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 AUTH. NAME AUTHOR AFFILIATION
 UHRIG, R.E. Florida Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Forwards schedule of open items resulting from seismic qualification review team/pump-valve operability review team audit 820514 exit interview. Response to four open items encl.

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NRR/DST/LGB 33	1	1	REG FILE 04	1	1
RGN2	2	2	RM/DDAMI/MIB	1	0

EXTERNAL: ACRS 41	10	10	BNL (AMDTS ONLY)	1	1
DMB/DSS (AMDTS)	1	1	FEMA-REP DIV 39	1	1
LPDR 03	1	1	NRC PDR 02	1	1
NSIC 05	1	1	NTIS	1	1

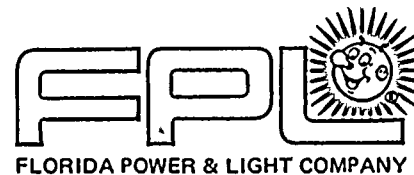
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12

The following information was obtained from the records of the
 Bureau of the Census, Department of Commerce, Washington, D. C.
 for the year 1954:

State	Population	Area (sq. miles)	Density (per sq. mile)
Alabama	2,049,000	52,420	39.1
Alaska	100,000	588,000	0.17
Arizona	1,000,000	113,990	8.78
Arkansas	1,100,000	53,170	20.7
California	6,000,000	158,330	37.9
Colorado	1,500,000	104,000	14.4
Connecticut	2,000,000	5,540	361.0
Delaware	500,000	2,480	201.6
District of Columbia	200,000	68	2,941.2
Florida	2,500,000	55,560	45.0
Georgia	2,500,000	59,730	41.9
Idaho	1,000,000	83,740	11.9
Illinois	5,000,000	149,990	33.3
Indiana	3,000,000	36,420	82.4
Iowa	2,500,000	71,480	35.0
Kansas	2,000,000	82,270	24.3
Kentucky	2,500,000	40,360	62.0
Louisiana	2,000,000	52,430	38.1
Maine	1,000,000	33,340	30.0
Maryland	2,500,000	12,160	205.7
Massachusetts	3,000,000	8,010	374.5
Michigan	4,000,000	96,860	41.3
Minnesota	3,000,000	225,340	13.3
Mississippi	1,500,000	48,670	30.8
Missouri	3,000,000	69,700	43.0
Montana	1,000,000	147,040	6.8
Nebraska	1,500,000	77,340	19.4
Nevada	500,000	110,600	4.5
New Hampshire	1,000,000	9,340	107.1
New Jersey	4,000,000	19,270	207.6
New Mexico	1,000,000	121,740	8.2
New York	15,000,000	47,190	317.8
North Carolina	3,500,000	51,880	67.5
North Dakota	500,000	70,680	7.1
Ohio	4,000,000	44,820	89.2
Oklahoma	1,500,000	69,560	21.6
Oregon	1,500,000	46,340	32.4
Pennsylvania	10,000,000	46,050	217.2
Rhode Island	1,000,000	1,540	649.4
South Carolina	1,500,000	32,240	46.5
South Dakota	500,000	77,100	6.5
Tennessee	3,000,000	42,340	70.9
Texas	6,000,000	267,830	22.4
Utah	1,000,000	156,340	6.4
Vermont	1,000,000	9,610	104.1
Virginia	3,000,000	40,780	73.6
Washington	2,000,000	71,300	28.2
West Virginia	1,500,000	24,060	62.3
Wisconsin	3,000,000	65,490	45.8
Wyoming	500,000	97,810	5.1



July 14, 1982
L-82-283

Office of Nuclear Reactor Regulations
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit No. 2
Docket No. 50-389
Seismic Qualification Review Team (SQRT)
And Pump-Valve Operability Review Team (PVORT)

At the exit meeting of the subject audit on May 14, 1982, FPL advised that a schedule for responding to all open items will be prepared and submitted to NRC Staff. Attached Table 1 presents such a schedule.

In addition, this submittal includes attachments 1 thru 4, that are responses to four open items identified in the table. We assume that this will close-out the four open items. However, if you have any comments or questions, please advise.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/RAK/cab

Attachment

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire

Boo!

