

SMART TRANSIT ASSET MANAGEMENT PLAN

October 5, 2022



Why Asset Management Plan?

Required by 49 CFR Part 625

- Final Rule adopted in July 2016

All transit providers that receive federal funds

SMART considered a Tier I agency

- Operates rail transit
- All requirements apply
- Cannot be part of a “group” plan

State of Good Repair

- Condition in which a capital asset can operate at a full level of performance – without limit or restriction



What Does it Contain?

Develop and Implement a Transit Asset Management Plan with the following elements:

- Inventory of assets
- Condition assessment of assets
- Description of support tools
- Prioritized list of investments
- State of Good Repair/ Transit Asset Management policy
- Implementation strategy
- Identification of resources
- Evaluation Plan

Scope

In Scope

- All assets over \$5,000 and a useful life of 1 year or more

Exceptions

- All equipment under \$50,000
- Freight assets

Assets – Revenue Vehicles

Diesel Multiple Units (DMUs)

- 14 – Placed in service 2015
- 4 – Placed in service 2018
- All Tier IV engines
- Average speeds 40mph with top speed of 79mph
- 85' long, 14'7" tall and 10'5" wide
- Each 2-car trains weighs about 149 tons
- Each 2-car train can carry approximately 150 seated passengers

Assets – Facilities

Administrative Facilities:

- 7 buildings

Maintenance Facilities:

- 5 buildings

Passenger Facilities:

- Pathways – 12 miles
- Platforms – 12
- Park-n-Rides - 6



Assets – Infrastructure

- Bridges – 41
- Culverts – 119
- Tunnels – 2
- Grade Crossings - 85
- Control Points - 23
- Electric Locks/ Switches - 10
- Central Instrument Locations - 103
- Track - 82.5 miles



Assets – Equipment

(\$50,000 and over)

- Non-Revenue Vehicles – 13
- Information Technology Systems – 3
- Security & Surveillance – 2
- Fare Generation (Ticket Vending Machines) – 15
- Vehicle Maintenance – 6
- Maintenance of Way - 4



Condition Assessment – Revenue Vehicles

Required Performance Metric

- % of revenue vehicles that have met or exceeded their useful life benchmark

SMART DMUs useful life is 39 years

- 14 DMUs have an average age of 7
- 4 DMUs have an average age of 4

No DMUs have met or exceeded their useful life benchmark (0%)=

Condition Assessment – Facilities

Required Performance Metric

- % of facilities rated under 3.0 on the TERM Scale
- TERM Scale:
 - 5.0 – New or like new 95% to 100% confidence in reliability
 - 4.5 - 90% to 95% confidence in reliability
 - 4.0 – 80% to 90% confidence in reliability
 - 3.5 – 70% to 80% confidence in reliability
 - 3.0 – 60% to 70% confidence in reliability
 - 2.5 – 50% to 60% confidence in reliability
 - 2.0 – 40% to 50% confidence in reliability
 - 1.5 – 30% to 40% confidence in reliability
 - 1.0 – less than 30% confidence in reliability
 - 0.0 – Not safe to use

Condition Assessment – Facilities

Administration Facilities

- Not assessed
- Leased out and not used for transit purposes
- Will be assessed in the future

Maintenance Facilities

- No facilities are rated under 3.0

Passenger Facilities

- Pathways – No facilities are rated under 3.0
- Stations – No facilities are rated under 3.0
- Park-n-Rides – No facilities are rated under 3.0

Condition Assessment – Infrastructure

Required Performance Metric

- % of track segments under performance restriction

None of SMART's track segments are under performance restriction

Condition Assessment – Equipment

Required Performance Metric

- % of non-revenue service vehicles that meet or exceed the useful life benchmark

Equipment	Number	Number that Meets or Exceeds ULB	% of Equipment that meet or Exceed ULB
Non-Revenue Vehicles	13	0	
Information Technology	3	1	
Security & Surveillance	2	0	
Revenue Generation	15	0	
Vehicle Maintenance	6	0	
Maintenance of Way	4	0	
Total Equipment	43	1	2%

Planned Investment

Based on current Capital and Operations Plan

	FY 23	FY 24	FY 25	FY 26	FY 27
Track, MOW, & Facilities	\$ 415,500	\$ 510,000	\$ 560,000	\$ 560,000	\$ 3,050,000
Non-Revenue Vehicles	\$ 445,000	\$ 378,000	\$ 310,000	\$ 454,000	\$ 185,000
Equipment & Machinery	\$ 251,427	\$ 12,800	\$ -	\$ 96,950	\$ 36,250
DMUs	\$ 670,000	\$ 1,430,000	\$ 880,000	\$ 1,550,000	\$ 900,000
Bridges	\$ 759,036	\$ 1,994,192	\$ 1,549,188	\$ 4,114,749	\$ 2,409,000
Safety & Security	\$ 454,500	\$ 632,000	\$ 606,000	\$ 151,500	\$ -
Train Control	\$ -	\$ -	\$ 2,292,000	\$ 2,292,000	\$ -
Total	\$ 2,995,463	\$ 4,956,992	\$ 6,197,188	\$ 9,219,199	\$ 6,580,250

Questions?

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