

SAN ONOFRE NUCLEAR GENERATING STATION
UNITS 2 & 3

12-1-84
0208
OPERATOR SURVEILLANCE TEST S023-3-3.16.2
REVISION 1
CDM ENCODE # BE02BCTRP

EFFECTIVE DATE MAY 25 1982

AUXILIARY FEEDWATER FLOW TEST

TABLE OF CONTENTS

SECTION

1.0 OBJECTIVE
2.0 REFERENCES
3.0 PREREQUISITES
4.0 PRECAUTIONS
5.0 CHECK-OFF LISTS
6.0 PROCEDURE
7.0 ACCEPTANCE CRITERIA
8.0 RECORDS
9.0 ATTACHMENTS

PAGE

2
2
2
2
2
2
3
4
4

LIST OF EFFECTIVE PAGES

PAGE NO.

REVISION NO.

1 - 4

1

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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

- 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.

INITIALS

LP

EO

L

N/A

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

EO

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

- 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.) SK
6.1.3 S2(3)1305MU468 and S2(3)1305MU471 for P-140.(L.O.) SK

INITIALS

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.

L

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

L

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

NA

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.

NA

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.

NA

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".

RAC

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.

RAC

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.

RAC

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

RAC

6.4.4 Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per S023-2-4, "Auxiliary Feedwater Pump Operation".

RAC

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.

7.0 ACCEPTANCE CRITERIA (Cont'd)

INITIALS

- 7.1.1 Levels in the S/Gs were increased with each
Auxiliary Feedwater Pump.

Yes/No
Circle One

RAC

- .2 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: _____

ALSO SEE SUPPLEMENT Operator

DATE/TIME 12-1-84 / 0208

TEST REVIEWED BY: _____

ED Ory
SRO Ops. Supv.

DATE/TIME 12/1/84 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

H. E. MORGAN
STATION OPERATIONS MANAGER

AFFECTED PROCEDURE: SO 23 - 3 - 3.14.2 REVISION 1
CHECK-OFF LIST NUMBER: REVISION
This is sheet 1 of 1.

VERIFIED BY: OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
OPERATOR/INIT DATE/TIME _____

VERIFIED BY: OPERATOR/INIT DATE/TIME

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VERIFIED BY: OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
 OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
OPERATOR/INIT DATE/TIME

AUXILIARY FEEDWATER FLOW TEST

U3 P
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.

INITIALS

[Signature]

DJT

[Signature]

N/A

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

[Signature]

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

- 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.)

6.1.3 S2(3)1305MU468 and S2(3)1305MU471 for P-140.(L.O.)

INITIALS

[Signature]

[Signature]

[Signature]

[Signature]

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.

OK

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

OK

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

N/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.

N/A

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.

N/A

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

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".

OK

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.

AOB

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.

RCH

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

RCH

6.4.4 Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per S023-2-4, "Auxiliary Feedwater Pump Operation".

RCH

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.

7.0 ACCEPTANCE CRITERIA (Cont'd)

INITIALS

- 7.1.1 Levels in the S/Gs were increased with each
Auxiliary Feedwater Pump.

Yes/No
Circle One

RW

- 2 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): Mode A change to mode 2

TEST COMPLETED BY:

Robert L. Nease
Operator

DATE/TIME

3/4/84 1814
3/4/84 1816

TEST REVIEWED BY:

Turner
SRO Ops. Supv.

DATE/TIME

3/9/84 1817

Mode 3 at 0956 3/4/85

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

H. E. MORGAN
STATION OPERATIONS MANAGER

RHM/pf
NUS:230006

6.0 PROCEDURE (continued)

INITIALS

SAN ONOFRE NUCLEAR GENERATING STATION
UNITS 2 & 3

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

7.0 ACCEPTANCE CRITERIA (Cont'd)

INITIALS

- 7.1.1 Levels in the S/Gs were increased with each
Auxiliary Feedwater Pump.

Yes/No
Circle One

PK

- 2 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): 1) 3 Startup

TEST COMPLETED BY: John A. Lamon
ALSO SEE SUPPLEMENT Operator

DATE/TIME 12-1-84 1020G

TEST REVIEWED BY: EO Day
SRO Ops. Supv.

