

## ArevaEPRDCPEm Resource

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**From:** WILLIFORD Dennis (AREVA) [Dennis.Williford@areva.com]  
**Sent:** Wednesday, February 27, 2013 7:12 PM  
**To:** Snyder, Amy  
**Cc:** Miernicki, Michael; DELANO Karen (AREVA); LEIGHLITER John (AREVA); ROMINE Judy (AREVA); RYAN Tom (AREVA); WILLS Tiffany (AREVA); WELLS Russell (AREVA)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 8  
**Attachments:** RAI 404 Supplement 8 Response US EPR DC.pdf

Amy,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions. Supplement 3 submitted on August 27, 2010, Supplement 4 submitted on September 21, 2010, and Supplement 5 submitted on November 19, 2010 provided a revised schedule for the response to the remaining question (i.e., 03.09.03-24). Supplement 6 submitted on December 23, 2010 provided a technically correct and complete response to the remaining question. Supplement 7 submitted on October 4, 2012 provided a technically correct and complete revised response to Question 03.09.03-24.

The attached file, "RAI 404 Supplement 8 Response US EPR DC.pdf" provides a technically correct and complete revised response to Question 03.09.03-24.

This revised final response provides minor changes to the list of the ASME Class 1, 2, and 3 design specifications for the U.S. EPR as presented to NRC at a public meeting on August 15, 2012. Change bars are provided in the revised RAI response to assist in the NRC review. As noted in the attached RAI response, these design specification will be available for NRC inspection by June 30, 2013 either in our Lynchburg, VA., or Charlotte, NC offices at the NRC's convenience.

The following table indicates the respective pages in the response document, "RAI 404 Supplement 8 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 404 — 03.09.03-24	2	5

This concludes the formal AREVA NP response to RAI 404, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

***Dennis Williford, P.E.***  
***U.S. EPR Design Certification Licensing Manager***  
***AREVA NP Inc.***  
7207 IBM Drive, Mail Code CLT 2B  
Charlotte, NC 28262  
Phone: 704-805-2223  
Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

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**From:** RYAN Tom (RS/NB)  
**Sent:** Thursday, October 04, 2012 3:16 PM

**To:** Tesfaye, Getachew

**Cc:** BENNETT Kathy (RS/NB); DELANO Karen (RS/NB); LEIGHLITER John (RS/NB); ROMINE Judy (RS/NB); RYAN Tom (RS/NB); WILLIFORD Dennis (RS/NB); WELLS Russell (RS/NB)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 7

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions. Supplement 3 submitted on August 27, 2010, Supplement 4 submitted on September 21, 2010, and Supplement 5 submitted on November 19, 2010 provided a revised schedule for the response to the remaining question (i.e., 03.09.03-24). Supplement 6 submitted on December 23, 2010 provided a technically correct and complete response to the remaining question.

The attached file, "RAI 404 Supplement 7 Response US EPR DC.pdf" provides a technically correct and complete revised response to question 03.09.03-24.

This revised RAI response provides an updated list of the ASME Class 1, 2, and 3 design specifications for the U.S. EPR as presented to NRC at a public meeting on August 15, 2012. As noted in the attached RAI response, these design specification will be available for NRC inspection by June 30, 2013 in our Lynchburg, VA., office.

The following table indicates the respective pages in the response document, "RAI 404 Supplement 7 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 404 — 03.09.03-24	2	5

This concludes the formal AREVA NP response to RAI 404, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

**Tom Ryan for  
Dennis Williford, P.E.  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.**

7207 IBM Drive, Mail Code CLT 2B

Charlotte, NC 28262

Phone: 704-805-2223

Email: [Dennis.Williford@areva.com](mailto:Dennis.Williford@areva.com)

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Thursday, December 23, 2010 2:07 PM

**To:** Tesfaye, Getachew

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB); 'Miernicki, Michael'; 'Carneal, Jason'

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 6

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a

response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions. Supplement 3 submitted on August 27, 2010, Supplement 4 submitted on September 21, 2010, and Supplement 5 submitted on November 19, 2010 provided a revised schedule for the response to the remaining question (i.e., 03.09.03-24).

The attached file, "RAI 404 Supplement 6 Response US EPR DC.pdf" provides a technically correct and complete response to the remaining question, as committed.

The following table indicates the respective pages in the response document, "RAI 404 Supplement 6 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 404 — 03.09.03-24	2	4

This concludes the formal AREVA NP response to RAI 404, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)

**Sent:** Friday, November 19, 2010 11:30 AM

**To:** 'Teshaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB); 'Miernicki, Michael'

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 5

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions. Supplement 3 submitted on August 27, 2010 and Supplement 4 submitted on September 21, 2010 provided a revised schedule for the response to the remaining question (i.e., 03.09.03-24).

The schedule for a technically correct and complete FINAL response to the remaining RAI 404 question has been revised to allow time for interaction with NRC.

Question #	Response Date
RAI 404 — 03.09.03-24	January 28, 2011

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Tuesday, September 21, 2010 1:20 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 4

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions. Supplement 3 was submitted on August 27, 2010 which provided a revised schedule for the response to the remaining question (i.e., 03.09.03-24).

The schedule for a technically correct and complete final response to the remaining RAI 404 question has been revised to allow time for interaction with NRC.

Question #	Response Date
RAI 404 — 03.09.03-24	November 19, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (External RS/NB)  
**Sent:** Friday, August 27, 2010 10:43 AM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 3

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a

response to 8 of the 10 questions. Supplement 2 was submitted on August 11, 2010, which provided a response to 1 of the 2 remaining questions.

A draft of the response to the remaining question (i.e., 03.09.03-24) was provided to the NRC on July 1, 2010. The schedule for a technically correct and complete FINAL response to the remaining RAI 404 question has been revised to allow time for interaction with NRC on the draft response.

Question #	Response Date
RAI 404 — 03.09.03-24	September 24, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Wednesday, August 11, 2010 8:21 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB); CORNELL Veronica (EXT)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 2

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. Supplement 1 was submitted on July 30, 2010, which provided a responses to 8 of the 10 questions. The attached file, "RAI 404 Supplement 2 Response US EPR DC.pdf," provides a response to 1 of the 2 remaining questions.

The following table indicates the respective pages in the response document, "RAI 404 Response Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 404 — 03.09.03-25	2	2

The schedule for a technically correct and complete FINAL response to the remaining RAI 404 question is unchanged and provided below.

Question #	Response Date
RAI 404 — 03.09.03-24	August 30, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)

**Sent:** Friday, July 30, 2010 3:38 PM

**To:** 'Tesfaye, Getachew'

**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); WELLS Russell (RS/NB); CORNELL Veronica (EXT)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM, Supplement 1

Getachew,

AREVA NP Inc. provided a schedule for a technically correct and complete response to the 10 Open Item questions of RAI No. 404 on June 30, 2010. The attached file, "RAI 404 Supplement 1 Response US EPR DC.pdf," provides a response to 8 of the 10 questions.

Appended to this file is the affected page of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 404 Questions 03.09.01-5, 03.09.01-7, and 03.09.01-10

The following table indicates the respective pages in the response document, "RAI 404 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 404 — 03.09.01-5	2	3
RAI 404 — 03.09.01-6	4	4
RAI 404 — 03.09.01-7	5	5
RAI 404 — 03.09.01-8	6	6
RAI 404 — 03.09.01-9	7	7
RAI 404 — 03.09.01-10	8	9
RAI 404 — 03.09.01-11	10	10
RAI 404 — 03.09.01-12	11	11

On July 1, 2010, AREVA requested a discussion with the NRC regarding the proposed response to RAI 404. The revised schedule shown below assumes the discussion with NRC occurs prior to August 15, 2010. Accordingly, the schedule for a technically correct and complete FINAL response to the remaining RAI 404 questions has been revised and is provided below.

