SAN ONOFRE NUCLEAR GENERATING STATION OPERATOR SURVEILLANCE TEST S023-3-3.16.2

REVISION 1

CDM ENCODE # BE02BCTRP

EFFECTIVE DATE MAY 25 1982

AUXILIARY FEEDWATER FLOW TE'T

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AUXILIARY FEEDWATER FLOW TEST

1.0 OBJECTIVE

1.1 This test demonstrates the ability of each auxiliary feedwater pump to feed its respective Steam Generator from the primary water source (Condensate Tank T-121). This test will be run in Mode 3 after a Cold Shutdown in compliance with Reference 2.1, 4.7.1.2.2.

2.0 REFERENCES

- 2.1 Technical Specifications
- 2.2 S023-3-3.16, "Auxiliary Feedwater System Monthly Test"
- 2.3 S023-2-4, "Auxiliary Feedwater Pump Operation"

3.0 PREREQUISITES

INITIALS

3.1 This procedure has been verified up to date by checking it against a controlled copy.

2

3.2 The on-shift SRO Ops. Supv. approval must be obtained prior to conducting this test. (SRO Ops. Supv. Initials)

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3.3 Temporary Change Notices affecting this procedure have been reviewed and changes incorporated.

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3.3.1 List any applicable TCNs or use N/A.

NIA

3.4 S023-3-3.16, "Auxiliary Feedwater System Monthly Test" has been completed.

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4.0 PRECAUTIONS

4.1 During Steam Generator feedwater addition maintain Steam Generator water level between 30% and 85% narrow range.

5.0 CHECK-OFF LISTS

5.1 Not applicable.

6.0 PROCEDURE

INITIALS

- 6.1 Ensure all feedwater pump suctions are aligned to T-121 (Condensate Tank):
 - 6.1.1 S2(3)1305MU469 and S2(3)1305MU473 for P-141.(L.O.) SK
 - 6.1.2 S2(3)1305MU538 and S2(3)1305MU542 for P-504.(L.O.) 85
 - 6.1.3 S2(3)1305MU468 and S2(3)1305MU471 for P-140.(L.O.) SK

INITIALS 6.0 PROCEDURE (continued) 6.2 If both motor driven pumps P-141 and P-504 are already in service increase feedrate to S/Gs E-088 and E-089 by opening £ HV-4712 and HV-4713. Observe increase in level in S/Gs E-088 and 6.2.1 E-089. 6.3 If one auxiliary feedwater pump is being used re-align auxiliary feedwater so each motor driven pump supplies its respective 5/Cs per S023-2-4, "Auxiliary Feedwater Pump Operation" or mark N/A. Start both motor driven pumps and feed the respec-6.3.1 tive S/Gs per S023-2-4, "Auxiliary Feedwater Pump Operation", or mark N/A. Increase flow to both S/Gs E-088 and E-089 by 6.3.2 opening HV-4712 and HV-4713 or mark N/A. Observe S/Gs levels E-088 and E-089 increasing 6.3.3 or mark N/A. 6.4 When no load Tave (544°F) conditions are reached start the steam driven auxiliary feed pump P-140 per S023-2-4, "Auxiliary Feedwater Pump Operation". Observe primary temperature and steam bypass valve operation to prevent excessive cooldown. Close HV-4712 and HV-4713 while opening HV-4705 6.4.1 and HV-4706. When S/Gs are being supplied by the steam driven 6.4.2 auxiliary feedwater pump P-140 open HV-4705 and HV-4706 to increase levels. Level increase in S/Gs E-088 and E-089 has been 6.4.3 observed using the steam driven pump. Re-establish feed using the motor driven auxiliary

7.0 ACCEPTANCE CRITERIA

6.4.4

7.1 This test is considered satisfactory if each auxiliary feedwater pump has demonstrated the ability to increase level in its respective Steam Generator.

feed pumps and secure the steam driven pump per 5023-2-4, "Auxiliary Feedwater Pump Operation".