DATE/TIME 12/1/84 0302

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

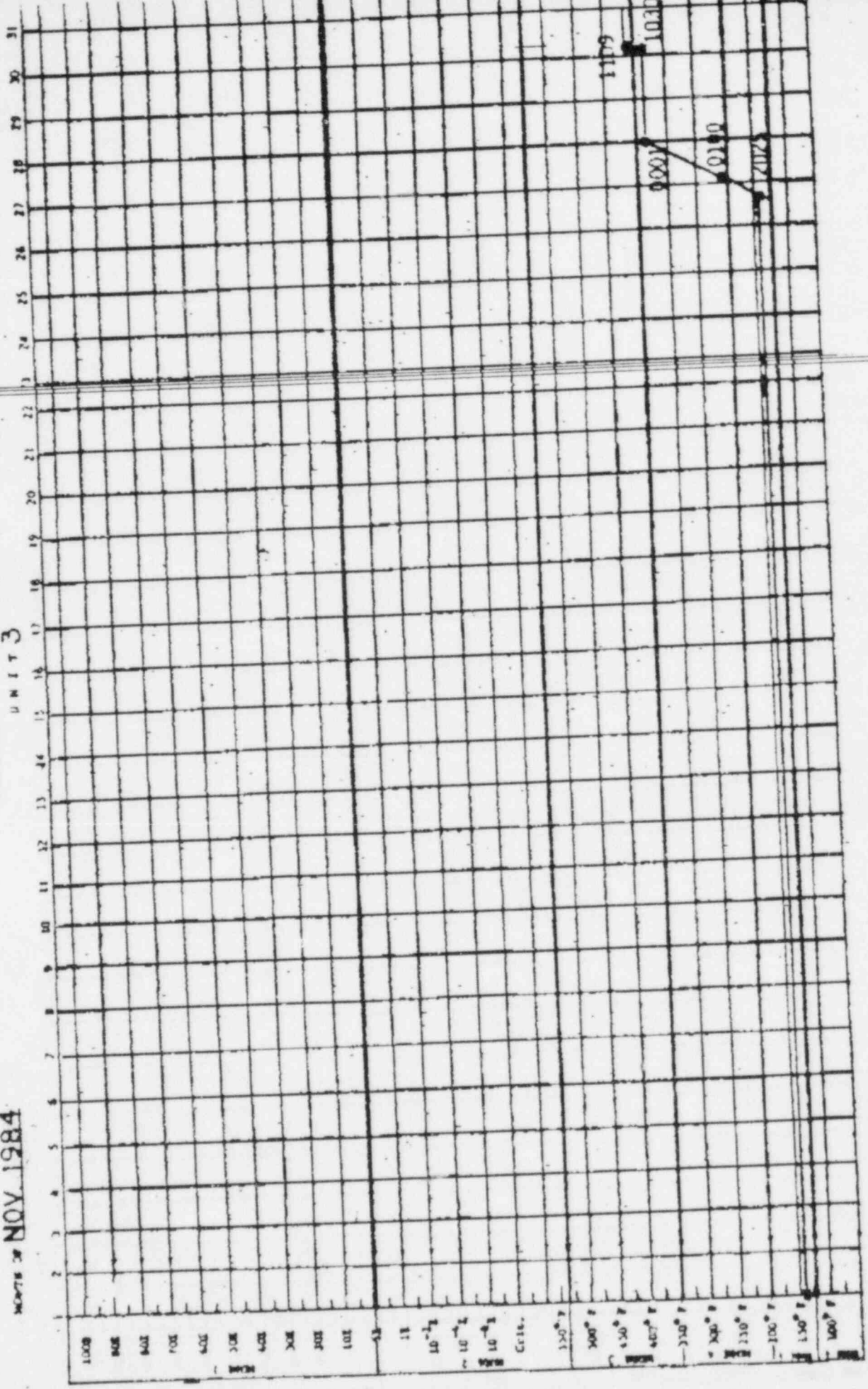
H. E. MORGAN
STATION OPERATIONS MANAGER

OPERATIONS UNIT 3
MONTHLY ON-SITE SAFETY REVIEW
COMMITTEE REPORT - NOVEMBER 1984

OPERATING SUMMARY

UNIT 3

MONTHS OF NOV. 1984



SAN ONOFRE NUCLEAR GENERATING STATION
UNITS 2 & 3

12-1-84
0208

OPERATOR SURVEILLANCE TEST S023-3-3.16.2
REVISION 1
CDM ENCODE # BE02BCTRP

EFFECTIVE DATE MAY 25 1982

AUXILIARY FEEDWATER FLOW TEST

TABLE OF CONTENTS

SECTION

1.0 OBJECTIVE
2.0 REFERENCES
3.0 PREREQUISITES
4.0 PRECAUTIONS
5.0 CHECK-OFF LISTS
6.0 PROCEDURE
7.0 ACCEPTANCE CRITERIA
8.0 RECORDS
9.0 ATTACHMENTS

PAGE

2
2
2
2
2
2
3
4
4

LIST OF EFFECTIVE PAGES

PAGE NO.

REVISION NO.

1 - 4

1

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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

- 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.

INITIALS

EL

EO

L

N/A

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

EO

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.) SK
6.1.3 S2(3)1305MU468 and S2(3)1305MU471 for P-140. (L.O.) SK

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.

L

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

L

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

NA

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.

NA

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.

NA

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".

RAC

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.

RAC

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.

RAC

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

RAC

6.4.4 Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per S023-2-4, "Auxiliary Feedwater Pump Operation".

RAC

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.

7.0 ACCEPTANCE CRITERIA (Cont'd)

INITIALS

- 7.1.1 Levels in the S/Gs were increased with each
Auxiliary Feedwater Pump.

Yes/No
Circle One

RAC

- .2 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): 03 Startup

TEST COMPLETED BY:

John A. Lerner
ALSO SEE SUPPLEMENT Operator

DATE/TIME 12-1-84 1020G

TEST REVIEWED BY:

ED Day
SRO Ops. Supv.

DATE/TIME 12/1/84 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

