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SUBJECT: Forwards torus condensation oscillation load reduction,per 911203 discussions.Figures indicating allowable min wall thickness for eight & four downcomer bay configurations encl.

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December 13, 1991
NMP1L 0628

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

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63
TAC NO. M80214

Gentlemen:

SUBJECT: Nine Mile Point Unit 1 Torus Condensation Oscillation Load Reduction

Pursuant to our discussions on December 3, 1991, regarding our submittal of May 14, 1991 ((NMP1L 0583) "Nine Mile Point Unit 1 Reduction in Mark I Torus Program Condensation Oscillation Load Definition and Resulting Effect on Minimum Shell Thickness Requirements", TR-7353-1, Revision 1), Niagara Mohawk is enclosing recalculated torus minimum wall thickness cross-sections.

Figure 1 indicates allowable minimum wall thickness for the eight downcomer bay configurations. This cross-section represents a 17% reduction in the Condensation Oscillation load from the Load Definition Report (LDR) based upon the analysis presented in TR-7353-1, Revision 1.

Figure 2 indicates allowable minimum wall thickness for the four downcomer bay configurations and reflects a 30% reduction of the LDR Condensation Oscillation load. This reduction is based on analyses presented in TR-7353-1, Revision 1 and Niagara Mohawk's decision to restrict load reduction to no lower than 70% of the original LDR Condensation Oscillation Load.

Teledyne Engineering Services report TR-6801-2, Revision 1, "Mark I Torus Shell and Vent System Thickness Requirements Nine Mile Point Unit 1 Nuclear Station", submitted by Niagara Mohawk to the NRC on May 27, 1988 (NMP1L 0260), will be revised to incorporate the above conclusions.

Very truly yours,

C. D. Terry
Vice President
Nuclear Engineering

NAS/mls
002150GG
Enclosures
xc: Regional Administrator, Region I
Mr. R. A. Capra, Project Director, NRR
Mr. D. S. Brinkman, Senior Project Manager, NRR
Mr. W. L. Schmidt, Senior Resident Inspector
Mr. D. R. Haverkamp, Chief, Reactor Projects, Section 1B
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FIGURE 1

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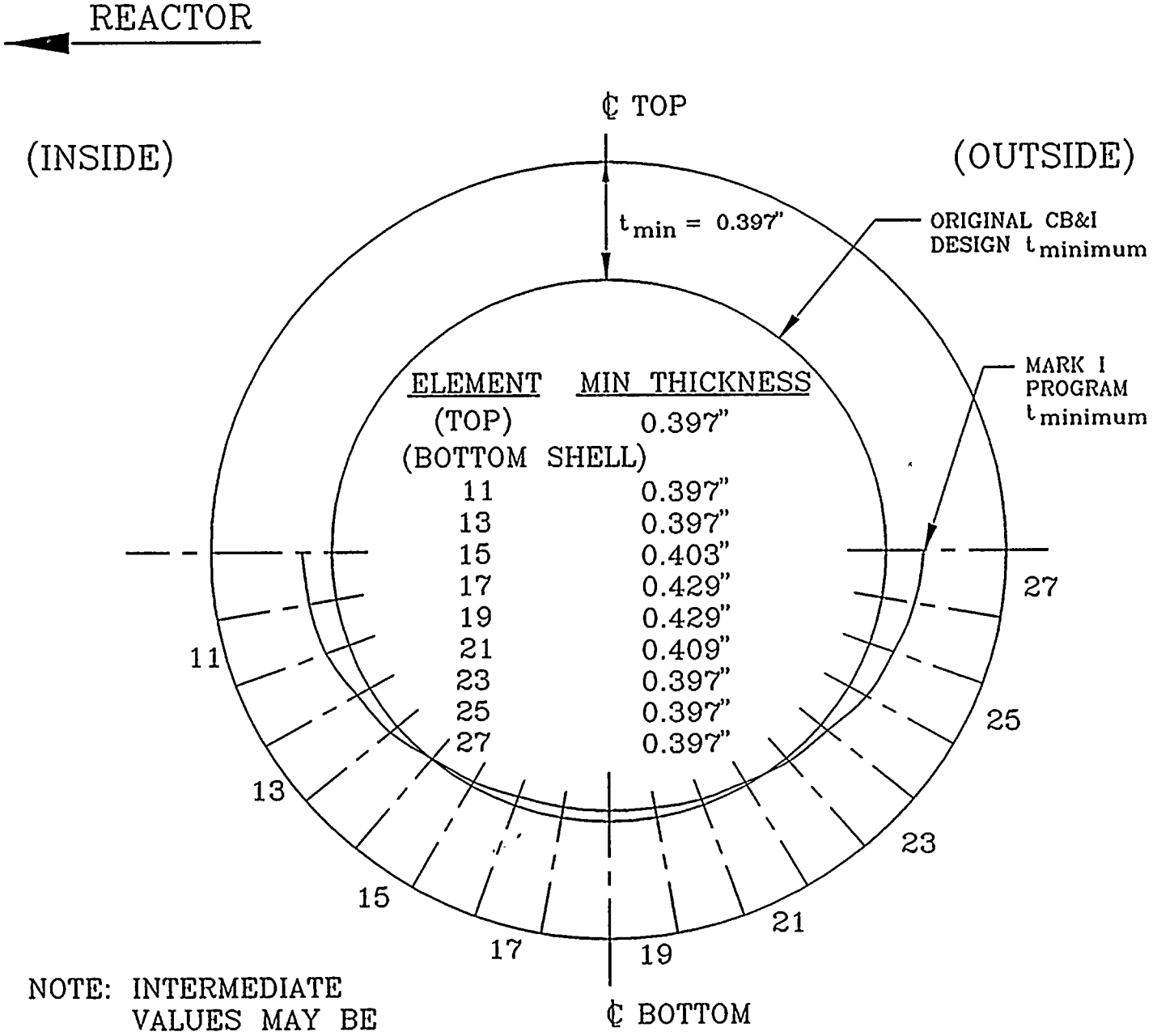
MINIMUM REQUIRED WALL THICKNESS FOR THE TORUS CROSS-SECTION AT MID-BAY (EIGHT DOWNCOMER - NON-VENT BAYS) NINE MILE POINT UNIT 1 NUCLEAR STATION