SAN ONOFRE NUCLEAR GENERATING STATION UNITS 2 & 3

OPERATOR SURVEILLANCE TEST 5023-3-3.16.2
REVISION 1 PAGE 4

7.0 ACCEPTANCE CRIT	IERIA (Cont'd)	INITIALS
7.1.1 Leve Auxi	Is in the S/Gs were increased with each liary Feedwater Pump. Yes/No Circle One	PIC
.2 If n and	o circled, refer to Reference 2.1, 3.7.1.2 list actions taken in comments section.	
COMMENTS:		
PURPOSE OF TEST:	Periodic Surveillance T.S. Action	
	Other (explain): U3 Startup	
TEST COMPLETED BY:	Operator DATE/TIME	12-1-84 /0508
TEST REVIEWED BY:	SRO Ops. Supv. DATE/TIME	12/1/1-4 0300

8.0 RECORDS

- 8.1 File completed procedure in the Surveillance Compliance File.
- 8.2 Make appropriate log entry that the surveillance test was completed.
- 8.3 Periodically transmit completed records to CDM in accordance with applicable station administrative procedures.

9.0 ATTACHMENTS

9.1 Not applicable.

H. E. MORGAN

STATION OF PATIONS MANAGER

NOTE NUCLEAR GENERATING STATION OPERATING INSTRUCTION S023-0-35 NITS 2 AND 3 REVISION 1 PAGE 1 OF

OPERATING INSTRUCTION S023-0-35
REVISION 1 PAGE 1 OF 1
ATTACHMENT 8.1
TCN 1- 3

PROCEDURE SIGNATURE SUPPLEMENT

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SAN ONOFRE NUCLEAR GENERATING STATION UNITS 2 & 3

OPERATOR SURVEILLANCE TEST 5023-3-3.16.2 REVISION 1

AUXILIARY FEEDWATER FLOW TEST

2-84

PAGE 2

OBJECTIVE 1.0

1.1. This test demonstrates the ability of each auxiliary feedwater pump to feed its respective Steam Generator from the primary water source (Condensate Tank T-121). This test will be run in Mode 3 after a Cold Shutdown in compliance with Reference 2.1, 4.7.1.2.2.

REFERENCES 2.0

- 2.1 Technical Specifications
- 2.2 S023-3-3.16, "Auxiliary Feedwater System Monthly Test"
- 2.3 S023-2-4, "Auxiliary Feedwater Pump Operation"

PREREQUISITES 3.0

- 3.1 This procedure has been verified up to date by checking it against a controlled copy.
- The on-shift SRO Ops. Supv. approval must be obtained prior to conducting this test. (SRO Ops. Supv. Initials)
- 3.3. Temporary Change Notices affecting this procedure have been reviewed and changes incorporated.
 - List any applicable TCNs or use N/A. 3.3.1

3.4 S023-3-3.16, "Auxiliary Feedwate System Monthly Test" has been completed.

PRECAUTIONS 4.0

4.1 During Steam Generator feedwater addition maintain Steam Generator water level between 30% and 85% narrow range.

CHECK-OFF LISTS 5.0

5.1 Not applicable.

PROCEDURE 6.0

Ensure all feedwater pump suctions are aligned to T-121

(Condensate Tank): \$2(3)1305MU469 and \$2(3)1305MU473 for P-141.(L.O.)

6.1.1 \$2(3)1305MU538 and \$2(3)1305MU542 for P-504.(L.O.) 5-6.1.2

\$2(3)1305MU468 and \$2(3)1305MU471 for P-140.(L.O.) 6.1.3

INITIALS

INITIALS

OPERATOR SURVEILLANCE TEST S023-3-3.16.2 REVISION 1 PAGE 3

6.0 PROCEDURE (continued)

INITIALS

6.2 If both motor driven pumps P-141 and P-504 are already in service increase feedrate to S/Gs E-088 and E-089 by opening HV-4712 and HV-4713.

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6.2.1 Observe increase in level in S/Gs E-088 and E-089.

03/

6.3 If one auxiliary feedwater pump is being used re-align auxiliary feedwater so each motor driven pump supplies its respective 5/Cs per S023-2-4, "Auxiliary Feedwater Pump _ Operation" or mark N/A.

W/A

6.3.1 Start both motor driven pumps and feed the respective S/Gs per S023-2-4, "Auxiliary Feedwater Pump Operation", or mark N/A.

