

Public Service
Electric and Gas
Company

E. C. Simpson

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609-339-1700

Senior Vice President - Nuclear Engineering

DEC 28 1995

LR-N95246

United States Nuclear Regulatory Commission
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Gentlemen:

**UPDATED FINAL SAFETY ANALYSIS REPORT, INTERIM REVISION 14
SALEM GENERATING STATION UNITS 1 AND 2
DOCKET NOS. 50-272 and 50-311**

Revision 14 to the Salem Updated Final Safety Analysis Report (UFSAR) is hereby submitted in accordance with a corrective action committed to in Public Service Electric and Gas Company's letter, LR-N95139, in response to Notice of Violation (NOV), 50-354/95-10. As discussed in the NOV and response, certain changes to the UFSAR were not incorporated during previous UFSAR revisions as required by 10CFR50.71(e). While the NOV was recorded on the Hope Creek docket only, the issue and committed corrective action applies to Salem as well.

UFSAR Revision 14 is an interim submittal which includes UFSAR changes to the text, tables, and figures that were part of the NOV-identified backlog of changes which should have been included in previous UFSAR revisions and which are required to reflect current plant configuration. The backlog changes included in Revision 14 are those plant configuration changes which were implemented prior to December 12, 1993, six months prior to the date of filing of Salem's last UFSAR update, Revision 13. A brief summary and explanation of each change is provided in Attachment 1.

In addition to the backlog UFSAR changes, Revision 14 also includes current cycle UFSAR changes that were approved as of December 1, 1995. However, because Revision 14 is an interim revision intended primarily for backlog incorporation, it does not reflect all plant configuration changes implemented up to six months prior to the date of this submittal. This 10CFR50.71(e) requirement will be satisfied by submittal of the regularly scheduled UFSAR update, Revision 15, for Salem on June 12, 1996.

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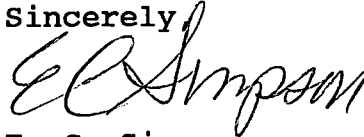
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Should there be any questions with regard to this submittal,
please do not hesitate to contact us.

Sincerely,



E. C. Simpson
Senior Vice President -
Nuclear Engineering

Attachment (1)

C (Document Control Desk - Original & ten copies)

Mr. T. T. Martin, Administrator - Region I
U. S. Nuclear Regulatory Commission
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Mr. L. Olshan (Cover letter only)
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Mr. C. S. Marschall (X24)
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Mr. Kent Tosch, Manager, IV
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STATE OF NEW JERSEY)
)
COUNTY OF SALEM) SS.

E. C. Simpson, being duly sworn, states that he is Senior Vice President - Nuclear Engineering of Public Service Electric and Gas Company, that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this certification; and that in accordance with 10CFR50.71(e)(2), the information contained in the attached letter and Updated Final Safety Analysis Report accurately presents changes made since the previous submittal, necessary to reflect information and analyses submitted to the Commission or prepared pursuant to Commission requirement, and contains an identification of changes made under the provisions of 10CFR50.59 but not previously submitted to the Commission.

E. C. Simpson

Subscribed and Sworn to before me
this 28 day of December, 1995

Elizabeth J. Kidd
Notary Public of New Jersey

ELIZABETH J. KIDD
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 25, 2000

My Commission expires on _____

12/29/95

PUBLIC SERVICE ELECTRIC & GAS COMPANY
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LR-N95246

