

3460303 PORTLAND CEMENT CONCRETE.
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (7-3-13)

Please consider the following edits (highlighted and/or underlined) for 346-3.3 (5th and 6th paragraphs):

~~Obtain the Engineer's approval prior to any r~~ Reduced monitoring of same
simultaneously placed elements may be permitted with approval of the Engineer if the following
conditions are satisfied: (1) least dimensioned ~~ed~~ for all the mass concrete elements containing of
must be the same, and (2) all must have the same mix design, placement temperatures, and
insulation thermal resistance values. The Specialty Engineer may monitor and record the
temperature for the first element only but temperature monitoring devices must be installed in all
elements should more than one need to be monitored for any reason. If only one is monitored,
then concrete placement for ~~E~~each subsequent element must be started within one hour of the
first initial concrete placement for the first element and be completed within one hour of the
completion of concrete placement of the first element. Install monitoring devices and take the
required readings on ~~at~~ each mass concrete element shall be instrumented with monitoring
devices in ~~case of failure in meeting~~ the event the one hour time limit is ~~not met~~ exceeded.

Changes or adjustments made to the monitored element if only one is activated
must also be made to all other applicable elements. Failure to follow-comply with this
requirement may ~~require~~ initiate an Engineering Analysis Report (EAR) ~~on~~ for the elements that
~~were not monitored~~ even if the regardless of temperature results from the ~~that was monitored had~~
a temperature differential well below the maximum allowed element.

Do not remove the temperature control mechanisms until the core temperature is
within 50°F of the ambient temperature. Furnish a copy of all temperature readings to the
Engineer. ~~as they are recorded, the~~ Provide determined temperature differentials, the summary
sheet from the data logger, (which includes the maximum temperature, and the maximum
temperature differential) and a final report within three calendar days of completion of
monitoring of each element.

Response:

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Comments: (7-9-13)

These changes deal with a voluntary relaxation of the Specification and the associated decision making process. Due to the complexity of the decision-making process, all of these changes belong in CPAM, not the spec. The Engineer always has the option to relax any spec requirement. Putting the language in CPAM will make it CPR. Language like, "may require an EAR..." or "even if the monitored element had a temperature..." are inappropriate for the contract, but (with a little editing) can be effectively incorporated into CPAM.

Response:

Keith Waugh
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Comments: (7-10-13)

Monitoring revision is consistent with language in mass plans that we submit, so we agree. But, not all data loggers have a printable report.

(Seventh paragraph) We would suggest the highlighted changes:

Do not remove the temperature control mechanisms until the core temperature is within 50°F of the ambient temperature. Furnish a copy of all temperature readings to the Engineer. ~~as they are recorded, the~~ Provide determined temperature differentials, ~~the summary sheet from the data logger, a summary report of readings~~ (which includes the maximum temperature, and the maximum temperature differential), and a final report within three calendar days of completion of monitoring of each element.

Do not remove the temperature control mechanisms until the core temperature is within 50°F of the ambient temperature. Furnish a copy of all temperature readings to the Engineer. Provide determined temperature differentials, a summary report of readings, the summary sheet from the data logger (which includes the maximum temperature and the maximum temperature differential) and a final report within three calendar days of completion of monitoring of each element.

Response:
