



Westinghouse  
Electric Corporation

Energy Systems

Box 355  
Pittsburgh Pennsylvania 15230-0355

NSD-NRC-97-5230  
DCP/NRC0953  
Docket No.: STN-52-003

July 10, 1997

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

ATTENTION: T. R. QUAY

SUBJECT: AP600 DESIGN CERTIFICATION, INADVERTENT ERRORS IN REVISION 14 OF  
SSAR TABLE 3.2-3

Dear Mr. Quay:

This provides a markup of Table 3.2-3 of the AP600 SSAR, which corrects errors inadvertently issued by Revision 14. The Attachment to this letter includes markups of SSAR pages 3.2-71, 3.2-72, 3.2-73, 3.2-77, 3.2-78, 3.2-81, and 3.2-82. These markups correct the principal construction codes for air handling units, filters, fans, and ductwork for various HVAC systems. The markups in the Attachment should be used as the basis for the NRC review. Table 3.2-3 will be corrected in Revision 15 of the SSAR.

If you have any questions on this letter, please contact me on 412-374-4334 or J. W. Winters on 412-374-5290.

Brian A. McIntyre, Manager  
Advanced Plant Safety and Licensing

jml

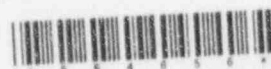
Attachment: Markup of SSAR Table 3.2-3, Revision 14

cc: D. T. Jackson, NRC (w/Attachment)  
N. J. Liparulo, Westinghouse (w/o Attachment)

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ATTACHMENT 1 TO DCP/NRC0953  
MARKUP OF SSAR TABLE 3.2-3, REVISION 14

Table 3.2-3 (Sheet 51 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND  
FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
<b>Turbine Island Vents, Drains and Relief System (TDS)</b>					Location: Turbine Building
n/a	Piping and components that provide the path from the GSS and CMS to atmosphere and rad monitor	D	NS	ANSI B31.1	
Balance of system components are Class E					
<b>Main Turbine Control and Diagnostic System (TOS)</b>					Location: Turbine Building
System components are Class E					
<b>Radiologically Controlled Area Ventilation System (VAS)</b>					Location: Auxiliary Building and Annex Building
n/a	CVS and RNS Pump Room Coolers	Note 2	NS	Manufacturer Std.	
n/a	Valves Providing VAS AP600 Equipment Class D Function	D	NS	ANSI 16.34	
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del> UL 900	
n/a	Fans, Ductwork	L	NS	<del>ASME N509</del> SMACNA	
Balance of system components are Class L or Class E					
<b>Nuclear Island Nonradioactive Ventilation System (VBS)</b>					Location: Auxiliary Building and Annex Building
n/a	Battery Rooms Exhaust Fans	Note 2	NS	AMCA	
n/a	PCS Room Heaters	Note 2	NS	Manufacturer Std.	
n/a	Fire Dampers	Note 3	NS	NFPA	
n/a	Dampers Providing AP600 Equipment Class D Function	Note 2	NS	ANSI/AMCA-500	
n/a	Dampers in lines isolating radioactive contamination	R	NS	ASME-509	
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
VBS-MP-01A	Sample Pump A	C	I	Manufacturer Std.	
VBS-MP-01B	Sample Pump B	C	I	Manufacturer Std.	
n/a	MCR/TSC Supplemental Air Filtration Units	Note 2	NS	ASME N509	



Table 3.2-3 (Sheet 52 of 54)

**AP600 CLASSIFICATION OF MECHANICAL AND  
FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
Nuclear Island Nonradioactive Ventilation System (VBS) (Continued)					
n/a	MCR/TSC Supply Air Handling Units	Note 2	NS	ASME N509	
n/a	Class 1E Electrical Room Air Handling Units	Note 2	NS	ASME N509	
VBS-PL-V160	MCR Penetration Test Valve	C	I	ASME III-3	
VBS-PL-V161	MCR Penetration Test Valve	C	I	ASME III-3	
VBS-PL-V162	MCR Penetration Test Valve	C	I	ASME III-3	
VBS-PL-V164	MCR Penetration Test Valve	C	I	ASME III-3	
VBS-PL-V165	MCR Penetration Test Valve	C	I	ASME III-3	
VBS-PL-V166	MCR Isolation Test Valve	C	I	ASME III-3	
VBS-PL-V167	MCR Isolation Test Valve	C	I	ASME III-3	
VBS-PL-V168	MCR Isolation Test Valve	C	I	ASME III-3	
VBS-PL-V169	MCR Isolation Test Valve	C	I	ASME III-3	
VBS-MD-D214	MCR Isolation Dampers	Note 1	I	ASME N509	
VBS-MD-D215	MCR Isolation Dampers	Note 1	I	ASME N509	
VBS-MD-D216	MCR Isolation Dampers	Note 1	I	ASME N509	
VBS-MD-D217	MCR Isolation Dampers	Note 1	I	ASME N509	
VBS-MD-D220	MCR Isolation Dampers	Note 1	I	ASME N509	
VBS-MD-D221	MCR Isolation Dampers	Note 1	I	ASME N509	
n/a	Valves Providing VBS AP600 Equipment Class D Function		NS	ANSI 16.34	
n/a	Other Air Handling Units w/ Filters	Note 2	NS	<del>ASME N509</del> ULL 900	
n/a	Fans, Ductwork	Note 2, L or R	NS	<del>ASME N509</del> SMACNA	





