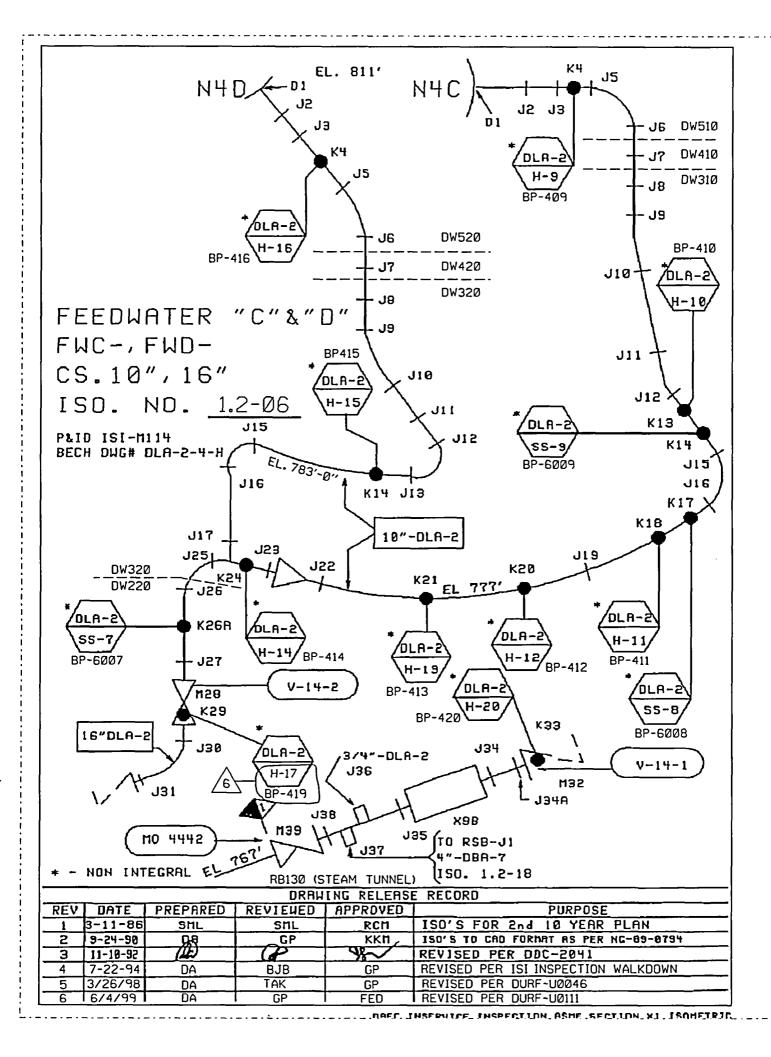


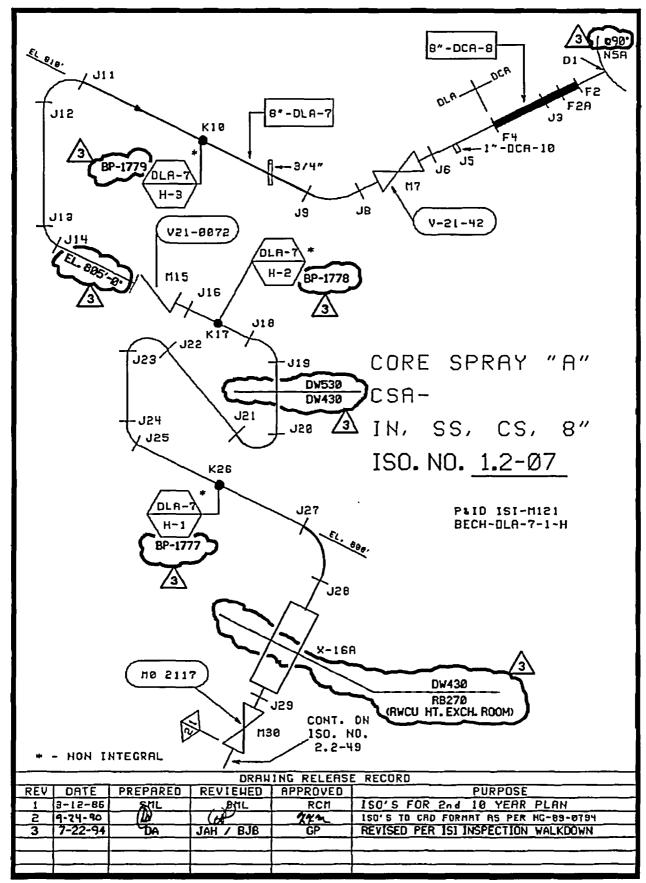


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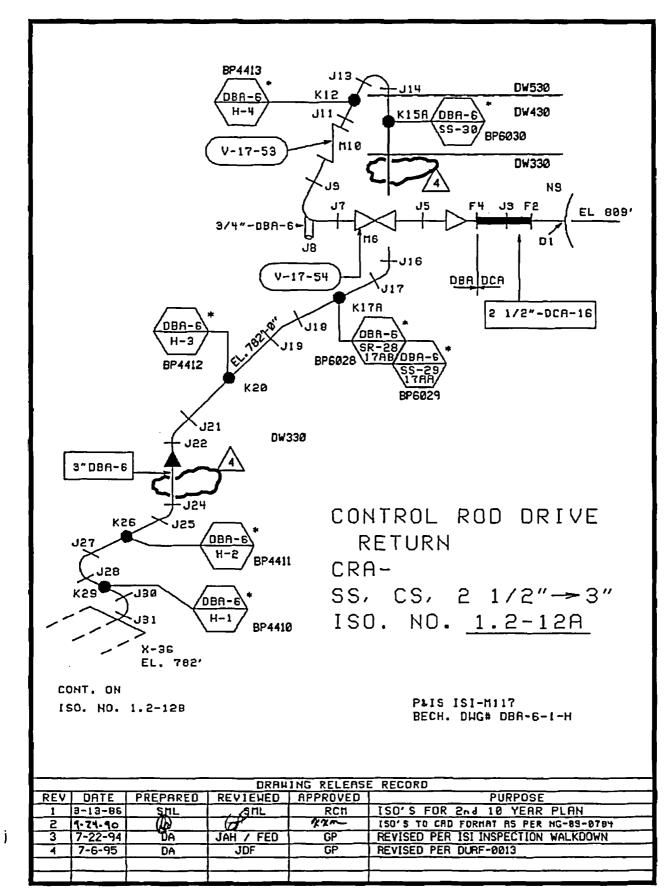
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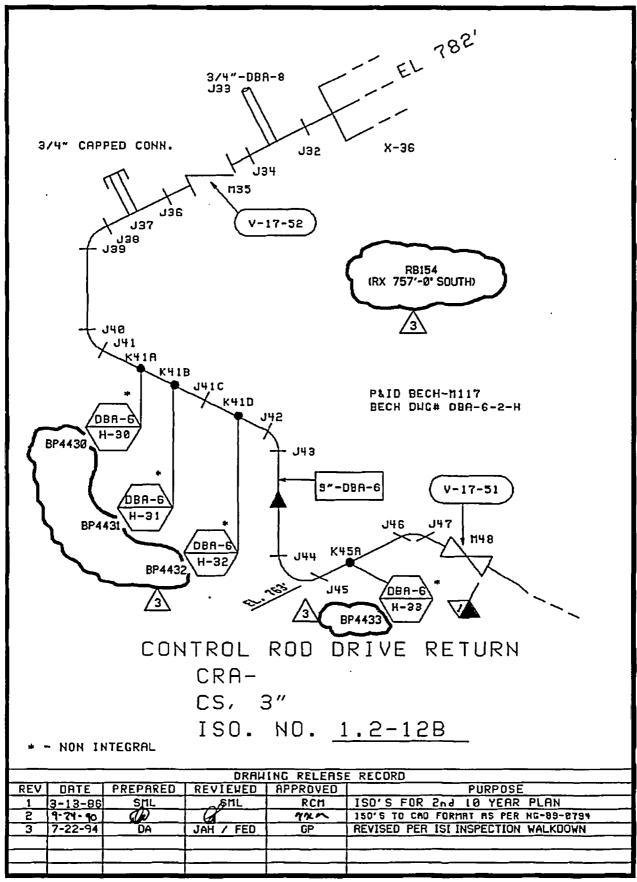