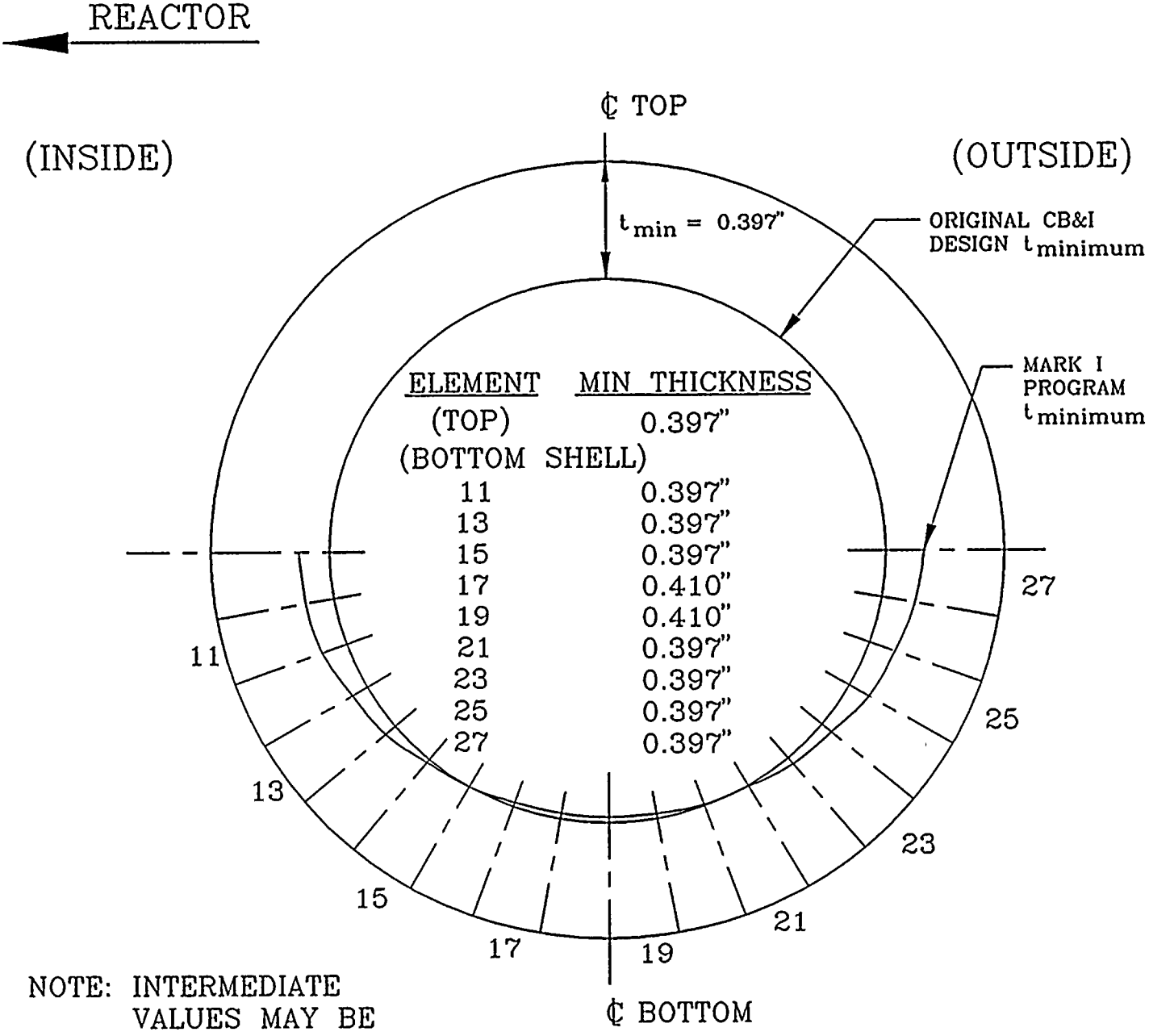


NOTE: INTERMEDIATE VALUES MAY BE SCALED

FIGURE 2

TELEDYNE
ENGINEERING SERVICES

MINIMUM REQUIRED WALL THICKNESS FOR THE TORUS CROSS-SECTION AT MID-BAY (FOUR DOWNCOMER - VENT BAYS) NINE MILE POINT UNIT 1 NUCLEAR STATION



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