



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303



Gentlemen:

The enclosed information notice provides early notification of an event that may have significance. Accordingly, you should review the information notice for possible applicability to your facility.

No specific action or response is requested at this time; however, contingent upon the results of further staff evaluation, a bulletin or circular recommending or requesting specific licensee actions may be issued. If you have questions regarding this matter, please contact this office.

Sincerely,

James P. O'Reilly  
Director

Enclosures:

1. IE Information Notice No. 81-33
2. List of Recently Issued  
IE Information Notices

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Distribution for IE Information Notice 81-33

(INFORMATION)

November 9, 1981

Addresses

In Reference To

- |  |  |
|--|--|
| 1. Alabama Power Company<br>Attn: R. P. McDonald<br>Vice President-Nuclear Generation<br>Post Office Box 2641<br>Birmingham, AL 35291                                      | 50-348 Farley Unit 1<br>50-364 Farley Unit 2   |
| 2. Carolina Power and Light Company<br>Attn: J. A. Jones<br>Senior Executive Vice President<br>and Chief Operating Officer<br>411 Fayetteville Street<br>Raleigh, NC 27602 | 50-325 Brunswick Unit 1<br>50-324 Brunswick Unit 2<br>50-400 Harris Unit 1<br>50-401 Harris Unit 2<br>50-402 Harris Unit 3<br>50-403 Harris Unit 4<br>50-261 Robinson Unit 2 |
| 3. Duke Power Company<br>Attn: L. C. Dafl, Vice President<br>Design Engineering<br>P. O. Box 33189<br>Charlotte, NC 28242  | 50-491 Cherokee Unit 1<br>50-492 Cherokee Unit 2<br>50-493 Cherokee Unit 3<br>50-488 Perkins Unit 1<br>50-489 Perkins Unit 2<br>50-490 Perkins Unit 3                        |
| 4. Duke Power Company<br>Attn: W. O. Parker, Jr.<br>Vice President, Steam Production<br>P. O. Box 2178<br>Charlotte, NC 28242  | 50-369 McGuire Unit 1<br>50-370 McGuire Unit 2<br>50-269 Oconee Unit 1<br>50-270 Oconee Unit 2<br>50-287 Oconee Unit 3<br>50-413 Catawba Unit 1<br>50-414 Catawba Unit 2     |
| 5. Florida Power and Light Company<br>Attn: R. E. Uhrig, Vice President<br>Advanced Systems and Technology<br>P. O. Box 529100<br>Miami, FL 33152                          | 50-335 St. Lucie Unit 1<br>50-389 St. Lucie Unit 2<br>50-250 Turkey Point Unit 3<br>50-251 Turkey Point Unit 4   |
| 6. Florida Power Corporation<br>Attn: J. A. Hancock, Assistant<br>Vice President Nuclear Operations<br>P. O. Box 14042, Mail Stop C-4<br>St. Petersburg, FL 33733          | 50-302 Crystal River Unit 3  |

<u>Addresses</u>	<u>In Reference To</u>
7. Georgia Power Company Attn: J. H. Miller, Jr. Executive Vice President 270 Peachtree Street Atlanta, GA 30303	50-321 Hatch Unit 1 50-366 Hatch Unit 2 50-424 Vogtle Unit 1 50-425 Vogtle Unit 2
8. Mississippi Power and Light Company Attn: N. L. Stampley Vice President of Production P. O. Box 1640 Jackson, MS 39205	50-416 Grand Gulf Unit 1 50-417 Grand Gulf Unit 2
9. Offshore Power Systems Attn: A. R. Collier, President P. O. Box 8000 Jacksonville, FL 32211	50-437 FNP 1-8
10. South Carolina Electric and Gas Company Attn: T. C. Nichols, Jr., Vice President Power Production and System Operations P. O. Box 764 Columbia, SC 29218	50-395 Summer Unit 1
11. Tennessee Valley Authority Attn: H. G. Parris Manager of Power 500A Chestnut Street Tower II Chattanooga, TN 37401	50-438 Bellefonte Unit 1 50-439 Bellefonte Unit 2 50-259 Browns Ferry Unit 1 50-260 Browns Ferry Unit 2 50-296 Browns Ferry Unit 3 50-518 Hartsville Unit 1 50-519 Hartsville Unit 2 50-520 Hartsville Unit 3 50-521 Hartsville Unit 4 50-553 Phipps Bend Unit 1 50-554 Phipps Bend Unit 2 50-327 Sequoyah Unit 1 50-328 Sequoyah Unit 2 50-390 Watts Bar Unit 1 50-391 Watts Bar Unit 2 50-566 Yellow Creek Unit 1 50-567 Yellow Creek Unit 2
12. Virginia Electric and Power Company Attn: R. H. Leasburg Vice President Nuclear Operations P. O. Box 26666 Richmond, VA 23261	50-338 North Anna Unit 1 50-339 North Anna Unit 2 50-404 North Anna Unit 3 50-280 Surry Unit 1 50-281 Surry Unit 2

