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January 3, 1985

W3P85-0025
3-A1.16.07
3-A1.01.04
A4.05

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis M. Crutchfield,
Assistant Director for Safety Assessment
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Waterford 3 SES
Docket 50382
Additional Information on Basemat
Hairline Cracks

Dear Mr. Crutchfield:

The purpose of this letter is to set out the current extent of our knowledge of the existence of cracks in the Waterford 3 basemat.

Following the discovery, mapping, evaluation and repair, in 1977, of the cracks in the area of the basemat now under the Reactor Containment Building (RCB), the next crack mapping effort occurred in 1983. The documentation and mapping of cracks in 1983 was suggested by the NRC Staff following the discovery of cracks in the Reactor Auxiliary Building (RAB) in areas being cleaned up for application of epoxy floor covering (painting). That mapping effort included a thorough examination of the accessible areas of the basemat and documentation of visible cracks, as well as any evidence of cracks or crack repair if the crack itself was not visible.

In 1979, the Ebasco concrete specification was changed to provide a method to repair surface cracks in the basemat prior to painting concrete surfaces. Because the cracks

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Mr. Dennis M. Crutchfield

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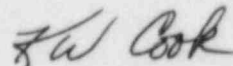
were not considered to have structural significance, the repairs were considered to be cosmetic in nature and were not required to be documented. It was recently brought to my attention, however, that some such repairs may have been documented, so I directed that a records search be conducted.

The search yielded only three instances of crack documentation. These include two cracks within the RAB (October 13, 1977 and November 23, 1982) and one in the FHB (March 23, 1982).

A comparison with the 1983 crack map was inconclusive. The three cracks correspond generally with cracks identified on the 1983 crack map, and probably are recorded on the map. However, because the location of the three cracks was not documented in detail, we cannot state with absolute certainty that they had been recorded. In any event, the cracks discovered in the RAB and FHB are not considered to be structurally significant or pertinent to the basemat evaluations.

If you have any questions regarding this transmittal, please contact me.

Very truly yours,



K. W. Cook
Nuclear Support & Licensing Manager

KWC:cp

cc: E.L. Blake, G.W. Knighton, G.L. Constable, W.M. Stevenson,
J.M. Wilson