## PSEG NUCLEAR L.L.C. SALEM/OPERATIONS

S2.OP-ST.AF-0007(Q) - REV. 20

#### INSERVICE TESTING AUXILIARY FEEDWATER VALVES MODE 3

|     |                           |    |                        |                        | T |
|-----|---------------------------|----|------------------------|------------------------|---|
| USE | CA                        | TE | CO                     | $\mathbf{D}\mathbf{V}$ | 1 |
| UOL | $\mathbf{L}_{\mathbf{A}}$ | ıı | $\mathbf{u}\mathbf{v}$ | $\mathbf{I}$           | _ |

- ♦ Biennial Review Performed: Yes\_\_\_ No √
- ♦ Change Packages and affected document numbers incorporated into this revision: None
- ♦ OTSC(s) incorporated into this revision: None
- ♦ OPEX(s) incorporated into this revision: None

#### **REVISION SUMMARY:**

- ♦ The following changes are considered editorial in nature as described in AD-AA-101 as previously approved in other AFW procedures. (70103182)
- 1. 2.1 Updated second bulleted step to include the new permanently installed Controlotron 1010 flow measurement device.
- 2. 3.5 Added Precaution and Limitation to state that the Controlotron 1010 needs to be zeroed only if it does not display a "0" indication.
- 3. 5.1.5 Added step to check for "0" indication and to direct maintenance to zero the Controlotron if "0" is not displayed.
- 4. 5.1.25 Added step that if the Panametrics flow measurement device was used, then to direct maintenance to remove the Panametrics.
- 5. 7.6.2 Updated reference to SC.IC-DC.ZZ-0003(Q), Controlotron Model 960, 990 and 1010 Flow Computer Zero Adjustment.
- 6. Attachment 1, Section 5.0 Updated reference to SC.IC-DC.ZZ-0003(Q), Controlotron Model 960, 990 and 1010 Flow Computer Zero Adjustment.
- 7. Attachment 1, Section 4.0 Added additional identifier nomenclature to Temporary Test Equipment Installation Point to ensure the test point is properly identified.

#### **IMPLEMENTATION REQUIREMENTS:**

Effective Date

12/23/09

♦ None

#### 1.0 **PURPOSE**

Performance of this procedure is used to partially satisfy the requirements of Technical Specifications 4.0.5 various valves associated with the Auxiliary Feedwater System. This requirement is applicable in Modes 1-3.

[C0265]

Performance of this procedure satisfies the full flow test requirements for the 23 Auxiliary Feed Pump per the requirements of NLR-N89196. This requirement is applicable in Modes 1-3.

[C0600]

1.3 Performance of this procedure is required during each Refueling Outage or as otherwise specified for post-maintenance operational retest requirements. IAW ER-AA-321, Administrative Requirements for Inservice Testing, the procedure may be required following a Cold Shutdown, if NOT performed in the last 92 days.

(70038509)

1.4 This procedure is performed in Mode 3 with RCS Tavg <543°F and S/G pressure >680 psig.

#### 2.0 PREREQUISITES

| 2.1 | The fol | lowing | g test equipment setup and preparation may be performed in any Mode:   |
|-----|---------|--------|--|
|     | •       | Data   | SURE Qualified Individual is available to perform Vibration Collection of 23 Auxiliary Feedwater Pump utilizing bration Data Collector |
|     | •       |        | SURE Maintenance is available to zero either of the 2 flow instruments listed, quired:   |
|     |         | •      | SC.IC-DC.ZZ-0003(Q), Controlotron Model 960, 990 and 1010 Flow Computer Zero Adjustment.   |
|     |         |        | <u>OR</u>  |
|     |         | •      | SC.IC-GP.ZZ-0177(Q). Panametrics Flow Instrument Data Procedure.   |

♦ Direct a Qualified Individual to **PERFORM** the following:

ENSURE the outlets used for powering test equipment, such as Controlotrons / Panametrics, are "live" by plugging in the proper voltage electrical device, such as a drop light.

PROGRAM the Vibration Data Collector to record 23 Auxiliary Feedwater pump vibration.

