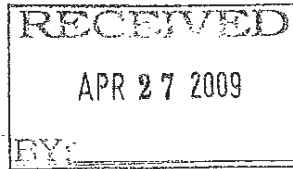


DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
MATERIALS ENGINEERING AND TESTING SERVICES
TRANSPORTATION LABORATORY—MS 5
5900 FOLSOM BOULEVARD, ROOM 101
SACRAMENTO, CA 95819-4612
E-MAIL: <rosme_aguilar@dot.ca.gov>
PHONE: (916) 227-7253
FAX: (916) 227-7117
TTY: 711



*Flex your power!
Be energy efficient!*



April 23, 2009

Claudio Hunger, P.E.
Project Engineer
AVAR-SAS
47375 Fremont Blvd.
Fremont, CA 94538-6502

Dear Mr. Hunger:

The California Department of Transportation's (Department) has completed the pre-qualification testing of the "AVAR-SAS 97 ksi Thread Bar Couplers," issued on December 9, 2008.

Your ammendment letter states that the system mentioned above will be used exclusively for soil anchorage applications. Based on this statement and the information previously submitted, test specimens of your system have been tested and the results are as follows:

1. #7 SAS Threaded Bar, ASTM A 615, Grade 97 and CTS 22/120H coupler, approved
2. #8 SAS Threaded Bar, ASTM A 615, Grade 97 and CTS 25/120H coupler, approved
3. #10 SAS Threaded Bar, ASTM A 615, Grade 97 and CTS 30/120H coupler, approved
4. #11 SAS Threaded Bar, ASTM A 615, Grade 97 and CTS 35/120H coupler, approved
5. #9 SAS Threaded Bar, ASTM A 615, Grade 97 and CTS 22/120H coupler, does not meet the pre-qualification test requirements

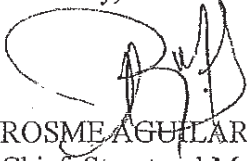
The approval of the above systems is contingent upon satisfactory field performance and compliance with all contract requirements.

Please resubmit samples for the #9 SAS Threaded Bar and corresponding couplers if you intend to have the bar system retested.

Claudio Hunger, P. E.
April 23, 2009
Page 2

If you have any questions with regard to this threaded bar coupler submittal, please feel free to call me at (916) 227-7253.

Sincerely,



ROSME AGUILAR, P.E.
Chief, Structural Materials Testing Laboratory
Office of Structural Materials
Materials Engineering and Testing Services
Division of Engineering Services

c: Glen Weldon, Structural Materials Testing Laboratory
Francisco Romero, Structural Materials Testing Laboratory
File: Steel-Prestressing-Anchor Assembly Approval

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
MATERIALS ENGINEERING AND TESTING SERVICES
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October 6, 2010

Mr. Claudio Hunger
AVAR-SAS
47375 Fremont Boulevard
Fremont, CA 94538-6502

Dear Mr. Hunger:

The California Department of Transportation (Caltrans) has completed the pre-qualification testing of the #9 SAS 97 ksi Threaded Bar system.

Per our previous letter dated April 23, 2009 the #9 Threaded Bar system did not meet pre-qualification test requirements. Samples were resubmitted on October 5, 2010 to our laboratory for retest. Test specimens were tested on October 6, 2010 and the following system has been approved:

“#9 SAS Threaded Bar, ASTM A615, Grade 97 and CTS 28/120-H coupler”

It is our understanding that the above system will be used exclusively for soil anchorage applications. The approval of the above system is contingent upon satisfactory field performance and compliance with all contract requirements.

If you have any questions please feel free to call Robert Kim at (916) 227-7909.

Sincerely,

A handwritten signature in black ink that reads "Leo Martinez".

LEO MARTINEZ, P.E.
Chief
Structural Materials Testing Laboratory
Office of Structural Materials

cc: Glen Weldon, Structural Materials Testing Laboratory
Robert Kim, Structural Materials Testing Laboratory
File: Anchorage - Bar Systems Approval