

FINAL REPORT

FLORIDA POWER & LIGHT COMPANY
TURKEY POINT NUCLEAR POWER PLANT, UNIT 3
CLIENT'S P. O. #: B92691-01146
SPC JOB CODE #3403

Turkey Point Nuclear Power Plant, Unit 3
Spring Refueling Outage
1994

Prepared by: *Michael P. Smith*

Date: 5/10/94

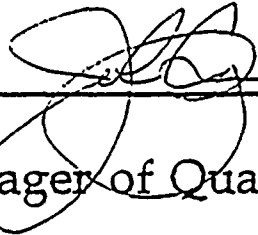
Reviewed by: *R. J. [Signature]*

Date: 5/10/94

9408260160 940815
PDR ADCK 05000250
Q PDR

Certificate of Compliance

Activities described in this Final Report were conducted
in accordance with the applicable requirements of
Florida Power & Light Purchase Order # B92691-01146.

 5/10/94

Manager of Quality Assurance



ABSTRACT

To satisfy the requirements of ASME, Section XI, and FPL Plant Turkey Point (PTN) Technical Specifications, snubber surveillance services were performed during PTN Spring Refueling Outage 1994. Visual examinations, functional testing, and snubber refurbishment activities were accomplished on those snubbers designated by FPL's site representative. Functional testing, using Siemens Power Corporation (SPC) on-site mobile test equipment determined the as-found condition of those snubbers selected for test.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

INTRODUCTION:

Siemens Power Corporation (SPC) was contracted to provide snubber test equipment and visual examination personnel under the direction of Florida Power and Light Co. (FPL) during Turkey Point Unit 3's Spring Refueling Outage. The work was scheduled for performance 4 April 1994 through 30 April 1994 at the Turkey Point's Unit No.3 Nuclear Facility.

This narrative summarizes the significant aspects of the activity. It contains summary tables of visual examination results, functional test results, disassembly evaluations and deviation reports. Original visual examination documentation, functional test plots, deviation reports, disassembly evaluations and the Project Plan (which are incorporated in this report by reference) were turned over to the customer's representative prior to the conclusion of on-site activities.

The initial work scope included the visual examination of 111 mechanical shock arrestors, the functional testing of 12 snubbers as part of the original sample plan and eight (8) snubbers as part of augmented testing.

Functional test activities required as-found testing of test sample plan and augmented snubber and as-left testing of specific mechanical snubbers after cleaning and reassembly.

Functional testing activities identified one (1) snubber which deviated from the specified criteria. Functional testing consisted of twenty-three functional tests, the tested snubbers are divided into four categories: Sample 1, Augmented, Post cleaning and Spares.

Visual examination, functional testing and evaluation activities were performed at Turkey Point Unit 3 under the direction of the Turkey Point site representative. Work performed was in accordance with the above referenced FP&L procedures and in accordance with the SPC Quality Assurance Program.

Visual examination of 109 mechanical shock arrestors identified thirty one (31) shock arrestors deviating for the examination criteria. These conditions were determined to be maintenance items. Therefore, none of these conditions constituted visual failures. A summary of Visual Examination Results is provided in the summary section of this report.

Functional testing of the twelve(12) original sample snubbers (Sample 1 : 3-1000, 3-1038, 3-1043, 3-1044, 3-1046, 3-1048, 3-1057, 3-1070, 3-1071, 3-1081, 3-1106 and 3-1137) identified no snubbers deviating from the specified criteria. Augmented functional testing of three (3) snubbers (3-1045, 3-1094 and 3-1110) was performed. The snubber installed at tag location 3-1094 failed to meet the specified criteria for initial drag.

Snubbers installed at tag locations 3-1054, 3-1077, 3-1078, 3-1079, and 3-1080 were functionally tested after cleaning and all met the specified criteria.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

Three (3) spare snubbers were functionally tested to be used as replacement snubbers. Spare 1 was installed at tag location 3-1080. Spare 2 was installed at tag location 3-1078. Spare 3 was installed at tag location 3-1094.

Summaries of functional test results for Sample 1, Augmented Tests, Post cleaning tests and testing of Spares are provided in the summary section of this report.

Thirty one (31) Deviation Reports were generated as result of Visual examination and functional testing activities. These reports were submitted to the site representative for disposition intructions. Upon receipt of disposition instructions, the instructions were completed and verified, thus closing the report. A summary of Deviation Reports is provided in the summary section of this report.

The purchase order required that snubbers installed at tag locations 3-1054, 3-1077, 3-1078, 3-1079 and 3-1080 be partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled, snubber condition permitting. A summary of the conditions found upon disassembly is provided in the summary section of this report.



FLORIDA POWER & LIGHT Co.
 TURKEY POINT NUCLEAR PLANT UNIT 3
 REFUELING OUTAGE 1994
 SIEMENS POWER CORPORATION
 FINAL REPORT

PROGRAM SUMMARIES:

VISUAL EXAMINATION SUMMARY

| TAG # | SERIAL # | VT-3DATE | VTRSLT | A/F DEVO. |
|--------|----------|----------|--------|------------------|
| 3-1000 | 18015 | 04/15/94 | PASS | |
| 3-1001 | 27095 | 04/12/94 | PASS | |
| 3-1002 | 104 | 04/12/94 | DEV. | 3-TPN-94-3-1002 |
| 3-1003 | 29625 | 04/12/94 | DEV. | 4-TPN-94-3-1003 |
| 3-1004 | 101 | 04/12/94 | PASS | |
| 3-1005 | 10035 | 04/08/94 | DEV. | 2-TPN-94-3-1005 |
| 3-1006 | 3051 | 04/12/94 | DEV. | 5-TPN-94-3-1006 |
| 3-1007 | 4590 | 04/13/94 | PASS | |
| 3-1008 | 8084 | 04/13/94 | PASS | |
| 3-1009 | 1203 | 04/13/94 | DEV. | 6-TPN-94-3-1009 |
| 3-1010 | 11931 | 04/13/94 | DEV. | 7-TPN-94-3-1010 |
| 3-1011 | 12376 | 04/13/94 | DEV. | 8-TPN-94-3-1011 |
| 3-1012 | 8086 | 04/07/94 | PASS | |
| 3-1013 | 33624 | 04/22/94 | PASS | |
| 3-1014 | 1722 | 04/22/94 | PASS | |
| 3-1015 | 18009 | 04/22/94 | PASS | |
| 3-1016 | 18012 | 04/22/94 | PASS | |
| 3-1017 | 18003 | 04/22/94 | PASS | |
| 3-1018 | 18013 | 04/22/94 | PASS | |
| 3-1019 | 2889 | 04/13/94 | DEV. | 9-TPN-94-3-1019 |
| 3-1020 | 103 | 04/13/94 | DEV. | 10-TPN-94-3-1020 |
| 3-1021 | 16725 | 04/22/94 | DEV. | 32-TPN-94-3-1021 |

