



Transit Asset Management

Delivering a Compliant Transit Asset Management Plan

Andrew C. Choi

November 9th, 2017

Transit Service, Fleet and Infrastructure



- 100+ square-mile service area
- Service throughout 13 surrounding cities
- 35 fixed routes
- Fleet of 250 buses (40' and 60')
- 10 ADA-compliant vehicles
- 10 Battery-Electric Buses (BEB)
- Four water vessels
 - Two catamarans and two boats

TAM Compliance

- Review
- Evaluate
- Gather
- Analyze
- Produce

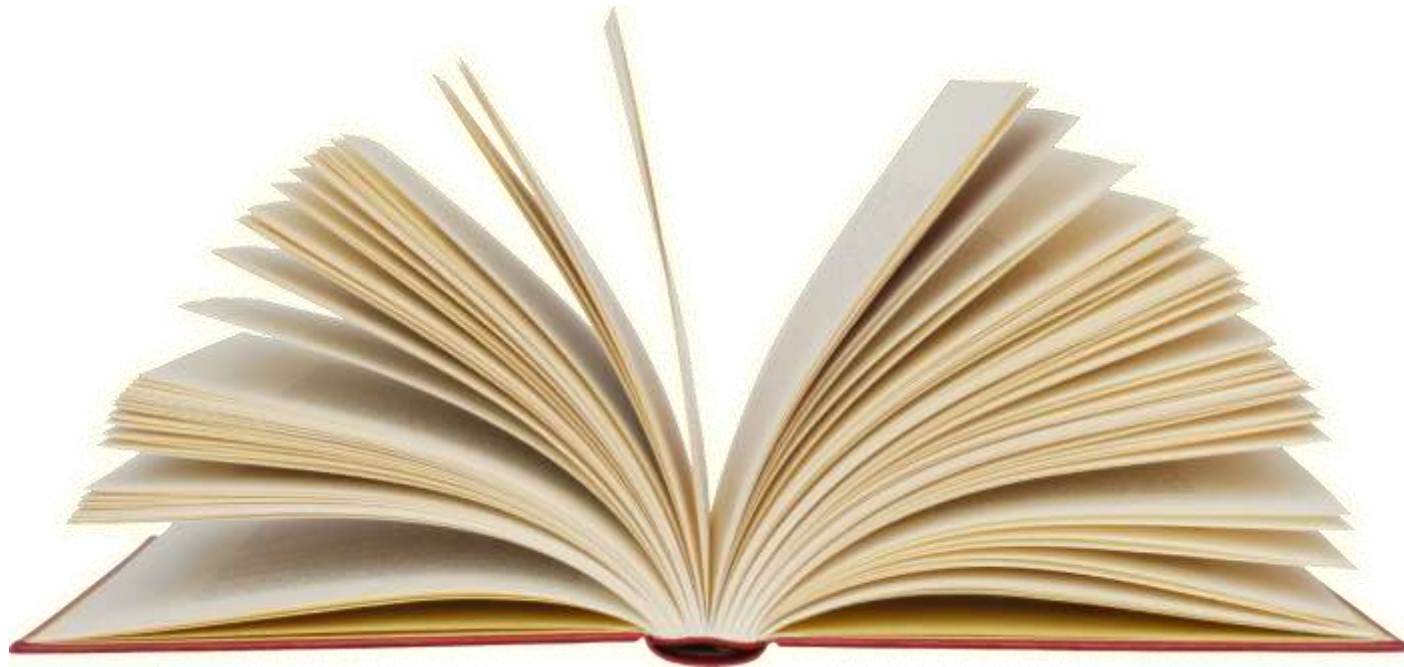


Review FTA Documents

- Fact Sheets
 - [Final Rule Fact Sheet](#)
 - [TAM Performance Measures Fact Sheet](#)
 - [Default Useful Life Benchmark \(ULB\) Cheat Sheet](#)
- Webinars
 - [TAM Final Rule](#)
 - [NTD Asset Inventory](#)
 - [Facility Condition Assessment & Guideway Performance Restrictions](#)

Review Add'l FTA Documents

- Reading Material
 - [Transit Asset Management Guide](#)
 - [Facility Performance Measure Guidebook](#)
 - [Infrastructure Performance Measure Guidebook](#)



Evaluate, Gather, and Analyze

- Evaluate existing policies
- Gathered data and analyze



VISION

MISSION

VALUES

ORGANIZATIONAL GOALS
KEY PERFORMANCE INDICATORS

LEADERSHIP COMPETENCIES



Produce

State of Good Repair

The condition in which a capital asset is able to operate at a **full level of performance**. This means the asset:

1. Is able to perform its designed function,
2. Does not pose a known unacceptable safety risk, and
3. Its **lifecycle investments** have been met or recovered.

