



**C E L CONSULTING**

A DIVISION OF CONSOLIDATED ENGINEERING

March 11, 2011

Project No. D50541

Mr. Eric Dausman  
Sutro Tower, Inc.  
1 La Avanzada Street  
San Francisco, CA 94131-1124

SUBJ: Sutro Tower – Routine Inspection of Leg B and East Face – November, 2010  
San Francisco, CA

Dear Mr. Dausman:

We have completed our inspection of Leg B, the East Trusses, the Strands and the Base of all legs. The inspection was performed on November 1, 2 and 13, 2010.

**Purpose**

The purpose of the inspection was to check the structural portions of the tower proper (not the attached equipment, etc.) for distress due to corrosion, structural overload and/or other signs of structural distress or potential deterioration.

**Scope and Procedures**

The survey was performed in general accordance with the recommended approach for a Routine Inspection as described in the Inspection Procedures. A staff engineer (Richard Ng) and an inspector (Chad Hill) performed the inspection. Both had performed inspections on other legs and faces with the undersigned in prior years. They also inspected the strands by naked eye and binocular.

The inspection was limited to visual observations and recording by entry on the data sheets for each portion of the tower being inspected. A specific photograph was taken for the individual conditions. The data sheets and the photographs are coordinated.

### Inspection Limitations


We inspected the tower from the interior of the leg and horizontal trusses. No attempt was made to inspect from the exterior of the trusses and legs other than what could be seen by naked eye and binoculars (8x). These methods allow us to see most of each surface and connection, however there are still areas that are not visible.

### Results

The individual results are shown on the data sheets, location sketches and photographs. The general results were as follows:

1. No structural members were noted with distorted or distressed conditions indicating structural overload.
2. Most of the distress noted was corroded fasteners. Either the nut (usually) or the head of the bolt, or both, were corroded. None of the fasteners were corroded to the point of producing flaking buildup. These fasteners should be cleaned and repainted. If however during the cleaning significant loss of metal is found, that is, if the flats of the nut or heads rounded at junction of the flats due to corrosion, the fastener should be replaced.
3. The skin showed no signs of structural distress.
4. The strands did not have any visible distress.
5. The bases of all three legs showed no significant observable distress. Some corrosion was visible on the strand turnbuckles on Leg A and B and there were several corroded fasteners on at the base of all three legs.
6. This concludes our report of the routine inspection of Leg B and the East Face of Sutro Tower. If you have any questions please contact the undersigned.

Sincerely,  
CEL Consulting

  
K. C. Dewell, Senior Engineer  
Civil Engineer No. 29110

Cc: Ron Hamburger



**C E L C O N S U L T I N G**

# Inspection Summary – Year 2010

## Description of Inspection:

- Routine inspection of Leg B
- Routine inspection of horizontal levels on East face
- Routine inspection of strands on East face
- Routine inspection of strand anchors on Leg B
- Routine inspection of base – all legs

## Special or In-Depth Inspections:

## Summary of Results:

## Summary of Recommendations:

*Clean and paint*

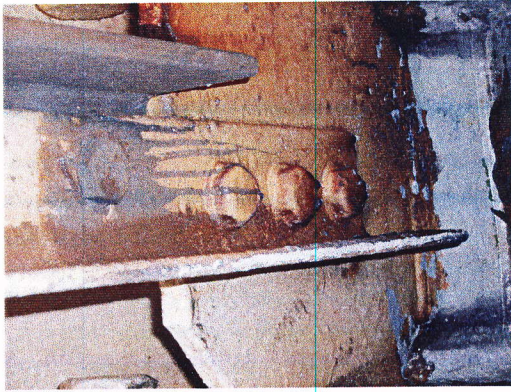
## Checklist:

- Has a severe event occurred since the previous inspection ?    Yes     No
- Have action items and recommendations from previous inspections been addressed in the scope of work ?     Yes    No
- Has the inspection log for future years been revised to account for scope of work and findings of this inspection ?    Yes     No

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

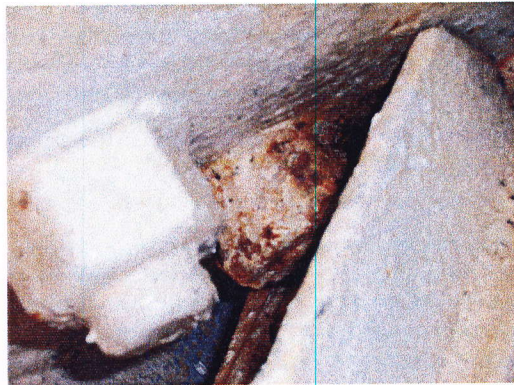




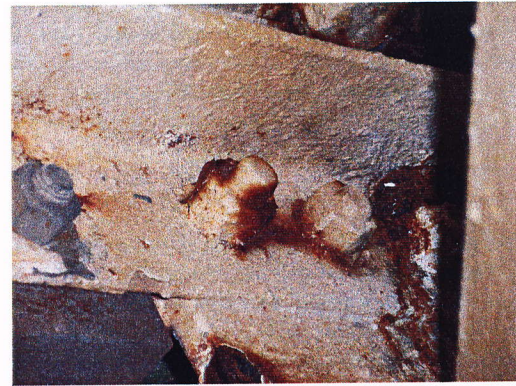
PB021535  
11/2/10



PB021536  
11/2/10



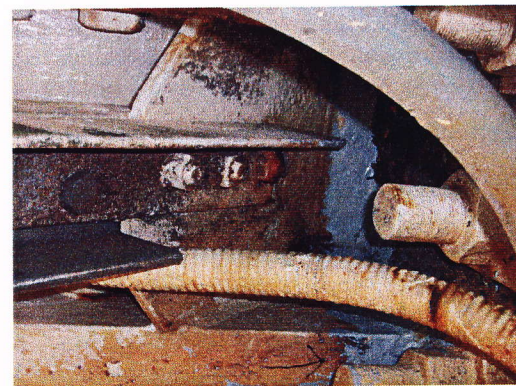
PB021537  
11/2/10



PB021540  
11/2/10



PB021541  
11/2/10



PB021543  
11/2/10



PB131724  
11/13/10



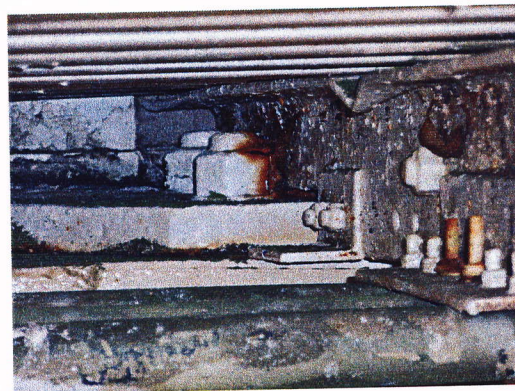
PB021526  
11/2/10



PB021529  
11/2/10



PB021533  
11/2/10



PB021532  
11/2/10