



Bureau of Materials Materials Approval Procedures

MAP Number: **128-15**

Effective Date: April 1, 2015

Approved By: Eileen Sheehy

PROCEDURE FOR APPROVAL OF FIBERGLASS CONCRETE COMPOSITE PILES (FCCP)

PURPOSE:

To establish a procedure to approve FCCP material for addition to the NJDOT Bureau of Material's Qualified Products List (QPL).

REFERENCES:

New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction
Section 916.03
NJDOT Bridges and Structures Design Manual

PROCEDURE:

A. Manufacturer's Request for Approval.

The manufacturer shall request in writing the approval of the FCCP material. Include the following information in the request:

1. The name, address and contact information for the manufacturer.
2. The name or designation of the FCCP material that is to be evaluated.
3. Calculations and certifications showing the structural properties, including ultimate strength and flexural strength requirements that are specified in Section 916.03.
4. Catalog cuts, manufacturer's recommendations for design and construction, schedules, diagrams, performance charts, physical appearance, and other characteristics to document the properties specified in Section 916.03..
5. Certification and lab reports from an independent testing facility that the FCCP meets the requirements specified in Section 916.03.

Mail the request for approval to the following:

Mailing Address (USPS):

Manager, Bureau of Materials (Thiokol Bldg. 4)
New Jersey Department of Transportation
P.O. Box 600
Trenton, NJ 08625-0600

Street Address (UPS, FedEx, etc.):

Manager, Bureau of Materials (Thiokol Bldg. 4)
New Jersey Department of Transportation
930 Lower Ferry Road
West Trenton, NJ 08628

B. Bureau of Structural Engineering Review.

The Bureau of Structural Engineering will review the manufacturer's submittal for completeness. If the submittal is incomplete, it will be rejected. The Bureau of Structural Engineering will review the submittal to verify that it meets Section 916.03 requirements and NJDOT design parameters. The Bureau of Structural Engineering will make the final determination on the approval of the FRPL for addition to the QPL.

PROJECT ACCEPTANCE REQUIREMENTS:

Qualification of the FCCP material and its addition to the QPL does not constitute a blanket approval. On a project to project basis, the use of the FCCP shall be submitted for approval according to the Working Drawing procedures of the NJDOT Standard Specifications.

DISQUALIFICATION:

The ME may remove a FCCP listing from the QPL for non-conformance with design and construction specification requirements or for a documented history of poor field performance. The manufacturer shall notify the ME, in writing, of any change in product formulation or design. Failure to notify the ME of changes in product formulation will result in disqualification.

REQUALIFICATION:

The ME will reevaluate a product which has been disqualified and removed from the QPL only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved.

The ME may require the manufacturer to requalify the product for any of the following reasons:

1. To ensure that obsolete FCCP listings are not kept on the list, the ME may request written confirmation from the manufacturer that the material is still available and has not changed formulation or design. Failure to respond to the Bureau's written request will result in the product being removed from the list.
2. If the formulation or design of the material has changed, the ME may require that the product be requalified.
3. If the NJDOT Standard Specifications or NJDOT Bridges and Structures Design Manual change or if any referenced ASTM or AASHTO specifications change, the ME may require requalification to ensure that the product meets new criteria.