FLORIDA POWER & LIGHT Co.
 TURKEY POINT NUCLEAR PLANT UNIT 3
 REFUELING OUTAGE 1994
 SIEMENS POWER CORPORATION
 FINAL REPORT

| TAG # ----- | SERIAL # ----- | VT-3DATE ----- | VTRSLT ----- | A/F DEVO. ----- |
|----------------|-------------------|-------------------|-----------------|--------------------|
| 3-1022 | 18006 | 04/22/94 | PASS | |
| 3-1023 | 23273 | 04/22/94 | PASS | |
| 3-1024 | 17427 | 04/22/94 | PASS | |
| 3-1025 | 100 | 04/22/94 | PASS | |
| 3-1028 | 11135 | 04/22/94 | PASS | |
| 3-1029 | 11330 | 04/22/94 | PASS | |
| 3-1030 | 11121 | 04/22/94 | PASS | |
| 3-1031 | 27086 | 04/14/94 | PASS | |
| 3-1032 | 24410 | 04/14/94 | DEV. | 16-TPN-94-3-1032 |
| 3-1033 | 19328 | 04/14/94 | PASS | |
| 3-1034 | 24429 | 04/14/94 | PASS | |
| 3-1035 | 19330 | 04/14/94 | PASS | |
| 3-1036 | 27100 | 04/14/94 | PASS | |
| 3-1037 | 11922 | 04/16/94 | PASS | |
| 3-1038 | 11934 | 04/15/94 | PASS | |
| 3-1039 | 16241 | 04/15/94 | DEV. | 17-TPN-94-3-1039 |
| 3-1040 | 16239 | 04/15/94 | DEV. | 18-TPN-94-3-1040 |
| 3-1041 | 16234 | 04/15/94 | DEV. | 19-TPN-94-3-1041 |
| 3-1042 | 12365 | 04/15/94 | PASS | |
| 3-1043 | 17899 | 04/18/94 | PASS | |
| 3-1044 | 17900 | 04/18/94 | PASS | |
| 3-1045 | 17189 | 04/18/94 | PASS | |
| 3-1046 | 17903 | 04/18/94 | PASS | |
| 3-1047 | 17902 | 04/18/94 | PASS | |
| 3-1048 | 17904 | 04/18/94 | PASS | |
| 3-1049 | 16245 | 04/18/94 | PASS | |



FLORIDA POWER & LIGHT Co.
 TURKEY POINT NUCLEAR PLANT UNIT 3
 REFUELING OUTAGE 1994
 SIEMENS POWER CORPORATION
 FINAL REPORT

| TAG # ----- | SERIAL # ----- | VT-3DATE ----- | VTRSLT ----- | A/F DEVO. ----- |
|----------------|-------------------|-------------------|-----------------|--------------------|
| 3-1050 | 17906 | 04/18/94 | PASS | |
| 3-1051 | 16249 | 04/19/94 | PASS | |
| 3-1052 | 16233 | 04/19/94 | PASS | |
| 3-1053 | 2462 | 04/19/94 | PASS | |
| 3-1054 | 16248 | 04/19/94 | PASS | |
| 3-1055 | 13697 | 04/19/94 | PASS | |
| 3-1057 | 27106 | 04/18/94 | PASS | |
| 3-1058 | 27102 | 04/18/94 | PASS | |
| 3-1060 | 19329 | 04/18/94 | PASS | |
| 3-1069 | 27072 | 04/18/94 | PASS | |
| 3-1070 | 27079 | 04/18/94 | PASS | |
| 3-1071 | 27069 | 04/19/94 | PASS | |
| 3-1072 | 27073 | 04/19/94 | DEV. | 29-TPN-94-3-1072 |
| 3-1073 | 27090 | 04/19/94 | PASS | |
| 3-1074 | 27104 | 04/18/94 | PASS | |
| 3-1075 | 18074 | 04/16/94 | DEV. | 24-TPN-94-3-1075 |
| 3-1076 | 19725 | 04/16/94 | DEV. | 25-TPN-94-3-1076 |
| 3-1077 | 16230 | 04/15/94 | DEV. | 15-TPN-94-3-1077 |
| 3-1078 | 16229 | 04/15/94 | DEV. | 14-TPN-94-3-1078 |
| 3-1079 | 10176 | 04/15/94 | DEV. | 13-TPN-94-3-1079 |
| 3-1080 | 10173 | 04/15/94 | DEV. | 12-TPN-94-3-1080 |
| 3-1081 | 11921 | 04/15/94 | PASS | |
| 3-1082 | 11932 | 04/15/94 | PASS | |
| 3-1083 | 11925 | 04/21/94 | PASS | |
| 3-1084 | 7000 | 04/20/94 | PASS | |

