

NON-CONFORMANCE REPORT	NCR Number 13
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Location of Mat'l/Item: Pier E16E
Title/Description: Pier Socket Concrete Temperatures
Group: Foundation
Superintendent: Irving
Foreman:

Report of Condition/Cause of Non-Conformance:
The maximum allowable internal concrete temperature of 65C was exceeded by 8 C. with a 73 C peak measured on 8/24/03. This in turn pushed the temperature difference between the top surface and the center of the Dour to 40 C. Based on the model the temperature difference should have been closer to 20 C. This temperatue difference could lead to thermal cracking

Recommended Corrective Action:
The temperature data collected does not match the model predictions.
KFM will meet with CTL to discuss the model , modifications to the thermal control plan, the probability of thermal cracking, and the recommended corrective actions.

Originator Signature: <i>[Signature]</i>	Date: 8/25/03	Superintendent Signature:	Date:

Designer Comments on Corrective Action:

Corrective Actions Verified Complete and Inspected:

Reference Documents:

Date Closed:	
Superintendent Signature:	

NON-CONFORMANCE REPORT	NCR Number 13 R I
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Location of Mat'l/Item: Pier E I6E
Title/Description: Pier Socket Concrete Temperatures
Group: Foundation
Superintendent: Irving
Foreman:

Report of Condition/Cause of Non-Conformance:
The maximum allowable internal concrete temperature of 65 C was exceeded by 8 C, with a 73 C peak measured on 8/24/03. This in turn pushed the temperature difference between the top surface and the center of the pour to 40 C. Based on the model the temperature difference should have been closer to 20 C. This temperature difference could lead to thermal cracking.

Recommended Corrective Action:				
Per the meeting held on 8/26/03 the following actions will be taken:				
1. Additional cooling pipes will be added to reduce the maximum concrete temperature				
2. The precooling of the concrete will be increased to reduce the maximum concrete temperature.				
3. Change in mix design with reduced cementitious materials will be investigated				
4. The top thermocouple will be lowered about 8" to get more representative readings.				
5. Heat will be added to the air or water above the top surface of the pour.				
6. The crack Potential is low. however the pour will be inspected for cracks for verification.				
7. The thermal control plan will be revised to reflect these changes and resubmitted for approval.				
<table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 30%;">Originator Signature: </td> <td style="border: none; width: 15%;">Date: 8/28/03</td> <td style="border: none; width: 30%;">Superintendent Signature:</td> <td style="border: none; width: 25%;">Date:</td> </tr> </table>	Originator Signature: 	Date: 8/28/03	Superintendent Signature:	Date:
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Designer Comments on Corrective Action:

Corrective Actions Verified Complete and Inspected:

Reference Documents:

Date Closed:
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