



Westinghouse  
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Energy Systems

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NSD-NRC-97-5107  
DCP/NRC0846  
Docket No.: STN-52-003

May 6, 1997

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: T. R. QUAY

SUBJECT: REVISION 12 OF THE SSAR

Dear Mr. Quay:

Enclosed is Revision 12 of the AP600 Standard Safety Analysis Report (SSAR). Also enclosed are the revised tables of contents, change page instructions, list of effective pages, document cover sheet, and a change roadmap outlining the changes in each section. The revision is in the form of replacement sections to be inserted into the SSAR binders to replace the superseded pages. The document control sheet should be inserted in the front of Volume 1; the original document cover sheets should not be discarded. Thirty-six copies of this update are being sent to Mrs. Diane Jackson for distribution to the NRC staff. As discussed with your staff, copies are being sent directly to ACRS Members and NRC subcontractors.

The changes included in this revision are the result of changes to the SSAR to address NRC staff comments or the result of design changes to address staff comments and concerns. Most of the changes have been provided previously as draft SSAR markups in responses to staff questions and open items. Also additional SSAR changes required for the changes for post 72 hour actions are included in this revision.

When a limited amount of information in a section is revised the changes may be provided as loose page amendments. Loose page amendments include only those portions affected by the change either due to the content or due to changes in pagination. If a front or back page of a sheet is unaffected by the change the page from the previous revision is printed. Figures show the revision number in which the figure was last revised even if the page number changes.

This revision includes no information classified as proprietary.

Please contact Brian A. McIntyre on (412) 374-4334 if you have any questions concerning this transmittal.

*Brian A. McIntyre* /FOR  
Brian A. McIntyre, Manager  
Advanced Plant Safety and Licensing

9705090097 970506  
PDR ADOCK 05200003  
E PDR

Attachments  
Enclosures

3178A



*A-0041/2*

*Encs to: File Center  
NRC PDR*

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-2-

May 6, 1997

cc: Kenneth C. Rogers, NRC  
Tom Kenyon, NRC (w/o enclosures)  
Chuck Thompson, DOE  
M. Barger, DOE - Oakland, CA (w/o attachments and enclosures)  
Nicholas J. Liparulo, Westinghouse (w/o attachments and enclosures)  
Diane Jackson, NRC (36 enclosures)

# Change Page Instructions for SSAR Revision 12

Enclosed you will find information to replace your current version of the AP600 SSAR.

## PACKAGE 1 OF 5

### Remove Present Pages:

#### *Volume 1 (only)*

Master Table of Contents, i through xxxii  
List of Effective Pages, 1 through 36  
Change Roadmap, R-1 through R-25

#### *Volumes 2 through 11*

Master Table of Contents, i through xxxii  
Chapters 1 through 18 Tables of Contents

#### *Volume 1*

## PACKAGE 2 OF 5

### Remove Present Pages:

#### *Volume 1*

1.2-35  
1.8-5, -6, -11 and 1.8-12  
1A-57 through 1A-60, 1A-65 through 1A-72

#### *Volume 2*

2-1 through 2-18  
2A-91  
3.2-9, -10, -21 through 3.2-82  
3.6-33 through 3.6-38

#### *Volume 3*

3.7-1 through -52, -61 through -66,  
-73 through -78, -85 through -90,  
-101, -102, -105, -106, -109, -110, -115, -116,  
-181, -183, -189, -191, -193, -195, -229, -230,  
-231 and 3.7-232  
  
3.8-19 through 3.8-64, -117, -118, and 3.8-157  
  
3.9-35 through 3.9-104, -119, -120, -129, and -130

### Replace with the Enclosed Pages:

Master Table of Contents, i through xxxiii  
List of Effective Pages, 1 through 38  
Change Roadmap, R-1 through R-24

Master Table of Contents, i through  
Chapters 1 through 18 Tables of Contents

1.2-3 through 1.2-8 (*these pages have not been revised - replace only if pages were removed during the Rev 11 changes*)

### Replace with the Enclosed Pages:

1.2-35  
1.8-5, -6, -11 and 1.8-12  
1A-57 through 1A-60, 1A-65 through 1A-72

2-1 through 2-24  
Nothing  
3.2-9, -10, -21 through 3.2-82  
3.6-33 through 3.6-38

