

APPC

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**From:** Warren Lyon  
**To:** Timothy Collins  
**Date:** Thu, Aug 3, 2006 3:33 PM  
**Subject:** Here's my first pass.

I have no pride of ownership so modify the stuff as you see fit.

Information in this record was deleted in accordance with the Freedom of Information Act.  
Exemptions b7 + b5  
FOIA/PA 2008-0046

N-11

Att to  
E-74

August 3, 2006

MEMORANDUM TO: Ho Nieh, Deputy Director (Acting)  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

FROM: Thomas O. Martin, Director,  
Division of Safety Systems  
Office of Nuclear Reactor Regulation

SUBJECT NRC STAFF ASSESSMENT OF THE WESTINGHOUSE / ADVANCE  
MEASUREMENT AND ANALYSIS GROUP (W/AMAG) CROSSFLOW  
ULTRASONIC FLOWMETER (UFM)

Reference: "Improved Flow Measurement Accuracy Using Crossflow Ultrasonic Flow  
Measurement Technology," ABB Combustion Engineering, CENPD-397-P-A,  
ML052070504, May 31, 2000. (Proprietary)

We have completed our reassessment of the CROSSFLOW UFM. We find that (1) the existing previously approved CENPD-397-P-A topical report is no longer acceptable as a basis for using CROSSFLOW to determine feedwater flow rate, (2) a basis has not been established for such use that acceptably addresses the issues that have been identified by the NRC staff, and (3) CROSSFLOW is not acceptable for use in determination of feedwater flow rate for either power uprate or power recovery purposes.

We recommend that you transmit the enclosed letter to Westinghouse to inform them of our findings.

Enclosure: As stated

CC: I. Ahmed  
T. Alexion  
A. Howe  
C. Jackson  
J. Jolicoeur  
W. Lyon  
J. Nakoski  
S. Rosenberg  
G. Shukla  
J. Wermiel

CONTACT: ???

rely  
Att to T17

Pages 3 through 7 redacted for the following reasons:

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(b)(4); (b)(5)