[C0600]

RECORD calibration Data for the M&TE and Vibration Data
 Collection Equipment listed in Attachment 1, Section 3.0 and 4.0. [C0289]

• **INSTALL** temporary test equipment as specified in Attachment 1, Section 4.0.

|     | 3.6  | 23 AF Pump should <u>NOT</u> exceed 4000 rpm.  |
|-----|------|--|
|     | 3.7  | DO NOT operate 23 AF Pump if suction pressure is <8.0 psig.  |
|     | 3.8  | Governor Oil Reservoir level must remain observable in sightglass during performance of this procedure.  |
| ĪST | 3.9  | <u>IF</u> substitution of Measuring and Test Equipment (M&TE) is required,<br><u>THEN</u> the IST Implementation Engineer has specified range, accuracy and documented substitution in the Comments Section of Attachment 4.                             |
|     | 3.10 | 21 and 22 Auxiliary Feedwater Pumps should be OPERABLE during performance of this surveillance.  |
| —   | 3.11 | IF 23 Auxiliary Feedwater Pump is tripped (MS52) during restoration, THEN requirements of Technical Specification 3.7.1.2 are applicable.  |
|     | 3.12 | 22 Blowdown tank will spill over into 23 Aux Feed Pump Turbine Steam Header Drain Line at ≈91.6% (66") level. Line will fill with water and present backpressure problems for drains affecting turbine performance.                                      |
|     | 3.13 | Motor driven Auxiliary Feedwater Pumps should be out of service when data is to be obtained. With the motor driven Auxiliary Feedwater Pumps inservice the flow is the sum of the flow from the motor driven and steam driven auxiliary feedwater pumps. |

#### 4.0 EQUIPMENT/MATERIAL REQUIRED

#### 4.1 Additional Tools and Equipment:

- ♦ Vibration Data Collector
- ♦ Triaxial Accelerometer
- ♦ Calibrated Stopwatch
- One (1) Heise Gauge or equivalent, range 0-60/0-100 psig, accuracy  $\pm 0.1\%$  of full scale and uncertainty factor of  $\pm 0.06$  psig or better.
- One (1) Heise Gauge or equivalent, range 0-3000 psig, accuracy  $\pm 0.1\%$  of full scale and uncertainty factor of  $\pm 3.0$  psig or better.

#### 4.2 **Procedure(s)**:

♦ S2.RA-ST.AF-0007(Q), Inservice Testing - Auxiliary Feedwater System Mode 3 Acceptance Criteria, if applicable

| 5.1.6     | IF a Panametrics is to be used in place of Controlotron, THEN direct Maintenance Technician to:                                    |
|-----------|--|
|           | A. INSTALL Panametrics Flow Instrument.  |
|           | B. <b>PERFORM</b> Panametrics Flow Instrument Data adjustment IAW SC.IC-GP.ZZ-0177(Q), Panametrics Flow Instrument Data Procedure. |
|           | C. <b>RECORD</b> Panametrics calibration data <u>AND</u> completion data in Attachment 1, Section 5.0.                             |
| <br>5.1.7 | START 23 Auxiliary Feedwater Pump IAW S2.OP-SO.AF-0001(Q), Auxiliary Feedwater System Operation.                                   |

#### **NOTE**

The recommended Steam Generator NR level band is 24% to 54%. (P&L 3.2)

#### **CAUTION**

The following steps supply Steam Generators with full Aux Feedwater flow. Any Steam Generator Level exceeding 67% will cause an ESF Actuation for Turbine Trip and Feedwater Isolation.

23 Auxiliary Feedwater Pump should be stopped if any SG NR Level is ≥55% (70067944)

| <br>5.1.8   |    | RFORM the following to exercise Check Valve 21AF921 e full-stroke OPEN position:   |
|-------------|----|--|
|             | A. | ADJUST 21AF11, STEAM GENERATOR INLET VALVE, to obtain ≥11E04 lbm/hr indicated on 2FA5751, 21 S/G AUX FEED FLOW.                          |
| *           | B. | <b>RECORD</b> 21AF921 OPEN "Test Results" by initialing the SAT or UNSAT columns using Acceptance Criteria in Attachment 2, Section 1.0. |
| <del></del> | C. | ADJUST 21AF11, STEAM GENERATOR INLET VALVE, as required, to maintain 21 Steam Generator level.   |

#### **NOTE**

The recommended Steam Generator NR level band is 24% to 54%. (P&L 3.2)

#### CAUTION

4000 RPM should not be exceeded as turbine damage may result.

The following steps supply Steam Generators with full Aux Feedwater flow. Any Steam Generator Level exceeding 67% will cause an ESF Actuation for Turbine Trip and Feedwater Isolation.