Question #	Response Date
RAI 404 — 03.09.03-24	August 30, 2010
RAI 404 — 03.09.03-25	August 30, 2010

Sincerely,

Martin (Marty) C. Bryan

U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** BRYAN Martin (EXT)  
**Sent:** Wednesday, June 30, 2010 5:50 PM  
**To:** 'Tesfaye, Getachew'  
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); SLAY Lysa M (AREVA NP INC); WELLS Russell D (AREVA NP INC)  
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch. 3 OPEN ITEM

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 404 Response US EPR DC.pdf," provides a schedule for the responses to the 10 questions.

The following table indicates the respective pages in the response document, "RAI 404 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 404 — 03.09.01-5	2	2
RAI 404 — 03.09.01-6	3	3
RAI 404 — 03.09.01-7	4	4
RAI 404 — 03.09.01-8	5	5
RAI 404 — 03.09.01-9	6	6
RAI 404 — 03.09.01-10	7	7
RAI 404 — 03.09.01-11	8	8
RAI 404 — 03.09.01-12	9	9
RAI 404 — 03.09.03-24	10	10
RAI 404 — 03.09.03-25	11	11

A complete answer is not provided for the 10 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 404 — 03.09.01-5	July 30, 2010
RAI 404 — 03.09.01-6	July 30, 2010
RAI 404 — 03.09.01-7	July 30, 2010
RAI 404 — 03.09.01-8	July 30, 2010
RAI 404 — 03.09.01-9	July 30, 2010
RAI 404 — 03.09.01-10	July 30, 2010
RAI 404 — 03.09.01-11	July 30, 2010
RAI 404 — 03.09.01-12	July 30, 2010
RAI 404 — 03.09.03-24	July 30, 2010
RAI 404 — 03.09.03-25	July 30, 2010

Sincerely,

Martin (Marty) C. Bryan  
U.S. EPR Design Certification Licensing Manager  
AREVA NP Inc.  
Tel: (434) 832-3016  
702 561-3528 cell  
[Martin.Bryan.ext@areva.com](mailto:Martin.Bryan.ext@areva.com)

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**From:** Tesfaye, Getachew [<mailto:Getachew.Tesfaye@nrc.gov>]

**Sent:** Tuesday, June 01, 2010 9:49 AM

**To:** ZZ-DL-A-USEPR-DL

**Cc:** Wu, Cheng-Ih; Le, Tuan; Dixon-Herrity, Jennifer; Patel, Jay; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource

**Subject:** U.S. EPR Design Certification Application RAI No. 404(4692, 4684),FSAR Ch. 3 OPEN ITEM

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on May 11, 2010, and discussed with your staff on June 1, 2010. No changes were made to the draft RAI as a result of that discussion. The questions in this RAI are OPEN ITEMS in the safety evaluation report for Chapter 3, Group 2 sections in Phases 2 and 3 reviews. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,  
Getachew Tesfaye  
Sr. Project Manager  
NRO/DNRL/NARP  
(301) 415-3361



**Hearing Identifier:** AREVA\_EPR\_DC\_RAIs  
**Email Number:** 4240

**Mail Envelope Properties** (554210743EFE354B8D5741BEB695E6560E82FF)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 404, FSAR Ch.  
3 OPEN ITEM, Supplement 8  
**Sent Date:** 2/27/2013 7:11:32 PM  
**Received Date:** 2/27/2013 7:11:39 PM  
**From:** WILLIFORD Dennis (AREVA)

**Created By:** Dennis.Williford@areva.com

**Recipients:**

"Miernicki, Michael" <Michael.Miernicki@nrc.gov>  
Tracking Status: None  
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>  
Tracking Status: None  
"LEIGHLITER John (AREVA)" <John.Leighliter@areva.com>  
Tracking Status: None  
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>  
Tracking Status: None  
"RYAN Tom (AREVA)" <Tom.Ryan@areva.com>  
Tracking Status: None  
"WILLS Tiffany (AREVA)" <Tiffany.Wills@areva.com>  
Tracking Status: None  
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Tracking Status: None  
"Snyder, Amy" <Amy.Snyder@nrc.gov>  
Tracking Status: None