3.7-1 through -51, -51A, -51B, -52,  
-61 through -66, -73 through -78,  
-85 through -90, -101, -102, -105, -106, -109,  
-110, -115, -116, -181, -183, -189, -191,  
-193, -195, -229, -230, -231, -233, -235, 237,  
-239, -241, -243, -245, -247, -249, -251  
and 3.7-252  
3.8-19 through -64, -64A, -64B, -117, -118,  
3.8-157, and 3.7-157A  
3.9-35 through -104, -119, -120, -129 and -130

# Change Page Instructions for SSAR Revision 11 (Cont)

## PACKAGE 2 OF 5 (CONT.)

### Remove Present Pages:

#### *Volume 4*

3.10-5 through 3.10-8  
3.11-1 through 3.11-12, -37 and 3.11-38  
3A-1 and 3A-2  
3B-11 through 3B-22  
3D-1, -2, -7, -8, -15 through 3D-42  
3E-3, -5, -7, -9, -11, -13, -15, -17, and 3E-19  
3F-1, 3F-2 and 3F-3

### Replace with the Enclosed Pages:

3.10-5 through 3.10-8  
3.11-1 through 3.11-12, -37 and 3.11-38  
3A-1 and 3A-2  
3B-11 through 3B-22  
3D-1, -2, -7, -8, -15 through 3D-42  
3E-3, -5, -7, -9, -11, -13, -15, -17, and 3E-19  
3F-1, 3F-2 and 3F-3

## PACKAGE 3 OF 5

### Remove Present Pages:

#### *Volume 4*

5.1-23  
5.2-23 through 5.2-26

#### *Volume 5*

5.4-47 through 5.4-97  
6.2-33 through 6.2-37A, -55, -56, -187,  
-233 and 6.2-234  
6.3-7 through 6.3-48  
7.1-1 through 7.1-50, -53, -54, -59,  
(and 7.1-60 if it was not discarded during  
Revision 11 change)  
7.2-25, -27, -37, -41, -49, -51, -55, and 7.2-57  
7.3-1 through 7.3-36

### Replace with the Enclosed Pages:

5.1-23  
5.2-23 through 5.2-26  
  
5.4-47 through 5.4-100 and 5.4-103  
6.2-33 through 6.2-37A, -55, -56, -187,  
-233 and 6.2-234  
6.3-7 through 6.3-48  
7.1-1 through 7.1-50, -53, -54, -59, -60  
and 7.1-61  
7.2-25, -27, -37, -41, -49, -51, -55, and 7.2-57  
7.3-1 through 7.3-39

# Change Page Instructions for SSAR Revision 11 (Cont)

## PACKAGE 3 OF 5 (CONT.)

### Remove Present Pages:

#### *Volume 6*

7.7-1 through 7.7-22

8.3-7, -8, -21, -22, -23, 8.3-24

9.1-5, -6, -7, -8, -39, -40, -41, and 9.1-42

9.2-5 through 9.2-48, -61, -65, -67, -69 and 9.2-77

9.3-1, -2, -65, -67, and 9.3-69

### Replace with the Enclosed Pages:

7.7-1 through 7.7-22

8.3-7, -8, -21, -22, -23, 8.3-24

9.1-5, -6, -7, -8, -39, -40, -41, and 9.1-42

9.2-5 through 9.2-48, -61, -65, -67, -69  
and 9.2-77

9.3-1, -2, -65, -67, and 9.3-69

THE CHANGE FOR THE FOLLOWING SECTION SHOULD BE DONE IN CONJUNCTION WITH PACKAGE 4 -- 9.4 FIGURES'

9.4-1 through 9.4-84

9.4-1 through 9.4-84

Add new 8½ x 11 sheets: 9.4-103, -104, 109, -110, -111, -112, -115 and 9.4-116 — All of these can be inserted in front of present 11x17 figure page 9.4-103 (See Package 4 [figure pockets] instructions to complete this section)

