

APPENDIX B06

PRECAST PRESTRESSED CONCRETE PRODUCER QUALITY CONTROL PLAN CHECKLIST

Instructions:

1. This checklist will be used by the Department during the evaluation of Quality Control (QC) Plans submitted by Precast Prestressed Concrete Producers. The checklist may also be used as a guideline for creating a QC Plan to be submitted to the Department.
2. Refer to FDOT Standard Specifications Section 105 for more information regarding the submission of a Producer QC Plan. Requirements in the QC Plan Item column of the checklist are from Section 105 unless otherwise stated. MM indicates FDOT Materials Manual, followed by the appropriate section number.
3. The information section above the checklist is designed to record general production facility information. Producers may use it as a template for identifying information on the cover page of the QC Plan.

Company: _____ Tax ID: _____
 Physical Address: _____ FDOT ID: _____
 City: _____ State: _____ Zip Code: _____ County: _____
 Decimal Latitude / Longitude Coordinates: _____ / _____
 Mailing Address (if different from above): _____
 City: _____ State: _____ Zip Code: _____ County: _____
 Primary Contact: _____ Phone #: _____
 Email Address: _____ Fax #: _____
 QC Plan Date: _____

QC Plan Item	Y/N	Pg. #
1. Personnel		
<i>A. Qualifications</i>		
1) List of all qualified personnel performing sampling, testing and inspection for both field and laboratory, including Technician Identification Numbers (TINs), names and expiration dates of ACI, PCI and other pertinent certifications included?		
2) Copy of all pertinent certifications attached for QC manager, QC inspector(s), QC technician(s), and other relevant personnel?		
<i>B. Level of Responsibility</i>		

QC Plan Item	Y/N	Pg. #
1) Roles and responsibilities of personnel involved in the quality control process identified?		
2. Raw Materials		
<i>A. Source</i>		
1) Department-approved structural concrete batch plant identified by the FDOT facility ID? (MM 8.1)		
2) Manufacturer of prestressing strand, reinforcing steel, and other items incorporated into the work identified?		
3) Method for identifying reinforcing material LOTS described? (Section 450)		
4) Methods for tracking the placement and monetary value for minimal quantities of non-domestic steel and iron described? (MM 8.1)		
5) Methods and locations for segregating non-domestic and domestic steel and iron stockpiles described? (MM 8.1)		
6) Methods for identifying and cataloging finished products containing non-domestic steel and iron described? (MM 8.1)		
7) An example delivery ticket with Buy America compliance statement and dollar amount of non-domestic steel and iron used in the finished products for each delivery included? (MM 8.1)		
8) Is FRP reinforcement identified in the QC Plan and utilized in accordance with the manufacturers' instructions? (MM 8.1)		
<i>B. Certification</i>		
1) Methods of verifying material certification compliance with the Specifications described?		
<i>C. Disposition of Failing Materials</i>		
1) System for controlling non-conforming materials, including procedures for identification, isolation, and disposition described?		
<i>D. Storage</i>		
1) Method for storing raw materials, including steel and strand described? (Section 450)		

QC Plan Item	Y/N	Pg. #
3. Plant and Production Requirements		
<i>A. Plant Certification</i>		
1) Copy of current certification from a Department-approved precast prestressed concrete plant certification agency attached? (MM 8.1)		
<i>B. Production Equipment</i>		
1) Calibration and verification schedule for stressing equipment and concrete lab/field testing equipment described? (Section 450)		
<i>C. Process Control System</i>		
1) Method for fixing strands and supporting reinforcing steel described? (Section 450)		
2) Method of stressing and determining losses (live end and dead end slippage) described? (Section 450)		
3) Method and frequency of inspections and concrete testing described? (Section 450)		
4) Method and frequency for the inspection of reinforcement, prestressed strand, and accessories described? (Section 450)		
5) Description of concrete placement in successive layers (excluding SCC) for products included? (Section 450)		
6) Method of and materials for protecting fresh concrete described? (Section 450)		
7) Location of thermocouples identified? (Section 450)		
8) Method of curing described? (Section 450)		
9) Method and frequency for inspecting form removal and detensioning procedures described? (Section 450)		
10) Detensioning time limit included? (Section 450)		

QC Plan Item	Y/N	Pg. #
11) Method of stress transfer described? (Sequence/pattern used). (Section 450)		
12) Method of removing products from the casting bed described? (Section 450)		
13) Method and frequency for the inspection of finished products described? (Section 450)		
14) Description of processes ensuring that the Plant QC Manager, or inspectors under their direction, examine all precast prestressed concrete products within five working days of detensioning to ensure their dimensions conform to the specified tolerances and to determine if there are any deficiencies? (Section 450)		
D. Loading and Shipping Control		
1) Description of method to prevent damage during handling, storing, and loading of finished products included? (Section 450)		
E. Types of Products Generated		
1) Type of products generated for the Department identified by the Standard Plan Index numbers?		
4. Other Requirements		
A. Submittal of Certification		
1) Copy of notarized Material Certification letter provided to the Engineer at the beginning of each project, certifying that the plant will manufacture the products in accordance with the requirements set forth in the Contract Documents and the Producer QC Plan attached? (Section 450)		
B. Statement of Compliance		
1) Statement of compliance with all quality requirements set forth by the Department in the Contract Documents and Department manuals included?		
C. Documentation Storage		
1) Method of record keeping described, including material certifications, test reports, pre and post placement inspection reports, deficiencies found, record of tensioning operations, and the location of document storage to enable Department review? (Section 450)		
D. Bi-Annual Major Defect Report		

QC Plan Item	Y/N	Pg. #
1) Statement addressing the monitoring of major defects, efforts to maintain the rates below the established limits, and submittal of bi-annual major deficiency data included? (MM 8.3)		
E. Addenda		
1) Have previous addenda been incorporated into the QC Plan revision, when applicable? (MM 8.1)		
5. Final Manufactured Product – Plant Operations		
A. Storage		
1) Method for monitoring stored products, and the method for determining monthly sweep and camber measurements described? (Sections 450)		
B. Disposition of Failing Materials		
1) Are the procedures and inspections of Department approved repair methods and repair materials described? (Section 450)		
C. QC Stamp		
1) Copy of QC stamp included? (Section 450)		
2) Procedure for applying QC stamp, including statement that the Department-issued plant number will only be applied to FDOT projects, and point in time when applied to product included? (Section 450, MM 8.1)		
6. Testing Laboratories		
A. Approved testing laboratories identified?		
7. Department Inspection Access		
A. Statement allowing Department access to the production facility included?		

Last Updated: Nov. 2nd, 2022