**Post Office:** FUSLYNCMX03.fdom.ad.corp

Files	Size	Date & Time
MESSAGE	17386	2/27/2013 7:11:39 PM
RAI 404 Supplement 8 Response US EPR DC.pdf		83368

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

**Response to**

**Request for Additional Information No. 404(4692, 4684), Supplement 8**

**6/01/2010**

**U. S. EPR Standard Design Certification**

**AREVA NP Inc.**

**Docket No. 52-020**

**SRP Section: 03.09.01 - Special Topics for Mechanical Components**

**SRP Section: 03.09.03 - ASME Code Class 1, 2, and 3 Components**

**Application Section: 3.9**

**QUESTIONS for Engineering Mechanics Branch 1 (AP1000/EPR Projects) (EMB1)**

**Question 03.09.03-24:****OPEN ITEM****Follow-up to the RAI 178, Question 03.09.03-18:**

In RAI 107, Question 3.9.3-4, the staff requested that AREVA commit to provide the ASME Design Specifications of risk-significant mechanical components, as a minimum, for NRC audit prior to certification. This is to ensure that the components are ready for procurement, and that the FSAR design methodologies and criteria are adequately reflected in the associated component ASME Design Specifications. For the ASME Design Reports, the staff requests that AREVA discuss in the FSAR its plan and schedule for making the design reports of EPR mechanical components available for NRC audit, e.g., through an ITAAC, to ensure that AREVA has established a procedure to verify the completion of the EPR component design.

By email letter dated December 1, 2008, AREVA states that a representative sample of the design specifications will be available for NRC inspection beginning April 1, 2009. In order for the staff to reach a reasonable assurance finding based on the requirements of 10 CFR 52.47, the staff requests the applicant make available for audit the ASME Design Specifications for all risk-significant mechanical components, not just a representative sample, prior to the certification of the U.S. EPR design.

**Response to Question 03.09.03-24:**

This response to RAI 404, Question 03.09.03-24, supersedes in its entirety the response provided to RAI 404, Question 03.09.03-24, in Supplement 7. The only revision to this RAI response was an update to Table 03.09.03-24-1.

Table 03.09.03-24-1 lists all of the ASME Class 1, 2, and 3 design specifications for the U.S. EPR, not just a representative sample, as presented to NRC at a public meeting on August 15, 2012. These design specification will be available for NRC inspection by June 30, 2013 in either our Lynchburg, VA or Charlotte, NC offices at the convenience of NRC. AREVA NP requests NRC feedback as to which specifications listed in Table 03.09.03-24-1 that the NRC would prefer to review.

The regulatory basis of the request made by the NRC that AREVA NP “discuss in the FSAR its plan and schedule for making the design reports of EPR mechanical components available for NRC audit, e.g., through an ITAAC, to ensure that AREVA has established a procedure to verify the completion of the EPR component design” is not clear. Neither RG 1.206, Section C.I.3.9.3, nor SRP 3.9.3 request this information in the Design Certification FSAR. In fact RG 1.206, Section C.I.3.9.3 states: “The applicant should in the COL application propose an appropriate method (e.g., ITAAC, license condition, FSAR) to ensure that the as-built plant is consistent with the design reviewed during the licensing process.” ITAAC have been established to verify that the as-built plant is consistent with the U.S. EPR design (e.g., U.S. EPR FSAR Tier 1, Table 2.2.1- 5).

**FSAR Impact:**

The U.S. EPR FSAR will not be changed as a result of this question.

