

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

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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

(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.

(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".

(3)- Article 105-6

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

(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.

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Comments:

105-1.2.3

1st Paragraph, 2nd Sentence

place comma after "Engineer".

2nd Paragraph, 1st Sentence

place a "period" at end of sentence

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

105-2

3rd Sentence

"up dated" should be one word "updated"

105-3.5

Should it be American Institute for Steel Construction (AISC)

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

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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..."

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

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

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

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

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?

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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.

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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.

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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.

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

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.

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

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 quantities 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.

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.

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.

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.**

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.

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.

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Comments

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

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?

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."

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."

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."

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."

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."

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

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.