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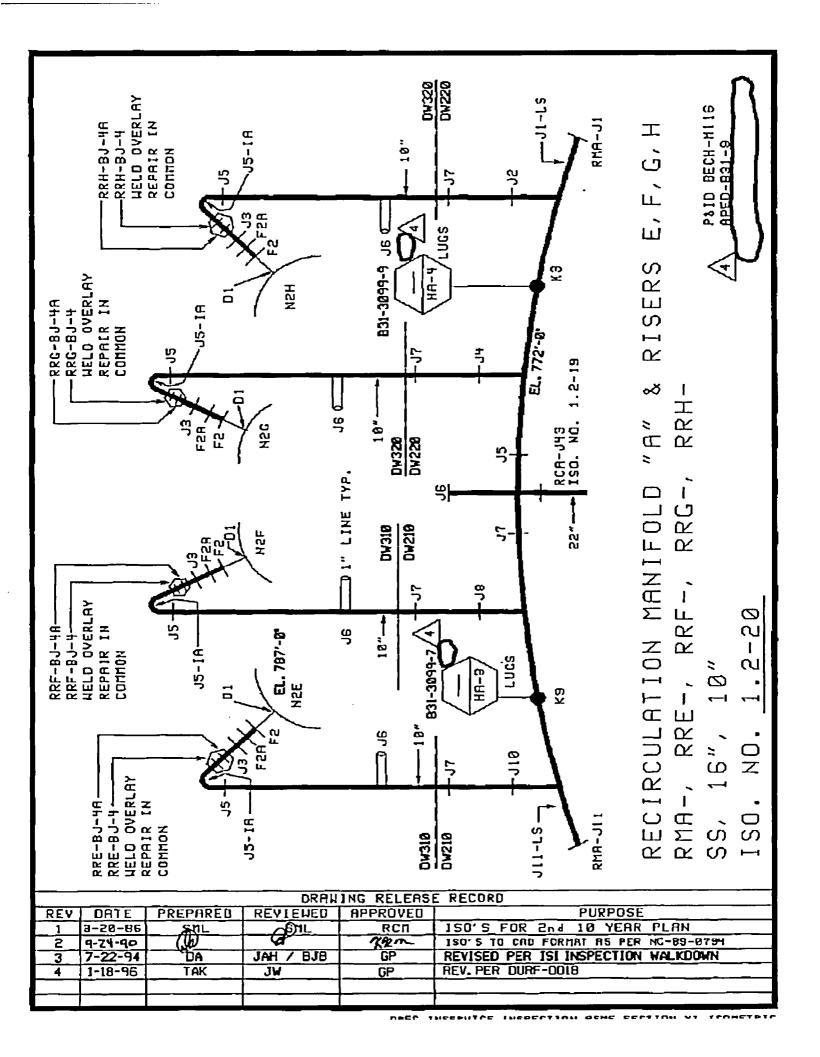
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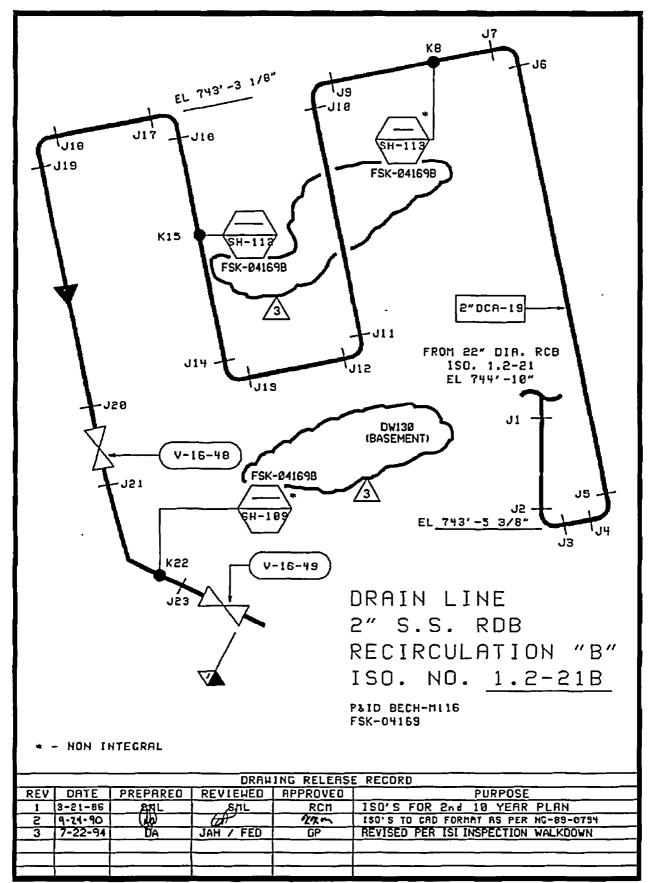
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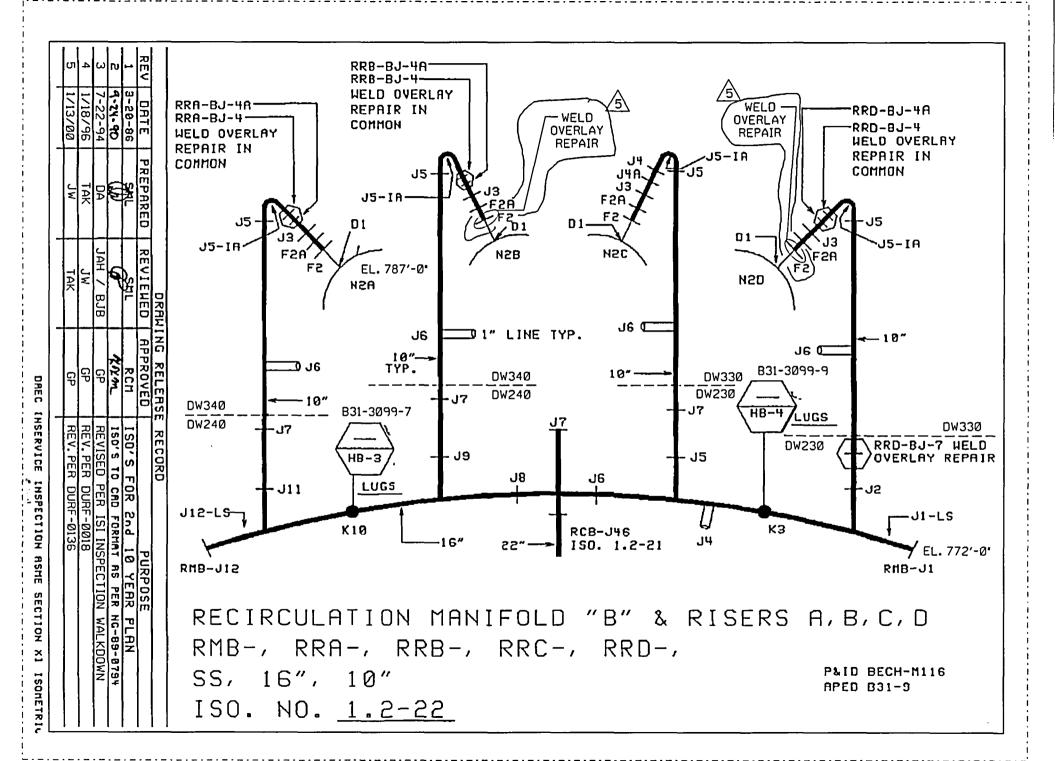
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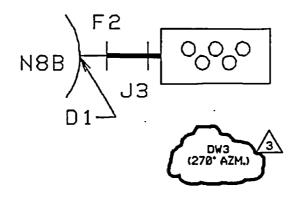
INCRECTION **ASHE** 





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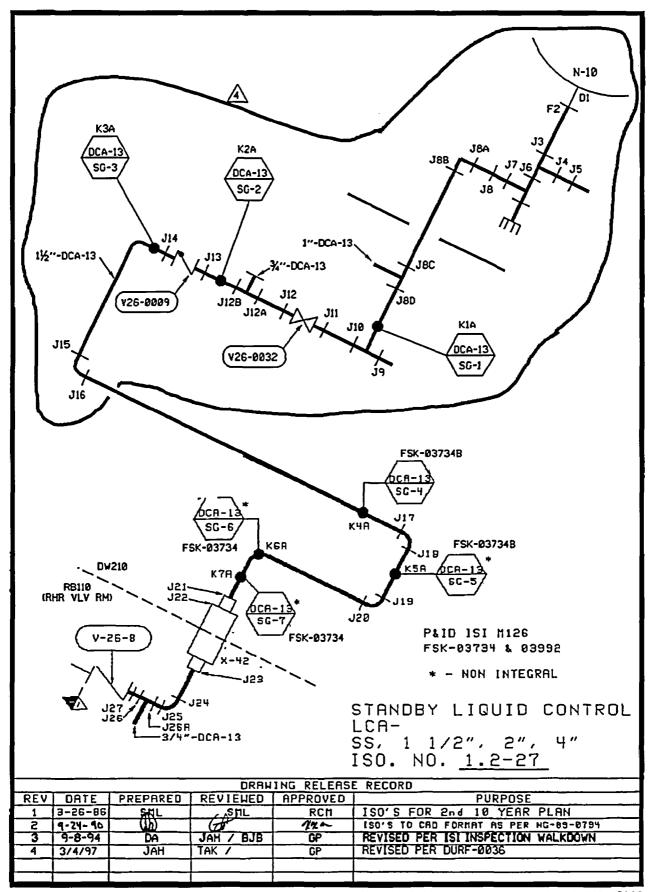


