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Your ref: Docket No. 52-006  
Our ref: DCP\_NRC\_003039

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Subject: AP1000 Response to Request for Additional Information (SRP 01)

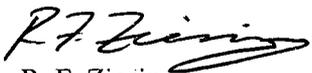
Westinghouse is submitting a response to the NRC request for additional information (RAI) on SRP Section 01. This RAI response is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information included in this response is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

Enclosure 1 provides the response for the following RAI(s):

RAI-Intro-NWE2-01

Questions or requests for additional information related to the content and preparation of this response should be directed to Westinghouse. Please send copies of such questions or requests to the prospective applicants for combined licenses referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

Very truly yours,

  
R. F. Ziesing  
Director, U.S. Licensing

/Enclosure

1. Response to Request for Additional Information on SRP Section 01

cc: D. Jaffe - U.S. NRC 1E  
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ENCLOSURE 1

Response to Request for Additional Information on SRP Section 01

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

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RAI Response Number: RAI-Intro-NWE2-01  
Revision: 0

### **Question:**

The Staff requests that Westinghouse remove the table entry in DCD Introduction Table 1-1 related to the 2001 Edition of ASME Code, Section III, including 2002 Addenda as the Edition of the ASME Code and Addenda is specified in 10 CFR 50.55a and need not be included in the DCD.

### **Westinghouse Response:**

The subject entry in Table 1-1 of the DCD Introduction correctly identifies the Tier 2\* designation of the edition and addenda of the ASME Boiler and Pressure Vessel Code used for the AP1000 Containment Design. The response to RAI-SRP5.2.1.-EMB-05 added the phrase "for containment design" to this item in Table 1-1 and removed the reference to 5.2.1.1. the response to RAI-SRP5.2.1-EMB-05 also added an entry to Table 1-1 for designation of the ASME Code edition and addenda in Subsection 5.2.1.1 as Tier 2\* information.

10CFR50.55a identified the editions and addenda of the ASME Boiler and Pressure Vessel Code that may and must be used for the construction of Nuclear power plants. The identification of the specific edition and addendum to be used for the design of the AP1000 is identified in DCD Subsection 5.2.1.1.

As requested by the NRC staff during an August 2010 phone call the designation of the 1998 Edition, 2000 Addendum will be changed from Tier 2\* to Tier 2 as shown in the DCD mark-up below. The entry for Subsection 5.2.1.1 in Table 1-1 will also be revised to refer to piping restrictions.

### **References:**

### **Design Control Document (DCD) Revision:**

Revise the entry in Table 1-1 of the DCD Introduction that refers to the ASME Code information in Subsection 5.2.1.1 as shown below.

Note: The DCD mark-up includes the revisions to the table included as part of the response to RAI-SRP5.2.1.1-EMB-05.

# AP1000 TECHNICAL REPORT REVIEW

## Response to Request For Additional Information (RAI)

Item	Expiration at First Full Power	Tier 2 Reference
Reactivity Requirements for Rod Cluster Control Assemblies	Yes	Table 4.3-3
<del>Baseline-ASME Code Edition and Addenda</del> Piping Design Restrictions	Yes	5.2.1.1
MOV Design and Qualification	Yes	5.4.8.1.2
Other Power-Operated Valves Design and Qualification	Yes	5.4.8.1.3
Motor Operated Valves	Yes	5.4.8.5.2
Power Operated Valves	Yes	5.4.8.5.3
ASME Code Cases	Yes	Table 5.2-3

Revise the second paragraph of Subsection 5.2.1.1 as follows:

The text underlined is changed from italic to standard font to indicate the change from Tier 2\* to Tier 2.

The edition and addenda of the ASME Code applied in the design and manufacture of each component are the edition and addenda established by the requirements of the Design Certification. The use of editions and addenda issued subsequent to the Design Certification is permitted or required based on the provisions in the Design Certification. The baseline used for the evaluations done to support this safety analysis report and the Design Certification is the 1998 Edition, 2000 Addenda, [with an additional restriction for piping design.

*The restriction on piping design is that the treatment of dynamic loads, including seismic loads, in pipe stress analysis will satisfy the requirements of the ASME Code, Section III, Subarticles NB-3210, NB-3220, NB-3620, NB-3650, NC-3620, NC-3650, ND-3620, and ND-3650 1989 Edition, 1989 Addenda. The requirements shown below for fillet welds are also applicable.*

Subsequent paragraphs not altered.

**PRA Revision:**

None

**Technical Report (TR) Revision:**

None