FLORIDA POWER & LIGHT Co.
 TURKEY POINT NUCLEAR PLANT UNIT 3
 REFUELING OUTAGE 1994
 SIEMENS POWER CORPORATION
 FINAL REPORT

| TAG # | SERIAL # | VT-3DATE | VTRSLT | A/F DEVO. |
|--------|----------|----------|--------|------------------|
| ----- | ----- | ----- | ----- | ----- |
| 3-1091 | 27087 | 04/16/94 | DEV. | 21-TPN-94-3-1091 |
| 3-1092 | 27105 | 04/16/92 | DEV. | 22-TPN-94-3-1092 |
| 3-1093 | 27091 | 04/16/94 | DEV. | 23-TPN-94-3-1093 |
| 3-1094 | 27074 | 04/19/94 | DEV. | 28-TPN-94-3-1094 |
| 3-1095 | 16733 | 04/14/94 | PASS | |
| 3-1096 | 11993 | 04/19/94 | PASS | |
| 3-1097 | 16724 | 04/19/94 | PASS | |
| 3-1098 | 33628 | 04/15/94 | PASS | |
| 3-1099 | 38481 | 04/15/94 | PASS | |
| 3-1100 | 17819 | 04/15/94 | PASS | |
| 3-1101 | 33626 | 04/15/94 | DEV. | 20-TPN-94-3-1101 |
| 3-1102 | 29451 | 04/15/94 | PASS | |
| 3-1103 | 11996 | 04/19/94 | PASS | |
| 3-1104 | 24412 | 04/19/94 | PASS | |
| 3-1105 | 16134 | 04/14/94 | PASS | |
| 3-1106 | 29495 | 04/14/94 | DEV. | 11-TPN-94-3-1106 |
| 3-1110 | 16136 | 04/14/94 | PASS | |
| 3-1111 | 2875 | 04/19/94 | PASS | |
| 3-1112 | 27083 | 04/19/94 | PASS | |
| 3-1120 | 18325 | 04/19/94 | PASS | |
| 3-1121 | 24430 | 04/15/94 | PASS | |
| 3-1123 | 12988 | 04/07/94 | DEV. | 1-TPN-94-3-1123 |
| 3-1124 | 12991 | 04/07/94 | PASS | |
| 3-1125 | 12986 | 04/08/94 | PASS | |
| 3-1126 | 12989 | 04/08/94 | PASS | |
| 3-1127 | 12990 | 04/08/94 | PASS | |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

| <u>TAG #</u> | <u>SERIAL #</u> | <u>VT-3DATE</u> | <u>VTRSLT</u> | <u>A/F DEVO.</u> |
|--------------|-----------------|-----------------|---------------|------------------|
| 3-1128 | 12985 | 04/08/94 | PASS | |
| 3-1129 | 12987 | 04/13/94 | PASS | |
| 3-1130 | 17840 | 04/11/94 | PASS | |
| 3-1131 | 17837 | 04/11/94 | PASS | |
| 3-1132 | 17838 | 04/11/94 | PASS | |
| 3-1133 | 13695 | 04/11/94 | PASS | |
| 3-1134 | 17836 | 04/11/94 | PASS | |
| 3-1135 | 17839 | 04/12/94 | PASS | |
| 3-1136 | 19884 | 04/16/94 | PASS | |
| 3-1137 | 19885 | 04/16/94 | PASS | |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

FUNCTIONAL TEST SUMMARIES

SAMPLE 1 Functional Test Summary

| | | |
|--------------------|--------------------|----------------------|
| TAG #: 3-1000 | MODEL: PSA-1 | |
| FTRSLT: PASS | FDATE: 04/14/94 | SERIAL #: 18015 |
| TBKAWY: 6.1 | CBKAWY: 12.7 | BKAWY RSLT: PASS |
| TIDRAG: 10.8 | CIDRAG: 13.6 | IDRAG RSLT: PASS |
| TAIDRAG: 6.1 | CADRAG: 9.1 | AVDRAG RSLT: PASS |
| TTST LOAD: 1411.6 | CTST LOAD: 1440.3 | TEST LOAD RSLT: PASS |
| TACTV.: 0.009 | CACTV.: 0.009 | ACTV. RSLT: PASS |
| TFDRAG: 11.9 | CFDRAG: 14.7 | FDRAG RSLT: PASS |
| TFADRAG: 6.6 | CFADRAG: 9.2 | TFADRAG RSLT: PASS |
| TAG #: 3-1038 | MODEL: PSA-35 | |
| FTRSLT: PASS | FDATE: 04/16/94 | SERIAL #: 11934 |
| TBKAWY: 363.5 | CBKAWY: 205.4 | BKAWY RSLT: PASS |
| TIDRAG: 626.5 | CIDRAG: 447.2 | IDRAG RSLT: PASS |
| TAIDRAG: 248.3 | CADRAG: 194.0 | AVDRAG RSLT: PASS |
| TTST LOAD: 44650 | CTST LOAD: 47290 | TEST LOAD RSLT: PASS |
| TACTV.: 0.017 | CACTV.: 0.016 | ACTV. RSLT: PASS |
| TFDRAG: 554.1 | CFDRAG: 602.2 | FDRAG RSLT: PASS |
| TFADRAG: 259.3 | CFADRAG: 225.4 | TFADRAG RSLT: PASS |
| TAG #: 3-1044 | MODEL: PSA-10 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 17900 |
| TBKAWY: 46.2 | CBKAWY: 54.1 | BKAWY RSLT: PASS |
| TIDRAG: 55.4 | CIDRAG: 86.1 | IDRAG RSLT: PASS |
| TAIDRAG: 40.0 | CADRAG: 65.7 | AVDRAG RSLT: PASS |
| TTST LOAD: 13456.4 | CTST LOAD: 13484.6 | TEST LOAD RSLT: PASS |
| TACTV.: 0.019 | CACTV.: 0.013 | ACTV. RSLT: PASS |
| TFDRAG: 66.5 | CFDRAG: 58.6 | FDRAG RSLT: PASS |
| TFADRAG: 53.6 | CFADRAG: 42.3 | TFADRAG RSLT: PASS |
| TAG #: 3-1046 | MODEL: PSA-10 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 17903 |
| TBKAWY: 26.5 | CBKAWY: 35.5 | BKAWY RSLT: PASS |
| TIDRAG: 53.9 | CIDRAG: 47.3 | IDRAG RSLT: PASS |
| TAIDRAG: 36.7 | CADRAG: 27.9 | AVDRAG RSLT: PASS |
| TTST LOAD: 14690.0 | CTST LOAD: 14090.3 | TEST LOAD RSLT: PASS |
| TACTV.: 0.017 | CACTV.: 0.009 | ACTV. RSLT: PASS |
| TFDRAG: 62.0 | CFDRAG: 63.3 | FDRAG RSLT: PASS |
| TFADRAG: 37.7 | CFADRAG: 31.0 | TFADRAG RSLT: PASS |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

