Los Angeles County Metropolitan Transportation Authority One Gateway Plaza 3rd Floor Board Room Los Angeles, CA



**Board Report** 

File #: 2015-1735, File Type: Policy

Agenda Number: 23.

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#### REVISED AD HOC CONGESTION REDUCTION COMMITTEE JANUARY 20, 2016

# SUBJECT: METRO EXPRESSLANES TOLL POLICY

ACTION: APPROVE RECOMMENDATION

#### RECOMMENDATION

ADOPT the **ExpressLanes Toll Policy** as shown in Attachment A.

## <u>ISSUE</u>

One of the primary goals of the ExpressLanes program is to provide a safe, reliable, predictable commute for customers of the ExpressLanes. In 2015, during the morning peak period, the northbound I-110 and westbound I-10 ExpressLanes have seen increasing congestion jeopardizing our ability to meet this goal. The ExpressLanes have regularly gone into "HOV Only" mode, whereby they are shut down to toll paying customers, with only those qualifying non-toll paying HOV commuters allowed into the system. <u>The situation is further exacerbated by the fact that zero/low emission vehicles are allowed to remain in the ExpressLanes during "HOV Only" periods contributing to additional congestion.</u>

The "HOV Only" operating mode signals that the ExpressLanes are becoming too congested and conditions are deteriorating below established performance requirements. Demand has exceeded capacity and the current toll maximums do not motivate enough toll paying customers from entering the ExpressLanes. The ExpressLanes operate in the "HOV Only" mode until traffic densities (traffic volume/average travel speed) improve and capacity can be restored. Once capacity is restored, toll paying customers are allowed back into the ExpressLanes.

The policy framework in Attachment A updates policies to operate, maintain and administer the ExpressLanes to ensure program goals are met. The policies of particular importance to attaining the program goals are: Performance Requirements; and Toll Rate Setting.

## DISCUSSION

## Performance Requirements

Section 166 of Title 23 Code of Federal Regulations, requires that the ExpressLanes operate at 45 miles per hour (or traffic density of 48), 90 percent of the time during peak periods. To ensure compliance with this requirement, staff has outlined mitigation strategies to be deployed should conditions degrade. Allowing increases in toll prices as described below is one strategy. Another strategy that could be implemented in conjunction with pricing, and with concurrence from Caltrans, would be to extend the peak period if conditions outlined in the policy are met. For example congestion is highest on the I-110 during the morning peak period, a change in the peak period to allow peak pricing could be beneficial to smoothing out the demand and extending it over a longer period of time.

Ultimately there is a finite amount of capacity available. Therefore, it is important for staff to have the tools available to manage this capacity to ensure the ExpressLanes are meeting their operational and program goals.

## Toll Rate Setting

In July 2009 the Board adopted toll rates for the I-10 and I-110 ExpressLanes. The current minimum toll per mile during off-peak and peak periods is \$0.25 and \$0.35 respectively with the maximum toll per mile set at \$1.40. Approval of this action will allow an increase in the maximum by \$0.10 increments when warranted while reducing the minimum toll to \$0.10 per mile during off-peak hours.

At the time the toll rates were adopted the traffic and tolling models projected, that the probability of people being willing to pay \$1.40 per mile was approximately 1% and that the toll rate would help to balance supply and demand, as both of these corridors are high demand corridors for vanpools, transit and carpools. What we have found over the past year is that the current maximum price of \$1.40 per mile does not appear to be enough of a disincentive for toll paying customers to choose not to enter the ExpressLanes. This impacts the performance of the lanes by increasing congestion and slowing speeds to the point where the lanes revert to "HOV Only" mode and thus, toll paying customers are not allowed to enter the lanes until the speeds pick up and performance improves.

In 2015, the ExpressLanes have been in "HOV Only" mode for 13,038 minutes (217.3 hours) with 11,584 of those minutes on the I-110 and 1,454 minutes on the I-10 which reflects over 10 percent of the AM peak period. The majority of these occurrences are at toll segments 3 (108<sup>th</sup> Street to Gage Avenue) and 4 (Slauson Avenue to 39<sup>th</sup> Street) on the northbound I-110, and at segment 4 (I-710 and Garvey Avenue and exits for the I-10 general purpose lanes) on the westbound I-10. The 13,038 total "HOV Only" minutes reflects a 154% increase from 2014.

