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 MARCHI, M.L. Wisconsin Public Service Corp.  
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SUBJECT: Provides update on plant specific actions re Large Break  
 LOCA reevaluation using pre-1991 LBLOCA Model.

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## **WISCONSIN PUBLIC SERVICE CORPORATION**

August 23, 1996

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

Ladies/Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Large Break LOCA Reevaluation Using Pre-1991 LBLOCA Model

Reference: Letter from M. L. Marchi (WPS) to Document Control Desk (NRC) dated July 23, 1996.

Through ongoing discussions with Siemens Power Corporation (SPC), the Kewaunee Nuclear Plant fuel vendor, WPS has become aware of a number of recent interactions with the Nuclear Regulatory Commission concerning some modifications made to the Siemens PWR Large Break LOCA evaluation model. Siemens is currently the vendor for the large break loss-of-coolant-accident (LBLOCA) analysis of record for the Kewaunee Plant, and this letter is to update you on the plant specific actions taken by Siemens to address the NRC concerns.

As a contingency action, SPC has performed a LBLOCA analyses for the Kewaunee Plant using a pre-1991 evaluation model that did not incorporate the changes under discussion with the NRC. The results of that evaluation were provided to WPS on July 10, 1996 and reflect a peak clad temperature (PCT) of 2148°F continuing to satisfy the acceptance criteria of 10CFR50.46. Performed only as a contingency effort, this is not intended to be a replacement for the current analysis of record which has a PCT of 2050.5°F.

As described in the Reference, WPS continues to pursue the application of a LBLOCA evaluation model that explicitly incorporates the upper plenum injection design. Completion of this effort is anticipated by the Fall of this year.

If you require any additional information or have questions concerning this transmittal, please contact a member of my staff.

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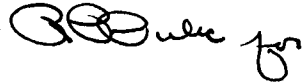
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Document Control Desk  
August 23, 1996  
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Sincerely,

A handwritten signature in dark ink, appearing to read "M. L. Marchi". The signature is stylized with a large, looped initial "M" and a trailing flourish.

M. L. Marchi  
Manager - Nuclear Business Group

RPP/dlf

cc - US NRC, Region III  
US NRC Senior Resident Inspector