SAMPLE 1 Functional Test Summary (continued)

| | | |
|--------------------|--------------------|----------------------|
| TAG #: 3-1048 | MODEL: PSA-10 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 17904 |
| TBKAWY: 42.1 | CBKAWY: 43.3 | BKAWY RSLT: PASS |
| TIDRAG: 81.3 | CIDRAG: 57.7 | IDRAG RSLT: PASS |
| TAIDRAG: 41.2 | CADRAG: 30.3 | AVDRAG RSLT: PASS |
| TTST LOAD: 13636.5 | CTST LOAD: 13268.3 | TEST LOAD RSLT: PASS |
| TACTV.: 0.019 | CACTV.: 0.011 | ACTV. RSLT: PASS |
| TFDRAG: 39.7 | CFDRAG: 54.9 | FDRAG RSLT: PASS |
| TFADRAG: 29.5 | CFADRAG: 32.1 | TFADRAG RSLT: PASS |
| TAG #: 3-1057 | MODEL: PSA-3 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 27106 |
| TBKAWY: 21.9 | CBKAWY: 22.2 | BKAWY RSLT: PASS |
| TIDRAG: 41.0 | CIDRAG: 33.4 | IDRAG RSLT: PASS |
| TAIDRAG: 22.6 | CADRAG: 18.6 | AVDRAG RSLT: PASS |
| TTST LOAD: 5831.8 | CTST LOAD: 5721.8 | TEST LOAD RSLT: PASS |
| TACTV.: 0.010 | CACTV.: 0.005 | ACTV. RSLT: PASS |
| TFDRAG: 47.6 | CFDRAG: 35.9 | FDRAG RSLT: PASS |
| TFADRAG: 23.1 | CFADRAG: 19.5 | TFADRAG RSLT: PASS |
| TAG #: 3-1070 | MODEL: PSA-3 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 27079 |
| TBKAWY: 39.0 | CBKAWY: 31.0 | BKAWY RSLT: PASS |
| TIDRAG: 51.8 | CIDRAG: 56.2 | IDRAG RSLT: PASS |
| TAIDRAG: 29.5 | CADRAG: 33.5 | AVDRAG RSLT: PASS |
| TTST LOAD: 5535.2 | CTST LOAD: 5363.4 | TEST LOAD RSLT: PASS |
| TACTV.: 0.011 | CACTV.: 0.006 | ACTV. RSLT: PASS |
| TFDRAG: 55.5 | CFDRAG: 49.1 | FDRAG RSLT: PASS |
| TFADRAG: 30.9 | CFADRAG: 29.0 | TFADRAG RSLT: PASS |
| TAG #: 3-1071 | MODEL: PSA-3 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 27069 |
| TBKAWY: 30.1 | CBKAWY: 14.1 | BKAWY RSLT: PASS |
| TIDRAG: 37.7 | CIDRAG: 34.5 | IDRAG RSLT: PASS |
| TAIDRAG: 22.3 | CADRAG: 20.3 | AVDRAG RSLT: PASS |
| TTST LOAD: 5727.2 | CTST LOAD: 5534.8 | TEST LOAD RSLT: PASS |
| TACTV.: 0.012 | CACTV.: 0.008 | ACTV. RSLT: PASS |
| TFDRAG: 34.7 | CFDRAG: 26.3 | FDRAG RSLT: PASS |
| TFADRAG: 20.6 | CFADRAG: 12.2 | TFADRAG RSLT: PASS |



FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

SAMPLE 1 Functional Test Summary (continued)

| | | |
|------------------|------------------|----------------------|
| TAG #: 3-1081 | MODEL: PSA-35 | |
| FTRSLT: PASS | FDATE: 04/15/94 | SERIAL #: 11921 |
| TBKAWY: 398.1 | CBKAWY: 372.8 | BKAWY RSLT: PASS |
| TIDRAG: 494.9 | CIDRAG: 372.8 | IDRAG RSLT: PASS |
| TAIDRAG: 251.9 | CADRAG: 173.9 | AVDRAG RSLT: PASS |
| TTST LOAD: 43990 | CTST LOAD: 48440 | TEST LOAD RSLT: PASS |
| TACTV.: 0.015 | CACTV.: 0.014 | ACTV. RSLT: PASS |
| TFDRAG: 536.5 | CFDRAG: 479.1 | FDRAG RSLT: PASS |
| TFADRAG: 157.7 | CFADRAG: 254.3 | TFADRAG RSLT: PASS |
| TAG #: 3-1106 | MODEL: PSA-1/4 | |
| FTRSLT: PASS | FDATE: 04/15/94 | SERIAL #: 29495 |
| TBKAWY: 4.9 | CBKAWY: 6.6 | BKAWY RSLT: PASS |
| TIDRAG: 8.9 | CIDRAG: 8.0 | IDRAG RSLT: PASS |
| TAIDRAG: 6.1 | CADRAG: 3.9 | AVDRAG RSLT: PASS |
| TTST LOAD: 337.4 | CTST LOAD: 310.5 | TEST LOAD RSLT: PASS |
| TACTV.: 0.007 | CACTV.: 0.006 | ACTV. RSLT: PASS |
| TFDRAG: 8.3 | CFDRAG: 6.5 | FDRAG RSLT: PASS |
| TFADRAG: 5.7 | CFADRAG: 3.4 | TFADRAG RSLT: PASS |
| TAG #: 3-1137 | MODEL: PSA-1/2 | |
| FTRSLT: PASS | FDATE: 04/16/94 | SERIAL #: 19885 |
| TBKAWY: 2.3 | CBKAWY: 3.9 | BKAWY RSLT: PASS |
| TIDRAG: 3.7 | CIDRAG: 4.4 | IDRAG RSLT: PASS |
| TAIDRAG: 2.4 | CADRAG: 3.1 | AVDRAG RSLT: PASS |
| TTST LOAD: 624.2 | CTST LOAD: 629.1 | TEST LOAD RSLT: PASS |
| TACTV.: 0.014 | CACTV.: 0.012 | ACTV. RSLT: PASS |
| TFDRAG: 4.7 | CFDRAG: 4.0 | FDRAG RSLT: PASS |
| TFADRAG: 3.1 | CFADRAG: 2.7 | TFADRAG RSLT: PASS |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