Addresses

In Reference To

13. Institute of Nuclear Power Operation  
Attn: R. W. Pack  
Lakeside Complex  
1820 Waterp'ace  
Atlanta, GA 30339
14. Southern Company Services, Inc.  
ATTN: O. Batum, Manager  
Nuclear Safety & Licensing  
Department  
P. O. Box 2625  
Birmingham, AL 35202
15. Department of Energy  
Clinch River Breeder Reactor  
Plant Project Office  
AtTN: Chief, Quality Improvement  
P. O. Box U  
Oak Ridge, TN 37830
16. EDS, Nuclear, Inc.  
ATTN: E. H. Verdery  
330 Technology Park/Atlanta  
Norcross, GA 30092

SSINS No.: 6935  
Accession No.:  
8107231036  
IN 81-3

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

November 9, 1981

IE INFORMATION NOTICE NO. 81-33: LOCKING DEVICES INADEQUATELY INSTALLED ON  
MAIN STEAM ISOLATION VALVES

Description of Circumstances:

During recent NRC inspections at the Grand Gulf Nuclear Station, Unit 1 (Mississippi Power and Light Company), and Hartsville No. A1 Nuclear Plant (Tennessee Valley Authority), 26" Main Steam Isolation Valves (B21-F022 and B21-F028) manufactured by Atwood and Morrill Company, Inc., were inspected and were found to be deficient in installation of the locking plates.

These valves are fitted with locking plates which prevent rotation of hexagonal nuts caused by vibration after they are tightened to the studs (part no. 26 Figure No. 1). A tab of the locking plate is bent during installation to engage the flats of the hexagonal nuts (Figure No. 1, part nos. 26, 28 and 33). The purpose of these studs is to couple the shaft from the air operator to the valve stem. Failure to bend these locking plates properly around the hexagonal nuts could cause the stroke of the valve stem to be lengthened resulting in the inability to properly open or close the valve.

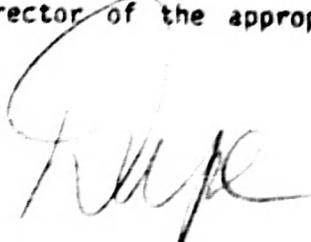
At the facilities mentioned above, these locking plates failed to engage the flat of the hexagonal nuts. Since these locking plates are installed at the manufacturer's plant, licensees have generally not been inspecting to verify that the locking plates are installed properly. Therefore, unless the licensee is required to perform valve rework on stem stroke adjustments in accordance with the Atwood and Morrill Instruction Manual, reverification of the valve-related work would not normally be performed.