**Table 03.09.03-24-1****U.S. EPR ASME Class 1, 2, and 3 Design Specifications Available for NRC Inspection**

<b>Specification</b>	<b>Classification</b>
<b>Reactor Coolant System Components, Supports, Piping</b>	
Control Rod Drive Mechanism	Component
Fuel Transfer Tube Assembly (Tube, Containment Isolation Valves, Supports)	Component
Main Coolant and Surge Line Piping	Component
Pressurizer	Component
Pressurizer Class 1 Solenoid Operated Valve	Component
Pressurizer Heater	Component
Pressurizer Safety Relief Valve	Component
Reactor Coolant Pump	Component
Reactor Pressure Vessel	Component
Reactor Pressure Vessel Internals	Component
RPV Head Equipment	Component
RPV Incore Instrumentation; Closure Hardware; (lance; yoke; fingers)	Component
Steam Generator	Component
<b>Reactor Coolant System Component Supports</b>	
Reactor Pressure Vessel Support Ring	Component
RCS Supports (Except Reactor Pressure Vessel Support Ring) <ul style="list-style-type: none"> <li>Reactor Coolant Pumps (RCP) Vertical Supports</li> <li>Pressurizer (PZR) Vertical Supports</li> <li>PZR Horizontal Restraints</li> <li>PZR Surge Line (SL) Hangers</li> </ul>	Component
Steam Generator and RCS Snubbers	Component
SG Supports and Restraints	Component
<b>Non-RCS Piping, Supports, In-Line Components</b>	
ASME Section III (Safety Related) In-line Filter	Generic
ASME Class 1 Check Valves (2-1/2" and larger)	Generic
ASME Class 1 Motor Operated Gate Valve	Generic
ASME Class 1 Motor Operated Globe Valve	Generic
Small LP Class 1 Gate, Globe & Check Valves	Generic
Small HP Class 1 Gate, Globe & Check Valves	Generic
ASME Class 1 Supports	Generic
ASME Class 1 2/3 Piping	Generic
ASME Class 2/3 Flow Restrictor	Generic

Class 2 and 3 Pumps and Valves	
ASME Section III Pumps	Generic
Class 2 and 3 Control Valves	Generic
Class 2 and 3 Diaphragm Valves	Generic
Class 2 and 3 Solenoid Operated Valves	Generic
Class 2 and 3 Wafer Check Valves	Generic
Feedwater Damped Check Valve	Component
Class 2 and 3 Butterfly Valves	Generic
Large HP Class 2 and 3 Gate, Globe & Check Valves	Generic
Large LP Class 2 and 3 Gate, Globe & Check Valves	Generic
Main Feedwater Control Valve	Component
Main Steam and Full Load Feedwater Isolation Valves	Component
Main Steam Relief Control Valve	Component
Main Steam Relief Isolation Valve	Component
Main Steam Relief Train Silencer	Component
Main Steam Safety Valves	Component
Metal Seated Class 2 and 3 Ball Valves	Generic
Miscellaneous Class 2 and 3 Ball Valves	Generic
Miscellaneous Class 2 and 3 Plug Valves	Generic
Miscellaneous Class 2 and 3 Safety Valves	Generic
SG Blowdown Flow Control Valves	Component
Small HP Class 2 and 3 Gate, Globe & Check Valves	Generic
Small LP Class 2 and 3 Gate, Globe & Check Valves	Generic
Miscellaneous Components	
Water Cooled Chillers	Generic
Air Cooled Chillers	Generic
Air Handling Units	Generic
Packaged A/C Units	Generic
Emergency Diesel Generator	Component
Tanks and Heat Exchangers	
Accumulator	Component
ASME Class 2\3 Plate Heat Exchanger	Generic
ASME Class 2\3 Shell and Tube Heat Exchanger	Generic
ASME Class 2\3 Vessel and Tank	Generic
Attachment Specifications	
Equipment Qualification	Generic
Equipment Qualification Requirements for Valve	Generic
Safety Related Control Valve and Damper Actuator	Generic

Safety Related Isolation Valve and Damper Actuator	Generic
Safety Related Low Voltage Motors	Generic
Safety Related Medium Voltage Motors	Generic