Augmented Functional Test Summary

| | | |
|--------------------|--------------------|----------------------|
| TAG #: 3-1045 | MODEL: PSA-10 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 17189 |
| TBKAWY: 24.3 | CBKAWY: 46.8 | BKAWY RSLT: PASS |
| TIDRAG: 36.9 | CIDRAG: 65.0 | IDRAG RSLT: PASS |
| TAIDRAG: 22.5 | CADRAG: 48.2 | AVDRAG RSLT: PASS |
| TTST LOAD: 13892.2 | CTST LOAD: 13239.6 | TEST LOAD RSLT: PASS |
| TACTV.: 0.019 | CACTV.: 0.011 | ACTV. RSLT: PASS |
| TFDRAG: 49.0 | CFDRAG: 46.5 | FDRAG RSLT: PASS |
| TFADRAG: 32.3 | CFADRAG: 32.7 | TFADRAG RSLT: PASS |
| TAG #: 3-1094 | MODEL: PSA-3 | |
| FTRSLT: FAIL | FDATE: 04/19/94 | SERIAL #: 27074 |
| TBKAWY: 165.3 | CBKAWY: 158.4 | BKAWY RSLT: PASS |
| TIDRAG: 208.4 | CIDRAG: 343.2 | IDRAG RSLT: FAIL |
| TAIDRAG: 114.9 | CADRAG: 138.6 | AVDRAG RSLT: PASS |
| TTST LOAD: 5887.0 | CTST LOAD: 5827.7 | TEST LOAD RSLT: PASS |
| TACTV.: 0.012 | CACTV.: 0.007 | ACTV. RSLT: PASS |
| TFDRAG: 155.3 | CFDRAG: 192.0 | FDRAG RSLT: PASS |
| TFADRAG: 73.0 | CFADRAG: 93.1 | TFADRAG RSLT: PASS |
| TAG #: 3-1110 | MODEL: PSA-1 | |
| FTRSLT: PASS | FDATE: 04/15/94 | SERIAL #: 16136 |
| TBKAWY: 5.8 | CBKAWY: 3.2 | BKAWY RSLT: PASS |
| TIDRAG: 8.7 | CIDRAG: 6.8 | IDRAG RSLT: PASS |
| TAIDRAG: 6.0 | CADRAG: 3.2 | AVDRAG RSLT: PASS |
| TTST LOAD: 1402.7 | CTST LOAD: 1424.4 | TEST LOAD RSLT: PASS |
| TACTV.: 0.009 | CACTV.: 0.008 | ACTV. RSLT: PASS |
| TFDRAG: 7.7 | CFDRAG: 7.9 | FDRAG RSLT: PASS |
| TFADRAG: 4.8 | CFADRAG: 4.4 | TFADRAG RSLT: PASS |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

Post Cleaning Functional Test Summary

TAG #: 3-1054

MODEL: PSA-10

| | | |
|--------------------|---------------------|----------------------|
| A/L FTRSLT: PASS | A/L FDATE: 04/19/94 | SERIAL #: 16248 |
| TBKAWY: 22.7 | CBKAWY: 35.8 | BKAWY RSLT: PASS |
| TIDRAG: 38.9 | CIDRAG: 55.9 | IDRAG RSLT: PASS |
| TAIDRAG: 20.4 | CADRAG: 36.0 | AVDRAG RSLT: PASS |
| TTST LOAD: 13832.7 | CTST LOAD: 13256.4 | TEST LOAD RSLT: PASS |
| TACTV.: 0.017 | CACTV.: 0.017 | ACTV. RSLT: PASS |
| TFDRAG: 39.8 | CFDRAG: 47.4 | FDRAG RSLT: PASS |
| TFADRAG: 22.3 | CFADRAG: 30.5 | TFADRAG RSLT: PASS |

TAG #: 3-1077

MODEL: PSA-10

| | | |
|--------------------|---------------------|----------------------|
| A/L FTRSLT: PASS | A/L FDATE: 04/16/94 | SERIAL #: 16230 |
| TBKAWY: 44.3 | CBKAWY: 39.4 | BKAWY RSLT: PASS |
| TIDRAG: 44.3 | CIDRAG: 58.0 | IDRAG RSLT: PASS |
| TAIDRAG: 22.6 | CADRAG: 36.5 | AVDRAG RSLT: PASS |
| TTST LOAD: 14507.4 | CTST LOAD: 13683.9 | TEST LOAD RSLT: PASS |
| TACTV.: 0.017 | CACTV.: 0.010 | ACTV. RSLT: PASS |
| TFDRAG: 37.6 | CFDRAG: 52.2 | FDRAG RSLT: PASS |
| TFADRAG: 21.9 | CFADRAG: 32.6 | TFADRAG RSLT: PASS |

TAG #: 3-1078

MODEL: PSA-10

| | | |
|--------------------|---------------------|----------------------|
| A/L FTRSLT: PASS | A/L FDATE: 04/18/94 | SERIAL #: 16229 |
| TBKAWY: 16.6 | CBKAWY: 34.3 | BKAWY RSLT: PASS |
| TIDRAG: 34.0 | CIDRAG: 47.7 | IDRAG RSLT: PASS |
| TAIDRAG: 14.9 | CADRAG: 31.1 | AVDRAG RSLT: PASS |
| TTST LOAD: 14313.1 | CTST LOAD: 13148.8 | TEST LOAD RSLT: PASS |
| TACTV.: 0.018 | CACTV.: 0.011 | ACTV. RSLT: PASS |
| TFDRAG: 45.8 | CFDRAG: 32.5 | FDRAG RSLT: PASS |
| TFADRAG: 29.1 | CFADRAG: 17.1 | TFADRAG RSLT: PASS |

