

ASSESSMENT

VFA Seismic Assessment Solution

INTEGRATING SEISMIC PREPAREDNESS INTO YOUR CAPITAL PLAN

Identifying the vulnerabilities to and consequences of seismic activity is critical. Organizations need to ensure the appropriate preparations and budgets are in place when the inevitable happens. The structural integrity of a building is usually the first consideration when preparing for earthquakes, but surprisingly, it is often the non-structural components that render facilities unusable and are associated with the greatest level of damage .

In addition to professional Lifecycle and Facility Condition Assessment (LCA/FCA) services, VFA provides a Seismic Assessment Solution that helps organizations identify these non-structural components by using a standardized methodology to collect, centralize, and prioritize this seismic-related data. With this critical data captured in VFA.facility, VFA's award-winning Capital Planning and Management Solution (CPMS), organizations are empowered to make the best strategic decisions to improve the overall seismic performance of their buildings.

INTEGRATE SEISMIC PREPAREDNESS INTO YOUR CAPITAL PLAN

VFA has developed a Seismic Assessment Service that is both comprehensive and flexible to satisfy a wide variety of specific needs. The combination of skilled VFA assessors with the use of industry-accepted seismic guidelines produces accurate, consistent results. The VFA Seismic Assessment Solution was built around four elements:

- **Highly qualified building professionals** VFA's accredited team of professionals includes architects and engineers with an average of 20 years of experience in the building industry, including design, construction, facilities management, project management, and other facilities-related positions. This team conducts the field assessments and develops the recommendations on a series of requirements and actions designed to reduce the vulnerability of facilities to the potential non-structural damage that can occur during a seismic event.

VFA SOLUTIONS HELP ORGANIZATIONS:

- Identify seismic vulnerabilities to mitigate risks and enhance seismic-related performance of facilities
- Prioritize seismic related updates and quantify the costs of those actions
- Integrate seismic related investments into capital plans and budgets

The screenshot shows the VFA.facility software interface. The top navigation bar includes Home, Assets, Funding, Budgets, and Projects. The left sidebar shows a tree view with Regions, Campuses, and Assets. The main content area displays a table of assets with the following columns: Number, Use, Building Type, S Score, Seismic, Photo, and Files. The table contains five rows of data.

Number	Use	Building Type	S Score	Seismic	Photo	Files
16B55-00002	Maintenance Shops	RM1 (FD)	1.2	True	24	5
16C00-00001	Readiness Center	RM1 (FD)	1.7	True	8	5
16B10-00001	Readiness Center	RM1 (FD)	1.7	True	39	5
16B55-00001	Readiness Center	RM2 (RD)	1.7	True	14	5
16B65-00001	Readiness Center	RM1 (FD)	1.7	True	37	5

Seismic related attributes are applied to Assets in VFA.facility®.

VFA Seismic Assessment Solutions

- **Time-tested and proven assessment methodology** VFA's assessment methodology results in recommendations that include non-structural seismic preventative actions and workplace strategies to ensure that you are best prepared to develop and implement sound capital reinvestment plans that include seismic preparedness. VFA has refined its methodology for over a decade, adopting standards and industry guidelines in order to hone its services and produce results
- **Client Communications** VFA's key to success is having a clear understanding of each organization's objectives and expectations. Our project management teams review all aspects of the seismic engagement with the client prior to starting the field assessments. This practice is fundamental to every project and VFA is proud to have a long and distinguished list of clients willing to share their insights with other organizations not only on the performance of VFA services, but also

on the implications of undertaking the capital planning process.

- **Integration of technology with methodology** VFA has developed VFA.facility to align closely with its assessment methodology. The proven methodology enables VFA's architects and engineers to understand facilities conditions and capture relevant seismic data that can be used in VFA.facility for ongoing asset management and strategic decision support.

A SEISMIC ASSESSMENT SOLUTION BASED ON RECOGNIZED INDUSTRY STANDARDS

The VFA Professional Assessment team will ensure that the right data is captured and industry accepted methodologies are used to calculate seismic-related risk indexes.

VFA uses the widely accepted guidelines published by the Federal Emergency Management Agency (FEMA) and the National Earthquake Hazards Reduction Program (NEHRP). VFA leverages these standards to deploy a "Rapid Visual Screening" methodology to capture data on non-structural components, in addition to basic structural details. This strategy allows the VFA team to efficiently identify and capture all seismic-related data associated with a facility. This data is then used to generate detailed seismic requirements and actions within VFA.facility.

The combination of Federal Seismic Standards with VFA's assessment experience and approach provides organizations with a comprehensive, flexible solution to mitigate risks and enhance seismic-related performance

Home Assets Funding Budgets Projects

Military Division > Campuses (2) > Assets

New List Save Delete Print

Potential Seismic Hazard

"S" Score: 2.4

Detailed Seismic Study Required

Building Type: RM1 (FD)

The screenshot shows the VFA.facility interface with the 'Assets' tab selected. The breadcrumb path is 'Military Division > Campuses (2) > Assets'. The table below lists several assets with their respective details.

Number	Use	Building Type	"S" Score ▲	Seismic	Photo	Files
16B55-00002	Maintenance Shops	RM1 (FD)	1.2	True	24	5
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Seismic related requirements that are created allow users to easily view and prioritize in VFA.facility®.

SEISMIC ASSESSMENT SOLUTION

■ Seismic Data Collection

Details VFA uses the widely accepted FEMA seismic data collection guidelines presented in publications FEMA 154 and FEMA 74 to collect information. The data captured is then centralized in the facility database and attached to the specific VFA.facility Asset Record with which it is associated.

■ Seismic Asset Type Classification

VFA's assessment of the facility portfolio provides the criteria to classify the organization's assets under different Asset Types, each type being associated with a specific seismic scoring formula.

■ **Building / Asset "S" Score** Once the facility assessment is complete, an actual asset score is generated for each asset and captured in a seismic-specific field within VFA.facility. This data can now be incorporated in seismic-related reports and in VFA.facility's Business Intelligence dashboards.

■ Detailed Seismic Study

Determination The VFA Assessment team identifies specific buildings to target for further structural review. This data element is then flagged in VFA.facility and can be easily reported on to generate a list of high-risk buildings.

About VFA, Inc.

VFA helps organizations strategically manage their facility portfolios with Capital Planning and Management Solutions (CPMS™) that combine software, assessment services and business process consulting. Organizations in the corporate, education, healthcare and government sectors use VFA solutions to manage over two billion square feet of real estate.

Contact us to learn how VFA can help your organization to optimize its facilities investment.

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- **Non-structural Seismic Requirements (Deficiencies) and Actions** – VFA assessors capture the necessary seismic-related data points to generate building requirements and their associated actions and costs. Within VFA.facility, these requirements and actions are associated with a new “Seismic” Category and a sixth Priority called “Seismic Vulnerability,” enabling clients to easily identify the assets within their portfolio that are not compliant
- **Detailed Seismic Assessment Report** – VFA provides customers with a comprehensive Seismic Findings Report that summarizes the data collected across the facility portfolio.

LEARN MORE

Find out how VFA can help your organization assess the seismic compliance of its facilities using widely accepted and recognized industry standards, integrate seismic preparedness into your long-term capital plans, and ensure you have access to the information you need to minimize your risks and losses when the unexpected happens. Contact any VFA office or email us at info@vfa.com.