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FACIL:50-410 NINE MILE POINT NUCLEAR STATION, UNIT 2, NIAGARA MOHA 05000410
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RHODE,G.K. NIAGARA MOHAWK POWER CORP.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. OFFICE OF NUCLEAR REACTOR REGULATION

SUBJECT: INFORMS NRC THAT EXCEPTION TO SECTIONS 12.5.2.8.3 & 12.6 OF PSAR WILL BE USED IN CONST.NIAGARA MOHAWK INTENDS TO PERMIT UP TO ONE HALF INCH MISALIGNMENT FOR ERECTION OF BIOLOGICAL SHIELD WALL. & trans bio. shield wall diagram

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TITLE: PSAR/FSAR AMDTS AND RELATED CORRESPONDENCE.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

April 3, 1979

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

Re: Nine Mile Point Unit 2
Docket No. 50-410

This letter is to inform the Regulatory staff that an exception to a code referenced in the Nine Mile Point Unit 2 Preliminary Safety Analysis Report will be used in the construction of Unit 2.

Sections 12.5.2.8.3 and 12.6 of the Unit 2 Preliminary Safety Analysis Report indicate that materials, workmanship and design of the biological shield wall will conform to the AISC-69, Specification for the Design, Fabrication and Erection of Structural Steel for Buildings including Supplements 1 and 2. AISC-69 requires in Paragraph 1.23.6 that abutting parts to be butt welded shall be aligned to within 1/8 inch. Niagara Mohawk intends to implement a variance to this requirement and permit up to a 1/2 inch misalignment on a limited basis for the erection of the biological shield wall.

The biological shield wall is fabricated with two 1 1/2 inch steel plates connected by steel framing members. A cross-section of the biological shield wall is shown in Figure 1, attached. The biological shield wall is divided into three cylindrical rings with each ring subdivided into three, 120° sections.

The biological shield wall sections distorted radially outward when they were cut from the fabricating jig during shop fabrication. The field assembly contractor has used hydraulic jacking apparatus to attempt to fitup and align the biological shield wall sections to meet the allowable AISC specification misalignment tolerances. Since the biological shield wall may not be able to be brought into alignment in localized areas because of the limits of the jacking apparatus and the inherent stiffness of the structure, an alternative joint design has been developed and investigated for design adequacy.

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This alternate joint design will allow misalignments greater than 1/8 inch but less than 1/2 inch in isolated cases, when it appears that jacking may be difficult to accomplish or undetermined stresses could be induced by jacking. A structural analysis of the entire biological shield wall rings with 1/2 inch misalignment shows that the stress level in the alternate joint design is within allowable limits of AISC-69.

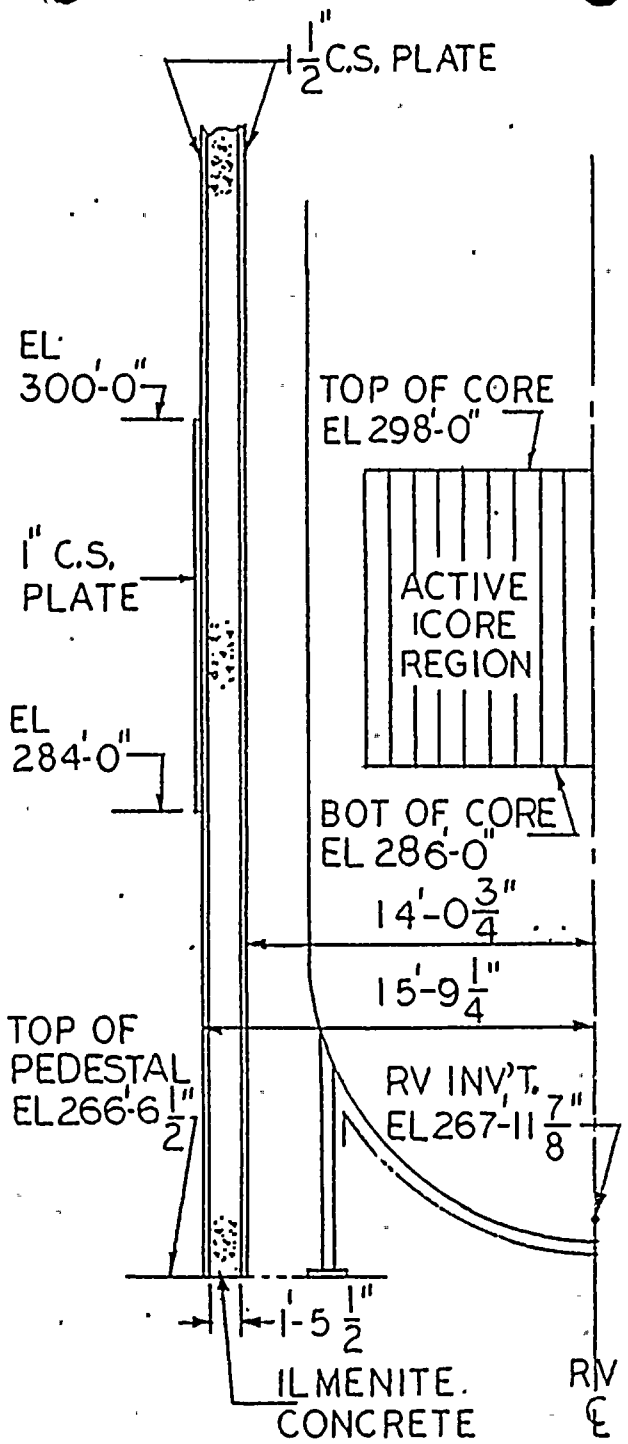
Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

Gerald K. Rhode, Vice President
System Project Management

PEF/szd

Attachment



BIOLOGICAL SHIELD WALL
PRESENT DESIGN

FIGURE 1