TAG #: 3-1079

MODEL: PSA-10

| | | |
|--------------------|---------------------|----------------------|
| A/L FTRSLT: PASS | A/L FDATE: 04/16/94 | SERIAL #: 10176 |
| TBKAWY: 17.1 | CBKAWY: 29.5 | BKAWY RSLT: PASS |
| TIDRAG: 29.8 | CIDRAG: 39.1 | IDRAG RSLT: PASS |
| TAIDRAG: 16.6 | CADRAG: 23.6 | AVDRAG RSLT: PASS |
| TTST LOAD: 14036.6 | CTST LOAD: 13728.1 | TEST LOAD RSLT: PASS |
| TACTV.: 0.019 | CACTV.: 0.010 | ACTV. RSLT: PASS |
| TFDRAG: 29.2 | CFDRAG: 42.0 | FDRAG RSLT: PASS |
| TFADRAG: 14.7 | CFADRAG: 25.8 | TFADRAG RSLT: PASS |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

Post Cleaning Functional Test Summary Cont.

TAG #: 3-1080

MODEL: PSA-10

A/L FTRSLT: PASS

A/L FDATE: 04/18/94

SERIAL #: 10173

TBKAWY: 15.4

CBKAWY: 27.6

BKAWY RSLT: PASS

TIDRAG: 39.4

CIDRAG: 47.9

IDRAG RSLT: PASS

TAIDRAG: 18.0

CADRAG: 15.6

AVDRAG RSLT: PASS

TTST LOAD: 13637.2

CTST LOAD: 13072.4

TEST LOAD RSLT: PASS

TACTV.: 0.017

CACTV.: 0.009

ACTV. RSLT: PASS

TFDRAG: 60.6

CFDRAG: 23.1

FDRAG RSLT: PASS

TFADRAG: 26.2

CFADRAG: 8.8

TFADRAG RSLT: PASS

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

Spare Functional Test Summary

| | | |
|--------------------|---------------------|----------------------|
| TAG #: Spare 1 | MODEL: PSA-10 | |
| A/L FTRSLT: PASS | A/L FDATE: 04/18/94 | SERIAL #: 12396 |
| TBKAWY: 15.4 | CBKAWY: 27.6 | BKAWY RSLT: PASS |
| TIDRAG: 39.4 | CIDRAG: 47.9 | IDRAG RSLT: PASS |
| TAIDRAG: 18.0 | CADRAG: 15.6 | AVDRAG RSLT: PASS |
| TTST LOAD: 13637.2 | CTST LOAD: 13072.4 | TEST LOAD RSLT: PASS |
| TACTV.: 0.017 | CACTV.: 0.009 | ACTV. RSLT: PASS |
| TFDRAG: 60.6 | CFDRAG: 23.1 | FDRAG RSLT: PASS |
| TFADRAG: 26.2 | CFADRAG: 8.8 | TFADRAG RSLT: PASS |
| TAG #: Spare 2 | MODEL: PSA-10 | |
| A/L FTRSLT: PASS | A/L FDATE: 04/18/94 | SERIAL #: 16244 |
| TBKAWY: 16.6 | CBKAWY: 34.3 | BKAWY RSLT: PASS |
| TIDRAG: 34.0 | CIDRAG: 47.7 | IDRAG RSLT: PASS |
| TAIDRAG: 14.9 | CADRAG: 31.1 | AVDRAG RSLT: PASS |
| TTST LOAD: 14313.1 | CTST LOAD: 13148.8 | TEST LOAD RSLT: PASS |
| TACTV.: 0.018 | CACTV.: 0.011 | ACTV. RSLT: PASS |
| TFDRAG: 45.8 | CFDRAG: 32.5 | FDRAG RSLT: PASS |
| TFADRAG: 29.1 | CFADRAG: 17.1 | TFADRAG RSLT: PASS |
| TAG #: Spare 3 | MODEL: PSA-3 | |
| FTRSLT: PASS | FDATE: 04/19/94 | SERIAL #: 4388 |
| TBKAWY: 16.9 | CBKAWY: 10.4 | BKAWY RSLT: PASS |
| TIDRAG: 20.8 | CIDRAG: 21.3 | IDRAG RSLT: PASS |
| TAIDRAG: 10.3 | CADRAG: 10.7 | AVDRAG RSLT: PASS |
| TTST LOAD: 5301.1 | CTST LOAD: 5378.4 | TEST LOAD RSLT: PASS |
| TACTV.: 0.011 | CACTV.: 0.008 | ACTV. RSLT: PASS |
| TFDRAG: 20.1 | CFDRAG: 21.2 | FDRAG RSLT: PASS |
| TFADRAG: 10.0 | CFADRAG: 11.2 | TFADRAG RSLT: PASS |

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

DEVIATION REPORT SUMMARY

TAG #: 3-1002

DEVIATION #: 03-TPN-93-3-1002 INT. DATE: 4/12/94 CLOSE DATE: 4/12/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. The existing bolts are 5/16" dia with 7/16" thread engagement.

DISPOSITION: ACCEPTABLE AS IS.

TAG #: 3-1003

DEVIATION #: 04-TPN-94-3-1003 INT. DATE: 4/12/94 CLOSE DATE: 4/12/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 5/16" dia. with 7/16" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1005

DEVIATION #: 02-TPN-94-3-1005 INT. DATE: 4/11/94 CLOSE DATE: 4/11/94

CONDITION: 1) Both load pins on this MSA show wear.
2) Load pin holes in holes in the structural attachment appear to be elongated approximately 1/32".

DISPOSITION: 1) Replaced load pins.
2) CR written on holes. *CR 94-292, PCM 94-041 REPLACED SNUBBERS ELONGATED REAR BRACKET.*

TAG #: 3-1006

DEVIATION #: 05-TPN-94-3-1006 INT. DATE: 4/12/94 CLOSE DATE: 4/23/94

CONDITION: 1) Load pin holes in structural attachment appear to be elongated approximately 1/16", load pin holes in the pipe attachment appear to be elongated approximately 1/32"
2) Snubber end load pin shows excessive wear.
3) Snubber could not be hand stroked.