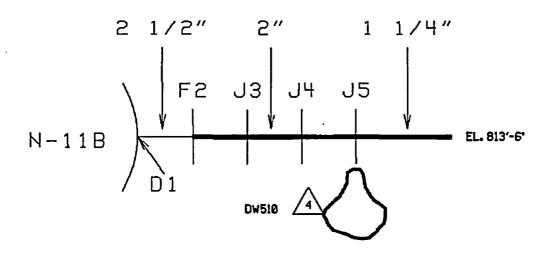
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JPBSS, 4"
ISO. NO. 1.2-26

P&1D BECH-M115 RPED-B11-2655-105-4

	DRAWING RELEASE RECORD							
REV	DATE	PREPARED	REVIEWED	APPROVED	PURPOSE			
1_1_	3-56-86	<b>₽</b> ₩.	SHL	RCH	ISO'S FOR 2nd 10 YEAR PLAN			
2	9-24-90	(10)	GI	224	(SO'S TO CAD FORMAT AS PER NC-89-0794			
3	7-22-94	DA	JAH / FED	GP	REVISED PER ISI INSPECTION WALKDOWN			



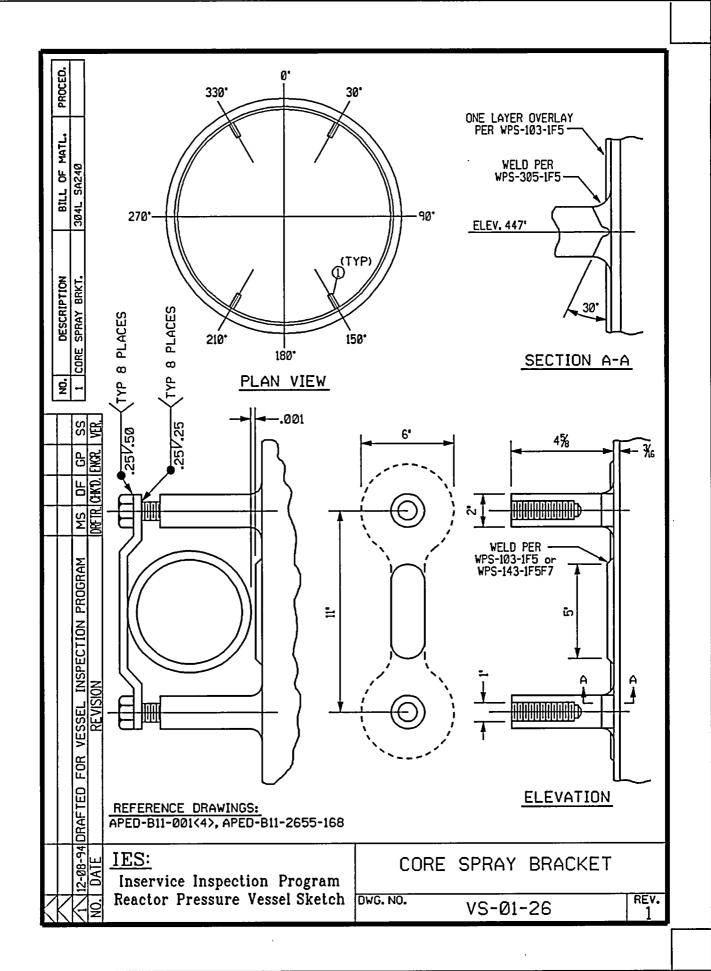


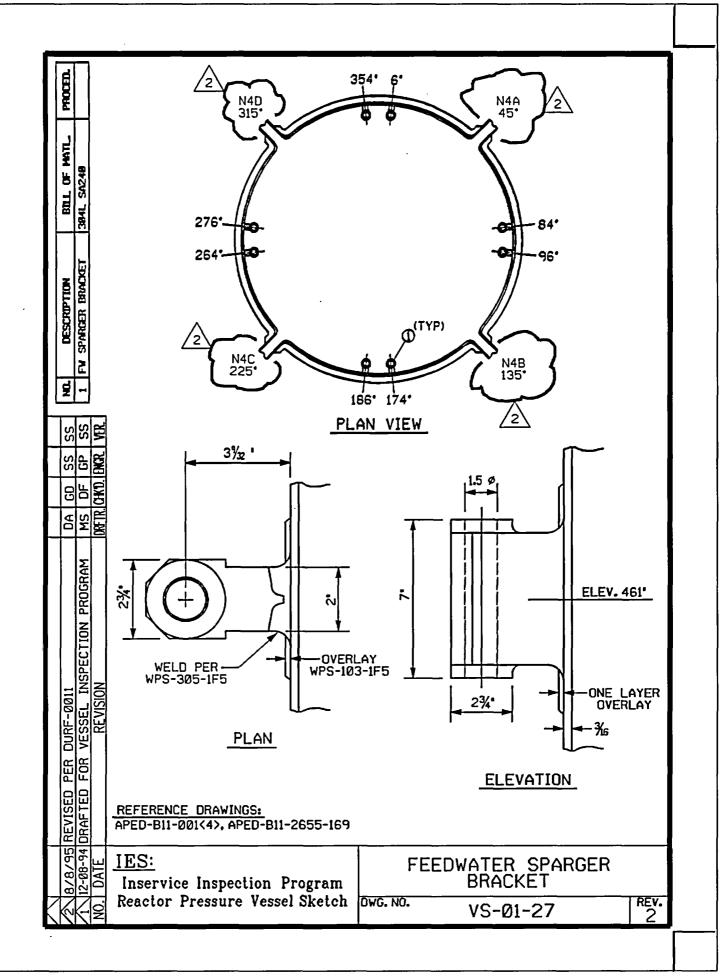
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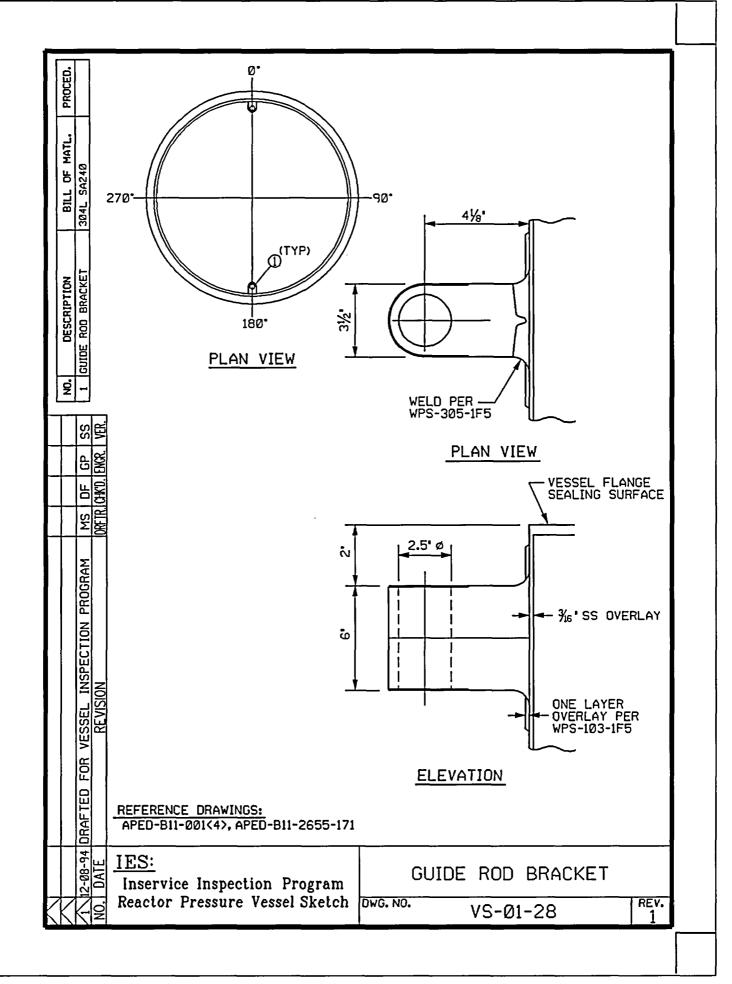
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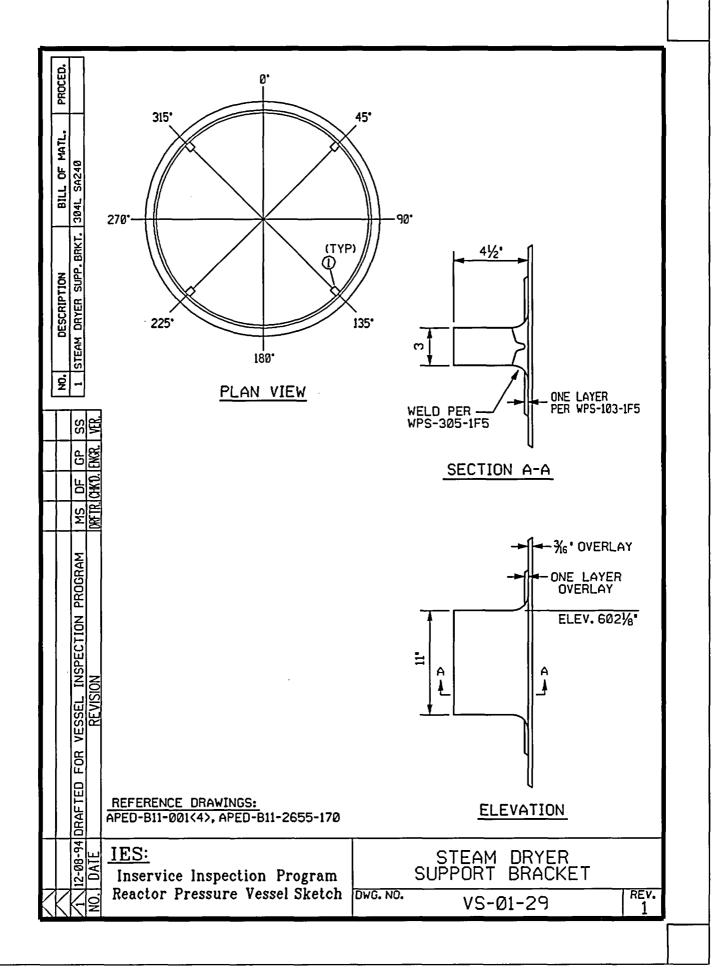
	DRAWING RELEASE RECORD								
REV	DATE	PREPARED	REVIEHED	APPROVED	PURPOSE				
1	3-27-86	SAL	/ \SML	RCH	ISO'S FOR 2nd 10 YEAR PLAN				
5	4-24-90	(16)	(ZD)	1/2 m	ISD'S TO CAD FORMAT AS PER NG-89-0794				
3	7-22-94	DA	JAH / FED	GP	REVISED PER ISI INSPECTION WALKDOWN				
4	1/18/96	TAK	JW	GP	REV. PER DURF-0018				

