

**PROSPECTUS – ALTERATION
SEISMIC MITIGATION PROGRAM
VARIOUS BUILDINGS**

Prospectus Number: PSE-0001-MU18

FY 2018 Project Summary

This prospectus proposes alterations to install, upgrade and improve seismic performance in Government-owned buildings starting in Fiscal Year (FY) 2018.

FY 2018 Committee Approval and Appropriation Requested \$40,000,000

Program Summary

As part of its Seismic Mitigation Program efforts, GSA is currently identifying seismic risks in federal buildings in high seismic areas throughout the country through previous seismic evaluations, inspections and 41 American Society of Civil Engineers Tier 1 studies undertaken as part of the GSA Seismic Risk Rating Program. The approval and appropriation requested in this prospectus is for a diverse set of retrofit projects with engineering solutions to reduce hazards. Resulting mitigation projects will vary in size, location and delivery method. Typical projects include:

- Installing or upgrading seismic bracing on fire suppression piping, water lines, gas lines, and steam lines to reduce fire risk and reduce risk from falling hazards to the building occupants.
- Installing seismic bracing on partitions with large height-to-thickness ratios, terra cotta or unbraced stairwell conditions, including revisions to stairs to allow for relative floor movement during seismic events.
- Installing seismic bracing and snubbers, as required, to mechanical and electrical equipment to reduce instability, fire risk and post-event down time.
- Installing seismic bracing on and above suspended ceilings to prevent falling ceilings, fixtures, equipment, and piping.
- Bracing parapet walls and other facade elements to reduce falling hazards at the exterior of buildings and at building exits.
- Strengthening diaphragm and connections to lateral load resisting elements.
- Strengthening critical structural members and connections.
- Anchoring features and installing seismic bracing on furniture, fixtures and equipment to mitigate injury risk.

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Justification

GSA is finalizing the seismic risk ratings of buildings located in high seismic areas. Based on the seismic work in conjunction with prior studies, GSA initiated a program to identify non-structural seismic hazards and initiated correction and risk reduction projects associated with those hazards. According to the Federal Emergency Management Agency, most of the damage caused by several recent U.S. earthquakes is the result of nonstructural failures. Falling non-structural building components are responsible for the majority of injuries in a seismic event. Completion of projects funded through this program will reduce the overall level of risk from seismic events in Government-owned buildings.

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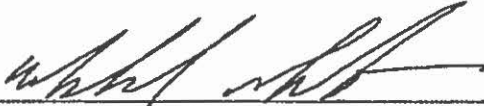
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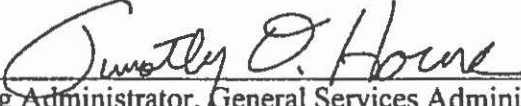
Certification of Need

The proposed project is the best solution to meet a validated Government need.

May 17, 2017

Submitted at Washington, DC, on _____

Recommended:  _____
Acting Commissioner, Public Buildings Service

Approved:  _____
Acting Administrator, General Services Administration