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NSD-NRC-96-4925  
DCP/NRC0693  
Docket No.: STN-52-003

December 19, 1996

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

ATTENTION: T. R. QUAY  
SUBJECT: REVISION 10 OF THE SSAR

Dear Mr. Quay:

Enclosed is Revision 10 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 The revision is in the form of replacement sections to be inserted into the SSAR binders to replace the superseded pages.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.

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, Manager  
Advanced Plant Safety and Licensing

/jml

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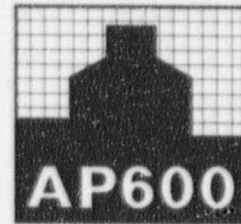
6604  
Limited Distribution  
Final file of 11/2  
NRC PDR  
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10

December 19, 1996

Attachments

Enclosures

cc: Kenneth C. Rogers, NRC  
Tom Kenyon, NRC (w/o enclosures)  
Kay Vijaiyan, DOE  
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)



**Westinghouse Electric AP600  
SSAR Revision 10  
December, 1996  
Return Receipt**

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AP600 SSAR received

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PLEASE SIGN AND RETURN TO:

Westinghouse Electric Corporation  
P.O. Box 355  
Mail Stop 3-09 East  
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ATTENTION: Brian A. McIntyre

# Change Page Instructions for SSAR Revision 10

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

## **PACKAGE 1 of 3**

### **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-22

#### *Volumes 2 through 11*

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

### **Replace with the Enclosed Pages:**

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

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

## **PACKAGE 2 of 3**

### **Remove Present Pages:**

#### *Volume 1*

1.1-9 and 1.1-10  
1.2-1 through 1.2-28  
1.8-13  
1.9-31, -32, -39, -40, -61, -62, -135 and -136  
  
1A-29, 1A-30, 1A-53 and 1A-54  
2-1, 2-2, 2-13 through 2-16  
2B-9 and 2B-10

#### *Volume 2*

3.2-1, -2, -5, -6, -9, -10, -15, -16, and  
3.2-19 through 3.2-70  
3.6-9 through 3.6-46  
3.7-1, -2, -43 through -46, -51 and -52

### **Replace with the Enclosed Pages:**

1.1-9 and 1.1-10  
1.2-1 through 1.2-28  
1.8-13  
1.9-31, -31A, -31B, -32, -39, -40, -61, 62,  
1.9-135 and 1.9-136  
1A-29, -30, -30A, -30B, -53 and 1A-54  
2-1, 2-2, 2-13 through 2-16  
2B-9, 2B-9A, 2B-9B and 2B-10

3.2-1, -2, -5, -6, -9, -10, -15, -16, and  
3.2-19 through 3.2-78  
3.6-9 through 3.6-51  
3.7-1, -2, -43 through -46, -51 and -52

## Change Page Instructions for SSAR Revision 10 (Cont)

### Remove Present Pages:

#### *Volume 3*

3.9-33, -34, -57, -58, -79 through -82, -89 through -104, -115 through -124, -131 through 3.9-168

3.10-5 through 3.10-8  
3.11-9 through 3.11-24

3B-1 through 3B-24 and 3B-63

4.4-5, -6, and 4.4-31 through 4.4-34

### Replace with the Enclosed Pages:

3.9-33, -34, -57, -58, -79 through -82, -89 through -104, -115 through -120, -120A, -120B, -121 through -124, -131 through 3.9-168

3.10-5 through 3.10-8  
3.11-9 through 3.11-23, 3.11-23A, 3.11-23B and 3.11-24

3B-1 through 3B-21, -21A, -21B, -22, -23 and 3B-24

4.4-5, -6 and 4.4-31 through 4.4-34

### PACKAGE 3 of 3

### Remove Present Pages:

#### *Volume 4*

5.2-21, 5.2-22, 5.2-27, and 5.2-28  
5.4-1 and 5.4-2  
6.1-1, 6.1-2 and 6.1-13  
6.2-29 through 6.2-38, 6.2-55, 6.2-56 and 6.2-187

6.3-39 and 6.3-40  
6.4-3, 6.4-4, 6.4-9 and 6.4-10  
7.1-21, 7.1-22, 7.1-49 and 7.1-50  
7.2-63 and 7.2-65  
7.3-15, 7.3-16, 7.3-29 and 7.3-30  
7.5-13, 7.5-14 and 7.5-17 through 7.5-24  
7.7-17 through 7.7-22

5.2-21, 5.2-22, 5.2-27 and 5.2-28  
5.4-1 and 5.4-2  
6.1-1, 6.1-2 and 6.1-13  
6.2-29 through 6.2-37, 6.2-37A, 6.2-37B, 6.2-38, 6.2-55, 6.2-56 and 6.2-187  
6.3-39 and 6.3-40  
6.4-3, 6.4-4, 6.4-9 and 6.4-10  
7.1-21, 7.1-22, 7.1-49 and 7.1-50  
7.2-63 and 7.2-65  
7.3-15, 7.3-16, 7.3-29 and 7.3-30  
7.5-13, 7.5-14 and 7.5-17 through 7.5-24  
7.7-17 through 7.7-22

#### *Volume 5*

8.3-37 through 8.3-40  
9.1-19 through 9.1-24  
9.2-5 through 9.2-8, -23, -24, -31 through -34, -55, -56 -71 and 9.2-73  
9.3-49, -50, -65, -67 and 9.3-71

8.3-37 through 8.3-40  
9.1-19 through 9.1-24  
9.2-5 through 9.2-8, -23, -24, -31 through -34, -55, -56 -71, -73, -75, and 9.2-77  
9.3-49, 9.3-50, -65, -67 and 9.3-71

## Change Page Instructions for SSAR Revision 10 (Cont)

### Remove Present Pages:

#### *Volume 6*

9.4-7 through 9.4-72  
9.5-17 through 9.5-22

9A-105, 9A-106, 9A-113 and 9A-114

#### *Volume 7*

10.1-1 through 10.1-6  
10.4-21, 10.4-22, 10.4-45 and 10.4-46  
11.2-11, 11.2-12, 11.2-27, 11.2-28 and 11.2-45  
11.3-7, 11.3-8, 11.3-17 and 11.3-18

#### *Volume 8*

14.2-1 through 14.2-123

#### *Volume 11*

16.2-1 through 16.2-13  
18.1-3 and 18.1-4  
18.3-1  
18.5-1 through 18.5-6  
18.7-1  
18.8-1 through 18.8-26  
18.11-1 and 18.11-2  
18.12-1 and 18.12-2

### Replace with the Enclosed Pages:

9.4-7 through 9.4-72  
9.5-17 through 9.5-21, 9.5-21A, 9.5-21B  
and 9.5-22  
9A-105, 9A-106, 9A-113 and 9A-114

10.1-1 through 10.1-6  
10.4-21, 10.4-22, 10.4-45 and 10.4-46  
11.2-11, 11.2-12, 11.2-27, 11.2-28 and 11.2-45  
11.3-7, 11.3-8, 11.3-17 and 11.3-18

14.2-1 through 14.2-123

16.2-1 through 16.2-27  
18.1-3 and 18.1-4  
18.3-1  
18.5-1 through 18.5-6  
18.7-1  
18.8-1 through 18.8-26  
18.11-1 and 18.11-2  
18.12-1 and 18.12-2

### **PROPRIETARY PACKAGE**

As of Revision 9, the Proprietary Information in the SSAR is limited to Pages P6.2-1 through P6.2-17. Those pages and the Table of Contents, along with the AP600 Document Cover Sheet, are all that should be in Proprietary Volume I. Any other information identified as proprietary SSAR information should be discarded in an appropriate manner.