

## General Information or Other (PAR)

Event # 39395

<b>Rep Org:</b> FRAMATOME ANP <b>Supplier:</b> FRAMATOME ANP	<b>Notification Date / Time:</b> 11/22/2002 15:48 (EST) <b>Event Date / Time:</b> 11/22/2002 (PST) <b>Last Modification:</b> 11/22/2002
<b>Region:</b> 4 <b>City:</b> RICHLAND <b>County:</b> <b>State:</b> WA	<b>Docket #:</b> <b>Agreement State:</b> Yes <b>License #:</b>
<b>NRC Notified by:</b> JERALD HOLM <b>HQ Ops Officer:</b> CHAUNCEY GOULD <b>Emergency Class:</b> NON EMERGENCY <b>10 CFR Section:</b> 21.21                      UNSPECIFIED PARAGRAPH	<b>Notifications:</b> DALE POWERS                      R4 BRENT CLAYTON                      R3

## THE "POWERPLEX" MONITORING SOFTWARE CONTAINS AN ERROR

The MCPR calculation using the SPCB correlation in the MICROBURN-B2 and MICROBURN-B codes and associated POWERPLEX monitoring software contains an error. The error is in the determination of the axial adjustment factor for use in the SPCB CPR correlation. This can lead to non-conservative CPR calculations when using the SPCB CPR correlation and potentially a violation of the MCPR Technical Specification operating limit since the POWERPLEX incore monitoring code may under predict the MCPR for comparison to the operating limit. This error in MICROBURN-B2 and MICROBURN-B had no impact on the operating limit itself. The POWERPLEX incore monitoring software in use at River Bend, Grand Guif, and LaSalle Unit 1 is impacted by this error.

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FRAMATOME ANP

**Framatome ANP, Inc.**
**Fax**

To	NRC Operations Center
Company	U.S. Nuclear Regulatory Commission
Receiving fax	301-816-5151
Telephone	301-816-5100

Date	11/22/02	Time in	1:08 PM
Pages to follow	1		
From	Jerald S. Holm		
Telephone	509-375-8142	MB	RC18
<input type="checkbox"/> Original to be mailed		<input checked="" type="checkbox"/> Via fax only	
Sending fax	509-375-8775		
Fax verification			

**Message**

Please see attached notice of defect.

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Framatome ANP, Inc.  
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Richland, WA 99352  
Tel: (509) 375-8100

Operator \_\_\_\_\_  
Log No \_\_\_\_\_ Time Sent \_\_\_\_\_

### Reportable Defect

(i.) *Name and address of the individual informing the Commission*

Jerald S. Holm, Manager, Product Licensing, Framatome ANP, 2101 Horn Rapids Road, Richland, WA 99352.

(ii.) *Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.*

The calculation of the minimum critical power ratio (MCPR) using the SPCB CPR correlation in the MICROBURN-B2 and MICROBURN-B codes which are used in the POWERPLEX incore monitoring systems.

(iii.) *Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.*

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(iv.) *Nature of the defect or failure to comply and the safety hazard which is created or could be created by such a defect or failure to comply.*

The MCPR calculation using the SPCB correlation in the MICROBURN-B2 and MICROBURN-B codes and associated POWERPLEX® monitoring software contains an error. The error is in the determination of the axial adjustment factor for use in the SPCB CPR correlation. This can lead to non-conservative CPR calculations when using the SPCB CPR correlation and potentially a violation of the MCPR Technical Specification operating limit since the POWERPLEX incore monitoring code may under predict the MCPR for comparison to the operating limit. This error in MICROBURN-B2 and MICROBURN-B had no impact on the operating limit itself.

(v.) *The date on which the information of such defect or failure to comply was obtained.*

Condition Report 10128 was prepared on September 25, 2002, which identified a deviation.

(vi.) *In the case of a basic component which fails to comply, the number and the location of all such components in use at, supplied for, or being supplied for one or more facilities or activities subject to the regulations in this part.*

The POWERPLEX incore monitoring software in use at River Bend, Grand Gulf, and LaSalle Unit 1 is impacted by this error.

(vii.) *The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.*

The affected plants have all been notified. As a compensatory measure it was recommended that the monitored MCPR be reduced by 2% at the affected plants until the affected codes could be corrected and installed in the POWERPLEX incore monitoring software. The MICROBURN-B2 and MICROBURN-B codes have subsequently been corrected and installed in the POWERPLEX incore monitoring software at each affected plant. The plants are currently operating with correct versions of the software. Each affected plant has determined that they did not exceed the Technical Specification operating limit due to this error.

(viii.) *Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.*

See (vii) above.

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