ATTACHMENT 1

Summary of Salem UFSAR Revision 14 changes

12/27/95

<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
1.2	F1.2-1	Update Figure to show Circulating Water Intake Structure Substation Housings
1.3, 8.1, 8.2, 8.3, 7.3	1.3-6,-8,-9, 7.3-16, 8-ii, 8-iv, 8.1-1,-2,-4, 8.3-2,-3,-4,-5b,-16,-17,-18,-20 F8.2-2, F8.3-1,-2,-3a,-4,-4a,-4c	Adds Switchyard Project Upgrades
2.3	T2.3-16 Pgs. 1,2&3 of 3	Reduces Detail in the UFSAR for Meteorological Instrumentation Equipment
3, 3.5, 15.2	3-xi, 3.5-16, -17, 15.2-59, -60, -62, T3.5-1,-2,-3	Updates Documentation of the Replacement of the Low Pressure Turbine Rotors.
3.5	3.5-1	States that the Rod Control System Motor Generator Set Flywheels Will Not Produce Missiles Under Any Anticipated Accident Condition
3.5	3.5-6, 3.5-7	Corrects Description of the Alternate water supply for Auxiliary Feedwater System from a Remote Controlled to a Manual Operation
3.6	3.6-50	Addresses a moderate energy pipe failure in the 10 Ton CO2 Room and the Diesel Fuel Storage Tank areas.
3.6, 9.2, 10.3	3.6-18,-36,-39,-40, 9.2-17, 10.3-4	Carbon Steel Piping was Replaced with a Chrome Alloy Material for Improved Resistance to Erosion/Corrosion in Multiple Systems
3.10, 5.5, 6.3, 9.3	5.5-37,-38,-39,-42a; 6.3-14, 9.3-21,-23,-29,-30,-37-40, 42, 44, 46, 47, 48, T9.3-6 Sht 6,7,8&10 of 12; T3.10-1 Sht 8&9 of 12	Implements the Boric Acid Concentration Reduction Program at Unit 1

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
3.10, 5.5, 6.3, 9.3	5.5-37, -38, -39, -42a, 6.3-14, 9.3-21, -23, -29, 9.3-30, -37 thru 40, 9.3-42, -44, -46 thru -48, -63, T3.10-1 Sht 8,9 of 12, T9.3-6 Sht 4,6,7,8&10 of 12	Implements the Boric Acid Concentration Reduction Program at Unit 2
3A, 9.5	3A-16, 3A-51, 9.5-40	Increase in Tech Spec Minimum Volume Required in Diesel Fuel Oil Storage Tanks per License Amendments 170 and 152 for Units 1 and 2
5.1, 5.2, 5.5, 9.3, Appendix A	5.5-56, A-10, A-10a, T5.2-8 Pgs 1&2 of 2 F5.1-6A Sht 1; F9.3-3A Sht 1	Reflects Removal of Pressurizer Power Operated Relief Valve Loop Seals
5.2	5.2-28	Reflects Change in Reactor Coolant System Water Chemistry Specification for the Modified Lithium Chemistry Program
5.5	5.5-20 through -22	Reflects Reactor Coolant system Resistance Temperature Detector Bypass Manifold Deletion per License Amendments 84 and 56 for Units 1 and 2.
5.5, 5.6, 7.7	5.5-21, 5.5-59a, 5.6-4, 5.6-5, 7.7-21	Reflects Modification to the Residual Heat Removal System Mid Loop Monitoring Per Generic Letter 88-17
6.2	F6.2-44	Reflects Modification to the Fuel Transfer Tube Blind Flange Closure for Unit 2
6.2	6.2-85	Add Additional Reference Sources to UFSAR for Integrated Leakage Rate Testing
6.2	T6.2-10 Sht 3 of 9, T6.2-13 sht 1 Of 2	Replaces the motor, motor overload heaters, and motor gear set for the actuator on Safety Injection System Valves 1SJ135 and 2SJ135 and Changes Valves to Locked Open in Modes 1 to 4.
6.2	F6.2.44	Reflects Modification to the Fuel Transfer Tube Blind Flange Closure for Unit 1