In addition, traffic volumes on the I-110 and I-10 ExpressLanes continue to grow. Since 2013 there has been an average annual trip growth of 22% on the ExpressLanes with an 18% increase on I-110 and a 25% increase on I-10. In 2015, customers on the I-110 paid an average toll of \$2.55 per trip while those on the I-10 paid \$2.75. The percentage of trips on the I-110 that are charged the maximum fare of \$15.75 is 0.16% of all trips taken, and on the I-10 those who paid the maximum fare of \$15.55 constitutes 0.15% of all trips.

Given the increase in traffic volumes and "HOV Only" minutes, the current maximum price of \$1.40 per mile does not appear to be enough of a disincentive for toll paying customers to choose not to enter the ExpressLanes. Because of the increase in volumes and the "HOV Only" minutes staff is

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recommending a methodology as outlined in Attachment A, for an automatic increase of \$0.10 increment to the maximum rate per mile as traffic densities increase per segment on the ExpressLanes to ensure continued reliability of the system and to minimize "HOV Only" occurrences. The incremental increase to the maximum toll rate per segment would only impact those segments that consistently exceed the density threshold and go into "HOV Only" mode. Based on the quarterly review that is part of the rate setting methodology, and the 30-day notification to customers, the maximum toll rate per segment would increase no more than \$0.30 in a calendar year.

The rate setting methodology is a tool that will allow staff to better manage congestion in the ExpressLanes and improve the customer experience by reducing the "HOV Only" minutes. This automatic rate increase is an industry best practice that other experienced tolling agencies such as OCTA (91 ExpressLanes) and SANDAG (I-15 ExpressLanes) utilize to increase their toll pricing when certain conditions are met.

If the Board were to adopt this rate setting policy staff would notify customers 30 days in advance of any price change through the ExpressLanes website, send correspondence via email or mail depending upon customer preferences, and would provide notifications in various print and electronic media outlets. Staff would also add a historic rate table on the ExpressLanes website and provide monthly updates to provide customers with historic time of day pricing for their reference.

Finally, for congestion pricing to be effective, the price needs to be at a rate that is great enough during high congestion times to be a disincentive to entering as a toll-paying customer and an incentive for people to change behavior - travel later/earlier, rideshare or take transit. Based upon staff's experience to date, the evidence suggests that the current maximum rate is no longer high enough to curb demand in the morning peak period. Given the dynamic nature of the algorithm, pricing will remain the same unless demand requires the additional \$0.10 increase.

## **DETERMINATION OF SAFETY IMPACT**

This Board action will not have an impact on established safety standards.

## FINANCIAL IMPACT

This policy would have no impact to the adopted FY16 budget. If this action leads to an increase in revenue, the revenues will be subject to Board adopted guidelines.

## ALTERNATIVES CONSIDERED

The request to convert from a constrained toll rate to a market based toll rate comes after staff has exhausted all other measures to reduce the congestion and the recurrence of "HOV Only" in the ExpressLanes. During 2015 staff employed a number of measures to reduce the congestion and the "HOV Only" minutes to improve system performance including toll pricing algorithm adjustments to ensure all toll segments were working together as a system and more predictive of traffic volumes in previous segments; removing the price caps that were placed on each freeway during the peak hours to allow the algorithm to price based on actual congestion; providing more CHP enforcement officers during peak hours; and revising the business rules to reduce the number of violators.

The Board could choose not to approve the market based policy and the \$0.10 incremental increase in the maximum toll rates but that is not recommended as ExpressLanes congestion is increasing thereby limiting our ability to meet system operational goals. This policy provides the requested guidance to enable staff to make adjustments as needed to improve the performance of the ExpressLanes consistent with prior Board directives.

#### NEXT STEPS

Upon Board approval, staff will take the necessary steps to notify customers of the change and implement the new policies. Staff will periodically update or modify the policies for Board consideration to assure optimal operations of the ExpressLanes and will provide an annual update to the Board regarding any price changes.

## ATTACHMENTS

Attachment A - ExpressLanes Toll Policy

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