Final Agenda

TBPOC URGENT MEETING  
May 28, 2015  
Executive Session: 5:00PM-5:10PM  
Regular Session: 5:10PM-6:00PM  
Dial-in Number: 1(866) 803-2146; Access Code: 2474385

<table>
<thead>
<tr>
<th>Item Number/ Topic</th>
<th>Presenter</th>
<th>Time</th>
<th>Desired Outcome</th>
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</thead>
<tbody>
<tr>
<td>1. EXECUTIVE SESSION</td>
<td>Dan McElhinney, Caltrans</td>
<td>10 min</td>
<td>Information</td>
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<tr>
<td>a. SAS Construction Contract Close Out</td>
<td>Dan McElhinney, Caltrans</td>
<td>10 min</td>
<td>Information</td>
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<td>2. REGULAR SESSION</td>
<td>Dan McElhinney, Caltrans</td>
<td>45 min</td>
<td>Information</td>
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<tr>
<td>a. SAS Tower Anchor Rod Update</td>
<td>Dan McElhinney, Caltrans, Brian Maroney, Caltrans</td>
<td>45 min</td>
<td>Information</td>
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<td>3. OTHER BUSINESS</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>a. Report on matters discussed and actions taken at Urgent Meeting</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>b. Report on matters discussed and actions taken during Executive Session</td>
<td>Steve Heminger, BATA</td>
<td>5 min</td>
<td>Information</td>
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<td>4. GENERAL PUBLIC COMMENT</td>
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Next TBPOC Regular Meeting:  
June 23, 2015, 10AM-1PM  
Pier 7, Oakland, CA
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Memorandum

TO: Toll Bridge Program Oversight Committee (TBPOC)

DATE: May 28, 2015

FR: Dan McElhinney, Chief Deputy District Director, Caltrans District 4
Brian Maroney, SFOBB Project Chief Engineer, Caltrans District 4

RE: Agenda No. - 2a
Item- SAS Tower Anchor Rod Update

Recommendation:
The PMT is recommending for TBPOC approval to proceed with the site preparation and the removal of a fourth tower anchor rod (162-2-12) by supplementing the current SAS contract change order CCO 394 to complete the work, of which costs are estimated to be under the previously approved TBPOC budget of $1 million capital outlay cost for pull load testing tower anchor rods and rod removal as needed for additional lab testing submittal as directed.

Cost:
Not to exceed $1 million capital outlay

Schedule:
Immediate

Discussion:
The Department has completed the first phase of the SAS tower seismic anchor rod investigation with test results showing more than 99 percent of rods that could be tested passed performance expectations and can withstand major earthquake forces. These anchor rods are just one of many seismic innovations on this bridge that help ensure resiliency of the structure for decades to come. The two rods that did not pass the test (rod 155-1-1 previously removed and rod 162-2-12 proposed for removal) once removed will be prepared by METS staff and sent to a laboratory for preservation and photography awaiting approval of additional testing to begin.

Over the past several weeks, Caltrans completed pull load testing on all 408 of the 424 tower anchor rods that can be tested. The pull load test involves a jacking device that threads on top of the rods and applies a range of force that is monitored to verify rod integrity. 406 tower rods, or 99 percent of rods subject to testing, passed the pull load test. Two anchor rods did not pass the test and will be removed upon TBPOC approval.
and sent to a laboratory to determine the reason for failure. Of the remaining rods at the base of the tower, 14 rods previously tensioned in place cannot be further tested because of inadequate access or amount of top rod threads available, and 2 rods were previously removed for laboratory analysis (see attached layout map).

The specific lab testing protocol for rod 3 and rod 4 testing is under development and will be reviewed by external experts and the Toll Bridge Program Oversight Committee before testing begins.

The tower seismic anchor rods are a supplemental design element added to enhance limiting minor damage during a major seismic event by preventing the tower from rising less than an inch. Only 4 rods (1% of the total) did not pass pull load testing, and preliminary engineering analysis shows that even if all tower seismic anchor rods were compromised there would remain no safety issue during everyday use or during or after an earthquake.

**Attachments:**
Photo of Rod 162-2-12 Pull Load Test Area, May 2015
Status as of end of Shift on Tuesday 5/26/2015

- Rod 1 - Removed May 2013
- Rod 2 - Removed December 2014
- Rod 3 - Removed May 2015
- Rod 4 - Recommend Removal

Rod 1 - Removed May 2013
Rod 2 - Removed December 2014
Rod 3 - Removed May 2015
Rod 4 - Recommend Removal

Locations checked a second time with additional instrumentation - pass

Location checked a second time with additional instrumentation on 5/26/2015 - recommend rod removal
Upper Portion of Rod ID 162-2-12

PHOTO ROD 162-2-12 PULL LOAD TEST AREA MAY 2015