Centennial FDOT 1915 ★ 2015

Florida Department of Transportation

RICK SCOTT
GOVERNOR

State Materials Office
5007 NE 39th Avenue, Gainesville, FL 32609
(352) 955-6600

JIM BOXOLD
SECRETARY

January 22, 2015

MATERIALS BULLETIN NO. 01-15
DCE MEMORANDUM NO. 01-15
(FHWA Approved: 1/22/2015)

TO: **DISTRICT MATERIALS AND RESEARCH ENGINEERS**
DISTRICT CONSTRUCTION ENGINEERS

FROM: Timothy Ruelke P.E., Director, Office of Materials
David A. Sadler, P.E., Director, Office of Construction

COPIES: Tom Byron, Rudy Powell, Bob Burleson, Chad Thompson, Nick Finch, Rafiq Darji, Paul Vinik, Mike Bergin

SUBJECT: **SEPARATION TECHNOLOGIES – Big Bend, Apollo Beach FLY ASH (FA30)**

In order to prevent concrete placement delays due to the shortage of Class F fly ash from Separation Technologies – Big Bend, Power Plant, concrete producers may request the Department implement a modified mix design approval process. This memorandum will allow placement of concrete prior to receiving formal Department mix design approval, and is only applicable for replacing Separation Technologies – Big Bend, Class F fly ash incorporated in currently approved concrete mix designs. The Contractor/Producer assumes all risks involved for ensuring that plastic and hardened properties are in compliance with the specifications at the time of placement.

If the modified mix approval process is used, the following requirements must be met:

1. District Materials Office personnel will ensure the replacement mix contains the same component materials and quantities as the replaced mix and only fly ash substitution is permitted. The new mix must meet the same requirements as the old mix, including yield, plastic and hardened properties. Adjustments to weights according to specific gravity of replacement fly ash chosen will be permitted as long as the replacement mix equals the original mix regarding application and environmental conditions. All materials must be from an approved source.
2. District Materials Office personnel will submit the replacement mix design to the State Materials Office similar to the material substitution procedure found in MM 9.2.6.8.

3. The State Materials Office will assign a new temporary design mix number with the old design mix number referenced in the mix design comments.
4. At the first job-site placement of the new mix, for first project, the Concrete Producer's ACI certified technician or the Contractor's QC certified CTQP inspector will cast a minimum of SIX 4x8 cylinders to be tested by the Concrete Producer's or the Contractor's CTQP qualified lab. THREE will be tested for 7-day results, and THREE will be tested for 28-day results. If the producer elects to verify his strength earlier than 28 days, then additional cylinder sets of THREE may be fabricated at their discretion.
5. District Materials Office personnel will submit the Producer's 7 and 28-day test results to the State Materials Office. Whenever overdesign strength is reached, the new design mix will be fully approved as a new mix for FDOT use. **Acceptance cylinders shall not be used for design mix approval.**

This memorandum does not waive any specification requirements but simply allows an expedient means to approve mix designs. It is in effect until February 13, 2015. After that date the normal mix design approval process will be in effect. It serves as a blanket approval to process this change as a no cost specification revision and shall be attached to the work order or supplemental agreement required for its processing.

Should you have any questions please contact Toby Dillow, State Materials Office at 352-955-6681 or Mike Bergin, State Materials Office 352-955-6666.

TR/mb