Reliability and Safety

Reliability	Scale						
Bus		1	2	3	4	5 Grand Total	
+ Diesel		15	9	5	8	12	49
+ Hybrid		4	3	11	16	55	89
+ CNG		67	7	4	4	3	85
Grand Total		86	19	20	28	70	223

Scale	Min	Max
1	6,000	100,000
2	5,000	5,999
3	4,000	4,999
4	3,000	3,999
5	-	2,999

Safety	Scale						
Bus		1	2	3	4	5 Grand Total	
+ Diesel		2	4	10	12	21	49
+ Hybrid		13	18	22	23	13	89
+ CNG		21	29	26	7	2	85
Grand Total		36	51	58	42	36	223

Scale	Min	Max
1	0	1
2	2	3
3	4	5
4	6	7
5	8	100

Useful Life (Lifecycle Investment)

Fleet Count	Age (y)									Grand Total
Bus	1	3	4	7	9	11	12	14	16	Grand Total
Diesel								39	10	49
2000S									10	10
2200S								39		39
Hybrid				25	15	22	27			89
2400S							27			27
2500S					22					22
2700S					15					15
2900S				25						25
CNG	21	31	33							85
1200S			33							33
1300S		31								31
1500S	8									8
1500SA	13									13
Grand Total	21	31	33	25	15	22	27	39	10	223

Weight and Priority

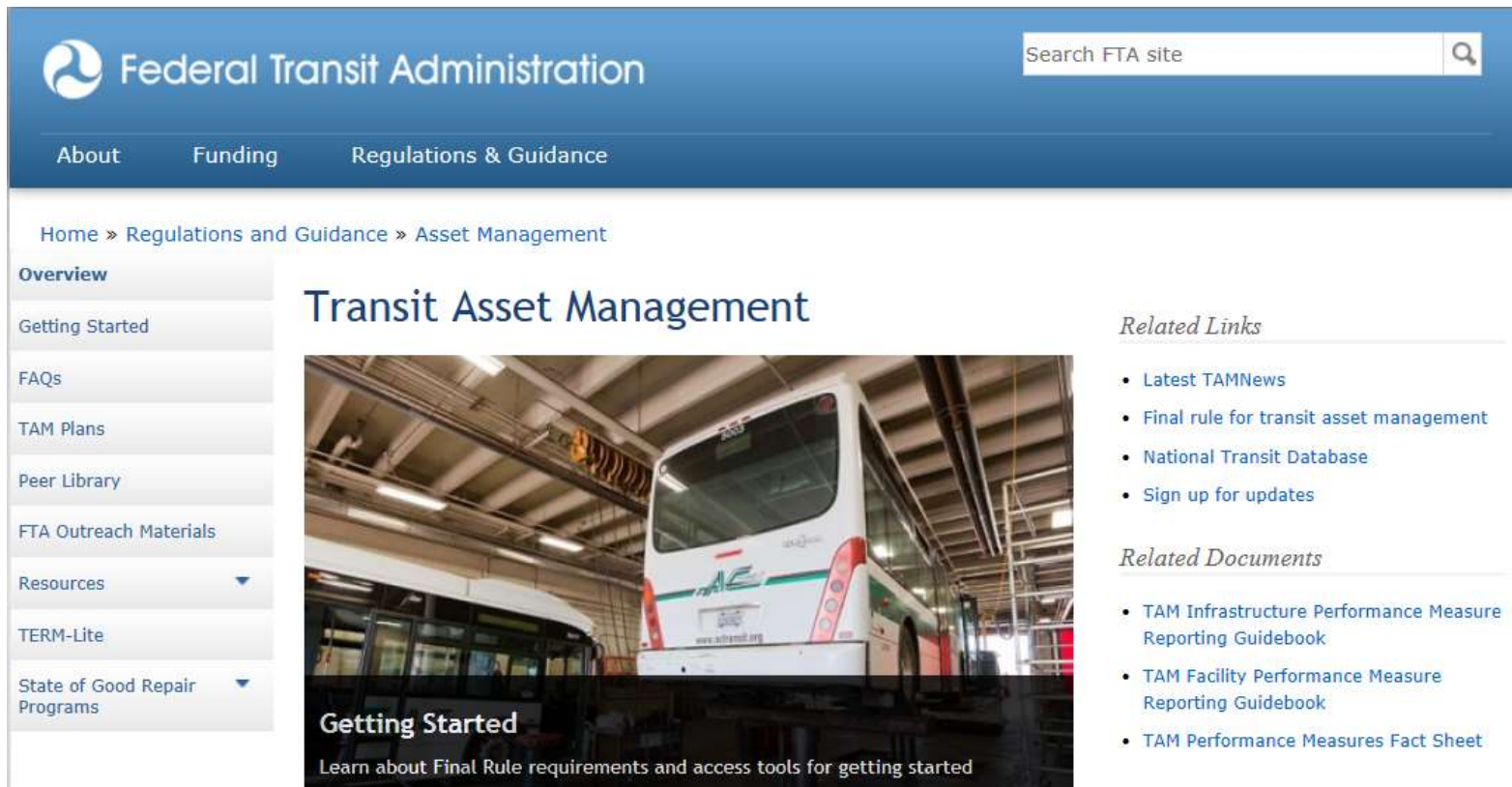
Rating	Weight
Safety	3
Reliability	2
ULB	1

