



To: Bay Area UASI Approval Authority
From: Catherine Spaulding, Assistant General Manager
Date: March 10, 2016
Re: Item 7: FY16 UASI Hub Funding Formula

Staff Recommendations:

Approve the proposed FY16 hub funding formula

Action or Discussion Items:

Action

Discussion:

A. Formula

The Bay Area UASI uses FEMA's state and MSA risk formula to guide the portioning of grant dollars among the four hubs using risk criteria. Now that FEMA has released their FY16 formula, the Management Team can propose the hub funding formula for the FY16 grant. FEMA's updated risk formula has no changes, and so the proposed hub funding formula for FY16 is the same as last year (and remains unchanged since 2009):

$$\textit{Population risk (49\%)} * \textit{Asset risk (29\%)} * \textit{Economic risk (22\%)}$$

However, there is a change to the population risk calculation. We are no longer including visitor data as part of the population risk calculation as in years past. This is because this data cost \$7,000 to purchase and have a minimal impact on the weighted totals (less than 0.5%).

Haystax Technology calculates population risk using census, density, and commuter data; asset risk using threat, vulnerability, and consequence data from the Bay Area UASI asset catalog in Cal COP; and economic risk by using GDP by MSA and industry data from the U.S. Bureau of Economic Analysis.

B. Calculation

Haystax Technology then combines the three weighted risk elements (population, asset, and economic) to determine each hub's overall percentage of risk in the region. Although the formula remains essentially the same, there is now more recent data to input into the formula, and so there are slight changes to the risk percentages among the hubs as compared to FY15:

- **Population:** The Management Team refreshed all of the population data this year as planned except for the visitor data as explained above (schedule is biennial: next refresh planned for 2018).
- **Asset:** The Management Team shared an annual update to the asset data with the Approval Authority in July of 2015, and in January 2016, the Management Team presented changes in the regional asset risk distribution as a result of the asset database clean up.
- **Economic:** The Management Team refreshed economic data this year as planned (schedule is biennial: next refresh planned for 2018).

The table below provides the FY 2016 hub risk allocation percentage results as compared to FY 2015. As always, upon request we will be happy to meet with jurisdictions to review in detail the changes that have led to these updates.

Hub	FY 2015 Allocation Percentage	FY 2016 Allocation Percentage
East	24.16%	24.27%
North	8.34%	8.18%
South	25.20%	24.69%
West	42.29%	42.86%
TOTAL	100%	100%