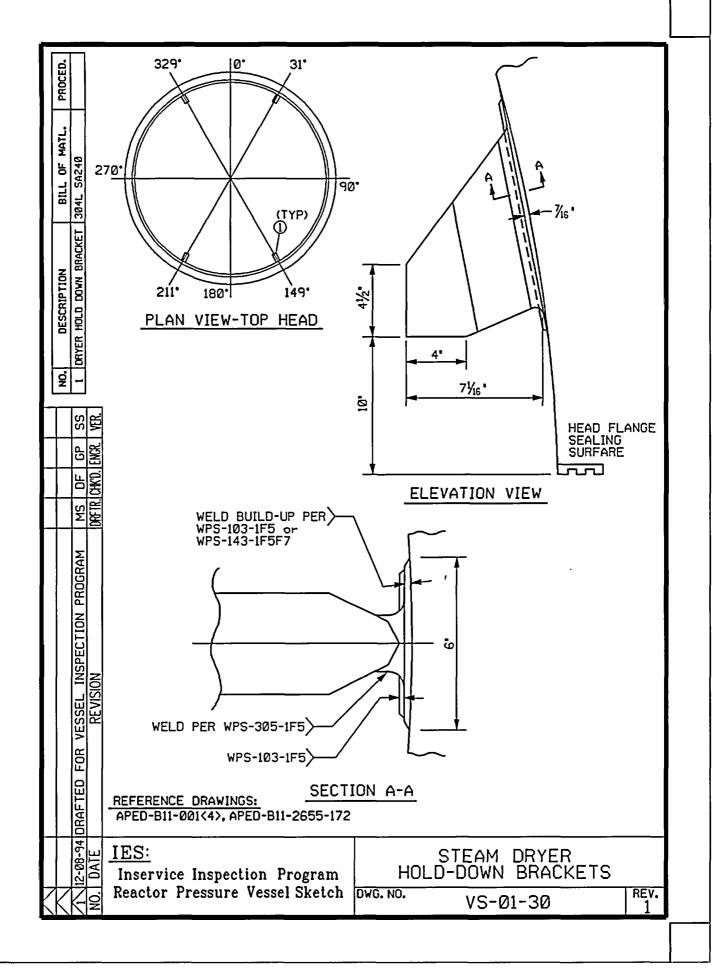
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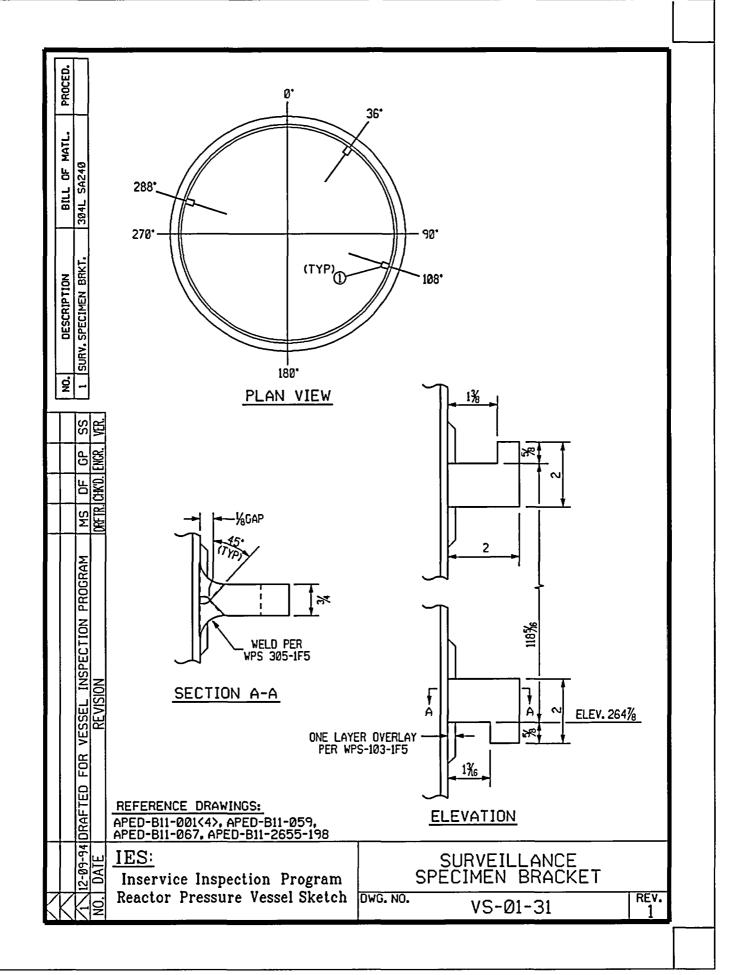