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
6.2, 7.3	6.2-62, 7.3-28	Change Failure Position of Control Air System Outboard Isolation Valves, CA 330 Per License Amendments 164 and 145 for Units 1 and 2.
6.3	T6.3-1	Correction of the Design Code Designation for the Refueling Water Storage Tank
7.2	T7.2-2 Sht 1 of 4	Corrects the Function Description of Permissive P-7 from Pressurizer High Pressure to Pressurizer High Level.
7.2, 15.2	7.2-23, 15.2-26	Inserts Reactor Trip on Two Open Reactor Coolant Pump Breakers Above P-7 Per License amendments 87 and 60 for Units 1 and 2
7.3	T7.3-4 Pgs. 4,5,6,7,8,11,13,18,19,20,21,22,24,38,45,&45A of 47	Reflects the 125 VDC Distribution Cabinet Wiring Modifications
7.5	7.5-11	Clarifies Statement Regarding Safety Parameter Display System Display of Regulatory Guide 1.97 Variables.
7.7	7.7-16,17	Reflects Enhanced Failure Detection and Operability Determination for the Overhead Annunciator System
7.7, 3.3, 4.3	7-v, 7-vii, 7.7-21; T3.3-7,-8, T4.3-4,-5	Transfers Seismic Instrumentation and Meteorological Instrumentation from Salem U1/U2 Tech Specs to UFSAR
7.10, 7, Appendix A	7-vb, 7-vii, 7.10-1, 7.10-2, 7.10-3, 7.10-4, 7.10-5, a-ii, a-iii, A-74, A-75, A-76, A-77, A-78, A-79, T7.10-1 Sht 1 & 2 of 2, T7.10-2 Sht 1 & 2 of 2, T7.10-3, TA-2 sht 1 & 2 of 2, TA-3 sht 1 & 2 of 2 FA-5, A-6	Reflects Safety Parameter Display System Installation and Revises Technical Support Center Description
8.2, 8.3	F8.2-2, F8.3-1	Reflects Salem Unit 1 50/500 KV Main Transformer Replacement

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
8.2, 8.3	F8.2-2, F8.3-2	Reflects Switchyard Improvements for 13 KV substations
8.3	8iv F8.3-3b, F8.3-4b	Adds Figure to Correctly Represent Unit 2 Non-Vital 4KV-460V and 230V Switchgear
8.3	8-iii, 8.3-20, T8.3-4A &-4B	Deletes Containment Penetration - Over Current Protection Device Tables. This Information is now Controlled in Calculations
8.3	8.3-8, T8.3-2, T8.3-3	Reflects a Revision to the Diesel Generator Load Calculation.
8.3	8.3-12	Adds the Syncrocloser Check Relay as an automatic protective device in service during start-up and operation of a diesel generator following a manual start.
8.3	8.3-17	Changes the onsite power system battery ratings
9.2	T9.2-1, T9.2-4 Shts 1&2 of 2	Reflects Throttling the Service Water Inlet Isolation Valve to the Component Cooling Heat Exchanger to Alleviate Service Water Pump Net Positive Suction Head Concerns
9.2	9.2-22	Adjusts the Reactor Coolant Pump Bearing Temperature Alarms
9.2	9.2-28	Correction of Table Reference in Section 9.2.2.9
9.2	9.2-7,-8	Reflects Service Water Pump Auto-Start Setpoint Changes
9.3	9.3-40; T9.3-6 Sht 8 of 12	Reflects the Abandonment in Place of the 12 Chemical and Volume Control System Hold-Up Tank
9.3	9.3-60	Reflects Post Accident Sampling system Ion Chromatograph Modification for Boron In-Line Analysis in the PASS Chemical Analysis Panel for Better Accuracy

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
9.3, 10.4, 11.3, 11.4	9.3-57,-58,-60, 11.3-14, 11.4-14, 11.4-15, 11.4-19, 11.4-20; 11.4-21, T10.4-1, T11.4-1 Sht 2 of 4, T11.4-3 Sht 1&2 of 2 F10.4-18A, Sht 1 of 2; F11.3-1A, Sheet 2	Deletes Radiation Monitoring System Channels 1R8, 1R14, 1R21, 1R22, 1R31B, 1R31C and 1R35. These are Non-Safety Related Monitors that Perform No Control Functions
9.4	9.4-39, 9.4-40, 9.4-41	Upgrades the Diesel Generator and Control Area Ventilation Systems
9.4, 1.2, 5.1	9.4-1a, 9.4-4 F1.2-2, F5.1-7, F9.4-1a, 9.4-1b	Adds an Operators' Ready Room Near the Control Rooms
9.5, 8.3	9.5-38, 8.3-17, T8.3-6 F8.3-5 sht 1 of 2	Reflects Upgrade of Emergency Lighting System
9.5, 3A	9.5-42, 3A-51a	Adds Emergency Diesel Generator Fuel Oil Test Specification per License Amendments 148 and 126 for Units 1 and 2
9.5	9.5-36	Enhances the Public Address System
9.5	9.5-28,-40	Reflects Diesel Generator Day Tank Level Alarm and Transfer Pump Control Set Points.
9.5, 12.3, 13.1, 13.4, 17.2	9.5-2,-4, 12.3-1,-2,-3,-3a,-3b, 13.1-1,-1a,-2,-6a,-8,-9,-18a,-19, 13.4-2, 17.2-2,-3,-4,-6,-7,-8,-13, F13.1-1,-2,-7,-8a,-8e, F17.2-1	Reflects Personnel Title Changes and Radiation Protection/Chemistry Dept. Changes
10.3	10.3-2	Correction of Main Steam System Design Code for Feedwater Isolation Valves
10.4	10.4-20	Adds Auxiliary Feedwater System Design Codes and Standards