MA

6.3.2 Increase flow to both S/Gs E-088 and E-089 by opening HV-4712 and HV-4713 or mark N/A.

NA

6.3.3 Observe S/Gs levels E-088 and E-089 increasing or mark N/A.

NIM

6.4 When no load Tave (544°F) conditions are reached start the steam driven auxiliary feed pump P-140 per 5023-2-4, "Auxiliary Feedwater Pump Operation".

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CAUTION: Observe primary temperature and steam bypass valve operation to prevent excessive cooldown.

6.4.1 Close HV-4712 and HV-4713 while opening HV-4705 and HV-4706.

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6.4.2 When S/Gs are being supplied by the steam driven auxiliary feedwater pump P-140 open HV-4705 and HV-4706 to increase levels.

RIL

6.4.3 Level increase in 5/Gs E-088 and E-089 has been observed using the steam driven pump.

RCL

6.4.4 Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per 5023-2-4, "Auxiliary Feedwater Pump Operation".

Rit

7.0 ACCEPTANCE CRITERIA

7.1 This test is considered satisfactory if each auxiliary feedwater pump has demonstrated the ability to increase level in its respective Steam Generator.

SAN ONOFRE NUCLEAR GENERATING STATION OPERU

CEPTANCE CRITERIA (Cont'd)

OPERATOR SURVEILLANCE TEST S023-3-3.16.2
REVISION 1 PAGE 4

INITIALS

ACCEPTANT	
7.1.1	Levels in the S/Gs were increased with each Auxiliary Feedwater Pump. Ves/No Circle One
.2	If no circled, refer to Reference 2.1, 3.7.1.2 and list actions taken in comments section.
COMMENTS:	
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PURPOSE OF TE	ST: Periodic Surveillance T.S. Action
Carlotte Carlotte	Other (explain): Mode Achenge to made 2
	ABOLLON BANK Huky
TEST COMPLETE	NATE ITTUE 4/4/84 78/4
TEST REVIEWED	SRO Ops. Supv.
	Mede 3 at 095634
8.0 RECORDS	34
8.1 F1	le completed procedure in the Surveillance Compliance File.
Charles of the section of the sectio	ke appropriate log entry that the surveillance test was completed.
8.2 Mai	ke appropriate log energ that the

8.3 Periodically transmit completed records to CDM in accordance with

applicable station administrative procedures.