8207190440 820714
PDR ADOCK 05000389
A PDR

SQRT AND PVORT AUDIT
FINDINGS AND STATUS
TABLE 1

ITEM	DESCRIPTION OF FINDINGS	STATUS	RESPONSE TO NRC BY
<u>BOP SQRT ITEMS</u>			
1. MSIV I-HCV-08-1B	Neither airline or bypass line has supports.	Admin follow-up	8/31/82
2. Valve I-MV-08-14	Piping Support where ADV valve is mounted if missing. (NRC was notified of Items prior to audit)	Admin follow-up	8/31/82
3. ICW pump	Qual report problems. NRC disagrees with methodology in report. Relative displacement between impeller and casing in question.	FPL to provide clarification on "casing/impeller interference" to be wear ring surfaces. NRC to further consider this position, might require contact with vendor.	7/30/82
4. TE-14-3A	Support of rigid conduit is too flexible. Justify design of the support.	Technical follow-up - To review support design and provide verification or modification.	7/30/82
5. 4.16 kV-2A3 Switch-gear	1. Justify that welded mounting is at least as strong as tested bolted mounting. As an action, item, an additional fourth plug weld should be made.	1. Technical follow-up - FPL to provide justification or corrective action if necessary.	7/30/82
	2. Loose transformer in switchgear cabinet should be reattached and a sampling made to establish that other transformers are not loose.	2. Admin. follow-up FPL to provide procedure for QC review of transformer mounting and results of inspection.	7/30/82
6. 45 kVA PP-201 Transformer	No model number on this piece of equipment, serial number only. Clarify.	Vendor has provided clarification.	Refer to Attachment No. 1
7. Battery Rack	1. Test report states that Battery LC21 has a molded rib design which created cracks during the battery test. Check that SL-2 uses an improved design of LC-21 with floating ribs.	1. Confirmatory	8/31/82
	2. One thermally aged battery cracked during rack test. Check that the battery model LC21 which cracked is not used for SL-2.	2. Confirmatory	8/31/82
	3. Compare natural frequency of single and double bay rack tests.	3. For Info	8/31/82
	4. Provide qual report for new batteries and racks.	4. Technical follow-up	8/31/82

**SQRT AND PVORT AUDIT
FINDINGS AND STATUS
TABLE 1**

<u>ITEM</u>	<u>DESCRIPTION OF FINDINGS</u>	<u>STATUS</u>	<u>RESPONSE TO NRC BY</u>
<u>BOP PVORT ITEMS</u>			
1. ICW Pump	SQRT team is reviewing deflection calculations. Operability review may depend on results of that review.	Under review by NRC	N/A
2. MSIV I-HCV-08-1B	This valve is not tested under full flow conditions. This is a concern.	1. NRC will reconsider information provided during the audit. 2. FPL should continue pursuing additional type testing which may be available.	2. FPL will submit Rockwell report 2573-36-42 by 7/2/82.
3. Valve I-V-7172	Provide confirmation that valve has been manually cycled (FPL Resp)	Confirmatory	7/30/82
<u>NSSS SQRT ITEMS</u>			
1. Valve FCV-3301	FPL to supply pin stresses	Open	7/15/82
2. Valve V-3517	Provide FE AAS6. Computer Code verification.	Follow-up	9/30/82
3. LPSI pump/motor	1. Additional information needed for Motor Qualification Report sections G, H, I, J 2. Provide computer code verification for ASME code equation for flanges and also ME 9032.	1. Open 2. Follow-up	7/15/82 8/2/82
4. Valve LCV-2110P	Provide computer code verification for Wang computer code 2200 A/B	Follow-up	7/15/82
5. HPSI pump	1. Provide SANDE computer code verification 2. Verify rigidity of pump internals 3. Verify, for internals, that startup load is more severe than seismic. 4. Provide location of driver/pump foot taper pins. 5. Provide criteria for load distribution to determine foundation bolt stresses.	1. Open 2. Open 3. Open 4. Open 5. Open	7/2/82 7/2/82 7/2/82 7/2/82 7/2/82

