

**1050000 – Quality Control General Requirements
Response To Comments From Industry Review**

Ghulam Mujtaba, P.E., C.P.M.
State Prestressed Concrete Engineer
Florida Department of Transportation
5007 N.E. 39th Avenue
Gainesville, Florida 32609
Phone: (352) 955-6685

Comments

(1)- Article Section 105-1 has stated with General requirements which include, Quality Control Documentation, and Inspection to assure Compliance with acceptance Criteria. Article 105-2 is Additional Requirements for Lump Sum Projects and Article 105-3 includes Quality Control Program.

I recommend that the order of the subjects should be arranged as follows:

- 105- 1 Quality Control Program
- 105- 2 Quality Control Documentation
- 105-3 Additional Documentation Requirements for Lump Sum Projects

Response: This is a good suggestion; however, because the referenced subarticles are moved from Section 6 to 105, they are titled the same as they were in Section 6. If future input shows that the arrangement is confusing, we will address it at that time. No changes made.

(2)- It is necessary that the "**Quality Control Program**" should be defined in the Specification. Does Quality Control Program include quality assurance program or it is only contractor/producer program? The definitions of the of these terminologies should be included in Section 105 or in Article 1-3.

Response: We must define the Quality Control Program in the Specifications in order to provide contract language to contractors. Without the definition in the Specifications, we can not enforce the contract requirements. The Specifications do not address quality assurance since that is the Department's responsibility. Essentially, 105-3 does define the Department's QC Program and there is no need to define the Department's QA program in the Specifications. No changes made.

(3)- Subarticle 105-3.2

The contents of the Subarticle should be arranged in a form of a table with three columns as shown below:

Producer	Materials Manual Section	Web address-URL
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The proposed format includes the repeated word, such as "Producers of...", "Department's Materials Manual", "shall meet the requirements of ", "which may be viewed at the following URL".

Response: This is a good suggestion. Because the links to the Materials Manual must be active and maintained by the Specifications Office, a column or tabular format would be difficult to format and still have the links active. We recognize that the sentence format contains repetition, but it is the most logical format since each producer requirements must have individual links. No change made.

(3)- Article 105-6

Delete the last sentence of this Article, , which reads: " Ensure the testing.....program requirements of 6-9".

Response: This sentence is already deleted. No changes made.

(4)- Subarticle 105-11.1

There are references to this Subarticle to 105-5-11.1.4.1, 105-5.11.21, and 105-5.11.1, which should be changed to 105-8.11.1.4.1, 105-8.11.21, and 105-8.11.1, respectively to match with new numbering system.

Response: This is not very clear, but these changes have already been made and will show on the clean version of the Specification. No changes made.

Vay L. Scott, P.E.
Allied Engineering & Testing, Inc.
813.299.2416

Comments:

105-1.2.3

1st Paragraph, 2nd Sentence place comma after "Engineer".

Response: Change made.

2nd Paragraph, 1st Sentence place a "period" at end of sentence

Response: No change made. There is a period at the end of the sentence.

2nd Sentence, change "but is limited to" to "but are limited to".

Response: No change made. Already says "but are limited to".

105-2

3rd Sentence

"up dated" should be one word "updated"

Response: No change made. Already says "updated".

105-3.5

Should it be American Institute for Steel Construction (AISC)
or should it be American Steel Construction Institute (ASCI)?

Response: American Institute for Steel Construction (AISC) is correct. Change made.

Anjani Girwarr
anjani.girwarr@dot.state.fl.us
863-519-2825

Comments:

105-1.1.3 2nd sentence, change "as" in the "Ensure the worksheets as a minimum..." to read "Ensure the worksheets at a minimum..."

Response: Change made.

Typo - missing a period mark in 105-1.2.3, 2nd paragraph. Need period mark between "meeting" and "These"

Response: Period is not missing. It appears to be missing because of italics. No change made.

Type - grammar - 105-1.2.3 2nd paragraph, change "These items include, but is not..." to "These items include, but are not..."

Response: No change made. Already says "but are limited to".

Typo - 105-2, 2nd sentence, "up dated" should be one word "updated".