Table 3.2-3 (Sheet 53 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tab Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
<b>Nuclear Island Nonradioactive Ventilation System (VBS) (Continued)</b>					
VBS-MA-10A	Ancillary Fan	D	NS	ANSI/AMCA 210, 211, 300	Seismically analyzed for operability
VBS-MA-10B	Ancillary Fan	D	NS	ANSI/AMCA 210, 211, 300	Seismically analyzed for operability
VBS-MA-11	Ancillary Fan	D	NS	ANSI/AMCA 210, 211, 300	Seismically analyzed for operability
VBS-MA-12	Ancillary Fan	D	NS	ANSI/AMCA 210, 211, 300	Seismically analyzed for operability
Balance of system components are Class L					
<b>Containment Recirculation Cooling System (VCS)</b>					
n/a	Dampers	L	NS	ANSI/AMCA-500	Location: Containment
n/a	Fan Coil Units	L	NS	ASME N509	manufacturer Std
n/a	Fans, Ductwork	L	NS	ASME N509	SMACNA
Balance of system components are Class L					
<b>Main Control Room Emergency Habitability System (VES)</b>					
Location: Auxiliary Building					
VES-MD-D001A	Relief Damper	Note 1	I	ASME 509/510	
VES-MD-D001B	Relief Damper	Note 1	I	ASME 509/510	
VES-MT-01A	Emergency Air Storage Tank 01A	C	I	ASME VIII, Appendix 22	
VES-MT-01B	Emergency Air Storage Tank 01B	C	I	ASME VIII, Appendix 22	



Table 3.2-3 (Sheet 57 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND  
FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
<b>Containment Air Filtration System (Continued)</b>					
VFS-MY-Y02	Containment Air Exhaust Debris Screen	C	I	ASME Sec. III Class 3	
VFS-PL-V001	Containment Isolation Test Connection	B	I	ASME III-2	
VFS-PL-V002	Containment Isolation Test Connection	B	I	ASME III-2	
VFS-PL-V007	Containment Isolation Test Connection	B	I	ASME III-2	
VFS-PL-V008	Containment Isolation Test Connection	B	I	ASME III-2	
VFS-PL-V009	Containment Purge Discharge Containment Isolation Valve	B	I	ASME III-2	
VFS-PL-V010	Containment Purge Discharge Containment Isolation Valve	B	I	ASME III-2	
VFS-PL-V012	Containment Isolation Test Connection	B	I	ASME III-2	
VFS-PL-V015	Containment Isolation Test Connection	B	I	ASME III-2	
n/a	Valves Providing VFS AP600 Equipment Class D Function	D	NS	ANSI 16.34	
n/a	Dampers in lines isolating radioactive contamination	R	NS	ASME-509	
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Supply Filtration Units	L	NS	<del>ASME N509</del>	Manufacturer Std.
n/a	Air Exhaust Filtration Units	R	NS	ASME N509	
n/a	Fans, Ductwork	L or R	NS	ASME N509	SMANCA or
Balance of system components are Class L and Class R					
<b>Health Physics and Hot Machine Shop HVAC System (VHS)</b>					
Location: Annex Building					
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del>	UL 900
n/a	Fans, Ductwork	L	NS	<del>ASME N509</del>	SMANCA
Balance of system components are Class E or Class L					