SQRT AND PVORT AUDIT
FINDINGS AND STATUS
TABLE 1

ITEM	DESCRIPTION OF FINDINGS	STATUS	RESPONSE TO NRC BY
6. PT-1107	Spacing between tubing and transmitter of concern (Ebasco resp)	Tech follow-up	7/30/82
7. Recorder No. M226S	Need the required response spectrum for the location on the main control board on which recorder is installed, to compare with test response spectrum of recorder for verification of acceptability. (Ebasco Resp)	Action Lab report for RTG Board will be submitted to NRC with verification of Recorder acceptance.	7/30/82
8. Signal characterizer	Foxboro cabinet in which characterizer is installed does not have ID tag.	Provide confirmation of ID tag installation.	8/1/82
9. RPS cabinet	<ol style="list-style-type: none"> Operability proof for cabinet is not in the report. The cabinet in the field is the actual one tested. Provide details of cabinet and devices reconditioning. 	<ol style="list-style-type: none"> Open Reconditioning steps have been detailed. 	<p>8/1/82</p> <p>Refer to Attachment No. 2.</p>
<u>NSSS PVORT ITEMS</u>			
1. Valve PCV-3301	<ol style="list-style-type: none"> Account for flow induced vibration over life of valve. Hydrotest and leakage data not available. 	<ol style="list-style-type: none"> Open Data is provided. 	<p>7/15/82</p> <p>Refer to Attachment No. 3.</p>
2. Valve V-2650	<ol style="list-style-type: none"> Hydro test and leakage data not available. Need explanation of Pre-op testing to be performed on this valve (closing against full delta P needed) 	<ol style="list-style-type: none"> Data is provided. Confirm part of periodic safeguards test. 	<p>Refer to Attachment No. 4.</p> <p>7/15/82</p>
3. HPSI pump	Coupling cover not secured to floor (Ebasco Resp)	Coupling being adjusted will be secured once work is complete. Verify by letter. Admin follow-up.	7/15/82
4. Valve-HCV-3648	Describe maintenance procedures on air supply filter. Provide certification that this valve is in GEMS.	Confirmatory	7/15/82

FINDINGS AND STATUS
TABLE 1

ITEM	DESCRIPTION OF FINDINGS	STATUS	RESPONSE TO NRC BY
<u>GENERIC CONCERNS</u>			
	1. Verify that input G levels specified for purchasing of valves and line-mounted instruments are larger than the actual computed G values from piping stress analysis.	1. Confirmatory	8/30/82
	2. Provide following status of seismic qual program: a. schedule of remaining equipment b. monthly report on seismic equipment qualification	2. Follow-up	7/2/82
	3. Provide verification that unqualified limit switches will not hamper operation of safety related valves.	3. Open	7/2/82



INFOMASTER

ASCO HUTCH

82081138 1239EST
8 ST. LUCIE FLA. MAY 18, 1982

6785

UARE D COMPANY - SORDEL TRANSFORMERS
8 WEST NATIONAL AVE.
LWAUKEE, WI, 53204

TN: MR. R. BAUER

BJ: FLORIDA POWER & LIGHT COMPANY
ST. LUCIE PLANT - UNIT #2
1963-890 MW(E) EXTENSION
LTG & MISC. TRANSFORMERS - CLASS 1E
PO #NY-422666

Attachment No. 1 SK 1 of 2

Elbasco Inquiry

HAVE RECENTLY COMPLETED AN NRC AUDIT ON THE SUBJECT EQUIPMENT.
THAT AUDIT, THE FOLLOWING QUESTIONS WERE RAISED:

IN THE SECTION OF THE TRANSFORMER NAMEPLATE MARKED "STYLE NUMBER"
SOME OF OUR TRANSFORMERS ARE IDENTIFIED AS 147822-XX, OTHERS AS
143942-XX, AND STILL OTHERS AS 157816-XX. WE ASSUME THAT THESE
ARE SHOP ORDER/SERIAL NUMBERS OF THE UNITS AND WERE SUBSTITUTED
FOR THE "STYLE NUMBER". WOULD YOU CONFIRM THIS?

THE NAMEPLATE OF THE 147822-XX SERIES TRANSFORMERS SHOW THE
TRANSFORMER WEIGHT TO BE 700 LBS. THE 143942-XX SERIES
ARE SHOWN AS 625 LBS. SINCE THE TRANSFORMERS ARE THE SAME, PLEASE
REVIEW AND RESOLVE THE DISCREPANCY.