Priority Group	Min	Max	Description
High (35-50)	35	50	Vehicles to be replaces within 1 yr
Med (30-34)	30	34	Vehicles to be replaced within 3 yrs
Low (0-29)	0	29	Vehicles to be replaces 5 + yrs

Priority	Diesel		Diesel Total	Hybrid				Hybrid Total	CNG				CNG Total	Grand Total
Type	2000S	2200S		2400S	2500S	2700S	2900S		1200S	1300S	1500S	1500SA		
High (35-50)	6	10	16	7	2			9						25
41	2		2											2
39	1	6	7											7
38	1		1											1
37	1	3	4	7				7						11
36		1	1		2			2						3
35	1		1											1
Med (30-34)	4	12	16	13	10	3	1	27						43
34	1	2	3	7		1		8						11
33	3	3	6	1	4			5						11
32						1	1	2						2
31		4	4	5	3	1		9						13
30		3	3		3			3						6
Low (0-29)		17	17	7	10	12	24	53	33	31	8	13	85	155
20		17	17	7	9	10	19	45	3	2			5	67
10					1	2	5	8	30	29	8	13	80	88
Grand Total	10	39	49	27	22	15	25	89	33	31	8	13	85	223

Helpful Links

- [FTA Getting Started](#)
- [TAM Peer Library](#)
- [FTA Outreach Materials](#)



The screenshot shows the Federal Transit Administration website. The header includes the FTA logo and name, a search bar, and navigation links for About, Funding, and Regulations & Guidance. The main content area is titled "Transit Asset Management" and features a large image of a white bus in a garage. Below the image is a "Getting Started" section with a sub-header and a brief description. To the left is a sidebar with a navigation menu, and to the right are sections for "Related Links" and "Related Documents".

Federal Transit Administration

Search FTA site

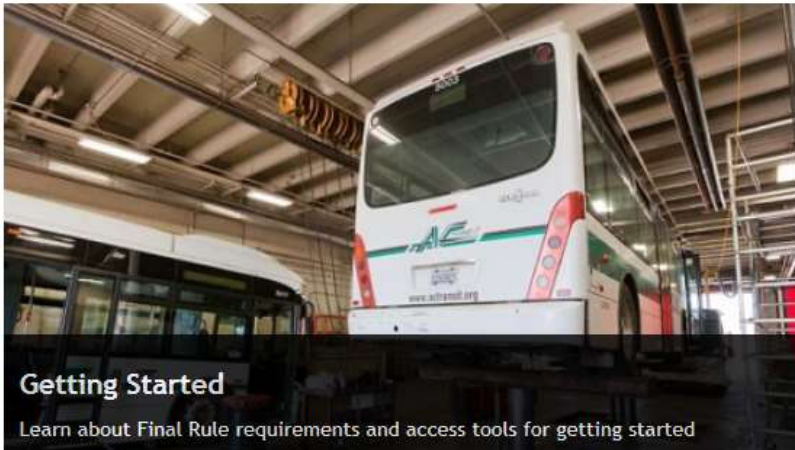
About Funding Regulations & Guidance

Home » Regulations and Guidance » Asset Management

Overview

- Getting Started
- FAQs
- TAM Plans
- Peer Library
- FTA Outreach Materials
- Resources
- TERM-Lite
- State of Good Repair Programs

Transit Asset Management



Getting Started

Learn about Final Rule requirements and access tools for getting started

Related Links

- Latest TAMNews
- Final rule for transit asset management
- National Transit Database
- Sign up for updates

Related Documents

- TAM Infrastructure Performance Measure Reporting Guidebook
- TAM Facility Performance Measure Reporting Guidebook
- TAM Performance Measures Fact Sheet

Thank you!

