



## Florida Department of Transportation

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MIKE DEW  
SECRETARY

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**\*\* EXPIRED \*\***

**MATERIALS BULLETIN NO. 08-17**

**DCE MEMORANDUM NO. 09-17**

*(FHWA Approved: 6/12/2017)*

**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:** Amy Tootle, Courtney Drummond, Bob Burleson, Nick Finch, Rafiq Darji, Michael Bergin, Pat Carlton, Thomas Frank

**SUBJECT:** LEHIGH CAPE CANAVERAL SLAG PLANT (SLAG08)

In order to prevent concrete placement delays on ongoing construction projects due to the shortage of slag cement from the Lehigh Cape Canaveral slag plant located in Cape Canaveral, Florida concrete producers may request the Department to 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 Lehigh Cape Canaveral slag cement incorporated in currently approved concrete mix designs assigned to current projects. 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 slag cement 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 slag cement 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 MAC.
4. At the first job-site placement of the new mix, for each project, the Concrete Producer's ACI certified technician or the Contractor's QC certified CTQP inspector will cast a minimum of SIX extra 4x8 cylinders to be tested by the Concrete Producer's or the Contractor's qualified laboratory. THREE will be tested for 7-day results, and THREE will

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be tested for 28-day results. If the producer wants earlier than 28-day design mix approval, then additional cylinder sets of THREE can 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 stand-alone permanent mix for FDOT use. **Acceptance cylinders are not to be used for the design mix approval process.**

This memorandum does not waive any specification requirements but simply allows an expedient means to approve mix designs. It is in effect until **July 15, 2017**. 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 Michael Bergin, State Materials Office 352-955-6666.

TR/mb