

RS-02-126

July 3, 2002

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Quad Cities Nuclear Power Station, Unit 1  
Facility Operating License No. DPR-29  
NRC Docket No. 50-254

Subject: Supplemental Information Supporting the Request for Technical Specification Changes for Minimum Critical Power Ratio Safety Limit

- References:
- 1) Letter from Keith R. Jury (Exelon Generation Company, LLC) to U. S. NRC, "Request for Technical Specifications Change for Minimum Critical Power Ratio Safety Limit," dated April 8, 2002
  - 2) Letter from P. R. Simpson (Exelon Generation Company, LLC) to U. S. NRC, "Supplemental Information Supporting the Request for Technical Specification Changes for Minimum Critical Power Ratio Safety Limit," dated June 18, 2002

In reference 1, Exelon Generation Company, LLC requested approval for a Technical Specifications (TS) change for the Minimum Critical Power Ratio Safety Limit for Quad Cities Nuclear Power Station (QCNPS), Unit 1 Cycle 17A for both two loop operation (TLO) and single loop operation (SLO). Reference 2 provided additional requested information regarding core loading patterns and calculations of Safety Limit MCPR (SLMCPR) for Quad Cities 1 Cycle 17A (QC1C17A).

During conversations with the NRC on June 25, 2002, Mr. Fred Lyon requested additional information clarifying the effects channel bow have on the SLMCPR analysis when using NRC approved methodology ANF-524(P)(A). Attachment A contains the requested information.

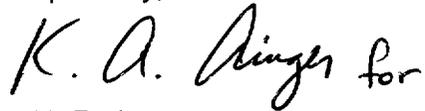
Please note the information in Attachment A is classified as proprietary to our fuel supplier, Framatome ANP (FRA - ANP). The proprietary information is of the type that FRA - ANP maintains in confidence and withholds from public disclosure. It has been handled and classified as proprietary as supported by the affidavit in Attachment C. We request that this information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.790 "Public inspections, exemptions, requests for withholding." Attachment B provides a non-proprietary version of this information.

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Should you have any questions concerning this letter, please contact Mr. Don Cecchett at (630) 657-2826.

Respectfully,

A handwritten signature in black ink that reads "K. A. Ringler for". The signature is written in a cursive style.

Keith R. Jury  
Director – Licensing  
Mid-West Regional Operating Group

Attachment A – Requested Supplemental Information (Proprietary)

Attachment B – Requested Supplemental Information (Non Proprietary)

Attachment C – Framatome ANP Affidavit

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Quad Cities Nuclear Power Station  
Office of Nuclear Facility Safety – Illinois Department of Nuclear Safety

**Attachment B**

**Supplemental Information in Response to Question 2 of Q1C17A SLMCPR RAIs.**

**Non Proprietary**

Question:

Clarify the effects channel bow have on the Safety Limit MCPR (SLMCPR) analysis when using NRC approved methodology ANF-524(P)(A)

Response:

SLMCPR Process Overview

Channel bow effects are included in the Safety Limit MCPR (SLMCPR) analysis as described in Supplement 1 of the Reference 1 NRC approved methodology.

**Proprietary**

**Attachment B**

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Response:

SLMCPR Process Overview

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**Proprietary**

**Attachment C**

**Affidavit for Proprietary Supplemental Information**



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

- (a) The information reveals details of FRA-ANP'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 FRA-ANP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for FRA-ANP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by FRA-ANP, would be helpful to competitors to FRA-ANP, and would likely cause substantial harm to the competitive position of FRA-ANP.

7. In accordance with FRA-ANP'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 FRA-ANP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. FRA-ANP 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.

Jerald S. Holm

SUBSCRIBED before me this 1st  
day of July, 2002.

Susan K. McCoy

Susan K. McCoy  
NOTARY PUBLIC, STATE OF WASHINGTON  
MY COMMISSION EXPIRES: 1/10/04