23 Auxiliary Feedwater Pump should be stopped if any SG NR Level is ≥55%. (70067944)

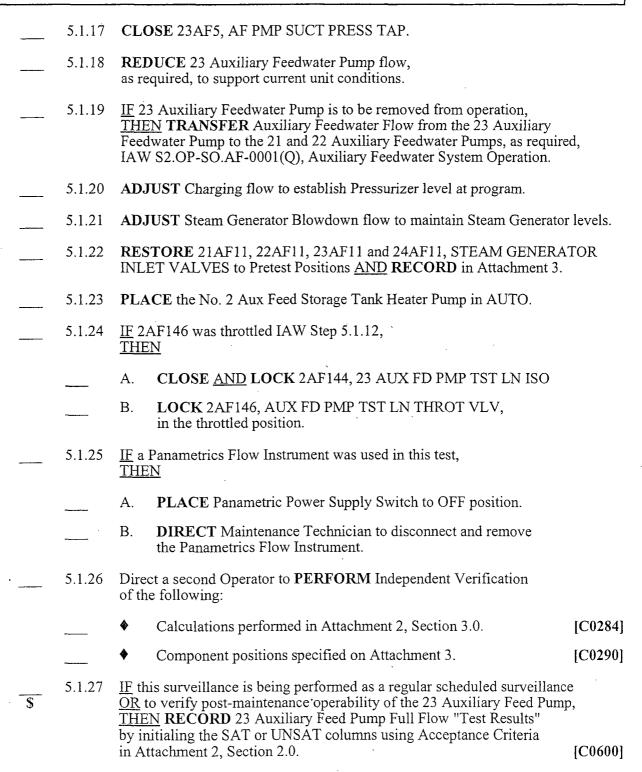
Additional steam flow during 23 Auxiliary Feedwater Pump operation and feeding Steam Generators at ≥44E04 lbm/hr will cooldown the RCS. Pzr Lvl should be maintained between 30-53% to prevent Letdown Isolation during testing.

Values outside of those listed in the acceptable range of S2.RA-ST.AF-0007(Q), for Pump Total Flow Rate, do not necessarily make the pump inoperable, but do invalidate the performance of the procedure.

| _ | 5.1.12 | Simultaneously <b>PERFORM</b> the following to establish 44.5E04 lbm/hr Full Flow Performance conditions:   |
|---|--------|---|
|   |        | ♦ ADJUST speed to 3600 (3550-3650) rpm as indicated by 2SA5740.   |
|   |        | ♦ ADJUST 21-24AF11, as necessary, to obtain a S/G Total Aux Feed Flow rate of 44.5E04 lbm/hr (44.1E04 - 44.9E04 lbm/hr) as indicated on 2FA5751, 2FA5752, 2FA5753 and 2FA5754:        |
|   |        | ♦ ENSURE Pump Total Flow Rate is within the Acceptable Range as shown in S2.RA-ST.AF-0007(Q).   |
|   |        | ◆ <u>IF Pump Total Flow Rate is NOT</u> within the Acceptable Range, <u>THEN</u> <b>RE-ADJUST</b> S/G Total Aux Feed Flow rate until Pump Total Flow Rate is in the Acceptable Range. |
|   |        | ♦ <u>IF Pump Total Flow Rate is NOT</u> within the Acceptable Range, after re-adjustment of S/G Total Aux Feed Flow rate,   |
|   |        | 1. UNLOCK AND OPEN 2AF144, 23 AUX FD PMP TST LN ISO.  |
|   |        | 2. UNLOCK AND THROTTLE 2AF146, 23 AUX FD PMP TST LN THROT VLV, as necessary, to attain S/G Total Aux Feed Flow rate   |