#### *Volume 7*

9.5-27 through 9.5-30, -67, -69, -71, -73 and 9.5-77

9.5-27 through 9.5-30, -67, -69, -71, -73  
and 9.5-77

9A-143 and 9A-147

9A-143 and 9A-147

10.3-41

10.3-41

10.4-65, -67, -69, -71, -75, and 10.4-77

10.4-65, -67, -69, -71, -75, and 10.4-77

#### *Volume 8*

11.1-3, -4, -7, and 11.1-8

11.1-3, -4, -7, and 11.1-8

11.2-43, -44 -45, -47, -49, -51, -53, and 11.2-55

11.2-43, -44 -45, -47, -49, -51, -53,  
and 11.2-55

11.3-17, -18, -19 and 11.3-20

11.3-17, -18, -19 and 11.3-20

11.4-3 through 11.4-6

11.4-3 through 11.4-6

11.5-1 through 11.5-29

11.5-1 through 11.5-30

12.3-5 through 12.3-24, -33, -43, -45, -75  
-77, -95, -105, and 12.3-107

12.3-5 through 12.3-24, -33, -43, -45, -75  
-77, -95, -105, and 12.3-107

12.4-1 through 12.4-18

12.4-1 through 12.4-19

# Change Page Instructions for SSAR Revision 11 (Cont)

## PACKAGE 3 OF 5 (CONT.)

### Remove Present Pages:

#### Volume 9

15.2-17 and 15.2-18

16.2-23 and 16.2-24

### Replace with the Enclosed Pages:

15.2-17 and 15.2-18

16.2-23 and 16.2-24

## PACKAGE 4 OF 5

### Remove Present Pages:

#### Volume 4

5.1-19 and 5.1-21

### Replace with the Enclosed Pages:

Drawing pockets - 5.1-19 and 5.1-21

#### Volume 5

5.4-99

6.2-231 and 6.2-245

6.3-73 and 6.3-75

6.4-15

Drawing pocket - 5.4-101

Drawing pockets - 6.2-231 and 6.2-245

Drawing pockets - 6.3-73 and 6.3-75

Drawing pocket - 6.4-15

#### Volume 6

8.3-53, 8.3-55, 8.3-57, and 8.3-59

9.1-59 and 9.1-61

9.2-57, 9.2-63, 9.2-73, and 9.2-75

9.3-73 and 9.3-75

Drawing pockets - 8.3-53, 8.3-55, 8.3-57 and 8.3-59

Drawing pockets - 9.1-59 and 9.1-61

Drawing pockets - 9.2-57, 9.2-63, 9.2-73 and 9.2-75

Drawing pockets - 9.3-73 and 9.3-75

THE CHANGE FOR THE FOLLOWING SECTION SHOULD BE DONE IN CONJUNCTION WITH PACKAGE 3 — 9.4 TEXT & FIGURES

9.4-93, 9.4-95, 9.4-97, 9.4-99, 9.4-101 —

*Remove the present 11x17s figures only:*

9.4-103, 9.4-105, 9.4-107, 9.4-109, 9.4-111,

9.4-113, 9.4-115 and 9.4-117

Drawing pockets - 9.4-93, 9.4-95, 9.4-97,

9.4-99, 9.4-101, 9.4-105, 9.4-107, 9.4-113,

9.4-117, 9.4-119, 9.4-121, 9.4-123,

and 9.4-125 *Note: These drawings pockets should be collated with the 8½x11 figures inserted from Package 3*

#### Volume 7

9.5-73

10.3-37 and 10.3-39

10.4-73

Drawing pocket - 9.5-73

Drawing pocket - 10.3-37 and 10.3-39

Drawing pocket - 10.4-73

#### Volume 8

11.3-21

Drawing pocket - 11.3-21

# Change Page Instructions for SSAR Revision 11 (Cont)

## PACKAGE 5 OF 5

### Remove Present Pages:

#### *Volume 9*

15.6-23 through 15.6-40, -63 through -65,  
-77 through -82, -111 and 15.6-112

### Replace with the Enclosed Pages:

15.6-23 through 15.6-40, -63 through -65,  
-77 through -82, -111, -111(0) through  
-111(73) and -112



## AP600 DOCUMENT COVER SHEET

Form 58202G(5/94)

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RFS ITEM #:

AP600 DOCUMENT NO. GW-GL-021	REVISION NO. 12	Page 1 of 2	ASSIGNED TO Document Control Desk	Control Copy # 4
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ALTERNATE DOCUMENT NUMBER:

WORK BREAKDOWN #: 3.2.3

DESIGN AGENT ORGANIZATION: Westinghouse Electric Corporation

TITLE: AP600 Standard Safety Analysis Report (Volume 1-11)

ATTACHMENTS:

DCP #/REV. INCORPORATED IN THIS DOCUMENT  
REVISION:

CALCULATION/ANALYSIS REFERENCE:

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Text and figures

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ORIGINATOR

Donald A. Lindgren

SIGNATURE/DATE

*D. A. Lindgren*

AP600 RESPONSIBLE MANAGER

Brian A. McIntyre

SIGNATURE\*

*D. A. Lindgren / For B.A. McIntyre*

APPROVAL DATE

*5/6/97*

\*Approval of the responsible manager signifies that document is complete, all required reviews are complete, electronic file is attached and document is released for use.



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