Table 3.2-3 (Sheet 38 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
<b>Containment Hydrogen Control System (VLS)</b>					Location: Containment
n/a	Hydrogen Igniters	D	NS	Manufacturer Std.	Provides Hydrogen Control Following Severe Accidents
VLS-MY-E01A	Catalytic Hydrogen Recombiner A	C	I	Manufacturer Std.	
VLS-MY-E01B	Catalytic Hydrogen Recombiner B	C	I	Manufacturer Std.	
n/a	Fire Dampers	Note 3	NS	UL-555	
Balance of system components are Class E or Class L					
<b>Radwaste Building Ventilation System (VRS)</b>					Location: Radwaste Building
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
n/a	Fire Damper	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del> UL 900	
n/a	Fans, Ductwork	L	NS	<del>ASME N509</del> SMACNA	
Balance of system components are Class E or Class L					
<b>Turbine Building Ventilation System (VTS)</b>					Location: Turbine Building
n/a	Shutoff, Isolation, and Balancing Dampers	L	NS	ANSI/AMCA-500	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del> manufacturer Std.	
n/a	Fans, Ductwork	L	NS	<del>ASME N509</del> manufacturer Std.	
Balance of system components are Class L					
<b>Containment Leak Rate Test System (VUS)</b>					Location: Auxiliary Building
VUS-PL-V015	Main Equipment Hatch Test Connection	B	I	ASME III-2	
VUS-PL-V016	Maintenance Equipment Hatch Test Connection	B	I	ASME III-2	
VUS-PL-V017	Personnel Hatch Test Connection	B	I	ASME III-2	
VUS-PL-V018	Personnel Hatch Test Connection	B	I	ASME III-2	
VUS-PL-V019	Personnel Hatch Test Connection	B	I	ASME III-2	



Table 3.2-3 (Sheet 61 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND  
FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seismic Category	Principal Construction Code	Comments
<b>Central Chilled Water System (Continued)</b>					
VWS-PL-V082	Fan Coolers Return Containment Isolation	B	I	ASME III-2	
VWS-PL-V086	Fan Coolers Return Containment Isolation	B	I	ASME III-2	
VWS-PL-V424	Containment Penetration Test Connection	B	I	ASME III-2	
VWS-PL-V425	Containment Penetration Test Connection	B	I	ASME III-2	
Balance of system components are Class E					
<b>Annex/Auxiliary Nonradioactive Ventilation System (VXS)</b> Location: Auxiliary Building and Annex Building					
n/a	Air Handling Unit Fans Providing AP600 Equipment Class D Function	Note 2	NS	AMCA	
n/a	Dampers Providing VXS AP600 Equipment Class D Function	Note 2	NS	ANSI/AMCA-500	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del> UL 900	
n/c	Fans, Ductwork	L	NS	<del>ASME N509</del> SIMACNA	
Balance of system components are Class E or Class L					
<b>Hot Water Heating System (VYS)</b> Location: Various					
System components are Class E					
<b>Diesel Generator Building Ventilation System (VZS)</b> Location: Diesel Generator Building					
n/a	Unit Heaters Providing AP600 Equipment Class D Function	Note 2	NS	AMCA	
n/a	Fans Providing AP600 Equipment Class D Function	Note 2	NS	AMCA	





Table 3.2-3 (Sheet 62 of 64)

**AP600 CLASSIFICATION OF MECHANICAL AND  
FLUID SYSTEMS, COMPONENTS, AND EQUIPMENT**

Tag Number	Description	AP600 Class	Seis.mic Category	Principal Construction Code	Comments
<b>Diesel Generator Building Ventilation System (Continued)</b>					
n/a	Dampers Providing VZS AP600 Equipment Class D Function	Note 2	NS	AMCA	
n/a	Fire Dampers	Note 3	NS	UL-555	
n/a	Air Handling Units w/ Filters	L	NS	<del>ASME N509</del> ULL 900	
n/a	Fans, Ductwork	L	NS	<del>ASME N509</del> smacna	
Balance of system components are Class E					
<b>Gaseous Radwaste System (WGS)</b>					
Location: Auxiliary Building					
n/a	Gas Cooler	D	NS	ASME VIII/ TEMA	
n/a	Sample Pumps	D	NS	Manufacturer Std.	
n/a	Guard and Delay Beds	D	NS	ASME VIII	Design for 1/2 SSE
n/a	Moisture Separator	D	NS	ASME VIII	
n/a	Valves Providing WGS AP600 Equipment Class D Function	D	NS	ANSI 16.34	
<b>Liquid Radwaste System (WLS)</b>					
Location: Containment and Auxiliary Building					
n/a	Heat Exchangers, WLS and CCS Side	D	NS	ASME VIII/ TEMA	
n/a	Pumps	D	NS	Manufacturer Std.	
n/a	Tanks	D	NS	ASME III without Code Stamp	
n/a	Degasifier	D	NS	ASME VIII	
n/a	Ion Exchangers	D	NS	ASME VIII	
n/a	Filters	D	NS	ASME VIII	
n/a	Valves Providing WLS AP600 Equipment Class D Function (local drain valves in Radwaste Building)	D	NS	ANSI 16.34	

