



October 9, 2015  
NRC:15:038

U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

**Request for Review and Approval of ANP-10338P, "AREA™ - ARCADIA® Rod Ejection Accident"**

AREVA Inc. (AREVA) requests the NRC's review and approval of the topical report ANP-10338P, "AREA™ - ARCADIA® Rod Ejection Accident" for referencing in licensing actions.

This report presents a methodology for the evaluation of a control rod ejection accident in a Pressurized Water Reactor (PWR). The methodology is used to demonstrate compliance with the criteria specified in NUREG-0800, Section 4.2, Appendix B. NUREG-0800, Section 4.2, Appendix B contains the current Nuclear Regulatory Commission criteria for a control rod ejection accident. The methodology is consistent with the guidance in Regulatory Guide 1.77, and NUREG-0800, Section 15.4.8.

In support of the Office of Nuclear Reactor Regulation's prioritization efforts, the Topical Report Prioritization Scheme is included as an enclosure with this letter.

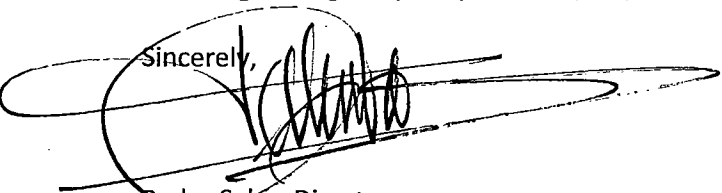
AREVA would appreciate the NRC approval of this topical report by September 2017.

AREVA considers some of the material contained in the enclosed document to be proprietary. As required by 10 CFR 2.390(b), an affidavit is enclosed to support the withholding of the information from public disclosure. A proprietary version and a non-proprietary version of the report are enclosed.

There are no commitments within this letter or its enclosures.

If you have any questions related to this information, please contact Ms. Gayle F. Elliott, Product Licensing Manager, by telephone at (434) 832-3347, or by e-mail at [Gayle.Elliott@areva.com](mailto:Gayle.Elliott@areva.com).

Sincerely,



Pedro Salas, Director  
Licensing & Regulatory Affairs  
AREVA Inc.

cc: J. G. Rowley  
Project 728

**AREVA INC.**

3315 Old Forest Road, Lynchburg, VA 24501  
Tel.: 434 832 3000 - [www.areva.com](http://www.areva.com)

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Enclosures:

1. Proprietary version of ANP-10338, "AREA™ - ARCADIA® Rod Ejection Accident," October 2015.
2. Non-Proprietary version of ANP-10338, "AREA™ - ARCADIA® Rod Ejection Accident," October 2015.
3. Topical Report Prioritization Scheme
4. Notarized Affidavit



requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA to determine whether information should be classified as proprietary:

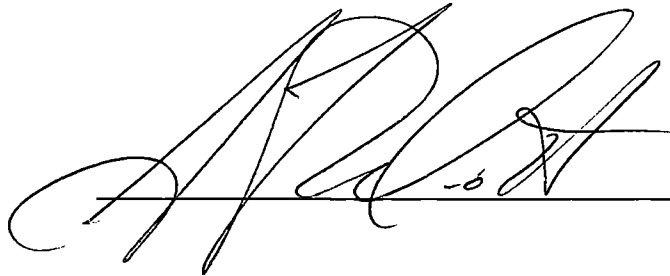
- (a) The information reveals details of AREVA's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA, would be helpful to competitors to AREVA, and would likely cause substantial harm to the competitive position of AREVA.

The information in this Document is considered proprietary for the reasons set forth in paragraphs 6(c) through 6(e) above.

7. In accordance with AREVA's policies governing the protection and control of information, proprietary information contained in this Document has been made available, on a limited basis, to others outside AREVA only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

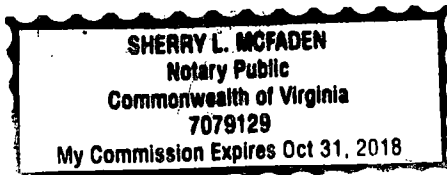
9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

A large, stylized handwritten signature in black ink, written over a horizontal line.

SUBSCRIBED before me this 9<sup>th</sup>  
day of October, 2015.

A handwritten signature in black ink, written over a horizontal line.

Sherry L. McFaden  
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA  
MY COMMISSION EXPIRES: 10/31/18  
Reg. # 7079129



TR Prioritization Scheme			
Title: ANP-10338P Revision 0, "ARCADIA® Rod Ejection Accident"			
Expect submitting FY	TAC	PM	Today's Date:
Technical Review Division(s)		Technical Review Branch(s)	
Factors	Select the Criteria That the TR satisfies	Points can be Assigned for Each Criteria	Assigned Points
TR Classification (Select one only)	Resolve Generic Safety Issue (GSI)	6	3
	Emergent NRC Technical Issue	3	
	New technology improves safety	2	
	TR Revision reflecting current requirements or analytical methods.	2	
	Standard TR	1	
TR Applicability (Select one only)	Potential industry-wide applications	3	2
	Potentially applicable to entire groups of licensees.	2	
	Intended for only partial groups of licensees.	1	
TR Implementation Certainty (Select one only)	Industry-wide Implementation expected	3	0
	Expected implementation by an entire group of licensees (BWROG, PWROG, BWRVIP, etc.) who sponsored the TR.	2	
	Docketed intent by U.S. plant(s) but no formal LAR schedule yet	1	
	No US plants have indicated strong intent on docket to implement yet.	0	
Tie to a LAR (Select if applicable)	A SE is requested by a certain date (less than two years) to support a licensing activity or renewal date (note it in Comments)	3	0
Review Progress (Points are cumulative as applicable)	Accepted for review	0.3	
	RAI issued	0.5	
	RAI responded	1.2	
	SE Drafted	2.0	
Management (LT/ET) discretion adjustment		-3 to +3	
Total Points (Add the total points from each factor and total here):			5
Comments: This topical report addresses the current criteria in NUREG-0800 Section 4.2 Appendix B. These criteria are a revision to the previous criteria contained in Regulatory Guide 1.77.			