#### NOTE

Steps 5.1.17 through 5.1.26 maybe performed concurrently with step 5.1.16



| 5.3 | Comple | mpletion and Review |   |   |  |  |  |  |
|-----|--------|---------------------|---|---|--|--|--|--|
|     | 5.3.1  |                     | COMPLETE Attachment 4, Sections 1.0 and 2.0,  AND FORWARD this procedure to the SM/CRS. |   |  |  |  |  |
|     | 5.3.2  | SM/                 | CRS PI  | ERFORM the following:   |  |  |  |  |
|     |        | A.                  |   | <b>REVIEW</b> this procedure with Attachments 1-4 for completeness and accuracy.  |  |  |  |  |
|     |        | B.                  | param   | IF all pump Technical Specification Acceptance Criteria (ASME) parameters are SAT <u>AND</u> in the ACCEPTABLE RANGE, <u>THEN</u> <b>DECLARE</b> Pump OPERABLE. |  |  |  |  |
|     |        | C.                  | param   | <u>IF</u> ANY pump Technical Specification Acceptance Criteria (ASME) parameter is UNSAT, in the REQUIRED ACTION RANGE, <u>THEN</u> :                           |  |  |  |  |
|     |        |                     | <b>♦</b>  | DECLARE pump inoperable.  |  |  |  |  |
|     |        |                     | <b>♦</b>  | EVALUATE Technical Specifications for system operability.   |  |  |  |  |
|     |        |                     | <b>♦</b>  | <b>INITIATE</b> a NOTF IAW LS-AA-120, Issue Identification and Screening Process.   |  |  |  |  |
|     | •      |                     | <b>*</b>  | RECORD NOTF number(s) on Attachment 4 in the Comments Section.  |  |  |  |  |

(step continued on next page)

#### 6.0 **RECORDS**

Retain the following IAW RM-AA-101, Records Management Program:

- ♦ Attachment 1
- ♦ Attachment 2
- ♦ Attachment 3
- ♦ Attachment 4
- ♦ Copy of S2.RA-ST.AF-0007(Q), Inservice Testing Auxiliary Feedwater System Mode 3 Acceptance Criteria (as applicable)
- ♦ 23 Auxiliary Feed Pump Vibration Analyzer Printout

#### 7.0 **REFERENCES**

#### 7.1 **Updated Final Safety Analysis Report**:

- ♦ Section 10.4.7.2, Auxiliary Feedwater System
- ♦ Section 15.2.8, Loss of Normal Feedwater

#### 7.2 <u>Technical Specifications - Unit 2</u>:

- ♦ 3.7.1.2, Auxiliary Feedwater System
- ♦ 3.7.1.3, Auxiliary Feed Storage Tank

#### 7.3 **Procedures**:

- ♦ ER-AA-321, Administrative Requirements for Inservice Testing
- ♦ NC.NA-AP.ZZ-0050(O), Station Testing Program
- ♦ NC.NA-AP.ZZ-0022(Q), Measuring & Test Equipment, Lifting & Rigging and Tool Control

#### 7.4 **Drawings**:

205336, Unit 2 Auxiliary Feedwater

#### 7.5 Others:

- ♦ DE-CB.AF-0010(Q), Configuration Baseline Document for Auxiliary Feedwater System
- ♦ Section XI of ASME Boiler and Pressure Vessel Code (1983 Edition with Addenda through Summer 1983)
- ♦ OMa-6, Inservice Testing of Pumps in Light-Water Reactor Power Plants (1987 Edition with 1988 Addenda)
- ♦ Salem Generating Station IST Manual
- ♦ NUREG-1482, Guidelines for Inservice Testing at Nuclear Power Plants

# ATTACHMENT 1 INSTRUMENTATION AND TEST EQUIPMENT DATA (Page 1 of 3)

### 1.0 WORK ORDER DATA

| SAP Order Number(s): | Reason for Test Scheduled Surveillance Post-Maintenance Operability |
|----------------------|---|
|                      | Establish New Baseline Data Other (Explain in Comments)             |