9.0 ATTACHMENTS

9.1 Not applicable.

H. E. MORGAN STATION OPERATIONS MANAGER

6.0 PROCEDURE (continued)

INITIALS

SAN ONOFRE NUCLEAR UNITS 2 & 3	GENERATING STATION	OPERATOR SEREVISION 1	RVEILLANCE TE	ST 5023-3-3.16.1 PAGE 4
7.0 ACCEPTANCE CRI	TERIA (Cont'd)			INITIALS
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	o circled, refer to list actions taken			and the second s
COMMENTS:			***	
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PURPOSE OF TEST:	Periodic Surveilla	nce	T.S. Action	
	Other (explain): _	1)3	Startup.	
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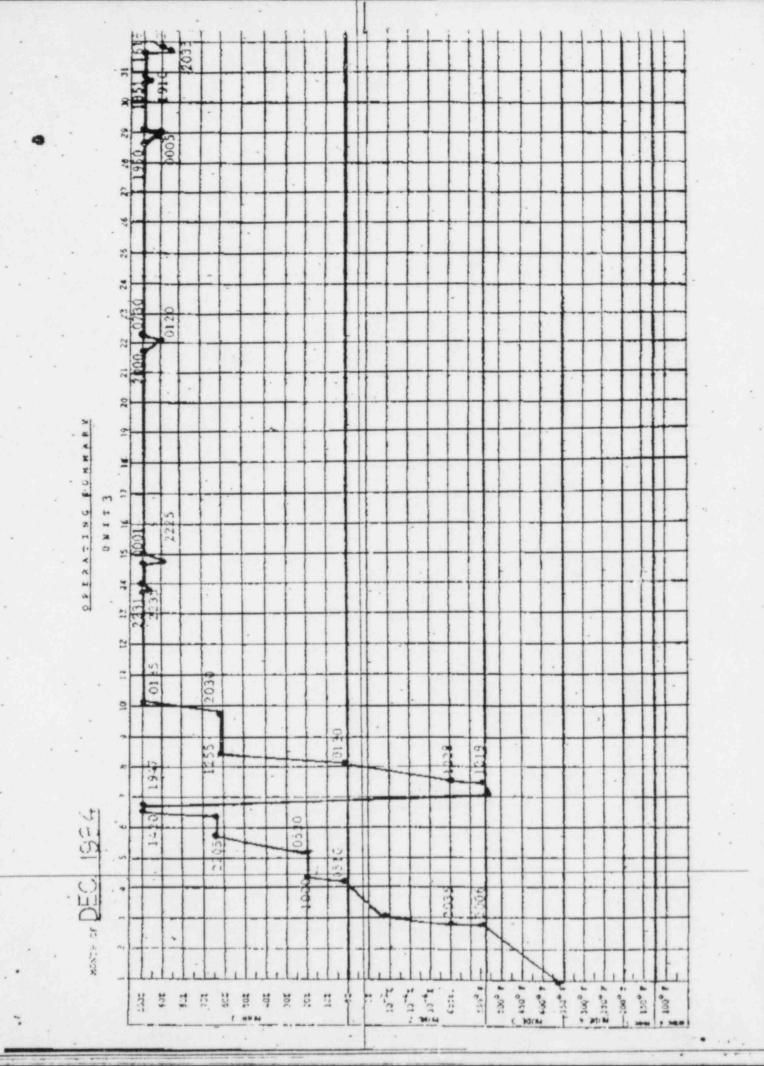
8.0 RECORDS

- 8.1 File completed procedure in the Surveillance Compliance File.
- 8.2 Make appropriate log entry that the surveillance test was completed.
- 8.3 Periodically transmit completed records to CDM in accordance with applicable station administrative procedures.

9.0 ATTACHMENTS

9.1 Not applicable.

H. E. MORGAN STATION OPERATIONS MANAGER



SAN ONOFRE NUCLEAR GENERATING STATION OPERATOR SURVEILLANCE TEST SO23-3-3.16.2 REVISION 1 CDM ENCODE # BEO2BCTRP

EFFECTIVE DATE MAY 2 5 1982

AUXILIARY FEEDWATER FLOW TEST

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OPERATOR SURVEILLANCE TEST S023-3-3.16.2 REVISION 1 PAGE 2

AUXILIARY FEEDWATER FLOW TEST

1.0 OBJECTIVE

1.1 This test demonstrates the ability of each auxiliary feedwater pump to feed its respective Steam Generator from the primary water source (Condensate Tank T-121). This test will be run in Mode 3 after a Cold Shutdown in compliance with Reference 2.1, 4.7.1.2.2.

2.0 REFERENCES

- 2.1 Technical Specifications
- 2.2 S023-3-3.16, "Auxiliary Feedwater System Monthly Test"
- 2.3 S023-2-4, "Auxiliary Feedwater Pump Operation"

3.0 PREREQUISITES

INITIALS

3.1 This procedure has been verified up to date by checking it against a controlled copy.

-2

3.2 The on-shift SRO Ops. Supv. approval must be obtained prior to conducting this test. (SRO Ops. Supv. Initials)

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3.3 Temporary Change Notices affecting this procedure have been reviewed and changes incorporated.

L

3.3.1 List any applicable TCNs or use N/A.

NIA

3.4 S023-3-3.16, "Auxiliary Feedwater System Monthly Test" has been completed.

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4.0 PRECAUTIONS

4.1 During Steam Generator feedwater addition maintain Steam Generator water level between 30% and 85% narrow range.

5.0 CHECK-OFF LISTS

5.1 Not applicable.

6.0 PROCEDURE

INITIALS

- 6.1 Ensure all feedwater pump suctions are aligned to T-121 (Condensate Tank):
 - 6.1.1 S2(3)1305MU469 and S2(3)1305MU473 for P-141.(L.O.)
 - 6.1.2 S2(3)1305MU538 and S2(3)1305MU542 for P-504.(L.O.) 81
 - 6.1.3 \$2(3)1305MU468 and \$2(3)1305MU471 for P-140.(L.O.)

