

Pedestrian Countdown Signals in San Francisco

EMSC Meeting, 6/27/2018

Overview

- Which intersections have pedestrian countdown signals (PCS)?
- Terminology
- Push buttons
- Pedestrian signal timing and safety





The State of PCS in San Francisco

All Traffic Signals (1,243)





Pedestrian Countdown Signal Terminology

- Actuation
 - Pedestrian must push button to receive WALK signal
- Recall
 - Traffic signal automatically brings up WALK signal every cycle. No action from pedestrian necessary.



Pedestrian Countdown Signal Actuation

- General SFMTA policy is not to use pedestrian actuation
- Following exceptions apply
 - State Route
 - Transit priority corridor
 - Opening closed crosswalks
 - Low volume cross streets
 - Mid-block signals



Which signals have pedestrian actuation?

All Traffic Signals (1,243)





Types of Pedestrian Push Buttons



Actuated Push Button



APS Push Button



Types of Pedestrian Push Buttons

- Actuated push button
 - Must be pushed to receive WALK signal
- Accessible Pedestrian Signal (APS) push button
 - Vibro-tactile and audible message
 - Can be used for both actuated and recall crossings
 - SFMTA policy is to install APS at all new and upgraded traffic signals, as well as per public request at existing signals



Types of Pedestrian Push Buttons



Actuated Signal/APS

START CROSSING R Watch For Vehicles DON'T START Finish Crossing If Started TIME REMAINING To Finish Crossing DON'T CROSS

APS



APS Pilot



Pedestrian Signal Timing

- Leading Pedestrian Intervals (LPI)
- How pedestrian signals are timed in San Francisco



Leading Pedestrian Intervals (LPI)

- Displays a brief advance WALK indication before parallel traffic receives a green
- Helps pedestrians establish themselves in crosswalk
- Can reduce conflicts between pedestrians and turning vehicles
- San Francisco has developed an LPI policy that encourages engineers to install LPI's at most signalized intersections





How Pedestrian Signals are Timed in San Francisco

- WALK interval
 - 4 second minimum
- Pedestrian clearance interval
 - Start of countdown to cross street green
 - State requires walk speed of 3.5 feet per second
 - San Francisco recently adopted a slower speed of 3.0 feet per second
- Total pedestrian crossing time
 - Start of WALK through cross street green
 - State requires walk speed of 3.0 feet per second
 - San Francisco uses a walk speed of 2.5 feet per second, adopted in 2000



Pedestrian Countdown Signal Timing





Thank you

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