#### 2.0 <u>INSTRUMENT/TEST EQUIPMENT</u>

| Instrument/ Test<br>Equipment | Description                        | Calibration Initia |  |
|-------------------------------|------------------------------------|--------------------|--|
| 2FA3969                       | * 21 S/G AFW Flow / Channel        |                    |  |
| 2FA1087                       | 21 S/G AFW Flow / Sensor           |                    |  |
| 2FA3970                       | * 22 S/G AFW Flow / Channel        |                    |  |
| 2FA1091                       | 2FA1091 22 S/G AFW Flow / Sensor   |                    |  |
| 2FA3971                       | FA3971 * 23 S/G AFW Flow / Channel |                    |  |
| 2FA1095                       | 95 23 S/G AFW Flow / Sensor        |                    |  |
| 2FA3972                       | * 24 S/G AFW Flow / Channel        |                    |  |
| 2FA1097                       | 7 24 S/G AFW Flow / Sensor         |                    |  |
| 2SA5740                       | 23 AFW Pump Speed Indication       |                    |  |
| 2SA5961                       | 23 AFW Pump Speed Demand Ind.      |                    |  |

<sup>\*</sup> Calibration of associated control room console indicator is performed in conjunction with listed channel.

#### ATTACHMENT 1 INSTRUMENTATION AND TEST EQUIPMENT DATA (Page 3 of 3)

### 5.0 <u>CONTROLOTRON/PANAMETRICS DATA</u> (Section 5.1 only)

| Description  |              | ID Number |                      | Calibration Overdue Date |                |          |  |  |
|--|--------------|-----------|----------------------|--------------------------|----------------|----------|--|--|
| Controlotron   | 2FL14752     |           |                      |                          |                |          |  |  |
| Panametrics  |              |           |                      |                          |                |          |  |  |
| If required, SC.IC-DC.ZZ-0003(Q), Controlotron Model 960, 990 and 1010 Flow Computer Zero Adjustment has been completed. |              |           |                      |                          |                |          |  |  |
| <u>OR</u>  |              |           |                      |                          |                |          |  |  |
| SC.IC-GP.ZZ-0177(  | Q), Panametr | ics Flow  | V Instrument Data Pr | ocedure                  | e has been com | npleted. |  |  |
| Performed By:  |              |           | Date:                |                          | Time:_         |          |  |  |
| 6.0 POST TEST C  |              |           |                      |                          |                |          |  |  |
| Description  | ID Num       | ber       | SAT                  | Į                        | UNSAT          | Initials |  |  |
| Heise CM or equivalent 0-60/0-100psig. (1)   |              |           |                      |                          |                |          |  |  |
| Heise CM or equivalent 0-3000psig. (1)   |              |           |                      |                          |                |          |  |  |
| (1) Post-Test Calibration is <u>NOT</u> required when Electronic Pressure Modules (digital) are used.                    |              |           |                      |                          |                |          |  |  |
| Performed by Date  |              |           |                      |                          |                |          |  |  |
| Performed by Date<br>M&TE Supervisor   |              |           |                      |                          |                |          |  |  |

#### ATTACHMENT 2 23 AF PUMP SURVEILLANCE DATA (Page 2 of 3)

#### 2.0 **VIBRATION READINGS**:

Vibration Position 1: TURBINE OUTBOARD
Vibration Position 2: TURBINE INBOARD
Vibration Position 3: PUMP INBOARD
Vibration Position 4: PUMP OUTBOARD

| 22.177   |                            | Test Results            |                          |  |  |  |  |
|--|----------------------------|-------------------------|--------------------------|--|--|--|--|
| 23 AF Pi<br>Vibration I  |                            | Acceptable Range<br>SAT | Required Action<br>UNSAT |  |  |  |  |
| Non-Tech   | mical Specification Accept | tance Criteria (Non-ASM | ME)                      |  |  |  |  |
| Vibration Position 1A  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 1H  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 1V  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 2A  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 2H  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 2V  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 3A  | in/sec (1)                 |                         |                          |  |  |  |  |
| Tech   | nical Specification Accept | tance Criteria (ASME)   |                          |  |  |  |  |
| Vibration Position 3H  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 3V  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 4A  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 4H  | in/sec (1)                 |                         |                          |  |  |  |  |
| Vibration Position 4V  | in/sec (1)                 |                         |                          |  |  |  |  |
| Acceptance Criteria: Vibration Results for the 23 Auxiliary Feedwater Pump are within bands specified in S2.RA-ST.AF-0003(Q), Inservice Testing - 23 Auxiliary Feedwater Pump Acceptance Criteria OR data represents new baseline data as determined by the IST Implementation Engineer. |                            |                         |                          |  |  |  |  |

(1) Vibration data is only required to be recorded, when a Vibration Analyzer Printout is <u>NOT</u> available.