THE WYLE LABORATORY QUALIFICATION REPORT NUMBER 44509-1 DID NOT
ADDRESS THE TRANSFORMERS BY CATALOG OR STYLE NUMBERS BUT BY
DESCRIPTION OF THE UNITS. PLEASE RECONFIRM THE APPLICABILITY OF
THE REPORT TO OUR TRANSFORMERS. A BRIEF DESCRIPTION OF THE
DESCRIPTION/STYLE NUMBERING SYSTEM WOULD BE APPRECIATED.

CONSIDER THESE PROBLEMS TO BE OF A MINOR NATURE BUT HAVE COMMITTED
AN EARLY RESPONSE TO THE NRC.

OUR IMMEDIATE RESPONSE TO THESE ITEMS WILL BE APPRECIATED.

FROM: PW GAFFNEY/J. HOFMANN
EBASCO SERVICES, INC. - ESSE ELECTRICAL
ST. LUCIE JOBSITE
JENSEN BEACH, FL. 33450
(305) 464-7990 X 351

* G. E. ATTARIAN
W. H. LUNDGREN
E. Z. ZUCHMAN
G. H. KRAUS
P. E. GROSSMAN
P. W. GAFFNEY
J. HOFMANN
FILE 666A

0 953 7576 EBASCO HUTCH





(414) 384-8100

838 WEST NATIONAL AVE.
P.O. BOX 04549

MILWAUKEE, WIS. 53204

May 24, 1982

P. W. Gaffney
Ebasco Services, Inc.
ESSE Electrical
St. Lucie Jobsite
Jensen Beach, FL. 33450

Subject: Florida Power & Light Company
St. Lucie Plant - Unit #2
1983-890 MW(E) Extension
Lighting & Misc. Transformers - Class 1E
P.O. #NY-422666

Gentlemen:

Listed below are responses to questions included in your mailgram of May 18, 1982.

1. Subject transformers are not standard catalog items. The identification numbers are Sorgel factory order or serial numbers. Such numbers are assigned each time a unit of a particular design is manufactured.
2. The weight of 700 lbs. shown on the nameplates of the later 147822-XX series was determined by Wyle Laboratories (page ii of Test Report No. 44509-1). Although transformers of both series are identical, the nameplates on the 143942-XX series show an incorrect estimated weight of 625 lbs.
3. Wyle Laboratories Qualification Test Report No. 44509-1 concerns transformers serial numbered 137088-1 and 137088-2. Sorgel design control documentation for these units is virtually identical to that for the 143942-XX and 147822-XX series.

This documentation is available for review at our facility.

Please let me know if more information is needed.

Sincerely,

SQUARE D COMPANY

Robert R. Bauer
Quality Assurance Manager

RRB:imb

RPS Cabinet

The cabinet in the field is the actual one tested. Provide details on cabinet and devices reconditioning

Following seismic testing of the RPS cabinet, the cabinet was returned to the manufacturer, Electro-Mechanics, for refurbishment. The following steps were employed:

- a) Replacement of precycled components
- b) Replacement of any components that randomly failed during testing
- c) Thorough cleaning of internals and externals of the cabinet
- d) A thorough inspection for loose fastenings, wire/cable abrasion, loose or missing parts
- e) Cosmetic touch-up of paint, etc necessary due to shipping or testing
- f) Functional pre-shipment testing to verify operation of the entire system

In addition, the cabinet was equipped with strain gauges during seismic testing. The stresses resulting from testing are far below the material yield strength and is documented in the test report.

Based upon the above, C-E considers that the RPS cabinet and its internals have been delivered to St. Luce 2 in an "as-new" condition.

Title: Nuclear/Projects Products Quality Checklist
Q.A. Approval BPM
2.25.79

Jamesbury Order No. NC 77858 Valve Serial No. 03A Size 10"
Customer Tag No. FCV 3301 Valve Assembly Drawing No. NC 77858-01 Rev. F
PO 9772917

- | Operation | Performed by | Date |
|--|----------------------|---------------|
| 1. Clean wetted parts per JSN-C - <u>3</u> Rev. <u>2</u> | Oper. <u>JL 1464</u> | <u>9-9-80</u> |
| 2. Check that proper handling equipment is being used for pressure retaining parts. | Insp. <u>AT 126</u> | <u>9-9-80</u> |
| 3. Check for completeness of documentation package per Nuclear QA Manual, Sect. 6, para. 6.2 | Insp. <u>AT 126</u> | <u>9-9-80</u> |
| 4. Check assembly drawing revision letter with Engineering Services (Blueprint Room) | Insp. <u>AT 126</u> | <u>9-9-80</u> |
| 5. Record revision letter of pressure retaining parts, and verify with Engineering Services. | Insp. <u>AT 126</u> | <u>9-9-80</u> |
| 6. Record pressure retaining part information. If incomplete call Q.A.E. | | |

Part Name	Part No.	Rev.	Qty	Heat Code/Serial #	Heat No.
BODY.	548-9091-36	Ø	1	JTD-1 ✓	5402
WAFER	096-9164-36	A	1	JRP-5 ✓	6852
Pressure Plug	045-9070-36	Ø	1	CYU-5 ✓	A16550
BON'T Cap	100-9010-36	Ø	1	HNT-24 ✓	68579-4B
PIPE/TUBE	025-9006-36	Ø	1	H HO	03748 ✓
STUD	030-9032-98	A	2	HLD (JEH) ✓	N/A

- Insp. AT 126 9-9-80
7. Check parts & materials against order
Assembler 2299 9/9
8. Assemble complete per JSN A-2 Rev. 2 & B/P
Assembler 2299 9/9

Sh2
85

Title: Nuclear/Projects Products Quality Checklist
Q.A. Approval *BPM* 2.25.79

Jamesbury Order No. NC 77858 Valve Serial No. 03A Size 10"

Customer Tag No. _____ Valve Assembly Drawing No. NC 77858-01/Rev. F

- | Operation | Performed by | Date |
|--|--------------|-------|
| 1. Clean wetted parts per JSN-C _____ Rev. _____ | Oper. _____ | _____ |
| 2. Check that proper handling equipment is being used for pressure retaining parts. | Insp. _____ | _____ |
| 3. Check for completeness of documentation package per Nuclear QA Manual, Sect. 6, para. 6.2 | Insp. _____ | _____ |
| 4. Check assembly drawing revision letter with Engineering Services (Blueprint Room) | Insp. _____ | _____ |
| 5. Record revision letter of pressure retaining parts, and verify with Engineering Services. | Insp. _____ | _____ |

6. Record pressure retaining part information. If incomplete call Q.A.E.

CONTINUATION OF ITEM 6 PAGE 1

Part Name	Part No.	Rev.	Qty	Heat Code/Serial #	Heat No.
<i>1x H/CAP SCREW</i>	<i>039-9011-98</i>	<i>A</i>	<i>2</i>	<i>HLE(JEG)</i>	<i>N/A</i>
<i>NUT</i>	<i>043-9017-98</i>	<i>Φ</i>	<i>2</i>	<i>J-JPG-H2 (FEQ)</i>	<i>N/A</i>

- | | | |
|---|-----------------|-----------------|
| 7. Check parts & materials against order | Insp. _____ | Assembler _____ |
| 8. Assemble complete per JSN _____ Rev. _____ & B/P | Assembler _____ | _____ |

Title: Nuclear/Projects Products Quality Checklist Valve Serial No. NC 77858-03A
PO9772917

9. Hydrostatic/~~Pneumatic~~ Test per JSN T1 Rev. 8

Body

(1) Check that tester is on Qualified Valve Testers List.
Testers List. Q.A. Rep. D. Parker 10-24-79

(2) Check that nuclear pressure gages are used and are in calibration. Gage No. PGN-580
Test Pressure 1100 psig
Time 10 min.
Leak Rate 0
All valves over 4"
Tester: AP-TEST 10/24/79
M. J. P. 10/24/79
Witnessed by: Q.A. Rep. D. Parker 10-24-79
ANI L. M. P. 10-24-79
Customer R. M. P. 10/24/79

10. Hydrostatic Test/~~Pneumatic~~ Test per JSN 159 Rev. 1 Complies with Rev. 2

Wafer/Bath

(1) Check that tester is on Qualified Valve Testers List.
Q.A. Rep. D. Parker 3 JAN. 80

(2) Check that nuclear pressure gages are used and are in calibration. Gage No. PGN-7
Test Pressure 750 psig
Time 10 min. 1000 psi
Leak Rate 16 OR PER MIN.
All valves over 4"
Tester: J.P. 1283 1-4-80
Witnessed by: Q.A. Rep. D. Parker 4 JAN 80
ANI
Customer W. J. P. 4 Jan 80