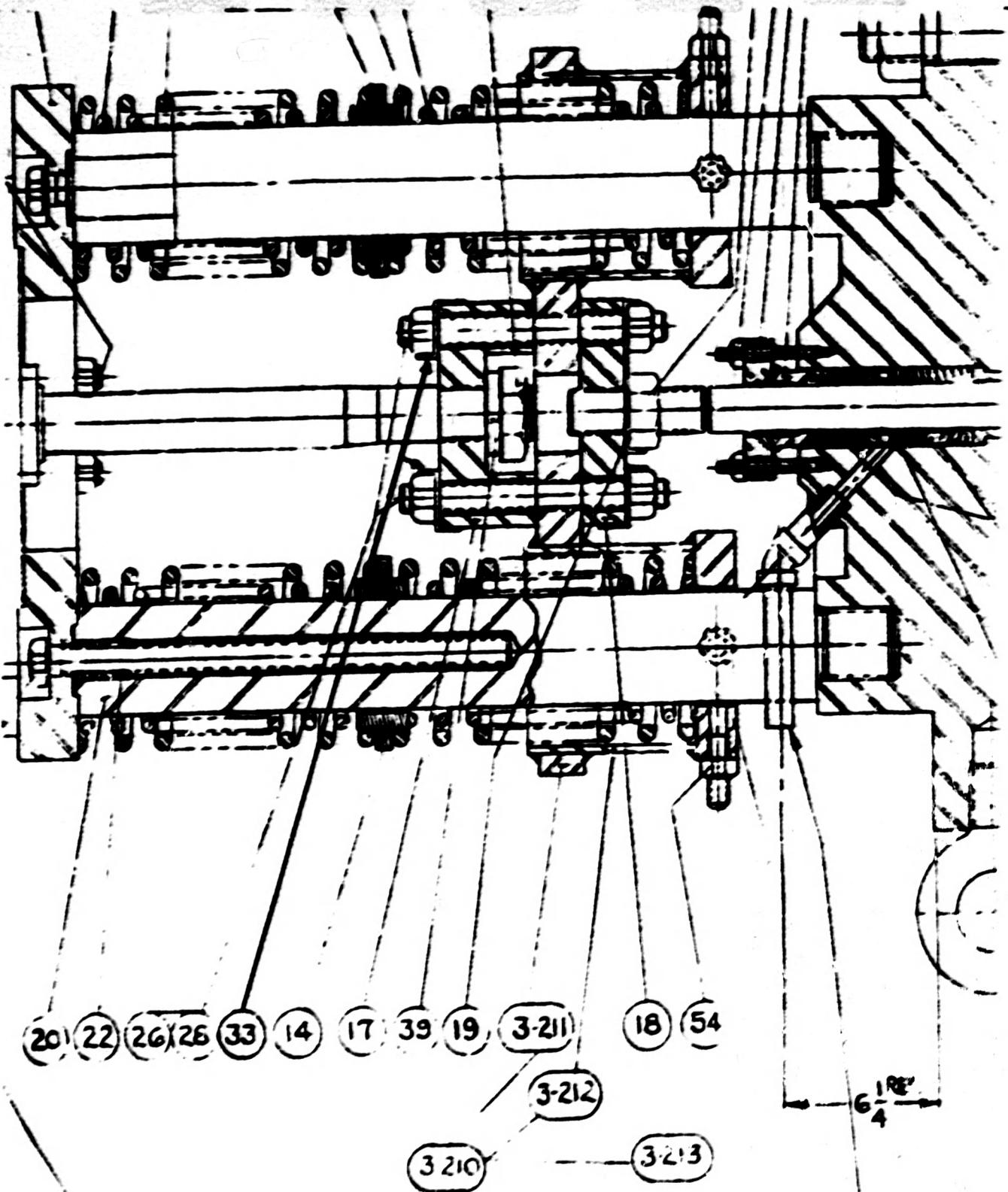
This IE information notice is provided as an early notification of a potentially significant matter that is still under review by the NRC staff. If NRC evaluation so indicates, further licensee action may be requested. In the interim, we expect that licensees will review this information for applicability to their facilities. We suggest that licensees with these Atwood and Morrill valves verify that the locking plates are bent sufficiently to engage the flats of the hexagonal nuts and perform their locking function.

No written response to this information notice is requested. If you need additional information, please contact the Director of the appropriate NRC Regional Office.

Attachments:

1. Figure 1
2. Recently issued IE Information Notices





ATWOOD & MORRILL CO. INC. SALEM MASS.

SERIAL NO		GE SPEC NO	21A-506	REV	A
INLET/OUTLET SIZE	26 IN.	GE PD NO	205 RA 901		
SEAT BORE	21 IN.	GE MASTER P. NO			
MATL - BODY	SA 216 WCB	PRESSURE RATING	7A	PSI MAX	
B. ONE F. DISC 2 IN. 5-STEM SA. 458 U 30					
PRESA/TMP RATING - 575° INTERPOLATED (1375 PSI @ 586°F)					
STEM FLOW	3,850,000	TRIP	985	PSIA	
		CWP	1450	PSIA AT 100°F	
ASME 1.74 SECTION II CLASS I TO JUNE 1971 EDITION					

E1: F022 (FOR 4 VALVES)  
E2: F028 (FOR 4 VALVES)

