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September 17, 1979

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. NUCLEAR REGULATORY COMMISSION  
Washington, D. C. 20555

Attention: Mr. Olan D. Parr, Chief  
Operating Reactors Branch No. 3

DOCKET NO. STN 50-502  
HAVEN NUCLEAR PLANT  
LAKE MICHIGAN GEOPHYSICAL SURVEYS

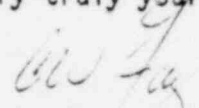
Appendix 2Q of the Haven Site Addendum to the Preliminary Safety Analysis Report contains an Engineering Geophysical Report describing studies and analyses done by Fairfield Industries, Inc. with regard to the presence or absence of faulting in Lake Michigan near the eastern shore. As part of these studies, maps of the top of rock and a subrock reflector were developed from data taken during seismic surveys by converting time intervals to depth using the velocity of sound in water, sediments and rock.

This report was made available to Dr. R. J. Wold of the U. S. Geological Survey in connection with his studies of other Lake Michigan data. As a result of his review, Dr. Wold has questioned the velocities used to calculate the depths of the top of rock and subrock reflectors and believes the mapped surfaces may be too deep. Subsequent review by our consultants has confirmed Dr. Wold's observations. It is believed that the top of rock and the subrock reflector may be about 75 to 150 feet and 200 feet higher, respectively, than indicated in Appendix 2Q.

While these velocity discrepancies may change the indicated depths to the top of rock and reflector surfaces, Dr. Wold and our consultants are in agreement that the changes should not affect the basic conclusions of the report.

Revised maps will be obtained and the Site Addendum will be amended to incorporate the revised information at an appropriate time. Should you have questions, please contact us.

Very truly yours,

  
C. W. Fay, Director  
Nuclear Power Department

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of

WISCONSIN ELECTRIC POWER  
COMPANY, ET AL.

Haven Nuclear Plant

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}  
Docket No. STN 50-502

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