11. Assemble Topworks Assembler 2649 & 3094 1/2/80

12. Hydrostatic/~~Pneumatic~~ Test per JSN T50 Rev. 1 9/11/80

Seat

(1) Check that tester is on Qualified Valve Testers List.
Q.A. Rep. D. Parker 21 OCT 80

(2) Check that the pressure gage used is in calibration.
Gage No. PGN-12
Pressure 500 ± 10 psig
Time 2 min. 1000 psi
Leak rate 26 OR PER MIN.
Bidirectional NO
Tester: R.D. 8276 10-21-80
Q.A. Rep. D. Parker 21 OCT 80
Customer R. J. P. 10/21/80

Title: Nuclear/Projects Products Quality Checklist

Valve Serial No. NC77858-03A

3. Check & record actuator cycle time 120 SEC. MIN.
Time Open 158/Close 139 min./sec. Q.A. Rep. [Signature] 17 OCT 80
Customer WAIVED

4. Special actuator tests:
Interrupt & Failure
Position Check
(AS IS) OK
Q.A. Rep. [Signature] 17 OCT 80
Customer WAIVED

5. Weld pins per JSW 11 Rev. D
Welder W2 10-28-80

6. PT pin welds per JSQ 92 Rev. 2
Insp. A. Portis Level II 10-29-80

7. Clean valves per JSNC 3 Rev. 2
Operator 1464 11-12-80

8. Paint/finish valves per JS 8 Rev. 1
1464 11-12-80

9. Check paint thickness if Required and Record 3 mils MIN MILS OK
11/13/80

10. Assembly & Test Group Leader sign-off [Signature] 11/13/80

11. Check Assembly drawing dimension(s) & notes
and record results. Verify pin welds. Insp. ABA #2700 11/12/80

12. Verify position indicator (pin or slot) Insp. ABA #2700 11/13/80

13. Check Inspection Rejection Report Log for
Rejection Report no(s) charged against this
valve and record below. Insp. ABA #2700 11/12/80
NO 3639, NO 4002, NO 4007, NO 3571, NO 3570, NO 4009, NO 418
NO 3697, NO 4651, NO 4008, NO 3647. All completed Ok D.S.

14. Check documentation package for hard copies of the
above Rejection Reports, and check that any required
rework operations have been completed. Insp. ABA #2700 11/12/80

15. Assembly Inspector to contact Q.A. Tech. for review.
Insp. 2700 11/12/80

16. Q.A. Tech. to forward all documentation (except order)
to Q.A. office. Q.A. [Signature] 13 NOV. 80

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
 As Required by the Provisions of the ASME Code, Section III, Div. 1

Sh 1 of 3
V-2650

1. Manufactured by Fisher Controls Co., P.O. Box 190, Marshalltown, Iowa 50158
(Name and Address of N Certificate Holder)

2. Manufactured for Combustion Engr. Inc., P.O. Box 488, Windson, Conn 06095
(Name and Address of Purchaser or Owner)

3. Location of Installation St. Lucie Plt. No. 2, Fla
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 1 Outlet Size 1
(inch) (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1)	ES	7859986	N/A	56A8152 Rev B	2	6261	1981
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. On - Off
(Brief description of service for which equipment was designed)

6. Design Conditions 200 psi 200 °F or Valve Pressure Class N/A
(Pressure) (Temperature)

7. Cold Working Pressure 275 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
3152C-1	SA-351-CF3M	Lebanon	Valve Body
N346-S/N 96	SA-351-CF3M	Waukesha	bonnet
(b) Forgings			

(1) For manually operated valves only. DC:KL NHS 109

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
NX	SA-193-B8M	Victor Products	Stud Bolts
U5997C	SA-194-6	Victor Products	Hex Nuts
(d) Other Parts			
79890-1	SA-479-316	Cartech	Valve Plug
M1305-1	SA-312TP316	Capitol Pipe	Pipe Nipple

9. Hydrostatic test 425 psi. Disk Differential test pressure N/A psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1971 Addenda Winter 1972 Code Case No. N/A Date 11/7/81

Signed Fisher Controls Co. by Michael R. McDaniel (Date)
(In Certificate Holder)
 Our ASME Certificate of Authorization No. 1929 to use the N symbol expires 11-18-83
(N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Fisher Controls Company
 Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) W. W. Albert
 PE State Conn. Reg. No. 6333
 Stress analysis certified by (1) N/A
 PE State _____ Reg. No. _____

(1) Signature not required. List name only.

