

1050807 CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS CONCRETE
QC PERSONNEL
COMMENTS FROM INDUSTRY REVIEW

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Comments: The Level II inspectors of the precast concrete plants have enough knowledge to be batch plant manager without taking the batch plant operator course. Therefore, in Item C of 105-8.7.4 Concrete Production Facility Manager for Quality Control: Delete the "Plant Operator" and revise the sentence to read: c. Precast Concrete Pipe, Box Culverts, Drainage Structures, or Incidental Precast Concrete Plants Level II Quality Control Inspector Certifications meeting the requirements of 105-8.11.

Response:

Douglas Holdener, P.E.
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Comments: The Section 105 quality control personnel specifications are becoming overly complicated to understand. For example, precast concrete pipe and box culvert QC personnel requirements were established several years ago in Section 105-8.11. The recently proposed Section 105 changes propose to add precast concrete pipe and box personnel requirements in an entirely different section, namely 105-8.7. We recommend containing all requirements for a specific product type in one section, if possible. Specifically regarding proposed Section 105-8.7.4, how does the Department define a "Concrete Production Facility Manager for Quality Control Production?" Does this title refer to the overall plant facility manager or to the plant QC manager? Please verify the intended subject of the proposed Section 105-8.7.4 requirements. If the subject is the QC manager, then please explain how these proposed changes will affect the current Section 105-8.11.1.3, which established qualification requirements for the Plant Quality Control Manager for a precast concrete pipe or box culvert facility. Our understanding of the proposed Section 105-8.7.4 is to establish 4 qualifications, which are enumerated 1 through 4 in the proposed specification. In lieu of qualification item 1, the "Production Facility Manager for Quality Control" may alternately have any one of sub-items a, b, or c. Specifically, sub-item c is confusing, in particular the phrase "Plants Batch Plant Operator." We recommend eliminating that phrase and re-wording sub-item c as "Precast concrete pipe, box culvert, drainage structures, or incidental precast concrete plant Level II Quality Control Inspector Certification meeting the requirements of Section 105-8.11.1.2."

Response:

Tracy Padula
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Comments: I think it needs to include the same wording as in the section above (Duties include final curing, compressive strength testing, and the recording/reporting of all test data). Also, why are we holding QC to a level that V is not held to. Nowhere does it state that in the Verification facilities do they have to have a Concrete Lab level II to oversee the testing.

Response:

Timmy Meeks
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Comments: I think there needs to be some clarification to what test results you are referring to in 105-8.7.3.2. Also, in 105-8.7.3.2, why are we holding the QC to a level that verification is not held to? We are requiring the QC to be supervised by a Concrete Lab level II technician. I am not aware of a spec where it states that in the verification facilities they are required to have a Concrete Lab level II technician oversee the testing.

Response:

Greg Vickery
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Comments: 105-8.7.2 Concrete Field Technician Inspector Level II According to 1-3 Definitions, an Inspector is "An authorized representative of the Engineer..." Question: Is it appropriate to call the Contractor's employee an Inspector? Is the CEI required to have this qualification?

105-8-7.3.2. Question: All labs that do business with the Department provide tests results to the Department. Is it appropriate to require all labs that break cylinders to have a Level II Technician? Concrete Lab Level II is a lengthy qualification to get and not many people have it.

Response:

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Comments: Comment by Jeanie Kozak of D5 Materials & Research on a new section added Section 105-8.7.3.1 Concrete Laboratory Technician – Level II- This section says to ensure that laboratories providing test results to the Department are under the supervision of a CTQP Concrete Laboratory Technician – Level II. How will this be enforced? Will this be a requirement of Laboratory Qualification? FDOT Laboratory Qualification is based on the

accreditation of qualifying agencies that do not enforce this requirement. CMEC and AMRL accredits laboratories based on AASHTO R 18 and ASTM C 1077 and neither of those standards contain that criteria. The only criteria specified for supervising laboratory technicians is a minimum of 3 years relevant experience and current technician certification of relevant tests (per ASTM C 1077; section 6.1.2)

Response:

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Comments: 1) I thought all concrete techs on any bridge had to be Level II? The size of the bridge doesn't matter anymore?

2) Why does a Level 2 inspector have to notify the Verification Technician on the size of the Lot and when a pour is to be made? Why doesn't the Level 1 also have this responsibility? Or should the Verification Technician take his lead from the Project PA on the job. Shouldn't the responsibility for notifying the VT be the same for both levels of inspectors?

3) The CTQP title of the QC personnel in all documents referring to this position is "Concrete Field Technician - Level X". Why are we asking to change it to "Inspector" in 105-8.7.2 but not in 15-8.7.1? Additionally, the title "Inspector" is usually given to Department VT personnel. This should not be changed.

Response:
