

NOTICE OF MEETING

Des Moines Area Metropolitan Planning Organization (MPO)
Transportation Technical Committee (TTC)
Engineering Subcommittee
1:30 p.m., Monday, July 18, 2016
Des Moines Area MPO Burnham Conference Room

TENTATIVE AGENDA

1. **Call To Order**
2. **VOTE: Approval of Agenda**
3. **VOTE: Approval of Meeting Minutes**..... Page 2
 - Approve the June 20, 2016, meeting minutes.
4. **REPORT: Commuting and Congestion Analysis Report**..... Page 6
 - Report on commuting and congestion in Greater Des Moines in 2015.
5. **REPORT: Iowa Clean Air Attainment Program** Page 7
 - Report and discussion regarding the Iowa Clean Air Attainment Program and potential Electric Vehicle Infrastructure projects.
6. **REPORT: Updated Crash Analysis Report** Page 8
 - Report on the updated crash data analysis for the MPO Planning Area.
7. **Other Non-Action Items of Interest to the Committee**
8. **Next Meeting Date**
 - 1:30 p.m., Monday, August 15, 2016, Des Moines Area MPO Office.
9. **Adjournment**

The established protocol for minutes of this meeting will be to list all attendees, and with each item on which a vote is conducted in the ordinary course in order to take formal action, those voting nay or abstaining will be identified by name. Any member who is absent from the meeting for any period of time during which a vote of the body is taken, is expected to notify the recording secretary at the conclusion of the meeting so that the absence can be duly noted in the minutes. Roll Call votes will be taken as required by law or upon the request of any member that is approved by the chair, and the vote of each member for or against the proposition, or abstention, will be incorporated in the minutes or recorded on a separate sheet attached to the minutes.

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July 2016
Item No. 3

ISSUE: Approval of Meeting Minutes

VOTE: Consider approval of the June 20, 2016, Engineering Subcommittee meeting minutes.

BACKGROUND:

The minutes of the June 20, 2016, Engineering Subcommittee meeting are included on the following pages.

RECOMMENDATION:

Approve the minutes of the June 20, 2016, Engineering Subcommittee meeting.

STAFF CONTACT:

Zach Young, zyoung@dmampo.org
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MEETING MINUTES

**Des Moines Area Metropolitan Planning Organization (MPO)
Transportation Technical Committee Engineering Subcommittee
1:30 p.m., Monday, June 20, 2016
Des Moines Area MPO Meeting Mead Conference Room
Des Moines, Iowa**

Members Present:

Jon Hanson, City of Altoona
Jeff May, City of Clive
Jennifer McCoy, City of Des Moines
Dave Cubit, City of Johnston
Kurt Bailey, Polk County
Joe Cory, City of West Des Moines

Members Absent:

Dave McKay, City of Urbandale

Staff Present:

Todd Ashby, Executive Director
Gunnar Olson, Communications Manager
Marcus Coenen, Associate Transportation Planner

1. Call to Order

Dave Cubit called the meeting to order at 1:35 p.m.

2. Approval of Agenda

Subcommittee members voted to approve the meeting agenda.

3. Approval of Meeting Minutes

Subcommittee members voted to approve the April 18, 2016, meeting minutes.

4. Travel Demand Model Validation and Analysis Appendix

Staff provided an overview of the proposed Travel Demand Model Validation and Analysis appendix to add to *Mobilizing Tomorrow*.

Kurt Bailey noted that there is not much difference between the build and no-build scenarios regarding level of service. Staff acknowledge the truth in Mr. Bailey's statement. Staff noted that while level of service stays relatively the same, vehicle miles traveled increase in some cases.

Mr. Cubit asked how the analysis factors in population growth. Staff noted that population growth was estimated for 2020 and this estimate was held constant between the build and no-build scenarios.

Staff noted the final draft of the appendix would be voted on at the Policy Committee meeting in August 2016.

5. Iowa Clean Air Attainment Program

Staff noted that Stephanie Weisenbach with the Iowa Clean Cities Coalition approach staff to discuss how Iowa Clean Air Attainment Program funds might be used to support electric vehicle charging stations in key locations in the region.

Ms. Weisenbach wanted the committee to discuss locations in the region that would make sense for stations and discuss the possibility of Iowa Economic Development Authority (IEDA) being a lead applicant and creating a mini-grant program.

Ms. McCoy stated that in her opinion it would be better for the MPO and IEDA to encourage and support applications from local governments. Staff noted that the investment would be to study locations and that the actual installation would happen at the local level.

Mr. Bailey asked if ICAAP would fund the study. Staff confirmed that the idea is to apply for ICAAP funding for the mini-grant program.

Discussion ensued regarding what impact electric charging stations would have on improving air quality.

Ms. McCoy noted that Des Moines has been applying for ICAAP for signal timing on corridors and this is the Cities priority over using that funding stream for electric charging stations.

Staff agreed that they would bring back more information at the July meeting on Iowa Clean Cities Coalition's intent with pursuing ICAAP funding.

6. Qualified Energy Conservation Bonds

Staff informed the committee about the Qualified Energy Conservation Bonds as an available revenue source. Staff noted that to be eligible a city has to be over 100,000 people.

Staff provided a packet of information to Ms. McCoy to take back to Des Moines for their review.

7. Other Non-Action Items of Interest to the Committee

Ms. McCoy shared her concerns regarding the Crash Report that was developed by the MPO and presented at the June Technical Committee meeting. Ms. McCoy noted that some of the best practices contradict the FHWA standards and puts the City in a difficult position.

Ms. McCoy noted there are lots of other things that improve safety including signal timing, adding pedestrian count-down timers, adding flashing yellow arrows, roadway widening to lesson congestion, improved roadway lighting, installation of turn lanes. Ms. McCoy requested that the last page either be expanded to include a wider variety of

tools or gets removed because the crash information is the most important and the piece on the back is more subjective.

Jeff May asked how the safety measures on the last page would impact level of service. Mr. May went on to state that he believed it would decrease level of service.

Discussion ensued regarding the last page of the document outlining safety measures, and how to address Ms. McCoy's concerns.

Staff agreed to make some modifications to the last page of the crash report.

Ms. McCoy also noted that she has concerns about the environmental justice section stating that it doesn't take into account the higher densities, higher traffic volumes, and greater number of pedestrians and transit riders. Ms. McCoy went on to state that some language should be added to address this concern.

Discussion ensued regard Ms. McCoy's comments on the environmental justice section.

Staff agreed to bring the Crash Report back at the July meeting.

8. Next Meeting Date

1:30 p.m., Monday, July 18, 2016

9. Adjournment

The meeting adjourned at 2:40 p.m.

July 2016
Item No. 4

ISSUE: Commuting and Congestion Analysis Report

REPORT: Report on commuting and congestion in Greater Des Moines in 2015.

BACKGROUND:

Mobilizing Tomorrow set goals to reduce the commute share of single-occupancy vehicles, increase the commute share of alternative modes, and maintain roadway congestion above 90 percent. MPO staff reviewed American Community Survey data for Greater Des Moines to determine the estimated mode share based on the 2010-2014 5-year averages.

Utilizing the methodology established in the Congestion Management Process, MPO staff has analyzed the travel time and planning time of major roadways to identify congestion based on data collected in 2015. As with the Congestion Management Process, staff examined INRIX data throughout Greater Des Moines, primarily along collectors, arterials, and the Interstate System. INRIX collects real-time traffic speed data using cellular technology and provides various tools to analyze corridor specific traffic.

[The 2016 Commuting and Congestion Analysis Report is available on the MPO website \(click to access\).](#)

RECOMMENDATION:

None. Report and discussion only.

STAFF CONTACT:

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July 2016
Item No. 5

ISSUE: Iowa Clean Air Attainment Program

REPORT: Discussion regarding the Iowa Clean Air Attainment Program and potential Electric Vehicle Infrastructure projects.

BACKGROUND:

Modeled after the federal Congestion Mitigation and Air Quality Improvement Program, the Iowa Department of Transportation created the Iowa's Clean Air Attainment Program (ICAAP) in 1994. The purpose of ICAAP is to provide funds to transportation projects that maintain the national ambient air quality standards outlined in the 1990 Clean Air Act Amendments. Each year, the Iowa DOT awards ICAAP funds to projects with the highest potential for reducing transportation-related congestion and air pollution.

Stephanie Weisenbach with Iowa Clean Cities Coalition approached the MPO staff to discuss the Iowa Clean Air Attainment program and potential opportunities to use this funding for electric vehicle charging stations in the region. Staff requests that committee members consider potential electric vehicles charging station projects on a community and regional level, and come prepared to discuss at the July 18, 2016, meeting.

RECOMMENDATION:

None. Report and discussion only.

STAFF CONTACT:

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July 2016
Item No. 6

ISSUE: Crash Analysis Report

REPORT: Report on crash data analysis for the MPO Planning Area.

BACKGROUND:

The US Department of Transportation recently released guidance on performance measures for safety including the number and rate of fatalities and serious injuries, and the number of fatalities and serious injuries for pedestrians and bicyclists. The performance measure guidance indicates a rolling 5-year average as the timeframe for estimating crash trends.

MPO staff has reviewed 2006-2015 crash data for all public roads in Dallas, Madison, Polk, and Warren Counties. Staff analyzed crashes using GIS data provided by the Iowa Department of Transportation (DOT). Crash data can help identify roadway types that tend to be most at risk. Crash-based metrics, such as number of fatalities/major injuries and fatality/major injury rates, have become common performance measures in transportation planning. In addition to vehicle crash data, staff analyzed bicycle and pedestrian crash data for the region.

The Engineering Subcommittee review the Crash Analysis Report at the June 20, 2016, meeting. The subcommittee requested that staff make edits to the last page of the report that discusses design related solutions to address safety.

Staff will provide the updated 2016 Crash Analysis Report prior to the meeting.

RECOMMENDATION:

None. Report and discussion only.

STAFF CONTACT:

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