OPERATOR SURVEILLANCE TEST S023-3-3.16.2 PAGE 3 REVISION 1

INITIALS 6.0 PROCEDURE (continued) 6.2 If both motor driven pumps P-141 and P-504 are already in service increase feedrate to S/Gs E-088 and E-089 by opening L HV-4712 and HV-4713. Observe increase in level in S/Gs E-088 and 6.2.1 E-089. 6.3 If one auxiliary feedwater pump is being used re-align auxiliary feedwater so each motor driven pump supplies its respective S/Cs per S023-2-4, "Auxiliary Feedwater Pump Operation" or mark N/A. Start both motor driven pumps and feed the respec-6.3.1 tive S/Gs per S023-2-4, "Auxiliary Feedwater Pump Operation", or mark N/A. Increase flow to both S/Gs E-088 and E-089 by 6.3.2 opening HV-4712 and HV-4713 or mark N/A. Observe S/Gs levels E-088 and E-089 increasing 6.3.3 or mark N/A. 6.4 When no load Tave (544°F) conditions are reached start the steam driven auxiliary feed pump P-140 per S023-2-4, "Auxiliary Feedwater Pump Operation". Observe primary temperature and steam bypass valve CAUTION: operation to prevent excessive cooldown. Close HV-4712 and HV-4713 while opening HV-4705 6.4.1 and HV-4706. When S/Gs are being supplied by the steam driven 6.4.2 auxiliary feedwater pump P-140 open HV-4705 and HV-4706 to increase levels. Level increase in S/Gs E-088 and E-089 has been 6.4.3 observed using the steam driven pump. Re-establish feed using the motor driven auxiliary

7.0 ACCEPTANCE CRITERIA

6.4.4

7.1 This test is considered satisfactory if each auxiliary feedwater pump has demonstrated the ability to increase level in its respective Steam Generator.

feed pumps and secure the steam driven pump per 5023-2-4, "Auxiliary Feedwater Pump Operation".

OPERATOR SURVEILLANCE TEST 5023-3-3.16.2 SAN ONOFRE NUCLEAR GENERATING STATION PAGE 4 REVISION 1 UNITS 2 & 3 INITIALS 7.0 ACCEPTANCE CRITERIA (Cont'd) Levels in the S/Gs were increased with each Auxiliary Feedwater Pump. If no circled, refer to Reference 2.1, 3.7.1.2 and list actions taken in comments section. COMMENTS: PURPOSE OF TEST: Periodic Surveillance _____ T.S. Action ____ Other (explain): U3 Startup

TEST COMPLETED BY: ALGO SEE SUPRIMENT Operator

DATE/TIME 12.1-84 /0200

TEST REVIEWED BY:

DATE/TIME 12/1/14 0300

8.0 RECORDS

- 8.1 File completed procedure in the Surveillance Compliance File.
- 8.2 Make appropriate log entry that the surveillance test was completed.
- 8.3 Periodically transmit completed records to CDM in accordance with applicable station administrative procedures.

9.0 ATTACHMENTS

9.1 Not applicable.

STATION OPERATIONS MANAGER

N UNOFRE NUCLEAR GENERATING STATION .NITS 2 AND 3

OPERATING INSTRUCTION S023-0-35
REVISION 1 PAGE 1 OF 1
ATTACHMENT 8.1
TCN 1-3

PROCEDURE SIGNATURE SUPPLEMENT

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SAN ONOFRE NUCLEAR GENERATING STATION UNITS 2 & 3

OPERATOR SURVEILLANCE TEST S023-3-3.16.2
REVISION 1 PAGE 2

AUXILIARY FEEDWATER FLOW TEST

J3 3-2-84

1.0 OBJECTIVE

1.1 This test demonstrates the ability of each auxiliary feedwater pump to feed its respective Steam Generator from the primary water source (Condensate Tank T-121). This test will be run in Mode 3 after a Cold Shutdown in compliance with Reference 2.1, 4.7.1.2.2.