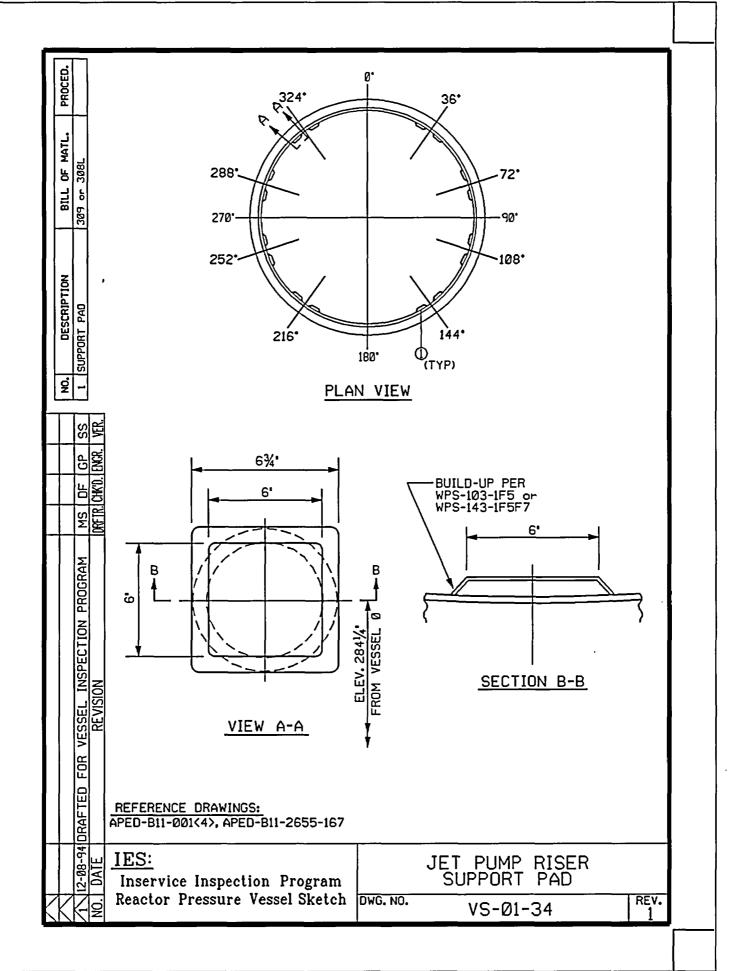


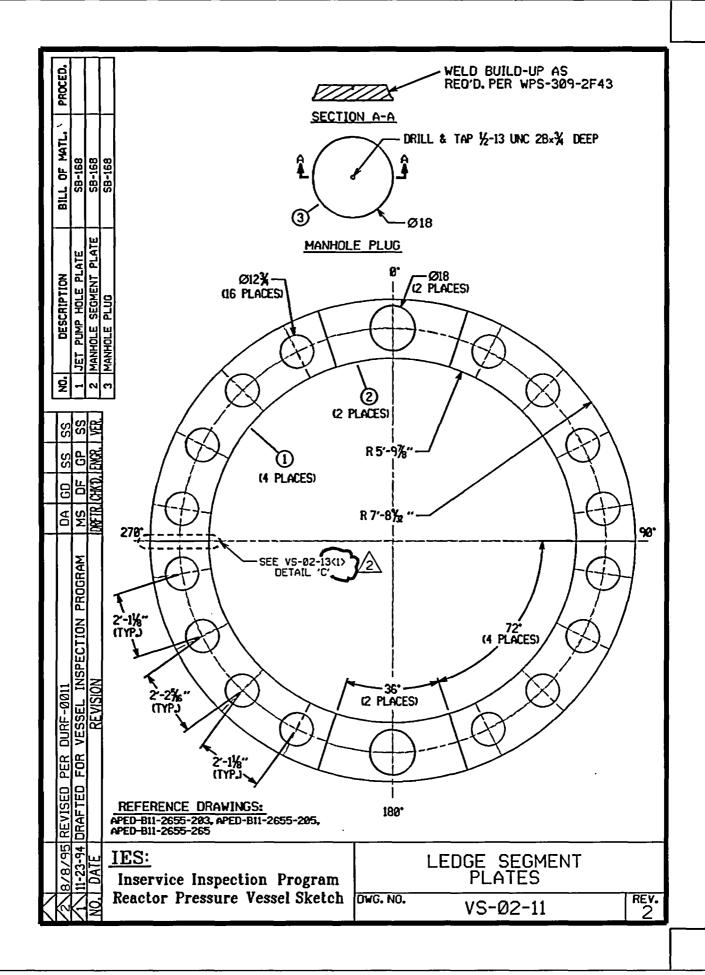


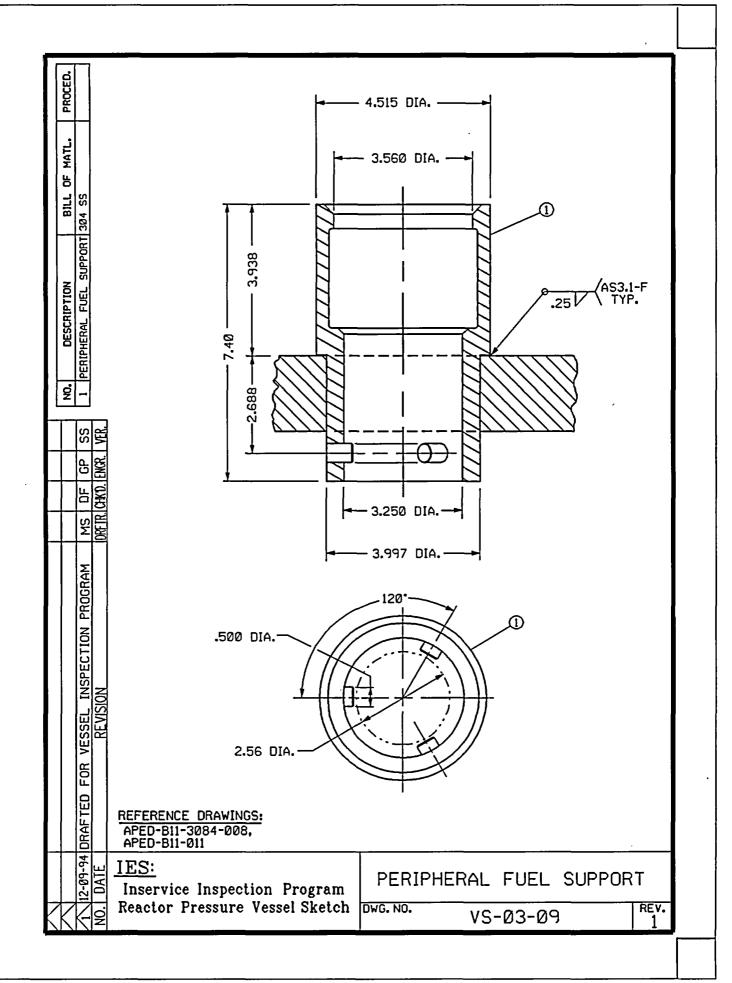


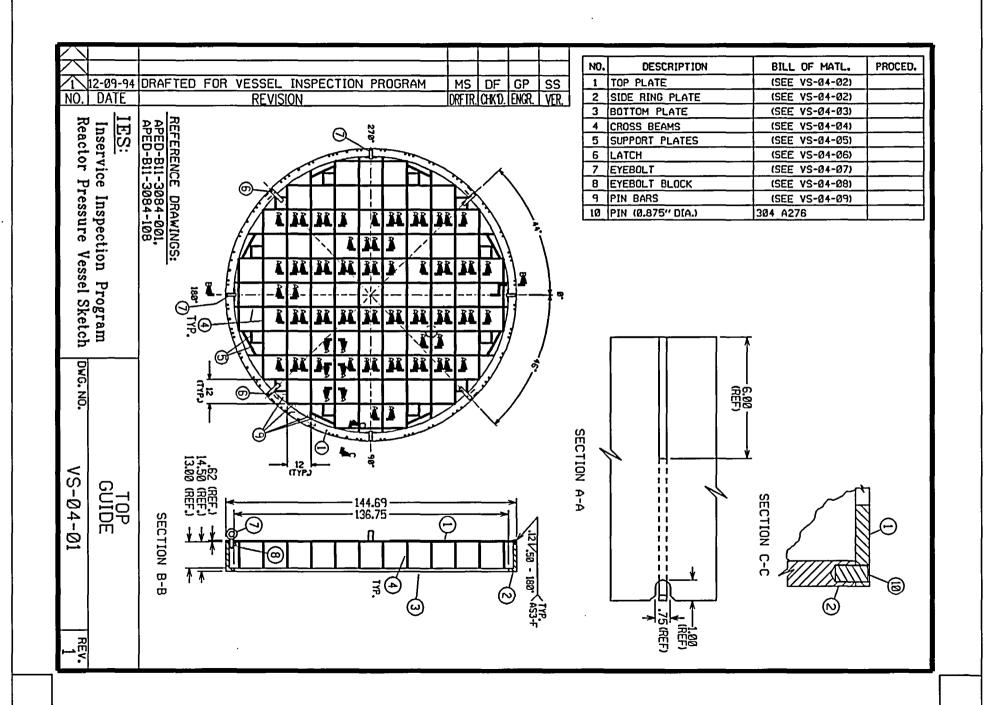


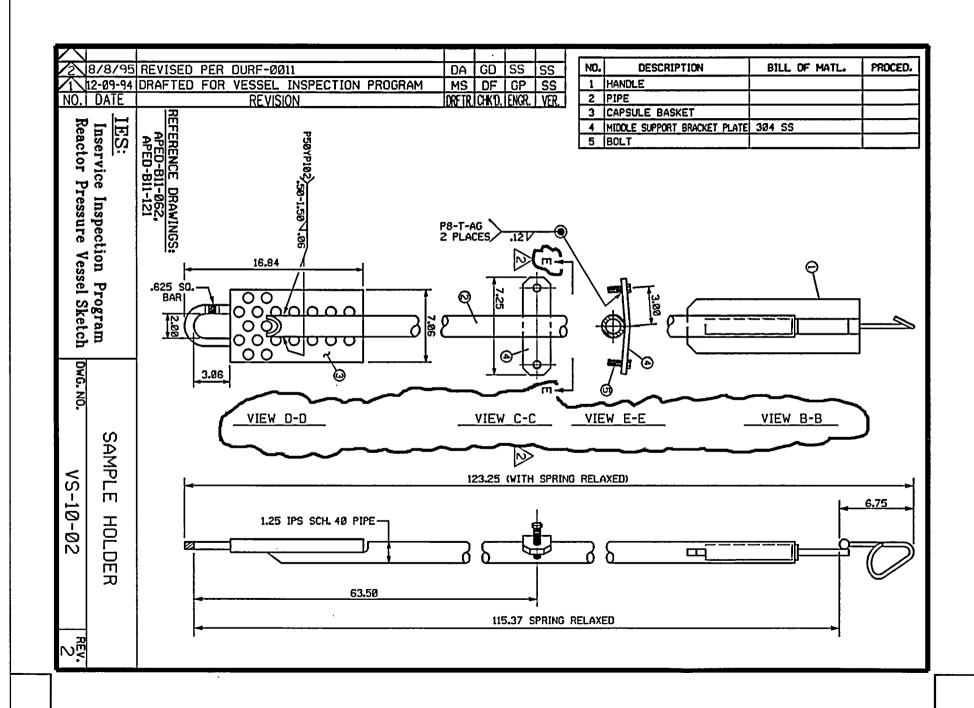












# THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

April 21, 2003 through May 3, 2005

Part J, page 1 of 5

 Owners: Interstate Power and Light Company, an Alliant Company Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

