

1050302 CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS –  
COMPLIANCE WITH THE MATERIALS MANUAL – SECTION 8.1 QUALITY  
ASSURANCE PROGRAM OF PRECAST PRESTRESSED CONCRETE PRODUCTS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Charles Boyd  
414-4275

Comments: (3-14-12)

This excerpt from the Precast/Prestressed Concrete Products section does not match up with actual practice for project specific modifications:

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| Topic No.: 675-010-000<br>Materials Manual<br>Precast/Prestressed Concrete Products  | Effective: March 1, 2000<br>Revised: January 24, 2008 |
| <p>8.1.7.7      State Structures Design Office</p> <p style="margin-left: 40px;">The State Structures Design Office provides technical guidelines to all Districts. Any changes to the standard structural drawings require State Structures Design Office's approval.</p> |   |

(Gevin McDaniel)

It definitely conflicts with the Terms of Use we have for the DGN files. It seems any changes would have to get approved through the EOR whom would then decided to either modify the Standard based in the “Terms of Use”, or reject the request to make the change.

**Response: Agree. The following sentence will be deleted: “Any changes to the standard structural drawings require State Structures Design Office’s approval”.**

**Change made.**

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Comments: (3-20-12)

8.1.5.3.2.2 needs to be expanded to clarify requirements for concrete field and lab testing at the production facility, specifically define how Section 346 is applied at the production facility. It is not the intent of Section 8.1 that Section 346 requirements are applied to every FDOT project the plant is producing for, but there is no indication to that intent. The purpose of the testing is to ensure the plant's QC plan requirements are being met. Acceptance of the final product at the project site is not defined by the results of these samples. This testing frequency and requirements need to be clarified for the production facility basis, not project based.

**Response: Agree. The following paragraph has been added to 8.1.5.3.2.2(1):**

**“The quality control and verification sampling and testing of concrete at the Plants are based on design mix, which may represent concrete placed for a project or multi projects. The maximum LOT sizes for the design mix and its reduced**

frequency for acceptance tests shall meet the requirements of *Sub-article 346-9.2 of the FDOT Specifications.*”

Comments: (4-4-12)

There was a comment on Section 346 that addresses requirements for Materials Bulletin 05-11.

"Lipham, Randall [Randall.Lipham@oldcastle.com](mailto:Randall.Lipham@oldcastle.com):

Comments: (3-19-12)

346-6.2 Concrete Design Mix: "For slump target values in excess of 6 inches or self consolidating concrete, utilize a grate over the conveyance equipment to capture any lumps or balls that may be present in the mix."As proposed, this will require all conveyance equipment to have a grate to prevent the introduction of lumps and balls. We feel that should be at the discretion of the Engineer and only on an as needed basis. If lumps and balls in the concrete mix are consistently not present; a grate over transport devices should not be required."

This language needs to be incorporated into Section 8.1 as an exception to the requirements of Section 346. The intent for cast in place and prestressed are slightly different and the differences need to be addressed in Section 8.1. Also, there should be language added to 8.1 addressing language regarding the producer's process to control lumps and balls in high slump concrete, if it is not already addressed.

Response: The comment is related 346-6.2, not Section 8.1. It has to be addressed in 450 so that it will be applicable to precast as well as cast-in-place concrete.

No change is needed in the proposed Section 8.1 of the Materials Manual.

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Comments: (4-5-12)

1. In 8.1.5.2.5, change the first sentence to, "When the Plant informs the District Materials Office..."

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

2. I had a question/comment about the deleted paragraph in 8.1.5.2.5 regarding the QCM unexpectedly discontinuing his/her employment. If it's been moved to 8.1 Volume II, I have no issues with this. If not, it needs to be to be consistent with the other sections of the Materials Manual.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

3. In 8.1.5.3.1, change "District Materials Research Engineer" to "District Materials and Research Engineer (DMRE)" as used in the other sections of the Materials Manual.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

4. Change “assure” to “ensure” in paragraph 3 of 8.1.5.3.1, in 8.1.5.3.2.1 (8), and 8.1.5.3.2.3 (2).

Response: Agree. These changes will be made in the March 18, 2010 version of Section 8.1.

5. In order to be consistent, 8.1.5.3.2.1 (3) should state, “Verify that the concrete meets the requirements of FDOT Specifications, Section 346.”

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

6. Change “should” to “will” in 8.1.5.3.2.2 (3) paragraph 2 where it states, “From each of the two randomly selected LOTs of welded wire reinforcement, three samples should be taken in accordance with ASTM A 185 and ASTM A 497 for plain and deformed steel welded wire reinforcement, respectively.” Change the last sentence in this paragraph to, “The Verification Inspector will send one of the samples from each LOT to the State Materials Office for testing. Properly identify, tag, and store the remaining samples for future testing in the event of failure of the first sample.”

Response: Agree. These changes will be made in the March 18, 2010 version of Section 8.1.

7. Change the last two sentences in paragraph 4 in 8.1.5.3.2.2 (3) to, “If one sample fails and one sample meets the specified requirements, the State Materials Office will test the third sample to confirm material acceptability. The LOT of the welded wire reinforcement will be rejected by the Verification Inspector if the results of any two samples of the same LOT fail.”

Response: Agree. These changes will be made in the March 18, 2010 version of Section 8.1.

8. In 8.1.5.3.2.2 (4), change “should” to “will” in the last sentence of paragraph 1.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

9. In 8.1.5.3.2.2 (4), change the first sentence to, “One sample of each LOT will be tested by the State Materials Office. The remaining samples will be properly identified, tagged, and stored for future testing in the event of loss or failure of the first sample to meet minimum requirements. Change “should” to “will” in the second sentence of this paragraph. Change “may” to “will” in the second to last sentence of this paragraph. Insert “the” before “Verification Inspector” in the last sentence of this paragraph.

Response: Agree. These changes will be made in the March 18, 2010 version of Section 8.1.

10. In 8.1.5.3.2.2 (5), change “verify” to “will verify” and “ensures” to “will ensure” in the first sentences of the first two paragraphs.

Response: Agree. These changes will be made in the March 18, 2010 version of Section 8.1.

11. In 8.1.5.3.2.2 (5), change “District Materials Research Engineer’s” to “District Materials and Research Engineer’s (DMRE’s)” as used in the other sections of the Materials Manual.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

12. Change “checks” to “check” in the first sentence of 8.1.5.3.2.4.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

13. Change “Plant ‘s” to “Plant’s” in the first sentence of paragraph 3 of 8.1.5.3.2.5.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

14. Change the second sentence of paragraph 3 of 8.1.5.3.2.5 to, “The Verification Inspector will ensure that each shipment of products to the job site is accompanied by a delivery ticket that provides the list of products and is signed or stamped by the Quality Control Manager or quality control personnel working under his/her direct supervision.”

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

15. Change 8.1.5.3.3 to read, “The Department may perform Independent Verification on any product or its component materials at any time. This is a verification process in which sampling is not performed on a random basis and which is outside of the verification program.”

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

16. In the second paragraph of 8.1.7, add “the” to “to project site.”

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

17. In the last sentence of 8.1.9, change “of the major structural deficiencies” to “for the major structural deficiencies.”

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

18. In 8.1.11.2, change “District Materials Research Engineer” to “District Materials and Research Engineer” as used in the other sections of the Materials Manual.

Response: Agree. This change will be made in the March 18, 2010 version of Section 8.1.

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