DISPOSITION: 1 & 2) CR written
3) Stroked snubber in test bench at default pressure.
CONDITION REPORT CR 94-292 SUBMITTED. PCM 94-041. REPLACED SNUBBERS ELONGATED REAR BRACKET. SNUBBER REPLACED WITH TESTED SPARE.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1009

DEVIATION #: 06-TPN-94-3-1009 INT. DATE: 4/13/94 CLOSE DATE: 4/21/94

CONDITION: 1) Load pin holes in structural attachment appear to be elongated approximately 1/32", load pin holes in the pipe attachment appear to be elongated approximately 1/16"
2) Load pin in the strut end shows excessive wear.

DISPOSITION: 1) Replaced load pin on strut end.
2) CR written CR 94-292. PCM 94-041 REPLACED SNUBBERS
ELONGATED REAR BRACKET.

TAG #: 3-1010

DEVIATION #: 07-TPN-94-3-1010 INT. DATE: 4/13/94 CLOSE DATE: 4/21/94

CONDITION: 1) Load pin holes in structural attachment appear to be elongated approximately 1/16", load pin holes in the pipe attachment appear to be elongated approximately 1/32"
2) Load pin in the structural attachment shows excessive wear.

DISPOSITION: 1) Replaced load pin on structural end.
2) CR written CR 94-292. PCM 94-041 REPLACED SNUBBERS
ELONGATED REAR BRACKET.

TAG #: 3-1011

DEVIATION #: 08-TPN-94-3-1011 INT. DATE: 4/13/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 5/8" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1019

DEVIATION #: 09-TPN-94-3-1019 INT. DATE: 4/13/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 5/16" dia. with 1/2" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1020

DEVIATION #: 10-TPN-94-3-1020 INT. DATE: 4/13/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 5/16" dia. with 1/2" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1021

DEVIATION #: 32-TPN-94-3-1021 INT. DATE: 4/25/94 CLOSE DATE: 4/25/94

CONDITION: The "L" dimension for this MSA is 1/8" below the specified min.

DISPOSITION: No further action by Siemens. *CONDITION REPORT CR-94-491 ADDRESSED CONDITION. A CRN TO DRAWING 5613-H-599 SHT 21 SUBMITTED TO INCORPORATE THE CORRECT SNUBBER MOVEMENT AND L DIMENSION AS SPECIFIED ON CONDITION REPORT.*

TAG #: 3-1022

DEVIATION #: 30-TPN-94-3-1022 INT. DATE: 4/23/94 CLOSE DATE: 4/23/94

CONDITION: The U bolt and trapeze assembly has rotated on the pipe. The angularity is less than 6 deg. However, the snubber housing flange is in contact with the pipe insulation.

DISPOSITION: No further action by Siemens. *CONDITION REPORT CR-94-559 ADDRESSED CONDITION. PWO 94010082 REPAIRED CONDITION.*

TAG #: 3-1032

DEVIATION #: 16-TPN-94-3-1032 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: The "L" dimension for this MSA is 1/4" below the specified min.

DISPOSITION: No further action by Siemens. *CONDITION REPORT CR-94-364 ADDRESSED CONDITION. CONDITION CORRECTED PER PCM 94-043*

TAG #: 3-1039

DEVIATION #: 17-TPN-94-3-1039 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 1/2" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1040

DEVIATION #: 18-TPN-94-3-1040 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 1/2" dia. with 1/2" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1041

DEVIATION #: 19-TPN-94-3-1041 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 1/2" dia. with 5/8" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1057

DEVIATION #: 26-TPN-94-3-1057 INT. DATE: 4/19/94 CLOSE DATE: 4/21/94

CONDITION: 1) Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.
2) The pipe clamp for this MSA is rotated, The clamp is not binding on the snubber. However, the pipe insulation is torn.

DISPOSITION: 1) ACCEPTABLE AS IS
2) No further action by Siemens.

TAG #: 3-1070

DEVIATION #: 27-TPN-94-3-1070 INT. DATE: 4/19/94 CLOSE DATE: 4/21/94

CONDITION: 1) Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.
2) Two base plate anchor bolts are loose.

DISPOSITION: 1) ACCEPTABLE AS IS
2) No further action by Siemens.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1072

DEVIATION #: 29-TPN-94-3-1072 INT. DATE: 4/20/94 CLOSE DATE: 4/21/94

CONDITION: The "L" dimension for this MSA is 1/8" less than the min.

DISPOSITION: Adjusted the turnbuckle on transition tube assembly to bring the "L" dimension to 16.0".

TAG #: 3-1075

DEVIATION #: 24-TPN-94-3-1075 INT. DATE: 4/18/94 CLOSE DATE: 4/21/94

CONDITION: The "L" dimension for this MSA is less than the specified min.

DISPOSITION: No further action by Siemens. *NON CONFORMANCE REPORT
N-92-0208 ADDRESSED CONDITION, PCM 93-202 WAS
ISSUED TO CORRECT DISCREPANT CONDITION.*

TAG #: 3-1076

DEVIATION #: 25-TPN-94-3-1076 INT. DATE: 4/18/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1077

DEVIATION #: 15-TPN-94-3-1078 INT. DATE: 4/15/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 5/8" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1078

DEVIATION #: 14-TPN-94-3-1078 INT. DATE: 4/15/94 CLOSE DATE: 4/23/94

CONDITION: 1) Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 5/8" engagement. Thread engagement > 1 bolt dia.
2) Spherical bearing on strut end is dislodged 1/8".

DISPOSITION: 1) ACCEPTABLE AS IS
2) Restaked spherical bearing.

TAG #: 3-1079

DEVIATION #: 13-TPN-94-3-1079 INT. DATE: 4/15/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 5/8" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1080

DEVIATION #: 12-TPN-94-3-1080 INT. DATE: 4/15/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with snubber housing flange. Existing bolts are 1/2" dia. with 5/8" engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1091

DEVIATION #: 21-TPN-94-3-1091 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1092

DEVIATION #: 22-TPN-94-3-1092 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1093

DEVIATION #: 23-TPN-94-3-1093 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: Transition tube assembly mounting bolts are flush with the snubber housing flange. Existing bolts are 5/16" dia. with 7/16" thread engagement. Thread engagement > 1 bolt dia.

DISPOSITION: ACCEPTABLE AS IS

TAG #: 3-1094

DEVIATION #: 28-TPN-94-3-1094 INT. DATE: 4/20/94 CLOSE DATE: 4/21/94

CONDITION: This MSA could not be hand stroked.

DISPOSITION: Replaced with tested spare s/n 4388.

TAG #: 3-1101

DEVIATION #: 20-TPN-94-3-1101 INT. DATE: 4/16/94 CLOSE DATE: 4/21/94

CONDITION: During review of VT exam results it was identified that the specified "L" max. on dwg. 5613-H-671/54A R0 exceeds the maximum stroke of the MSA by 1/2".

DISPOSITION: No further action by Siemens. *CONDITION REPORT CR-94-490 ADDRESSED CONDITION. A CRN TO DRAWING 5613-H-671 SUBMITTED TO INCORPORATE THE CORRECT MOVEMENT AND L DIMENSION AS SPECIFIED ON CONDITION REPORT.*

TAG #: 3-1106

DEVIATION #: 11-TPN-94-3-1106 INT. DATE: 4/15/94 CLOSE DATE: 4/21/94

CONDITION: This snubber required more force than normal (for a PSA 1/4) to hand stroke.

DISPOSITION: Functionally tested snubber.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG #: 3-1123

DEVIATION #: 01-TPN-94-3-1123 INT. DATE: 4/8/94 CLOSE DATE: 4/23/94

CONDITION: MSA could not be hand stroked in the field.

DISPOSITION: Stroked with test bench at default pressure.

TAG #: n/a

DEVIATION #: 31 INT. DATE: 4/23/94 CLOSE DATE: 4/23/94

CONDITION: Daily velocity verification was performed on 4/14 & 4/15 using velocities outside the specified 2-3IPM.

DISPOSITION: Use As Is: Paragraphs 6.4.3 & 6.5.3 do not so specifically state that velocities given are nominal, however, the specified 2 - 3 IPM velocities are nominal velocities. Any velocity between 1 and 5 IPM is acceptable for verifying the test machines ability to calculate velocity.

FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

OVERHAUL SUMMARY

TAG#: 3-1054

Overhaul Report #: TPN-94-3-1054 Serial #: 16248

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled.

TAG#: 3-1077

Overhaul Report #: TPN-94-3-1077 Serial #: 16230

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled.

TAG#: 3-1078

Overhaul Report #: TPN-94-3-1078 Serial #: 16229

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned and evaluated. Evaluation identified that the capstan spring and capstan were severely worn. The snubber was replaced and turned over to the customer for future overhaul.



FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

TAG#: 3-1079

Overhaul Report #: TPN-94-3-1079 Serial #: 10176

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled.

TAG#: 3-1080

Overhaul Report #: TPN-94-3-1080 Serial #: 10173

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned and evaluated. Evaluation identified that the capstar spring and capstan were severely worn. The snubber was replaced and turned over to the customer for future overhaul.

TAG#: SPARE 1

Overhaul Report #: TPN-94-3-SPARE 1 Serial #: 12396

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled.

TAG#: SPARE 2

Overhaul Report #: TPN-94-3-SPARE 2 Serial #: 16244

Description: This MSA was manufactured during the time period when PSA 10 snubbers were shipped with excess grease.

Remarks: This snubber was partially disassembled (only as far as required to remove excess grease from the capstan area), cleaned, evaluated and reassembled.



FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

This completed the scope of the SPC's visual examination, functional testing and evaluation activities.

PERSONNEL AND EQUIPMENT USED:

PERSONNEL

| NAME | POSITION | FUNCTION |
|---------------|-----------------|------------------|
| M.L. Miller | Q.C. Supervisor | Q.C. & Site Lead |
| D.E. Moore | Visual Examiner | Lead VT Examiner |
| T.W. Marshall | Visual Examiner | VT Examiner |
| F.W. Musgrove | Technician | Machine Operator |
| E.R. Simmons | Technician | Test Technician |

Personnel performing examination and testing activities were qualified and certified in accordance with SPC's Quality Assurance Program. A copy of personnel certifications is provided in the Project Plan.

TEST EQUIPMENT

Equipment used in support of testing activities was calibrated in accordance with SPC's Quality Assurance Program. Copies of equipment calibration certificates are included in the Project Plan.

REFERENCES:

FPL Procedures:

| | |
|-----------------|--|
| FPL ADM 0190.83 | Mechanical Shock Arrestors Surveillance Program |
| FPL OP 0209.9 | Visual Examination of Mechanical Shock Arrestors |
| FPL ADM 0190.85 | Functional Testing of Mechanical Shock Arrestors |
| FPL 0-CMM-105.1 | Snubber Removal and Replacement |

TPN General Maintenance items for MSA

SPC Procedures:

| | |
|----------------------|--|
| SPC | Quality Assurance Manual Rev. 14 |
| SNPS-PP-3319-TPN | Project Plan |
| SNPS-CAL-1.2, REV. 1 | Daily Verification of Test Equipment |
| SNPS-EXM-1.1, REV.0 | Visual Examination of Mechanical |
| SNPS-TST-1.1, REV. 0 | Functional Testing of Pacific Scientific Mechanical Snubbers |
| SNPS-MNT-3.1, REV. 0 | Disassembly and Repair of PSA Snubbers |



FLORIDA POWER & LIGHT Co.
TURKEY POINT NUCLEAR PLANT UNIT 3
REFUELING OUTAGE 1994
SIEMENS POWER CORPORATION
FINAL REPORT

MATERIAL SUPPLIED BY FPL:

- 1) Replacement Spacer washers and load pins
- 2) Safety Wire for Forward Brackets and Transition Tube Assemblies on PSA Snubbers
- 3) Washers, retainer rings, keeper rings & NRRG 159
- 4) Spare PSA 3's, 10's & 35's

