



TN-B1 Project

Docket No. 71-9372

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Agenda

- ▶ RAJ-II Container License from an AREVA NP Perspective
- ▶ ATRIUM 11 Fuel Design
- ▶ AREVA NP Container Plans
- ▶ Discussion/Feedback

RAJ-II Container License from an AREVA NP Perspective

- ▶ **Current RAJ-II CoC (Rev 9 to USA/9309/B(U)F-96)**
 - ◆ Based upon revision 7 to the SAR. This revision of the SAR supports both current GNF and AREVA NP BWR designs.
 - ◆ Current CoC expires in November 2014
- ▶ **GNF Proposed revision to SAR**
 - ◆ GNF has submitted a revision 8 to the SAR.
 - ◆ GNF responded to NRC RAIs on 7/23/13
 - ◆ This revision would amend the SAR to cover GNF and Westinghouse BWR designs.
 - ◆ AREVA NP declined to participate in this version of the SAR due to commercial reasons.



ATRIUM 11

- ▶ **ATRIUM 11 is the next generation of AREVA's BWR fuel design.**
 - ◆ Technical aspects of the ATRIUM 11 fuel design were discussed during the “2013 Fuel Performance” meeting with the NRC from 18 to 20 June 2013.
- ▶ **ATRIUM 11 Lead Test Assemblies (LTAs) will be shipped from Richland to the host utility plant in the December 2014 to January 2015 timeframe.**
- ▶ **Reloads of ATRIUM 11s are anticipated in approximately 2019.**
- ▶ **Current CoC for RAJ-II does not support the ATRIUM 11 design.**



AREVA NP Container Plans

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AREVA NP Presentation to NRC on TN-B1 Shipping Container - p.6



ATRIUM 11 LTA Shipment(s)

- ▶ AREVA would propose conducting the LTA shipment as a “Specific Exemption” shipment under 10 CFR 71.12
- ▶ Shipment would be in RAJ-II shipping container
- ▶ Number of fuel assemblies in the shipping container will likely be limited to a single assembly.
- ▶ Number of shipping containers on the truck will likely be limited.
- ▶ Number of “Specific Exemption” shipments will be limited. Only LTAs will be shipped as “Specific Exemption” .
- ▶ A criticality safety analysis, already underway, will be submitted in support of the “Specific Exemption” shipment(s).

TN-B1 Shipping Container

- ▶ **AREVA intends to license the RAJ-II container design as the TN-B1 for AREVA BWR Fuel Designs.**
- ▶ **Two possible paths for submittal of the TN-B1 application**
 - ◆ **Sequential submittals**
 - The first submittal of the TN-B1 license application would license the container only for current AREVA BWR fuel designs included in the existing RAJ-II Rev 9 CoC and would not include the ATRIUM 11. It would be essentially identical to the rev 7 SAR of the RAJ-II, with GNF fuel designs removed.
 - The second submittal of the TN-B1 license application would include the ATRIUM 11 design. As this is a new advanced fuel design, there would be significant differences between this SAR and the rev 7 SAR of the RAJ-II.
 - ◆ **Single submittal**
 - A single submittal, which would include the ATRIUM 11 design, would be submitted. It would be significantly different from the rev 7 SAR of the RAJ-II.



Discussion/Feedback

▶ LTA shipment as an “Specific Exemption” shipment under 10 CFR 71.12

- ◆ Feasibility
- ◆ Timeframe

▶ TN-B1 application

◆ Sequential submittals

- As the first submittal of the TN-B1 license application would be essentially identical to the rev 7 SAR of the RAJ-II, AREVA’s thought is that the review and approval process would be simplified.
- While the first submittal would hopefully be simplified, having two submittals means two reviews and approvals, increasing the demand on NRC and AREVA resources.

◆ Single submittal

- A single submittal would be significantly different from the rev 7 SAR of the RAJ-II, making the review and approval more complex. While this process is more complex, there would be a single submittal which may be more desirable for NRC and AREVA resources.
- Timeframe for this option may necessitate renewal/extension of the RAJ-II CoC Rev 9 past November 2014.

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Questions?

