2016-2017 Achievements

VRE made significant progress during the past year in developing efficient and effective components of an asset management program that will be used as building blocks in creating VRE’s Transit Asset Management Plan in 2018. These achievements meet the federal guidance established by MAP-21 and the FAST Act.

Performance Targets
- Established performance targets for VRE’s rolling stock, equipment, facilities and infrastructure asset classes

Condition Assessments
- Developed quantitative methodologies for calculating performance/condition of each transit asset
- Developed standard operating procedures
- Incorporated forms and processes into the internet tool
- Performed condition assessments
- Compiled Facilities Condition Assessment Report, including track infrastructure

Safety Inspection
- Updated VRE’s safety inspection components and rating system
- Developed standard operating procedures
- Incorporated forms and processes into the internet tool

State of Good Repair
- Established prioritization process methodology
- Established State of Good Repair policy

Coming Soon
- Communication cabinet condition assessments and reporting using the internet tool
- An executive dashboard to inform decisions regarding maintenance and capital programming
- Development of a comprehensive Transit Asset Management (TAM) Plan
- Conduct peer review of TAM Plans for relevant national transit agencies
- Finalize the NTD Reporting Tool to meet federal requirements

VRE TRANSIT ASSET MANAGEMENT

Definition
Asset management is an emerging practice by which agencies use data to make better business decisions. Recent federal legislation established requirements for transit agencies to develop an asset management plan, track, and report on the condition of their assets. Asset management is an optimized approach to managing critical assets, throughout their lifecycle, to deliver an organization’s strategic objectives.

Benefits
Asset management can also be described as a better way of doing business to balance agency costs, risks and performance through better integration of all tools and disciplines.

Approach
VRE has teamed with a consultant partner to develop a transit asset management program that will not only meet Federal requirements but will also allow VRE to improve operational efficiency, maintain assets in a State of Good Repair, and make data-driven decisions regarding improvements and capital expenditures.

VRE’s asset management program includes the following:
- Inventory of VRE’s assets
- Guidelines and forms for asset management methodologies and procedures
- Condition assessment of assets
- Performance targets set annually
- Strategies for meeting targets
- Transit asset management and State of Good Repair policy
- Formal Transit Asset Management Plan that will be updated every four years
- Prioritization process for State of Good Repair improvements
- Identified prioritization of investments
- Methods for tracking performance and progress

FTA defines transit asset management as a “business model that uses the condition of assets to guide the optimal prioritization of funding at transit properties in order to keep our transit networks in a State of Good Repair.”
STATE OF GOOD REPAIR 2017 FACILITY CONDITION ASSESSMENTS

Condition assessments are conducted on VRE’s facility and infrastructure assets, using the FTA’s Transit Economic Requirements Model (TERM) five-point scale.

1 - Poor 2 - Marginal 3 - Adequate 4 - Good 5 - Excellent

During the summer of 2017, condition assessments were conducted at the 19 passenger stations, 3 VRE-owned passenger parking facilities, 2 administrative buildings, and 10 maintenance facilities, as well as the track infrastructure at the Broad Run and Crossroads Maintenance and Storage Facilities (MASF).

- The majority of VRE’s facility and infrastructure assets received an overall rating of 4 Good.
- The Spotsylvania passenger station, which opened in 2015, received an overall rating of 5 Excellent.
- The Alexandria, Lorton, and Quantico passenger stations received an overall rating of 3 Adequate.
- Alexandrias passenger station has several components nearing the end of their useful life.
- Current construction at the Lorton passenger station contributes to this rating designation.
- Expansion of the Quantico passenger station is currently programmed.

Internet Tool

An internet-based tool has been developed that facilitates the completion of condition assessments, safety inspections, and asset inventories in the field. This tool is designed to enable user friendly access to condition assessments and inventories in the office and field. Mobile, internet access allows users to input data directly into the database, saving time and eliminating duplication of effort. Forms can be exported to Adobe PDF files for use in reports. Future Microsoft Excel export capabilities are in development. The initial functionality of the internet tool was deployed in 2017:

- Automated and accessible
- Mobile and secure
- User friendly
- Includes an asset inventory
- Incorporates procedures and forms for condition assessments
- Enables calculation of State of Good Repair backlog for each asset

Using the internet tool, remotely in the field, or from VRE offices, we can...

- View and manage critical and non-critical asset inventories
- Conduct facility condition assessments
- Perform monthly safety inspections
- Conduct useful life analysis for equipment and vehicles (rolling stock)
- Perform infrastructure condition assessments at the Broad Run and Crossroads Maintenance and Storage Facilities
- “Coming Soon” – communication cabinet/equipment assessments
- “Coming Soon” – executive dashboard
- “Coming Soon” – National Transit Database (NTD) report tool