H. E. MORGAN
STATION OPERATIONS MANAGER

PROCEDURE SIGNATURE SUPPLEMENT

AFFECTED PROCEDURE: SO 2.3 - 3 - 3.16.2 REVISION 1
CHECK-OFF LIST NUMBER: REVISION
This is sheet 1 of 1

PERFORMED BY: [Signature] 12-1-84
OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
OPERATOR/INIT DATE/TIME

PERFORMED BY: [Signature] 12-1-84
OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
OPERATOR/INIT DATE/TIME

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PERFORMED BY: _____
OPERATOR/INIT DATE/TIME

VERIFIED BY: _____
OPERATOR/INIT DATE/TIME

AUXILIARY FEEDWATER FLOW TEST

U3

P
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 Qps. 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.

INITIALS

DT

DJT

B

N/A

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

SW

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.)

2

6.1.2 S2(3)1305MU538 and S2(3)1305MU542 for P-504. (L.O.)

SW

6.1.3 S2(3)1305MU468 and S2(3)1305MU471 for P-140. (L.O.)

2

B

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.

6.2.1 Observe increase in level in S/Gs E-088 and 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/Gs per S023-2-4, "Auxiliary Feedwater Pump - Operation" or mark N/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.

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.

6.3.3 Observe S/Gs levels E-088 and E-089 increasing 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".

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.

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.

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

6.4.4 Re-establish feed using the motor driven auxiliary feed pumps and secure the steam driven pump per S023-2-4, "Auxiliary Feedwater Pump Operation".

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.

7.0 ACCEPTANCE CRITERIA (Cont'd)

INITIALS

- 7.1.1 Levels in the S/Gs were increased with each
Auxiliary Feedwater Pump.

Yes/No
Circle One

RW

- 2 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): Mode A change to mode 2

TEST COMPLETED BY:

Robert L. Huggins
Operator

DATE/TIME

3/4/84 1814
3/4/84 1816

TEST REVIEWED BY:

Turner
SRO Ops. Supv.

DATE/TIME

3/9/84 1817

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

H. E. MORGAN
STATION OPERATIONS MANAGER