.2.0 REFERENCES

- 2.1 Technical Specifications
- 2.2 S023-3-3.16, "Auxiliary Feedwater System Monthly Test"
- 2.3 S023-2-4, "Auxiliary Feedwater Pump Operation"

3.0 PREREQUISITES

3.1 This procedure has been verified up to date by checking it against a controlled copy.

3.2 The on-shift SRO Ops. Supv. approval must be obtained prior to conducting this test. (SRO Ops. Supv. Initials)

3.3. Temporary Change Notices affecting this procedure have been reviewed and changes incorporated.

3.3.1 List any applicable TCNs or use N/A.

3.4 S023-3-3.16, "Auxiliary Feedwater System Monthly Test" has been completed.

4.0 PRECAUTIONS

4.1 During Steam Generator feedwater addition maintain Steam Generator water level between 30% and 85% narrow range.

5.0 CHECK-OFF LISTS

5.1 Not applicable.

6.0 PROCEDURE

INITIALS

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- 6.1 Ensure all feedwater pump suctions are aligned to T-121 (Condensate Tank):
 - 6.1.1 S2(3)1305MU469 and S2(3)1305MU473 for P-141.(L.O.)____
 - 6.1.2 52(3)1305MU538 and 52(3)1305MU542 for P-504.(L.O.)
 - 6.1.3 52(3)1305MU468 and S2(3)1305MU471 for P-140.(L.O.)

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SAN ONOFRE NUCLEAR GENERATING STATION UNITS 2 & 3

OPERATOR SURVEILLANCE TEST S023-3-3,16,2 PAGE 3 REVISION 1

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INITIALS 6.0 PROCEDURE (continued) 6.2 If both motor driven pumps P-141 and P-504 are already in service increase feedrate to S/Gs E-088 and E-089 by opening HV-4712 and HV-4713. Observe increase in level in S/Gs E-088 and 6.2.1 If one auxiliary feedwater pump is being used re-align auxiliary feedwaten so each motor driven pump supplies its respective 5/Cs per 5023-2-4, "Auxiliary Feedwater Pump Operation" or mark N/A. 6.3.1 Start both motor driven pumps and feed the respec-tive S/Gs per S023-2-4, "Auxiliary Feedwater Pump Operation", or mark N/A. Increase flow to both S/Gs E-088 and E-089 by opening HV-4712 and HV-4713 or mark N/A. Observe S/Gs levels E-088 and E-089 increasing 6.3.3 or mark N/A. When no load Tave (544°F) conditions are reached start the steam driven auxiliary feed pump P-140 per 5023-2-4, "Auxiliary Feedwater Pump Operation". Observe primary temperature and steam bypass valve operation to prevent excessive cooldown. Close HV-4712 and HV-4713 while opening HV-4705 and HV-4706. When S/Gs are being supplied by the steam driven auxiliary feedwater pump P-140 open HV-4705 and HV-4706 to increase levels. Level increase in 5/Gs E-088 and E-089 has been Relobserved using the steam driven pump. Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per

ACCEPTANCE CRITERIA

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7.1 This test is considered satisfactory if each auxiliary feedwater pump has demonstrated the ability to increase level in its respective Steam Generator.

5023-2-4, "Auxiliary Feedwater Pump Operation",

OPERATOR SURVEILLANCE TEST S023-3-3.16.2 SAN ONOFRE NUCLEAR GENERATING STATION PAGE 4 REVISION 1 UNITS 2 & 3 INITIALS 7.0 ACCEPTANCE CRITERIA (Cont'd) Levels in the S/Gs were increased with each 7.1.1 Auxiliary Feedwater Pump. If no circled, refer to Reference 2.1, 3.7.1.2 and list actions taken in comments section. COMMENTS: T.S. Action Periodic Surveillance PURPOSE OF TEST: Other (explain): Mod.

DATE/TIME 3/9/14 11/7

Mede 3 at 0956;

8.0 RECORDS

- 8.1 File completed procedure in the Surveillance Compliance File.
- 8.2 Make appropriate log entry that the surveillance test was completed.
- 8.3 Periodically transmit completed records to CDM in accordance with applicable station administrative procedures.

9.0 ATTACHMENTS

9.1 Not applicable.

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STATION OPERATIONS MANAGER