



EQUIPMENT REPLACEMENT AND FACILITY UPDATE PLAN



TIRE REPLACEMENT PLAN

TIRE REPLACEMENT PLAN CONSIDERATIONS PER NFPA AND DOT

An automotive Fire Apparatus fleet must be maintained in the highest state of readiness in order to immediately respond to an emergency. The provision of a reliable firefighting apparatus is one of the most important capital assets of a local government.

NFPA 1911 Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Fire Apparatus, which is the 2017 Edition.

- 8.3.3* Tires shall be inspected for damage and shall be inflated to the tire manufacturer’s recommended pressure.
- 8.3.4* The tire load rating shall be checked to verify that it meets or exceeds the GAWR (gross axle weight rating).
- 8.3.5 The tire speed rating shall be checked to verify that it meets or exceeds the maximum top speed of the apparatus.
- 8.3.6* Tires shall be replaced at least every 7 years or more frequently when the tread wear exceeds state or federal standards as determined by measuring with a tread depth gauge.

Replacement considerations of apparatus should include several factors. These factors include but are not limited to:

- Wear and tear on the tires
- Mileage and services
- Road conditions
- Age of tire

APPARATUS TIRE REPLACEMENT SCHEDULE

Table 1 Apparatus Tire Replacement Schedule per Type	
Apparatus	Life Span of Tire
Type 1 Engine	7 years
Type 1 Aerial	7 years
Type 3 Engine	3 to 7 years
Type 6 Engine	2 to 5 years
Tender	7 years
Ambulance	2 to 5 years
Chief Vehicle	2 to 3 years
Marshal Vehicle	2 to 3 years
QRV	2 to 3 years
Staff Vehicle	2 to 3 years



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Table 2
GLFPD Actual Apparatus Tire Replacement Schedule

Apparatus	Replacement Year
Engine 361	2026 – 2033 – 2040 – 2047
Engine 381	2023 – 2030 – 2037 - 2044
Ladder 362	2027 – 2034 – 2041 – 2048
Engine 363	2022 – 2025 – 2028 – 2031
Engine 383	2023 – 2028 – 2033 – 2038
Engine 366	2022 – 2025 – 2028 – 2031
Engine 376	2023 – 2028 – 2033 – 2038
Tender 364	2022 – 2029 – 2038 – 2045
Tender 384	2023 – 2030 – 2037 – 2044
Medic 360	2024 – 2027 – 2030 – 2033
Medic 370	Selling
R365	2022 – 2025 – 2028 – 2031
C351	2022 – 2025 – 2028 – 2031
Marshal 353	2022 – 2025 – 2028 – 2031