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Date: 6/25/02 5:17PM
Subject: ANO Poison Panel Enhancement Project Presentation

Attached is a power point presentation for the ANO - NRC call on Thursday June 27 at 9 am CST 9 am (10 am EST). Drawings of the fuel pool layout with the new Region defined and of the flux trap with inserted Metamic panels are also included.

We will have a phone bridge. Please call 1-800-486-2726 and enter PIN 291947.

Thanks to all for your help,

Dana Millar

<<Unit 2 Region overview.xls>> <<Spent Fuel Pool Reactivity Control.ppt>> <<cell drawing.doc>>

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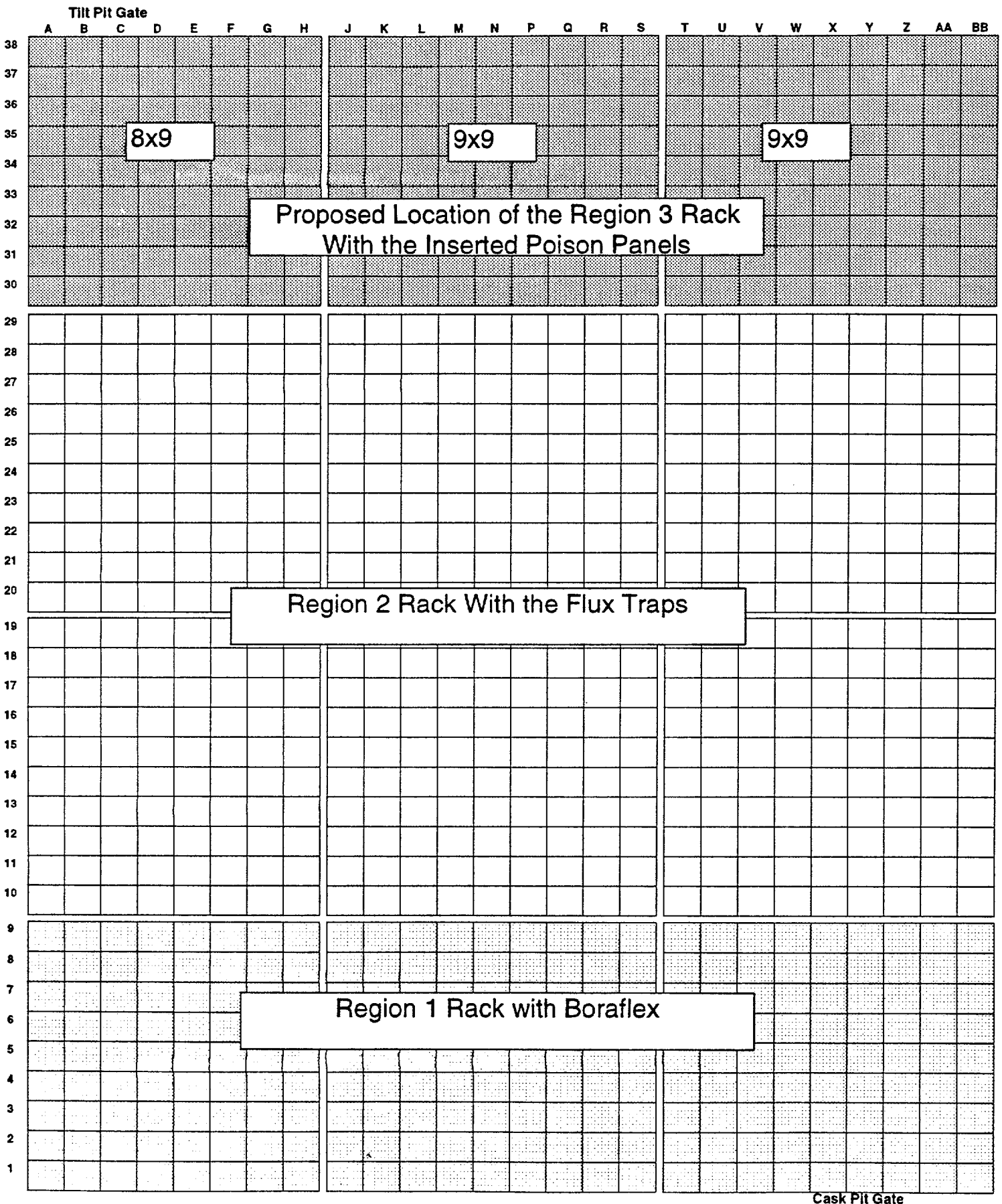
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APPENDIX A
SPENT FUEL POOL LAYOUT

Unit 2



ANO Poison Panel Enhancement Project

- Introduction -
- Meeting Purpose:
 - To communicate ANO's future plans for use of Metamic as a poison panel insert in the ANO-1 and ANO-2 Spent Fuel Pools.

ANO Poison Panel Enhancement Project

- **ANO-1 Current Status** (Affected CTS 3.8.15, 3.8.16, Figures 3.8.1 & 3.8.2, 5.4.1 & 5.4.2; ITS 3.7.15 & 4.3.1.1)
 - ANO-1 Spent Fuel Pool description, two Regions one of which contains Boraflex poison.
 - Analysis originally assumed a B-10 content to 90% of minimum design areal loading.
 - August 2002 - Boraflex degradation forecast to go below assumed B-10 content.
 - Compensatory measures will be implemented as allowed by Generic Letter 91-18. (Described in letter to NRC dated March 18, 2002)

ANO Poison Panel Enhancement Project

- **ANO-2 Current Status** (TS 3.9.12.a, 3.9.12.b, & 3.9.12.c, Figures 3.9.1 & 3.9.2, TS 5.3.1 & 5.3.2)
 - ANO-2 Spent Fuel Pool description, two Regions one of which contains Boraflex poison.
 - Analysis originally assumed a B-10 content to 90% of minimum design areal loading.
 - August 2003 - Boraflex degradation forecast to go below assumed B-10 content.
 - Compensatory measures will not be implemented.

ANO Poison Panel Enhancement Project

- **Project Objectives**

- Provide long term solution for Spent Fuel Pool reactivity control (with no credit for Boraflex).
- Provide for storage of high enrichment, low burnup fuel assemblies in the new Region simplifying Spent Fuel Pool loading patterns.
- For ANO-1 support storage of fuel assemblies that have an initial enrichment of less than or equal to 5.0 w/o U-235.

ANO Poison Panel Enhancement Project

- **Project Status**

- Holtec International, Inc. is primary contractor.
- Designated a portion of current Region 2 in each Unit's Spent Fuel Pool to be used as a new Region 3 in which poison panels will be inserted in the rack flux traps.
- Based on analysis, Metamic was selected as the only material that satisfied the project objectives.

ANO Poison Panel Enhancement Project

- **Conceptual Design**
 - Racks
 - Insert Design
 - Testing

ANO Poison Panel Enhancement Project

- **Project Schedule**
 - July/August 2002 - Submit Metamic Topical
 - October 2002 - Submit ANO-1 and ANO-2 Tech Spec changes
- **ANO need dates for license amendments**
 - July 2003 - ANO-2
 - October / November 2003 - ANO-1

ANO Poison Panel Enhancement Project

- **Conclusion**

- ANO is proposing a long term solution to Boraflex degradation with the use of Metamic inserts and with the creation of a new Region in each Unit's Spent Fuel Pool.

