Tier 1 Tables 2.2.1-1, 2.2.1-2, and 2.2.1-3; and Figure 2.2.1-1

Containment System

Description of Change

Change the tag numbers and the closure time for the containment purge isolation valves. Also provide a precise reference for ITAAC item 6.c in Tier 1 Table 2.2.1-3.

Technical Justification

Certain tag numbers are being changed for consistency with those given in the AP1000 Master Equipment Index. The closure time for the containment purge isolation valves is being changed from 10 to 20 seconds. This value is consistent with the accident dose calculation for the AP1000.

The change to Item 6.c in Tier 1 Table 2.2.1-3 provides a direct reference to the relevant material.

Regulatory Consequence

There is no regulatory effect associated with the changes in certain tag numbers. The change in the closure time for the containment purge isolation valves has no adverse effect on the design function of the valves. There is no change in analysis methodology. The change in the closure time is supported by the accident analysis dose calculations for the AP1000. There is no effect on the FSER. These changes result in changes in Tier 1 information.

Change Markup

Tier 1 Table 2.2.1-1 Revise the "Tag Numbers" for the fourth, fifth, and sixth entries in Tier 1 Table 2.2.1-1 (beginning on the fourth page of the table) as follows on the next page.

Table 2.2.1-1 (cont.)									
Equipment Name	**Tag No.**	**ASME Code Section III**	**Seismic Cat. I**	**Remotely Operated Valve**	**Class 1E/ Qual. for Harsh Envir.**	**Safety-Related Display**	**Control PMS/DAS**	**Active Function**	**Loss of Motive Power Position**
Spare Penetration	CNS-PY-C01~~PL-P40~~	Yes	Yes	-	-/-	-	-/-	-	-
Spare Penetration	CNS-PY-C02~~PL-P41~~	Yes	Yes	-	-/-	-	-/-	-	-
Spare Penetration	CNS-PY-C03~~PL-P42~~	Yes	Yes	-	-/-	-	-/-	-	-

Revise the “Tag Numbers” on the fifth page of Tier 1 Table 2.2.1-1 as follows:

Table 2.2.1-1 (cont.)

Equipment Name	Tag No.	ASME Code Section III	Seismic Cat. I	Remotely Operated Valve	Class 1E/ Qual. for Harsh Envir.	Safety-Related Display	Control PMS/ DAS	Active Function	Loss of Motive Power Position
Maintenance Hatch	CNS-MY-Y02	Yes	Yes	-	-/-	-	-/-	-	-
Personnel Hatch	CNS-MY-Y03	Yes	Yes	-	-/-	-	-/-	-	-
Personnel Hatch	CNS-MY-Y04	Yes	Yes	-	-/-	-	-/-	-	-
Containment Vessel	CNS-MV-0150	Yes	Yes	-	-/-	-	-/-	-	-
Electrical Penetration PE01	ECS-EY-P01XVUS-JY-E01	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE02	ECS-EY-P02XVUS-JY-E02	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE06	ECS-EY-P06YVUS-JY-E06	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE09	ECS-EY-P09WVUS-JY-E09	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE10	ECS-EY-P10WVUS-JY-E10	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE11	ECS-EY-P11ZVUS-JY-E11	Yes	Yes	-	Yes/Yes	-	-/-	-	-

Electrical Penetration PE12	ECS-EY-P12YVUS-JY-E12	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE13	ECS-EY-P13YVUS-JY-E13	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE14	ECS-EY-P14ZVUS-JY-E14	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE15	ECS-EY-P15YVUS-JY-E15	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE16	ECS-EY-P16YVUS-JY-E16	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE18	ECS-EY-P18XVUS-JY-E18	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE21	ECS-EY-P21ZVUS-JY-E21	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE22	ECS-EY-P22XVUS-JY-E22	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE23	ECS-EY-P23XVUS-JY-E23	Yes	Yes	-	Yes/Yes	-	-/-	-	-

Note: Dash (-) indicates not applicable.

Revise the "Tag Numbers" of the sixth page of Tier 1 Table 2.2.1-1 as follows:

Table 2.2.1-1 (cont.)

Equipment Name	Tag No.	ASME Code Section III	Seismic Cat. I	Remotely Operated Valve	Class 1E/ Qual. for Harsh Envir.	Safety-Related Display	Control PMS/ DAS	Active Function	Loss of Motive Power Position
Electrical Penetration PE24	ECS-EY-P24~~VUS-JY-E24~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE25	ECS-EY-P25W~~VUS-JY-E25~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE26	ECS-EY-P26W~~VUS-JY-E26~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE27	ECS-EY-P27Z~~VUS-JY-E27~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE28	ECS-EY-P28Y~~VUS-JY-E28~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE29	ECS-EY-P29Y~~VUS-JY-E29~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE30	ECS-EY-P30Z~~VUS-JY-E30~~	Yes	Yes	-	Yes/Yes	-	-/-	-	-

Electrical Penetration PE31	ECS-EY-P31YVUS-JY-E31	Yes	Yes	-	Yes/Yes	-	-/-	-	-
Electrical Penetration PE32	ECS-EY-P32YVUS-JY-E32	Yes	Yes	-	Yes/Yes	-	-/-	-	-

Note: Dash (-) indicates not applicable.

