

Reducing red light delays and improving transit reliability.





TRAFFIC SIGNAL PREEMPTION FOR EMERGENCY VEHICLES

August 2022

Legend:

- Wireless Preempt Only (486 Signals)
- Fire Station Preempt Only (9 signals)
- Fire Station & Wireless Preempt (4 Signals)
- **SFFD Fire Stations**
- Fire Station with Equipped Vehicles
- Fire Station without Equipped Vehicles

М SFMTA



SFMTA Board Workshop **February 7, 2023**

There are 515 intersections equipped with emergency preemption equipment for fire department vehicles. The same equipment used for TSP can also provide emergency preemption, which reduce fire truck response times by holding traffic signals green for approaching fire trucks.

HOW IT WORKS:

TSP reduces the amount of time Muni vehicles spend at red lights by extending the green light when a bus is detected approaching the intersection.

Wireless radio – connects traffic signals to the City network to allow for remote monitoring

GPS Receiver – receives the request from the bus and passes it on to the traffic controller

TPS Emitter – Sends the location of the bus to the intersection receiver to request TSP





Traffic Signal Controller – Controls the green, yellow and red lights. Receives the request for TSP and modifies the signal timing, when possible, to reduce bus delays.



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