# ATTACHMENT 3. INDEPENDENT VERIFICATION (Page 1 of 1)

| Component | Description                       | Pretest<br>Position/<br>Initials | Restoration<br>to Pretest<br>Position/<br>Initials | Restoration<br>IV | Date |
|-----------|-----------------------------------|----------------------------------|--|-------------------|------|
| 23AF5     | AF PMP SUCT<br>PRESS TAP          | /                                | 1  |                   |      |
| 21AF11    | STEAM GENERATOR INLET VALVE       | /                                | /  |                   |      |
| 22AF11    | STEAM GENERATOR<br>INLET VALVE    | /                                | /  |                   |      |
| 23AF11    | STEAM GENERATOR<br>INLET VALVE    | /                                | 1  |                   |      |
| 24AF11    | STEAM GENERATOR<br>INLET VALVE    | /                                | /  |                   |      |
| 2AF144    | 23 AUX FD PMP TST<br>LN ISO       | /                                | /  |                   |      |
| 2AF146    | 23 AUX FD PMP TST<br>LN THROT VLV | /                                | /  |                   |      |

#### ATTACHMENT 4 COMPLETION SIGN-OFF SHEET (Page 2 of 2)

| Print  | Initials  | Signature   | Date                           |
|--|---|---|--------------------------------|
|  |   |   |                                |
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|  |   |   |                                |
| INDEPENDENT VERI   | FICATION:   |   |                                |
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| ·  |   |   |                                |
| SM/CRS FINAL REVIE   | EW AND APP  | ROVAL:  |                                |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including   | EW AND APP<br>chments 1-4 is a<br>g corrective act                                  | ROVAL: reviewed for completeness and accions, are clearly recorded in the Co  | curacy.<br>OMMENTS             |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachmen  | EW AND APP<br>chments 1-4 is a<br>g corrective act<br>t. Technical Sp               | ROVAL: reviewed for completeness and acc  | curacy. OMMENTS compliance,    |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachmen  | EW AND APP<br>chments 1-4 is a<br>g corrective act<br>t. Technical Sp               | ROVAL: reviewed for completeness and accions, are clearly recorded in the Co  | curacy.<br>OMMENTS             |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachment<br>and Acceptance Criteria a  | chments 1-4 is a<br>g corrective act<br>t. Technical Spare evaluated.               | ROVAL: reviewed for completeness and accions, are clearly recorded in the Coecification compliance, procedure   | curacy. OMMENTS compliance,    |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachment<br>and Acceptance Criteria a  | chments 1-4 is a<br>g corrective act<br>t. Technical Spare evaluated.               | ROVAL: reviewed for completeness and accions, are clearly recorded in the Coecification compliance, procedure   | curacy. OMMENTS compliance,    |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachment<br>and Acceptance Criteria a<br>Signature:                                  | chments 1-4 is a g corrective act t. Technical Spare evaluated.  SM/CRS             | ROVAL: reviewed for completeness and accions, are clearly recorded in the Coecification compliance, procedure  Date/Ti  | curacy. OMMENTS compliance,    |
| SM/CRS FINAL REVIE<br>This procedure with Attac<br>All deficiencies, including<br>Section of this attachment<br>and Acceptance Criteria a  | chments 1-4 is a g corrective act t. Technical Spare evaluated.  SM/CRS             | ROVAL: reviewed for completeness and accions, are clearly recorded in the Coecification compliance, procedure  Date/Ti  | curacy. OMMENTS compliance,    |
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| SM/CRS FINAL REVIE  This procedure with Attac All deficiencies, including Section of this attachment and Acceptance Criteria a  Signature:  IST IMPLEMENTATIO  Test Results are reviewed | chments 1-4 is a g corrective act t. Technical Spare evaluated.  SM/CRS  ON ENGINEE | reviewed for completeness and accions, are clearly recorded in the Coecification compliance, procedure  Date/Time  R REVIEW:  ty. If required, revision of Acceptore to Operations Staff. | curacy. OMMENTS compliance, [C |