P.O. Box 351 Cedar Rapids, IA. 52406

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

2)

Gross Generating Capacity: 614 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	REMARKS	
B1.11	4	0%	0%	0%	See Note 12	
B1.12	8	0%	0%	75%	See Note 13	
B1.21	2	25%	50%	100%		
B1.22	15	0%	0%	100%		
B1.30	1	50%	50%	100%	See Note 7	
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	<b>5</b> 6	29%	64%	100%		
B6.30	4	100%	100%	100%		
B6.40	60	33%	67%	100%		
B6.50	60	33%	67%	100%		
B6.180	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	
B7.10	3	33%	67%	100%		
B7.50	5	20%	20%	20%	See Note 3	
B7.60	2	0%	0%	0%	See Note 3	
B7.70	47	4%	6%	9%	See Note 3	
B7.80	89	15%	15%	34%	See Note 3	
B9.11	94	22%	33%	33%	See Note 11	
B9.12	0	0%	0%	0%	See Note 6 and 11	
B9.21	9	22%	22%	22%	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%	See Note 11	
B10.10		0%	0%	100%	See Note 4	
B10.20	5 3	33%	67%	100%	See Note 4	

### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

April 21, 2003 through May 3, 2005

Part J, page 2 of 5

1) Owners: Interstate Power and Light Company, an Alliant Company

Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative

P.O. Box 351

Cedar Rapids, IA. 52406

Humbolt, IA.

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

3) Plant Unit: #1

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: 614 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%	See Note 15		
B13.20	11	36%	36%	100%			
B13.30	27	4%	9%	100%	See Note 16		
B13.40	5	20%	20%	100%			
B14.10	3	0%	0%	100%			
B15.10	I	N/A	N/A	N/A	Once per refueling outage		
B15.11	1	N/A	N/A	N/A	Once per interval		
	CLA	SS 1 AND CL	ASS 2 Risk Info	ormed			

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

CLASS 2						
TOTAL#	PERIOD 1	PERIOD 2	PERIOD 3	REMARKS		
2 '	50%	50%	100%			
1	0%	100%	100%			
2	0%	50%	100%			
2	0%	50%	100%			
1	0%	0%	100%	See Note 4		
7	29%	57%	100%	See Note 4		
69	17%	36%	36%	See Note 11		
1	100%	100%	100%	See Note 11		
5	N/A	N/A	N/A	Once per period		
5	N/A	N/A	N/A	Once per interval		
	2 1 2 2 1 7 69 1 5	TOTAL #         PERIOD 1           2         50%           1         0%           2         0%           2         0%           1         0%           7         29%           69         17%           1         100%           5         N/A	2 50% 50% 1 0% 100% 2 0% 50% 2 0% 50% 1 0% 0% 7 29% 57% 69 17% 36% 1 100% 100% 5 N/A N/A	TOTAL#         PERIOD 1         PERIOD 2         PERIOD 3           2         50%         50%         100%           1         0%         100%         100%           2         0%         50%         100%           2         0%         50%         100%           1         0%         0%         100%           7         29%         57%         100%           69         17%         36%         36%           1         100%         100%         100%           5         N/A         N/A         N/A		

#### THIRD TEN YEAR INTERVAL INSERVICE INSPECTION REPORT

April 21, 2003 through May 3, 2005

Part J, page 3 of 5

Owners: Interstate Power and Light Company, an Alliant Company

Marion, IA.

Com Belt Power Cooperative

Humbolt, IA.

P.O. Box 351 Cedar Rapids, IA. 52406

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

3) Plant Unit: #1

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: 614 MWE

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

Central Iowa Power Cooperative

<u>ITEM NO.</u>	<u>TOTAL#</u>	<u>PERIOD 1</u>	<u>PERIOD 2</u>	PERIOD 3	<u>REMARKS</u>
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%	87%		
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%	78%		
E9.20	*	N/A	N/A	N/A	See Note 10	

April 21, 2003 through May 3, 2005

Part J, page 4 of 5

 Owners: Interstate Power and Light Company, an Alliant Company
 P.O. Box 351 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

Cedar Rapids, IA. 52406

2) Plant: Duane Amold 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: 614 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, IES Utilities 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 N491-1 (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 Nozzleto-safe-end 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.

April 21, 2003 through May 3, 2005

Part J, page 5 of 5

 Owners: Interstate Power and Light Company, an Alliant Company
 P.O. Box 351 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative

Humbolt, IA.

Cedar Rapids, IA. 52406

2) Plant: Duane Amold 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: 614 MWE

#### NOTE 12 – Item Number B1.11

There are no welds counted for this item number because of the use of Relief Request NDE-R33

#### NOTE 13 – Item Number B1.12

Relief Request submitted July 14, 2005 requested deferral of examination of two welds.

#### 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 ore that are made accessible for examination by removal of components during normal refueling outages.

#### NOTE 16 - Item Number B13.30

The RFO 17 Summary Report included Shroud Ledge/Vessel Weld (Summary No. 175000) as a B-N-1, B13.10 examination, however it did not report the B-N-2, B13.30 VT-3 performed (Summary No. 174700).

April 21, 2003 through May 3, 2005

Part K, page 1 of 2

1)	Owners: Interstate Power and Light Company, an Alliant Company P.O. Box 351 Cedar Rapids, IA. 52406	Central Iowa Power Cooperative Marion, IA.	Corn Belt Power Cooperative Humbolt, IA.
2)	Plant: Duane Arnold Energy Center, Palo, IA. 52	2324 3) Plant Ur	nit: #1
4)	Owners Certificate of Authorization (if required):	N/A 5) Commer	rcial Service Date: 02/01/75
6)	National Board Number of Unit: N/A	Gross Gene	rating Capacity: 614 MWE

#### **RELIEF REQUESTS / CODE CASES**

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

RELIEF REQUESTS	DESCRIPTION
NDE-R001	Reactor Vessel weld limitations
NDE-R008	Use of existing calibration blocks
NDE-R011	Exemption from Appendix III calibration block notch dimensions
NDE-R012	Use of the 1992 Addenda of ASME Section XI to govern repairs/replacements
NDE-R013	Examination of reactor vessel closure head nuts
NDE-R018	Limited examinations of Nozzle to Vessel welds
NDE-R025	Alternative requirements to Appendix VIII Supplement 4, length sizing acceptance criteria
NDE-R026	Alternative Requirements to VII-4240 "Annual Training"
NDE-R027	Use of the 1992 Edition of ASME Section XI for "Additional Examinations"
NDE-R030	Use of PDI for dissimilar metal welds in lieu of Supplement 10 to Appendix VIII
NDE-R031	Use of Examination Volume as defined by N-613-1
NDE-R032	Use of PDI for Overlays in lieu of Supplement 11 to Appendix VIII
NDE-R033	Reactor Pressure Vessel Circumferential Shell Welds
PR-002	Alternative Testing for Class 2 Pressure Retaining Containment Penetrations connected to non-safety related piping systems
MC-R001	Qualification of Nondestructive Examination Personnel
MC-R002	Alternative to VT-3 for Seals and Gaskets
MC-R003	Alternative to Torque Test of Bolting
MC-R004	Preservice Examination of Reapplied Paint or Coatings
MC-R005	Visual Examination of Painted or Coated Containment Components Prior to Removal of Paint of Coatings
MC-R006	Successive examinations of Repaired Areas
MC-R007	Use of Code Case N-601
CODE CASE #	DESCRIPTION
N-198-1	Exemption From Examination for ASME Class 1 and 2
	Piping Located at Containment Penetrations.
N-307-1	Revised Ultrasonic Examination Volume for Class 1 Bolting,
	Table IWB-2500-1, Examination Category B-G-1, When
	Examinations Are Conducted From the Center Drilled Hole.
N-416-1	Alternative Pressure Test Requirement for Welded Repairs, Fabrication
	Welds for Replacement Parts and Piping Subassemblies, or Installation of
	Replacement Items by Welding, Class 1, 2 and 3.
N-416-2	Alternative Pressure Test Requirement for Welded Repairs, Fabrication Welds for Replacement Parts and Piping. Includes limitation from Regulatory Guide 1.147 Revision 13, required using hold times from Section
	XI 1989 Edition.
N-457	Qualification Specification Notch Location for Ultrasonic
	Examination of Bolts and Studs.
N-460	Alternative Examination Coverage for Class 1 and 2 Welds.
	<del>-</del>

April 21, 2003 through May 3, 2005

Part K, page 2 of 2

 Owners: Interstate Power and Light Company, an Alliant Company
 P.O. Box 351
 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

Humbon, IA

2) Plant: Duane Amold 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: 614 MWE