SEE DE

FIGURE 1, PAGE 1 OF 2

20	YD AE NUD	ALLOY STEEL	4	A 193 B7	
21	PULL DOWN ROD	ALLOY STEEL	4	A 193 B7	
22	T. SER	STEEL	4		
23	STANCHION	ALLOY STEEL	4	A 193 B7	
24	STUD	ALLOY STEEL	18	SA 540 B23 CL 5	SEE NOTES 4, 6, 7 1/2" - 8UN
25	STUD	ALLOY STEEL	4	A 193 B7	1/2" - 13UNC
26	STUD	ALLOY STEEL	4	A 193 B7	1/2" - 8UN
27	STUD	ALLOY STEEL	9	A 193 B7	1/2" - 8UNC
28	HEX NUT	STEEL	12	A 194 2H	1/4" - 8UN
29	HEX NUT	STEEL	18	SA 540 B23 CL 5	SEE NOTES 4, 6, 7 1/2" - 8UN
30	HEX NUT	STEEL	4	A 194 2H	1/2" - 13UNC
31	HEX NUT	STEEL	8	A 194 2H	1/2" - 8UNC
32	HEX JAM NUT	STEEL	1	A 194 2H	2" - 8UN
33	LOCKING PLATE	STEEL	7	A 366	
34	HEX NUT	STEEL	4	A 194 2H	1/2" - 14UNS
35	GASKET	ST. ST. (ASBESTOS)	1	FLEXITALLIC	26 3/4 O.D. x 25 1/4 I.D.
36	PACKING G.P.	GPHASB/ZINC	2 5073	# 201-900	INNER SKY - 5 1/2" LONG OUTER LET - 2 1/2" TO 3 1/2"
37	TANDEM CYLINDER	DWG.	1	CHICAGO FLUID POWER	
38	CONTROL PANEL	CFP-145-D	1	CHICAGO FLUID POWER	
39	LOCKWASHER	STEEL	1		
40	INTERNAL SPRING	INCONEL X	1	750	
41	LOCKWASHER	STEEL	8		
42	NAMEPLATE	ST. ST.	1	18-8	
43	PIPE CAP	MALL IRON	1		
44	HEX CAP SCREW	STEEL	4	A 307 B	
45	EYE BOLT	FORGED STEEL	1		
46	LOCKING PLATE	INCONEL	4	BIG B 600	
47	SWITCH BRACKET	STEEL	1	A 36	
48	LIMIT SWITCH		5	NAMCO # EA 740-20100	
49	OPERATING LEVER	LEV. BRASS ROLLER BRZ.	5		
50	MACHINE SCREW	STEEL	20		
51					
52	LOCKWASHER	STEEL	20		
53	HEX JAM NUT	STEEL	1	A 194 2H	
54	CHECK NUT	STEEL	8	A 307 B	
55	LOCKWASHER	STEEL	4		
56	SWITCH BRACKET	STEEL	1	A 36	
57					
58	HEX NUT "FLEXLOC"	STEEL	4	1137	
59-240	PISTON ROD GUARD ASS'Y		1		
59-241	PIPE	STEEL	1	A 106 B	
59-242	MOUNTING PLATE	STEEL	1	A 515 70	

\*INDICATES PRESSURE RETAINING PARTS PER ASME CODE

RECENTLY ISSUED  
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
81-32	Transfer and/or Disposal of Spent Generators	10/23/81	All medical licensees
81-31	Failure of Safety Injection Valves to Operate Against Differential Pressure	10/8/81	All power reactor facilities with an OL or CP
81-30	Velan Swing Check Valves	9/28/81	All power reactor facilities with an OL or CP
81-29	Equipment Qualification Testing Experience	9/23/81	All power reactor facilities with an OL or CP
81-28	Failure of Rockwell-Edward Main Steam Isolation Valves	9/3/81	All power reactor facilities with an OL or CP
81-27	Flammable Gas Mixtures in the Waste Gas Decay Tanks in PWR Plants	9/3/81	All power reactor facilities with an OL or CP
81-26	Compilation of Health Physics Related Information Items	9/3/81	All power reactor facilities with an OL or CP
81-25	Open Equalizing Valve of Differential Pressure Transmitter Causes Reactor Scram and Loss of Redundant Safety Signals	8/21/81	All power reactor facilities with an OL or CP
81-24	Auxiliary Feed Pump Turbine Bearing Failures	8/5/81	All power reactor facilities with an OL or CP
81-23	Fuel Assembly Damaged due to Improper Positioning of Handling Equipment	8/4/81	All power reactor facilities with an OL or CP

OL = Operating License  
CP = Construction Permit