CERTIFICATE OF SHOP 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 Hartford S.R.I. & I. CO. of Hartford, Conn have inspected the pump, or valve, described in this Data Report on July 28 19 81, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this 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 July 28 19 81
Scott Presler Commissions NO8829N
(Inspector) (Nat'l Bd., State Prov. and No.)

RO'S COMPANY
TOWN, IOWA



RESCHEDULE TO RESCHEDULE TO RESCHEDULE TO SHIPMENT PROMISED
JUN 1 1981

TO NUMBER 13172 TO NUMBER 13172 REPRESENTATIVE ORDER NUMBER 001 -579CO-F CO NUMBER CE-07-8C SERIAL NUMBER V-2650

PERMIT NO. U2155/61. AR 36-25-1 EV 2 LSCN
EN ENGINEERING, INC JUL 7 - 1981 7-29-81 54
PAYABLE CERTIFIED 488

CONNECTICUT JUL 8/11/81 66095
CLEAN AREA
NUCLEAR GRADE SPECIAL PAINT
CLASS 2
ROGER BRYANT

AG METAL: 1 EV: V2650 & V2651
TYPE 667-22 DIAPH ACTUATED CONTROL VALVE

REFERENCE TO NPS 109 IS FOR
E 1971 SPEC III CLASS 2 WINTER 72 ACCENDA
STAMP YES, USE NUCLEAR M/P DWG 12A0542,
IGN P/T 200 PSIG AT 200 DEG F, COLD P/T
PSIG AT 100 DEG F, STAMP VALVE PLATE BODY
ING 150% TO SHIP
T LEAKAGE ACT TO EXCEED 100CC/HF AT 200
C, PACKING
Y & ORIENTATION DWG 56A8152
WORKING TIME ACT TO EXCEED 10 SECONDS
REFERENCE TO 10CFR21 92CC

ASSEMBLY		PLANNER RECORDED	
STEM		BOOT	
AB-5300		CAGE	
ACTUATOR		PLUG	
INSPECTION		RING	
HEAT NUMBERS		ROUNDS	
BOOT		BOTTOM FLG	
3162C-1			
N346/96			
BOOT ASSEMBLY			
① 77 2/24/81		ACTUATOR	
①		HANDJACK	
HYDROTEST		LEVEL FOOT	
425 PSI 30 MIN		FLOAT	
OPER. E. Bruce			
ACTUATOR ASSEMBLY OR MOUNTING		PILOT	
① Check each		POSITIONER	
①			
CLEAR DATE 260		TRANSDUCER	
PILOT MOUNTING		AIR SET	
① 8/2/81		FILTER	
①		ASSEMBLY	
①			
①			

EV 1 CTC 10-22-80 ACC ENT BAFFLE
EV 2 CTC 1-22-81 CHGD ASCC & 67FR, ADDED
& ORIENT DWG, CHGD ASCC 476

BODY
251-CF8M SST ANSI 914.5-1968 CL150 SHELL
WELD GLCBE, C97CU-1/F1100 SST Q-OPEN CAGE
VEL, SA-479 TGP 316/CCCF-A SEAT & GUIDE
PLUG, CLCR-A SEAT RING 1 5/16 PORT, BOLTING
88# STUCS, SA-194 GF & 410 NUTS, LCN
GASKETS, 316 SST VALV- STEM VSC IL375C,
S PUSH DOWN TO CLOSE, FLOW UP
D*-C*-E*-F*-H17-9A4

- 1EA 2R2711XC252 F VALVE BODY
- 1EA 2U215CX0202 F CAGE, CO
- 1EA 1R599135072 PIN, GPOCVE, TYPE C
- 1EA 1U222539102 SEAT RING
- 1EA 11A5202X202 F PLUG, VALVE
- 4EA 1C3306X0192 P NUT, HEX
- 4EA 1R2848X0342 F STUD, CONT THD/STOP

SHIPPING DATA		532	
NO OF PACKAGES		GROSS	182
BOX	CARTON	TARE	
CRATE	SKID	NET	
DIMENSIONS		LEGAL	
PACKED BY		DATE SHIPPED	AUG 18 1981

MAY 28 1981
0228 JUN 19 1981
CONTINUED ON PAGE 2

