

# Memorandum

*Flex your power!  
Be energy efficient!*

**To:** BILL CASEY  
Supervising Engineer  
SFOBB SAS

**Date:** October 25, 2011

**File:** 04-SF-80-13.2/13.9  
04-0120F4  
SAS

**Attn:** Kannu Balan/Bill Shedd

**From:** STEVEN HULSEBUS  
District Division Chief  
Office of Toll Bridge Design

**Subject:** Contract Change Order Request- for adding light fixtures on the main cable.

Please initiate a contract change order to add extra light fixtures for achieving the necessary light level and providing symmetry and uniformity across the SAS at the following two locations:

1. At Panel Point 80 of the eastbound side of the SAS, the plan calls for only two light fixtures, an additional fixture should be added to meet the lighting standards of the contract per information provided by Bill Shedd in his e-mail of 10/12/11.
2. At the Panel Point 80 of the westbound side of the SAS, there are no fixtures in the contract plan. It is requested to add three light fixtures to maintain symmetry and uniformity with the eastbound side per input from the bridge architect and Clive Endress

Justification for these requests comes from Clive Endress and the bridge architect (Don MacDonald). Quoting from Clive:

“Please provide an additional bracket with light fixtures on the main cable (westbound) of the SAS to provide symmetry and uniformity across the span. Especially in a westbound direction, the main suspension cables act as a portal, or gateway to the main span and tower. The light fixtures which are attached to and arranged in clusters (of 3) along the cable are located such that they are opposite each other in east and west-bound directions; they are an important element in reinforcing the symmetry of this gateway experience. Although a first cluster of lights (west-bound) is apparently not necessary for required light levels, it is a very important element architecturally in maintaining the symmetry at this point on the bridge. It is therefore recommended that this cluster of three lights be added to the main cable at Panel point 80.”

BILL CASEY  
October 25, 2011  
Page 2

If you have any questions or need additional information please contact me at (510) 286-5085.

Cc: K.Terpstra, J. Uozumi, M. Ma/J. Chen