Response: No change made. Already says "updated".

Grammar - 105-3.1, 3rd sentence, remove the "comma" between "Section" and "to the Engineer".

Response: Change made.

Question - 105-6, last paragraph, "It is prohibited for a non-Department laboratory to perform..." Do you mean a "non-Department approved" or a laboratory that fails to meet the Department's qualifications?

Response: It means a laboratory not owned and operated by the Department. Language revised to provide more clarification

Greg Vickery
District Communications Coordinator
Office of the District Secretary
Office (850) 415-9529

Comment

In sections 105-5.5.1 and 105-5.5.2, Earthwork Level I and Level II, instead of "Inspector," it should say "Technician" or "Personnel." Inspector is defined as "An authorized representative of the Engineer," which does not include quality control.

Response: Change made.

Sam K. Joseph
Assistant District Materials & Research Engineer
(863) 519 - 4211

Comment

Revision date 10-16-07, Spec. #105-8.11.2.1, at this portion of the revision it should include the same verbiage as stated in the first paragraph of 105-8.9, of same revision.

Response: The requirements in each subarticle apply to different producers. They should not be the same. Not change made.

Kevin L. Price
QC/Project Manager
DAB Constructors, Inc.
P-352-447-5488 ext 243

Comments

The section is called CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS, when in reality it is intended to cover all Quality control where required within the specifications. You should eliminate the word Contractor from the heading.

Response: Due to addition of Section 6 information, this is appropriate. Change made.

The section should be divided to outline what the producer is required to do and what the contractor is required.

Response: This is a good suggestion; however, because the referenced subarticles are moved from Section 6 to 105, they are titled the same as they were in Section 6. If future input shows that the arrangement is confusing, we will address it at that time. No changes made.

105-1.2.2 Quality Control Inspection is directed at who, What material? If only certain materials are produced in a QC program then only those would need this statement, perhaps this statement would be better served if it were placed in the relative specification.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-1.2.3 Quality control does not order materials. Project management does. Perhaps this would go well with section 5.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-2 Lump sum jobs. This STRG that is required is pointless. The contract is invoiced monthly by the project manager. He is required to submit quantities for payment. Why have QC submit quantites and how exactly do you track quantities on a STRG anyway? Testing is done by lineal distance, billing is done by SY, and the materials are ordered by the ton. Testing is to

be performed by the specifications and density logbooks, asphalt plant reports track all that is done, this requirement is redundant.

Response This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-3.1 last sentence should state *Do not incorporate any of these materials into the project prior to the Engineer's approval of the "producers" QC Plan.* With the exception of 105-3.8 this entire section is directed at the producer.

Response: This language is appropriate. Producers of the materials in 105-3 must have an accepted Producer QC Program in place. Contractors must identify those producers in the Contractor Quality Control Plan which is approved by the PA. No change made.

105-4 This appears to be written for Contractors, the title should be "Contractors certification of compliance". I do not believe that the producers submit a monthly certification, their certification is by shipment.

Response: The Article title is change to Contractor Certification of Compliance

105-7 QC Plan submittal – again this should be titled Contractors QCP submittal. First paragraph should state "Submit the QC Plan to the Engineer for approval at the preconstruction meeting or early enough to allow time for review and approval. The Engineer will review the QC Plan and respond to the Contractor within 21 calendar days of receipt. Do not begin work on items governed by the QCP until it is approved by the engineer.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-8 Personnel Qualifications. Since this is the QC section, only QC requirements should be in this section. Perhaps this is another item for section 5.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

If quality control is going to continue everyone needs clear and concise direction on what is required. These specifications keep having sentences added and the intent is getting misinterpreted and lost.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

Christopher Wood

Email: Christopher.Wood@dot.state.fl.us

(904) 360-5673

Comments

105-1.2.2; At the end of the paragraph, add "Make available to the Department the inspection records, when requested."

Response: Change made.

105-3.1; In the second paragraph, it lists items to be included in the Structural Steel and Miscellaneous Metal product section. In that paragraph, it lists drainage items. Need to identify what drainage items are included in this section. Do we include galvanized or aluminized steel corrugated metal pipe under this or do we continue to have this as a separate item in the QC Plan?

Response: 460-1 refers to miscellaneous metal components. These are the metal parts. Each product is considered individually. Not all products must meet all requirements, but any product that must meet some of the requirements is included in 460. In some cases, these producers do not need to submit a QC Plan or their QC Plan information for steel is included along with other types, for example, flexible pipe. For these items, the welding requirements must still be met. No change made at this time.

105-5.2.1; Expand this section to include the QC Manager and Alternate QC Manager Qualifications. Could say something similar to: "Submit the Training Identification Numbers (TIN) for the Quality Control Manager, Alternate Quality Control Manager and all personnel performing work on the project. This would include all personnel that will do sampling, testing and inspection for both field and laboratory tests. Include employed and subcontracted personnel."

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-5.2.2; Expand this section to read: "Identify the primary contact for the Department. Identify roles and responsibilities of the various personnel involved in the QC process. List their TIN for the level for which they are being proposed. Identify duties for which each level will be responsible for."

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

Add a new section, 105-5.2.3, Monthly Certifications. Could say something similar to:

"QCP-5.2.3 Monthly Certifications

The persons authorized to sign the Certification of Materials Acceptance and Testing, Form 700-020-02 is (*Prime Contractor person's name*). In the event that he is not available, then (*Provide an alternate name if needed*). Each month, he/she will provide a notarized certification of compliance on the Department's Form 700-020-02 and will note all exceptions. The form will be filled out in accordance with the instructions for the form."

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

Include in 105-8.2 the requirement for the QC Manager to maintain the QC inspection reports as indicated in 105-1.2.2. Include this requirement in the second paragraph. Could say something similar to: "Make copies of the completed forms and inspection reports available for the Department to review daily unless otherwise required in the specifications."

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

In this same section and paragraph, identify what daily means for inputting test data. Could say something similar to: "Ensure that the QC test data is entered into the Department's database within 24 hours after completion of the test."

Field problems show that the contractor starts about 7 days late and then continues in that mode. So the test data is input 7 days after the test is completed. He is doing it daily at that point.

Modify 105-8.4; Need to include a statement that the WTS will provide a list of trained flaggers to the Department so that it can be verified in the field. Could say something similar to: "The Worksite Traffic Supervisor or others as approved by the Department will provide training for flaggers and provide a list of trained flaggers to the Department for each project."

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

Include QC inspection and oversight procedures to ensure effective Quality Control of all subcontractor operations.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

105-3.8

Consider adding the following sentence at the end of 105-3.8:

As part of the approved Quality Control Plan, meet the requirements of this Section for the transportation, storage, placement, and other related construction operations performed by subcontractors. Include QC inspection and oversight procedures to ensure effective Quality Control of all subcontractor operations.

Response: This subarticle was moved from Section 6 to 105 word for word and was not altered. Due to this, no change will be made to this language at this time. The comment has been forwarded to the State Construction Office for future consideration.

Doug Holdener
dholdener@rinker.com
561.352.8959

Comments:

Comment 1 - Re: 105-"8"5.11.1.4.1 Testing Personnel We understand that the proposed change to this section is administrative. However, we are seeking clarification of how laboratory strength testing is defined. We concur that ACI certification is needed for the personnel that are operating compressive strength cylinder breaking equipment and interpreting the results in the lab. However, for the plant that produces cylinders and then transfers them to a certified lab, it is not necessary that the said plant personnel making the cylinders have that certification. Incidentally, the technique for preparing dry cast concrete cylinders is discussed in the Level I and II QC training.

Response: No changes were made to the language in this subarticle. The requirements remain the same. No change made.

Comment 2 - Re: 105-"8"5.11.1.4.2: Batch Plant Operator Again, we understand that the proposed change to this section is administrative in nature. However, we are seeking a clarification. The State Materials Office indicated in December 2006 that "dry-cast concrete box culvert plants do not need the plant operator training. The proposed Levels I and II courses include the necessary information for their specific needs."

Response: No changes were made to the language in this subarticle. The requirements remain the same. No change made.