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
10.4	10.4-13	Clarification of Feedwater Piping Design Code
10.4	10-iv, 10.4-17, -21, -23, -24, -27, T10.4-2a, T10.4-2b F10.4-17a	Reflects Auxiliary Feedwater Control Valves Maximum Flow Reduction
10.4	10.4-2, -3	Reflects Unit 2 Operational Changes to the Condenser Air Removal System Vacuum Pumps
10.4	10.4-2, 10.4-3	Reflects Unit 1 Operational Changes to the Condenser Air Removal System Vacuum Pumps
10.4	10.4-2	Reflects Improvements to Main Condenser Waterboxes, Tube Sheets and Waterbox Ladder Replacement
11.2, 9.3, 11.5	9.3-23, 11.2-4,-5,-6,-8,-9,-10,-11,-12,-13, 11.5-1, 11.5-2, 11.5-3, 11.5-4 T11.2-1, T11.2-2, T11.2-3 Shts 1&2 of 2, T11.2-4 Shts1&2 of 2, T11.2-5	Provides Revisions to Solid, Liquid and Gaseous Radwaste Processing Systems and Discharges
11.4	T11.4-1 Sht 3 of 4	Corrects Table for Unit 1 Plant Vent Radiation Monitor Equipment
11.4, 10.4	11.4-18 F10.4-18b Sht 1 of 2	Removal of 2 Non-Safety Related, Seismic Category 3 Radiation Monitoring System Channels
11.5	11.5-3	Adds the Low Level Radwaste Storage Facility
15.2, 15.3	15.2-2,-3; 15.2-61, 15.3-1, 15.3-14,-15,-16	Changes Accident Analysis to Evaluate Uncontrolled Rod Cluster Control Assembly at Full Power as a Single Failure
15.3	15.3-12	Revision to Reflect the Change in Reactor Trip on Reactor Coolant Pump Breaker Open from 1/4 to 2/4 Logic Above 10 Percent Power per License Amendments 87 and 60 for Units 1 and 2

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<u>Affected Sections</u>	<u>Affected Pages/ Tables/Figures</u>	<u>Description</u>
17.2	17.2-1 thru -8a,-12,-13,-14,-16,-22,-24,-28,-29,-38,-39,-40	Allows Electronic Retention of Computer Generated Records, including Electronic Approvals. Also Changes Selected QA Oversight Practices to More Effectively Monitor Implementation of the Nuclear Department Procedure System.
Appendix A	A-40, A-52 thru A-55	Modifications in the Solid Radwaste System, Process Radiation Monitoring and Environmental Radiation Monitoring
Appendix A	A-24	Reflects Control Change for Pressurizer Relief Tank Containment Isolation Valves
Appendix A	A-ii, TA-1 Shts 1, 2, & 3 of 3, TA-2 Shts 1 & 2 of 2, TA-3 Shts 1 & 2 of 2	Deletes Previous Technical Support Center Description

INSERTION INSTRUCTIONS
VOLUME 2

Remove

T3.10-1 (6 and 7 of 9)

3A-16/17

3A-50/51

3A-51a/51b

Remove

T3.10-1 (6 and 7 of 9)

3A-16/17

3A-50/51

3A-51a/51b

INSERTION INSTRUCTIONS
VOLUME 3

Remove

5-vii/viii
F5.1-6a (sheet 1)
F5.1-7
T5.2-8 (1 and 2 of 2)
T5.2-28
5.5-19/20
5.5-21/22
5.5-37/38
5.5-39/40
5.5-42a/42b
5.5-55/56
5.5-59/59a
5.5-60
5.6-3/4
5.6-5/6
6.2-61/62
6.2-84/85
T6.2-10 (4 of 12)
T6.2-13 (1 of 2)
F6.2-44
6.3-14/15
T6.3-1 (1 of 1)

Insert

5-vii/viii
F5.1-6a (sheet 1)
F5.1-7
T5.2-8 (1 and 2 of 2)
T5.2-28
5.5-19/20
5.5-21/22
5.5-37/38
5.5-39/40
5.5-42a/42b
5.5-55/56
5.5-59/59a
5.5-60
5.6-3/4
5.6-5/6
6.2-61/62
6.2-84/85
T6.2-10 (4 of 12)
T6.2-13 (1 of 2)
F6.2-44
6.3-14/15
T6.3-1 (1 of 1)

INSERTION INSTRUCTIONS
VOLUME 4

Remove

7-v/va
7-vb/vi
7-vii/viii
7.2-23/24
T7.2-2 (1 of 4)
7.3-15/16
7.3-27/28
T7.3-4 (4 through 8; 11, 13, and
18 through 22; 24 and 25;
38; 45 of 47)
7.5-11/12
7.7-17/17a
7.7-21/22

8-i/ii
8-iii
8-iv

Insert

7-v/va
7-vb/vi
7-vii/viii
7.2-23/24
T7.2-2 (1 of 4)
7.3-15/16
7.3-27/28
T7.3-4 (4 through 8; 11, 13, and
18 through 22; 24 and 25;
38; 45 of 47)
7.5-11/12
7.7-17/17a
7.7-21/21a
7.7-21b/22
T7.7-3 (1 of 1)
T7.7-4 (1 of 1)
T7.7-5 (1 of 1)
T7.7-6 (1 of 1)
7.10-1/2
7.10-3/4
7.10-5
T7.10-1 (1 and 2 of 2)
T7.10-2 (1 and 2 of 2)
T7.10-3 (1 of 1)
8-i/ii
8-iii
8-iv

INSERTION INSTRUCTIONS

VOLUME 4 (cont)

Remove

8.1-1/2
8.1-3/4
F8.2-2
8.3-1/2
8.3-3/4
8.3-5b/6
8.3-7/8
8.3-11/12
8.3-15/16
8.3-17 /18
8.3-19/20
T8.3-2 (1 of 1)
T8.3-3 (1 of 1)
T8.3-4A (1 through 13 of 13)
T8.3-4B (1 through 12 of 12)
T8.3-6 (1 of 1)
F8.3-1
F8.3-2
F8.3-2a
F8.3-3a
F8.3-3b
F8.3-4
F8.3-4a
F8.3-4b
F8.3-4c
F8.3-5 (sheet 1 and 2 of 2)
9.2-7/8
9.2-17/18
9.2-21/22

Insert

8.1-1/2
8.1-3/4
F8.2-2
8.3-1/2
8.3-3/4
8.3-5b/6
8.3-7/8
8.3-11/12
8.3-15/16
8.3-17 /18
8.3-19/20
T8.3-2 (1 of 1)
T8.3-3 (1 of 1)
T8.3-4A (1 of 1)
T8.3-4B (1 of 1)
T8.3-6 (1 of 1)
F8.3-1
F8.3-2
F8.3-2a
F8.3-3a
F8.3-3b
F8.3-4
F8.3-4a
F8.3-4b
F8.3-4c
F8.3-5 (sheet 1 and 2 of 2)
9.2-7/8
9.2-17/18
9.2-21/22

INSERTION INSTRUCTIONS
VOLUME 4 (cont)

Remove

9.2-27/28

T9.2-1 (1 of 1)