CODE CASE #	<u>DESCRIPTION</u>
N-461-1	Alternative Rules for Piping Calibration Block Thickness.
N-491-1	Alternative Rules for the Examination of Class 1, 2, 3 and MC Components
	Supports of Light Water Cooled Power Plants.
N-498-1	Alternative Rules for 10 Year Hydrostatic Pressure Testing for Class 1, 2 and Class 3 Systems.
N-503	Limited Certification of Nondestructive Examination Personnel Section XI, Division 1.
N-508-1	Rotation of Serviced Snubbers and Pressure Relief Valves for the Purpose of
14-300-1	Testing Section XI, Division 1.
N-509	Alternative Rules for the Selection and Examinations of Class 1, 2, and 3
	Integrally Welded Attachments, Section XI, Division 1.
N-522	Pressure Testing of Containment Piping, Section XI, Division 1
N-524	Alternative Examination Requirements for Longitudinal Welds in Class 1 and 2 Piping, Section XI, Division 1.
N-535	Alternative Requirements for Inservice Inspection Intervals, Section XI,
N-546	Alternative Requirements for Qualification of VT-2 Examination Personnel, Section XI, Division 1. Limitation requires initial and every 3 year written testing of examiners on Section XI knowledge, and only applies to performance of examinations.
N-552	Alternative Methods – Qualification for Nozzle Inside Radius Section from the Outside Surface, Section XI, Division 1. This Case is referenced in Final Rule dated 9/22/99, 10CFR 50.55a(b)(2)(xv)(J).
N-573	Transfer of Procedure Qualification Records Between Owners.
N-583	Annual Training Alternative.
N-598	Alternative Requirements to Required Percentages of Examination.

### ENCLOSURE 2 TO NG-05-0420

### Augmented Inspection Results RFO 19

Page 1 of 2

System	Weld or Component	Report	Inspection	ISI	Acc	Exam
Description	Description	Number	Requirement	Iso/Fig		
				Number		
Feedwater	FWA-Bore (Zone 3)	105009	С	1.2-05	Y	UT
	FWA-Nozzle (Zones 1 & 2)	105009	С	1.2-05	Y	UT
	FWA-Thermal Sleeve	105010	С	1.2-05	Y	UT
	FWB-Bore (Zone 3)	I05011	С	1.2-05	Y	UT
	FWB-Nozzle (Zones 1 & 2)	I05011	С	1.2-05	Y	UT
	FWB-Thermal Sleeve	105012	С	1.2-05	Y	UT
	FWC-Bore (Zone 3)	105017	С	1.2-06	Y	UT
	FWC-Nozzle (Zones 1 & 2)	105017	С	1.2-06	Y	UT
	FWC-Thermal Sleeve	105018	С	1.2-06	Y	UT
	FWD-Bore (Zone 3)	105019	С	1.2-06	Y	UT
	FWD-Nozzle (Zones 1 & 2)	105019	С	1.2-06	Y	UT
	FWD-Thermal Sleeve	105020	С	1.2-06	Y	UT
Core Spray	CSA-F002	105029	Α	1.2-07	Y	UT
<i>-</i>	CSA-F002A	105030	A	1.2-07	Y	UT
	CSA-F004	105031	A	1.2-07	Ÿ	UT
RWCU	CUB-F004	105036	A	1.2-11B	Y	UT
	CUB-J019	105037	A	1.2-11B	Ÿ	UT
	CUB-J022	105038	A	1.2-11B	Ÿ	UT
	CUB-J025	105039	A	1.2-11B	Ÿ	UT
RHR	RHB-J002	I05041	A	1.2-14	Y	UT
Recirculation	RRF-F002	105047	A	1.2-20	Y	UT
1100110111011	RRG-F002	105048	A	1.2-20	Ÿ	UT
	RCB-F002	105051	A	1.2-21A	$\dot{f Y}$	UT
	RCB-J044	105052	Ā	1.2-21A	Ÿ	UT
	RRB-F002-OVL	105055	A	1.2-22	Ŷ	UT
	RRD-F002-OVL	105057	Ä	1.2-22	Ÿ	UT
	RRD-J005	105058	A	1.2-22	Ÿ	UT
Jet Pump Inst	JPA-F002	105059	A	1.2-25	Y	UT
Jet I unip mist	JPA-J003	105060	A	1.2-25	Ŷ	UT
	JPB-F002	105062	A	1.2-26	Ŷ	UT
	JPB-J003	105063	A	1.2-26	Ŷ	UT
Rx Vessel	CRDRL Nozzle	I05149	С	VS-01-41	Ÿ	EVT-1
101 105501	Top Guide Latch 136°	105149	Ď	VS-04-06	Ÿ	VT-1
	Top Guide Latch 316°	105149	Ď	VS-04-06	Ÿ	VT-1
	Top Guide 46°	105149	D	VS-04-10	Ÿ	VT-1
	Top Guide 136°	105149	D	VS-04-10	Ŷ	VT-1
	Top Guide 226°	105149	D	VS-04-10	Ŷ	VT-1
	Top Guide 316°	105149	D	VS-04-10	Ŷ	VT-1
	Core Spray	105149	F	VS-05-01	Ŷ	EVT-1
	Core Spray Sparger	105149	F	VS-05-02	Ŷ	EVT-1
	Moist Sep Shrd Head	105149	В	VS-06-02	Ŷ	VT-1
	Moisture Separator	105149	B	VS-06-03	Ŷ	VT-3
	Feedwater Spargers	105149	Č	VS-09-01	Ŷ	VT-1
	CRD Guide Tube	105149	Ď	VS-12-04	Ŷ	VT-3 /
		100117	-		•	EVT-1

# Augmented Inspection Results RFO 19

Page 2 of 2

System Description	Weld or Component Description	Report Number	Inspection Requirement	ISI Iso/Fig Number	Acc	Exam
Torus	Torus Support #5	105117	H	N/A	Y	VT-3
	Torus Support #6	I05118	Н	N/A	Y	VT-3
	Earth Quake Tie #2	105119	H	N/A	Y	VT-3
]	Torus Support #7	105120	H	N/A	Y	VT-3
	Torus Support #8	I05121	H	N/A	Y	VT-3
Instrument Air Accumulator	1T-429	I05126	Н	M144-071	Y	VT-3
Fuel Oil Day Tank	1T-037B	105127	H	M15-56	Y	VT-3

#### ACC- ACCEPTED, Y INDICATING ACCEPTED, N INDICATING REJECTED.

A-BWRVIP-75 B-GE SILS C-NUREG 0619 D-BWRVIP

E – BWRVIP-76 (GL 94-03) F – BWRVIP-18 G – BWRVIP-41 H – OWNER DEFINED

### ENCLOSURE 3 TO NG-05-0420

# FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As Required by the Provisions of the ASME Code Rules SUPPLEMENT TO RFO 17 SUMMARY REPORT SUBMITTAL

1. Owner: IES Utilities Inc., an Alliant company, P. O. Box 351, Cedar Rapids, IA 52406	(Note 2)
(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 1 4. Owner Certificate of Authorization (if required)	N/A
Train one no what outstand of framous and (it requires)	
-	
5. Commercial Service Date 02/01/75 6. National Board Number of Unit	N/A
5. Commercial Service Bate 6. National Boate Number of Offi	10//
7. Components Inspected	

### Corrected Pages (Part D, Pages 1 and 2) are attached.

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
				,
	:			

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

### FORM NIS-1 (back)

8. Examination Dates 12/01/99 to 05/27/01 9. Inspection Interval from 11/01/96 to 11/01/05

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Corrected Pages (Part D, Pages 1 and 2) are attached.
11. Abstract of Conditions Noted N/A
12. Abstract of Corrective Measures Recommended and Taken N/A
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 1/27 2005  4 000 110 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1
Signed Say M. Van Meddlemory By Gary D. Van Middlemort
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 <u>Iowa</u> and employed by <u>Hartford Boiler Co.</u> of <u>Hartford CT</u> have inspected the components described in this Owner's Data Report during the period <u>12/01/99</u> to <u>05/27/01</u> , 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 7-28 2005
Inspector's Signature National Board, State, Province and No.
Note 1: As per letter NG-89-3390, the ASME Section XI "Vessels," RHR Heat Exchangers 1E-201A and 1E-201B and the Reactor Vessel are excluded from the Summary Report to the State.

Other owners are Central Iowa Power Cooperative and Corn Belt Power Cooperative.

