

## **NRR-PMDAPEm Resource**

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**From:** Deborah Grinnell <grinnelldebbie2@gmail.com>  
**Sent:** Sunday, February 14, 2016 12:46 PM  
**To:** Lamb, John  
**Cc:** Paul Brown  
**Subject:** [External\_Sender] Paul Brown's comments for the NRC PRB considering C-10's 2, 206 Petition on Feb 16th

Dear Ms. Grinnell

Please feel free to pass the following comments on to Mr. Lamb of the NRC

There is no justification for not testing cores. (1) The implications of the magnitudes of core compressive strengths and core splitting tensile strengths and their ratios on the deterioration of concrete are well understood within the concrete community. Perhaps this is the basis for the reluctance of the utility to acquire these data. (2) Core testing is governed by an ASTM standard and is the principal way by which concrete behavior is evaluated. (3) Extraction of cores is governed by an ASTM standard and is not meaningfully damaging to a structure. (4) The data obtained from testing cores extracted from locations where there is concern about the occurrence of ASR can be compared to cores extracted from locations where ASR has not occurred and both can be compared to design strengths. Had this been systematically been done since ASR was first observed, there would presently be a basis for understanding whether ASR is meaningfully progressing or not and there basis for at least qualitatively predicting future performance. (5) The cost of extraction and testing of cores is moderate, approximately \$100/per core.

Regards  
Paul Brown

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"Paul Brown" <grtbrown@aol.com>  
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