T9.2-4 (1 and 2 of 2)

Insert

9.2-27/28

T9.2-1 (1 of 1)

T9.2-4 (1 and 2 of 2)

INSERTION INSTRUCTIONS
VOLUME 5

<u>Remove</u>	<u>Insert</u>
9.3-21/22	9.3-21/22
9.3-23/24	9.3-23/24
9.3-29/30	9.3-29/30
9.3-37/38	9.3-37/38
9.3-39/39a	9.3-39/39a
9.3-39b/40	9.3-40/41
9.3-47/48	9.3-47/48
9.3-57/58	9.3-57/58
9.3-59/60	9.3-59/60
9.3-63	9.3-63
T9.3-6 (4, 6, 7 and 8 of 12)	T9.3-6 (4, 6, 7 and 8 of 12)
F9.3-3a (sheet 1)	F9.3-3a (sheet 1)
9.4-1/1a	9.4-1/1a
9.4-3/4	9.4-3/4
9.4-39/39a	9.4-39/39a
9.4-39b/40	9.4-39b/40
F9.4-1a	F9.4-1a
F9.4-1b	F9.4-1b
9.5-1/2	9.5-1/2
9.5-3/4	9.5-3/4
9.5-35/36	9.5-35/36
9.5-37/38	9.5-37/38
9.5-39/40	9.5-39/40
9.5-41/42	9.5-41/42
10-iii/iv	10-iii/iv
10.3-1/2	10.3-1/2
10.3-3/4	10.3-3/4

INSERTION INSTRUCTIONS
VOLUME 6

Remove

10.4-1/2
10.4-3/4
10.4-13/13a
10.4-17/18
10.4-19/20
10.4-21/22
10.4-23/24
10.4-27

F10.4-17a
F10.4-18a (1 of 2)
F10.4-18b (1 of 2)
11.2-3/4
11.2-5/6
11.2-7/8
11.2-9/10
11.2-10a/10b
11.2-11/12
11.2-13/14
T11.2-1 (1 of 1)
T11.2-2 (1 of 1)
T11.2-3 (1 and 2 of 2)
T11.2-4 (1 and 2 of 2)
T11.2-5 (1 of 1)
11.3-13/14
11.4-13/14
11.4-15/16
11.4-17/18
11.4-19/20
11.4-21/22

Insert

10.4-1/2
10.4-3/4
10.4-13/13a
10.4-17/18
10.4-19/20
10.4-21/22
10.4-23/24
10.4-27
T10.4-2A (1 of 1)
T10.4-2B (1 of 1)
F10.4-17a
F10.4-18a (1 of 2)
F10.4-18b (1 of 2)
11.2-3/4
11.2-5/6
11.2-7/8
11.2-9/10
11.2-10a/10b
11.2-11/12
11.2-13/14
T11.2-1 (1 of 1)
T11.2-2 (1 of 1)
T11.2-3 (1 and 2 of 2)
T11.2-4 (1 and 2 of 2)
T11.2-5 (1 of 1)
11.3-13/14
11.4-13/14
11.4-15/16
11.4-17/18
11.4-19/20
11.4-21/22

INSERTION INSTRUCTIONS
VOLUME 6 (cont)

Remove

T11.4-1 (1 through 4 of 4)
T11.4-3 (1 and 2 of 2)
11.5-1/2
11.5-3/4
12.3-1/2
12.3-3/3a
12.3-3b/3c
13-i
13.1-1/1a
13.1-6a/6b
13.1-7/8
13.1-9/10
13.1-18a/18b
13.1-19/20
F13.1-1
F13.1-2
F13.1-7
F13.1-8a
F13.1-8e
13.4-1/2

Insert

T11.4-1 (1 through 4 of 4)
T11.4-3 (1 and 2 of 2)
11.5-1/2
11.5-3/4
12.3-1/2
12.3-3/3a
12.3-3b/3c
13-i
13.1-1/1a
13.1-6a/6b
13.1-7/8
13.1-9/10
13.1-18a/18b
13.1-19/20
F13.1-1
F13.1-2
F13.1-7
F13.1-8a
F13.1-8e
13.4-1/2