Note 2:

December 01, 1999 through May 27,2001

Part D, page 1 of 5

1) Owners: IES Utilities Inc., an Alliant company P.O. Box 351

Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

Cedar Rapids, IA. 52406

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: 565 MWE

#### COMPONENT AND WELD EXAMINATION IDENTIFICATION RECORDS

			CLASS 1			
		ISI			ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
RPV Head	HCC-B002 (Stud 20 -40)	101093	UT	VS-01-06	B-A	Accepted by evaluation (AR 25397)
	HCC-C001 (Stud 20 – 40)	I01094	UT, MT	VS-01-06	B-A	Accepted
Main Steam	MSC-K011A	101010	VT-3	1.2-03	F-A	Accepted
Main Steam	PSV-4405 VALVE BODY	101208	VT-3	1.2-03	B-M-2	Accepted
	PSV-4405 BOLTING	101207	VT-1	1.2-03	B-G-2	Accepted
	MSD-K034	101015	VT-3	1.2-04	F-A	Accepted
Feedwater	FWB-K036	I01021	VT-3	1.2-05	F-A	Accepted
	FWC-K020	101026	VT-3	1.2-06	F-A	Accepted
<del></del>	FWD-K014 .	101027	VT-3	1.2-06	F-A	Accepted
Core Spray	CSB-F002	101028	PT, UT	1.2-08	B-F	Accepted
	CSB-F004	I01030	PT, UT	1.2-08	B-F	Accepted
High Pressure Coolant Injection	PSA-K015	101032	VT-3	1.2-09	F-A	Accepted
Control Rod Drive Return	CRA-K017AA	101051	VT-3	1.2-12A	F-A	Accepted by repair (AR 25237)
Residual Heat Removal	RHB-F003	101055	PT, UT	1.2-14	B-F	Accepted
	RHB-K009	101057	VT-3	1.2-14	F-A	Accepted
	RHC-K016	101058	VT-3	1.2-15	F-A	Accepted
	RHD-K005	I01059	VT-3	1.2-16	F-A	Accepted
Reactor Core Isolation Cooling	RSA-K024AA	101061	VT-3	1.2-17	F-A	Accepted
Recirculation Pump 'A' Suction	RCA-K017	101063	VT-3	1.2-19A	F-A	Accepted
Recirculation Manifold 'A' and Risers E,F,G,H	RMA-J002	101065	PT, UT	1.2-20	B-J	Accepted
	RMA-J008	101066	PT, UT	1.2-20	B-J	Accepted
	RRF-D001	101067	UT	1.2-20	B-D	Accepted
	RRF-D001 Inner Rad	101067	UT	1.2-20	B-D	Accepted
<u></u>	RRH-J005	I01069	PT, UT	1.2-20	B-J	Accepted
Recirculation	RBB-J001	101070	PT, UT	1.2-21A	B-J	Accepted
System 'B' Suction	RBB-K005A	101071	VT-3	1.2-21A	F-A	Accepted
and Bypass	RCB-J030	101203	PT, UT	1.2-21A	B-J	Accepted
	RCB-K029	101072	VT-3, PT	1.2-21A	F-A/B-K	Accepted

December 01, 1999 through May 27,2001

Part D Page 2 of 5

 Owners: IES Utilities Inc., an Alliant company P.O. Box 351 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Com Belt Power Cooperative

Humbolt, IA.

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: 565 MWE

#### COMPONENT AND WELD EXAMINATION IDENTIFICATION RECORDS

		CLAS	S 1 con't			
		ISI	- <u>-</u>		ASME XI	
Component	Description	Report	Examination	ISI Iso	Category	Results
Recirculation	RRA-J005	101076	PT, UT	1.2-22	B-J	Accepted
Manifold 'B' and						-
Risers A,B,C,D						
	RRB-J007	I01078	PT, UT	1.2-22	B-J	Accepted
Reactor Head	HSB-D001	101080	UT	1.2-23	B-D	Accepted
Spare	HSB-D001 Inner Rad	I01080	UT	1.2-23	B-D	Accepted
	HSB-FLG-BOLTING	I01081	VT-1	1.2-23	B-G-2	Accepted
Reactor Head Vent	HVA-FLG-	101116	VT-1	1.2-24	B-G-2	Accepted
	BOLTING					·
Standby Liquid	LCA-F002	I01082	PT	1.2-27	B-F	Accepted
Control	LCA-J025	101083	PT	1.2-27	B-J	Accepted
	LCA-J026	101084	PT	1.2-27	B-J	Accepted
	LCA-J026A	101085	PT	1.2-27	B-J	Accepted
	LCA-J027	101086	PT	1.2-27	B-J	Accepted
	LCA-K003A	I01087	VT-3	1.2-27	F-A_	Accepted
Reactor Vessel	VIA-D001	I01088	UT	1.2-28	B-D	Accepted
Instrument. N-11A	VIA-D001 Inner Rad.	101088	UT	1.2-28	B-D	Accepted
Reactor Vessel	VIC-D001	I01089	UT	1.2-30	B-D	Accepted
Instrument, N-12A	VIC-D001 Inner Rad.	I01089	UT	1.2-30	B-D	Accepted
Reactor Vessel	VIF-D001	I01090	UT	1.2-34	B-D	Accepted
Instrument. N-16B	VIF-D001 Inner Rad.	101090	UT	1.2-34	B-D	Accepted
	VIF-F002	I01091	PT	1.2-34	B-F	Accepted
Reactor Pressure	GUIDE ROD BRT(0)	I01095	VT-3	VS-01-28	B-N-1	Accepted
Vessel Internals	SHROUD LEDGE 0-	I01095	VT-3	VS-02-11	B-N-1	Accepted
	180					
	SHROUD LEDGE 0-	101095	VT-3	VS-02-11	B-N-2	Accepted
	180					
	CORE PLATE	I01095	VT-3	VS-03-	B-N-1	Accepted
				02<1>		
	TOP GUIDE	101095	VT-3	VS-04-01	B-N-1	Accepted
	SAMPLE HOLDER-	101095	VT-3	VS-01-31	B-N-1	Accepted
	108 DEG					

		CLASS 1 PRE	SSURE TES	TS		
Class 1 System Leakage Test	STP 3.10.1-01	101092	VT-2	ISONO-P	B-P	Accepted

# FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As Required by the Provisions of the ASME Code Rules SUPPLEMENT TO RFO 18 SUMMARY REPORT SUBMITTAL

(Name and address of Owner)	
P. Plant: Duane Arnold Energy Center, 3277 DAEC Road, Palo, IA 52324	
(Name and Address of Plant)	
B. Plant Unit 1 4. Owner Certificate of Authorization (if required)	N/A
5. Commercial Service Date 02/01/75 6. National Board Number of Unit	N/A

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	

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

### FORM NIS-1 (back)

8. Examination Dates 3/31/03 to 4/20/03 9. Inspection Interval from 11/01/96 to 11/01/05

<ol> <li>Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.</li> </ol>
Corrected Page (Part D, Page 3) is attached.
11. Abstract of Conditions Noted N/A
12. Abstract of Corrective Measures Recommended and Taken N/A
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 7/27 2005
Signed Lan / Mullwood By Gary D. Van Middloworth
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 Vesse 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 3/31/03 to 04/20/03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measure 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 7-28 2005
Inspector's Signature National Board, State, Province and No.

<sup>\*</sup> Note - Other owners are Central Iowa Power Cooperative and Corn Belt Power Cooperative.

March 31, 2003 through April 20, 2003

Part D Page 3 of 4

Owners: Interstate Power and Light Company, an Alliant Company

P.O. Box 351 Cedar Rapids, IA. 52406 Central Iowa Power Cooperative Marion, IA.

Corn Belt Power Cooperative Humbolt, IA.

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

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

5) Commercial Service Date: 02/01/75

3) Plant Unit: #1

National Board Number of Unit: N/A

Gross Generating Capacity: 614 MWE

#### COMPONENT AND WELD EXAMINATION IDENTIFICATION RECORDS

CLASS 2								
	ISI				ASME XI			
Component	Description	Report	Examination	ISI Iso	Category	Results		
Residual Heat Removal Heat Exchanger	· HEA-CA-I	103065	UT	2.1-01	C-A	Accepted		
	HEA-CB-2	103066	MT UT	2.1-01	C-B	Accepted Accepted		
	HEA-CB-2 (Inner Rad)	103066	UT	2.1-01	С-В	Accepted		
	HEA-CC-7	103067	MT	2.1-01	C-C	Accepted		
			VT-3	2.1-01	F-A	Accepted		
	HEA-CC-8 (04)	103068	VT-3	2.1-01	F-A	Accepted		
Residual Heat Removal	RHA-CE009	103069	MT VT-3	2.2-32	C-C F-A	Accepted Accepted		
	RHA-CE027	103070	VT-3	2.2-32	F-A	Accepted		
	RHB-CE050	103071	VT-3	2.2-33	F-A	Accepted, but replaced due to planned PWO		
	RHE-CE036	103072	VT-3	2.2-36	F-A	Accepted		
	RHF-CE078	103073	VT-3	2.2-37A	F-A	Accepted		
	RHI-CE052	103074	VT-3	2.2-39	F-A	Accepted		
	RHK-CE008A	103075	VT-3	2.2-41	F-A	Accepted		
	RHM-CE005	103076	VT-3	2.2-43	F-A	Accepted		
High Pressure Coolant Injection	HPA-CE016	103077	VT-3	2.2-44	F-A	Accepted		
	HPB-CE013	103079	VT-3	2.2-45	F-A	Accepted		
	HPB-CE072	103080	VT-3	2.2-45	F-A	Accepted		
	HPC-CE059	103081	VT-3	2.2-46	F-A	Accepted		