Tier 1 Table 2.2.1-2 Revise the "Line Numbers" in Tier 1 Table 2.2.1-2 for the first, second, and fifth entries as follows:

Table 2.2.1-2

Line Name	Line Number	ASME Code Section III
Instrument Air In	CAS-PL-L014, L015~~6~~	Yes
Service Air In	CAS-PL-L204, L210	Yes
Demineralized Water In	DWS-PL-L245, L230	Yes

Tier 1 Table 2.2.1-3 Revise items 6.c) and 7 in Tier 1 Table 2.2.1-3 as follows:

Table 2.2.1-3 (cont.)
Inspections, Tests, Analyses, and Acceptance Criteria

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
6.c) Separation is provided between CNS Class 1E divisions, and between Class 1E divisions and non-Class 1E cable.	See Tier 1 Material, Table 3.3-6, item 7.d.~~Section 3.3, Nuclear Island Buildings~~.	See Tier 1 Material, Table 3.3-6, item 7.d.~~Section 3.3, Nuclear Island Buildings~~.
7. The CNS provides the safety-related function of containment isolation for containment boundary integrity and provides a barrier against the release of fission products to the atmosphere.	i) A containment integrated leak rate test will be performed. ii) Testing will be performed to demonstrate that remotely operated containment isolation valves close within the required response times.	i) The leakage rate from containment for the integrated leak rate test is less than La. ii) The containment purge isolation valves (VFS-PL-V003, -V004, -V009, and -V010) close within 20~~10~~ seconds, SGS valves SGS-PL-V040A/B and SGS-PL-V057A/B are covered in Tier 1 Material, subsection 2.2.4, Table 2.2.4-4 (item 11.b.ii) and all other containment isolation valves close within 60 seconds upon receipt of an actuation signal.

Tier 1 Figure 2.2.1-1 Revise Tier 1 Figure 2.2.1-1 as follows:

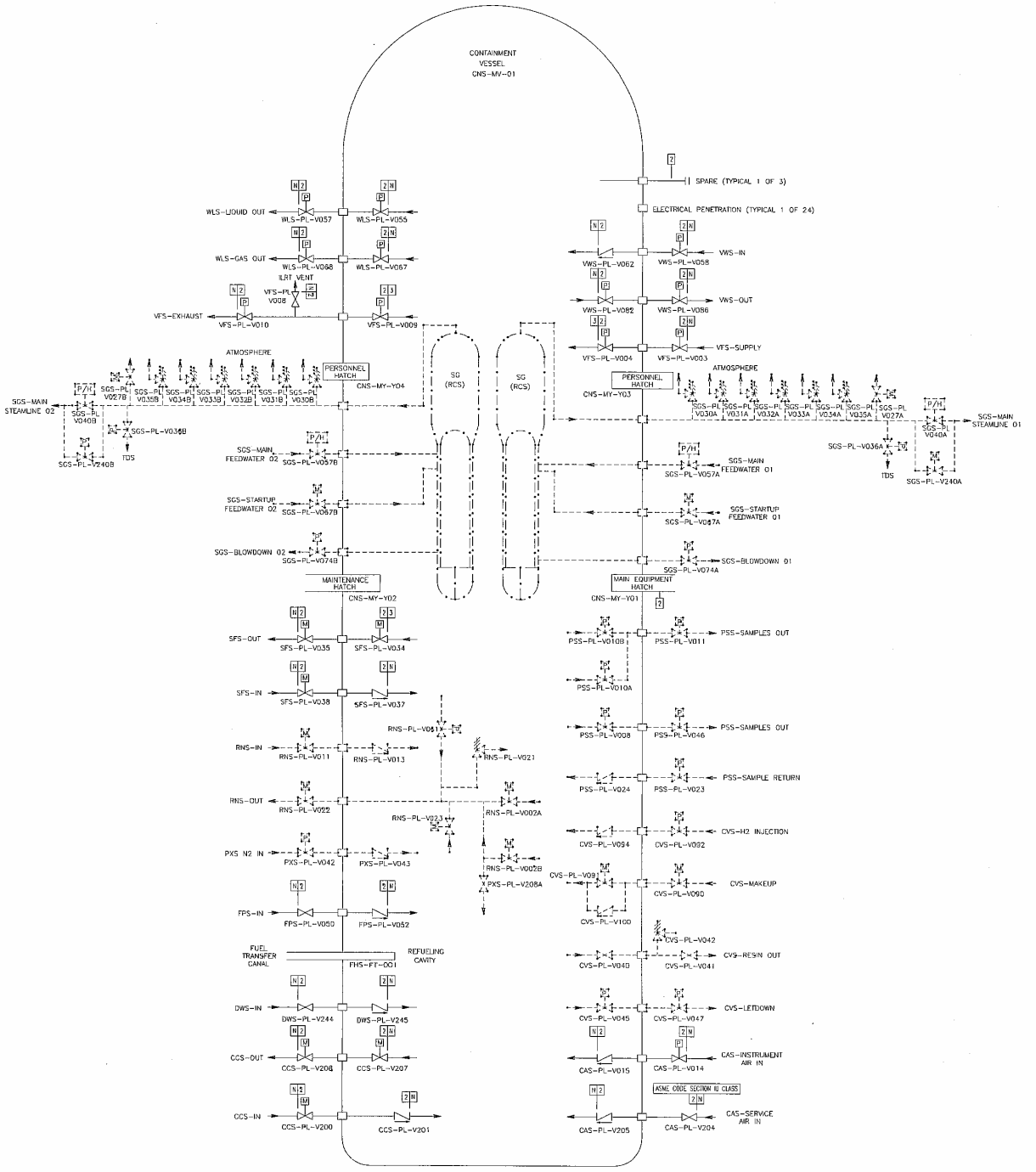

Figure 2.2.1-1
Containment System