

March 2, 2012

**MEMORANDUM**

To: TRAC Members

From: Bob Felsburg and Steven Marfitano

Subject: Performance Measures Review for Upcoming Meeting – March 9, 2012

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Attached you will find the performance measure tables for the four categories already discussed at the January and February meetings along with the final four categories to be discussed at our next meeting.

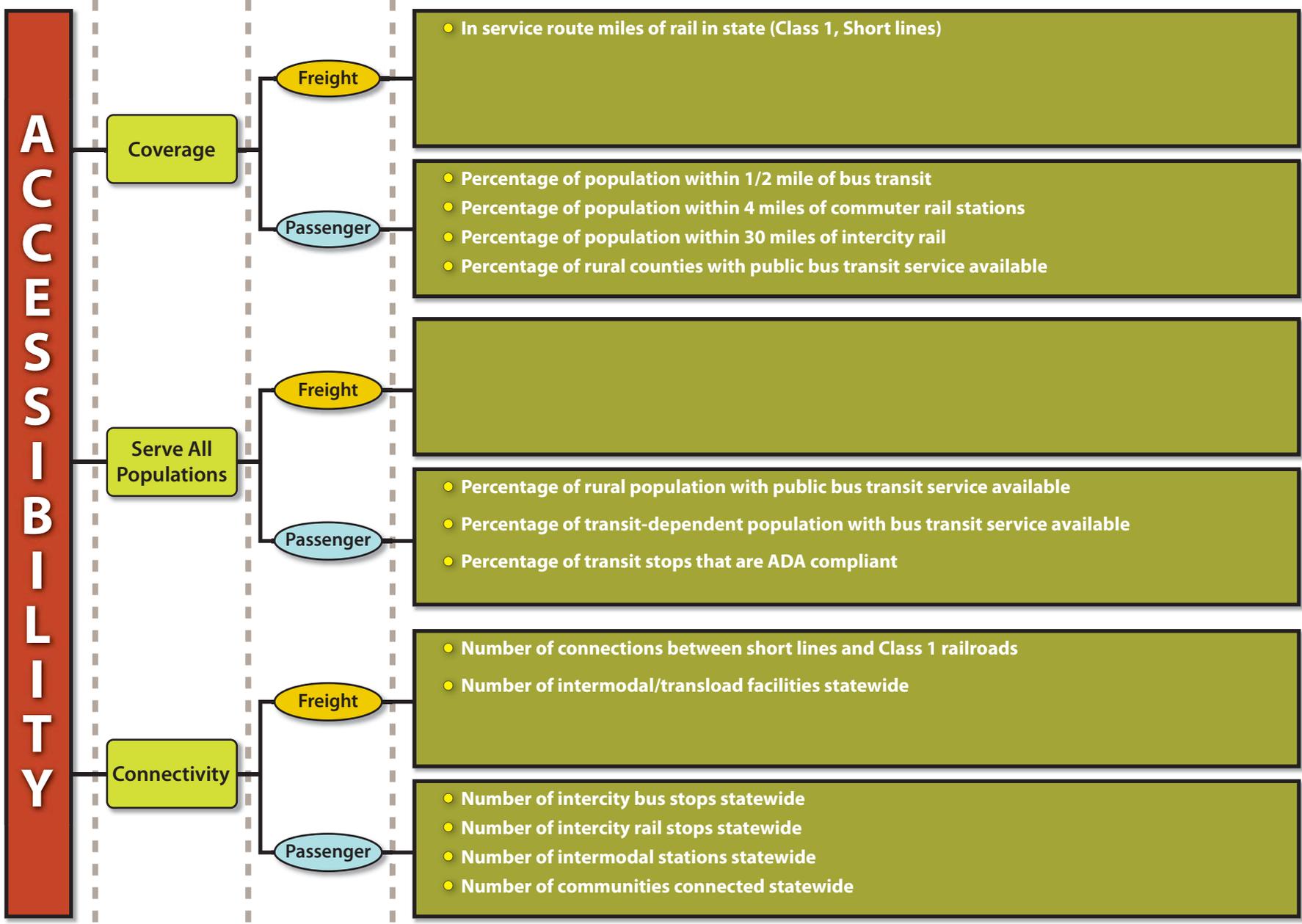
Please review the attached handouts and be prepared to discuss your recommendations for additions, deletions, and changes to the candidate performance measures for the final four categories at the March 9, 2012 TRAC Meeting.

**CATEGORY**

**VALUE**

**MODE**

**CANDIDATE PERFORMANCE MEASURES**



**DRAFT**

**CATEGORY**

**VALUE**

**MODE**

**CANDIDATE PERFORMANCE MEASURES**

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Quality of Service

Freight

- Percentage of rail with 286,000 pound capacity

Passenger

- Frequency – Number of bus transit trips daily (on a typical weekday, Saturday, Sunday)
- Frequency – Number of passenger rail trips daily (on a typical weekday, Saturday, Sunday)
- Frequency – Number of bus transit service hours daily (on a typical weekday, Saturday, Sunday)
- Frequency - Number of bus transit service days annually
- Connectivity – Number of timed-transfer stops between intercity bus transit and local bus transit service
- Connectivity – Number of timed-transfer stops between intercity passenger rail and local bus transit service
- Reliability – Percentage of bus transit trips on time
- Reliability – Percentage of passenger rail trips on time

System Use

Freight

- Total tonnage transported by rail (originating in Colorado, terminating in Colorado, intrastate (within state), overhead (traveling through state))

Passenger

- Total bus transit ridership in state (urban, rural)
- Total passenger rail ridership in state (urban, rural)

Mode Share

Freight

- Percentage of total tonnage transported by rail

Passenger

- Passenger-miles on bus (percentage or number)
- Passenger-miles on rail (percentage or number)

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**CATEGORY**

**VALUE**

**MODE**

**CANDIDATE PERFORMANCE MEASURES**

**S  
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Incidents

Freight

- Number of incidents (per Year, Trip, ton-mile) (by severity)
- Number of incidents at at-grade rail crossings
- Number of incidents involving hazardous materials
- Number of trespassing incidents

Passenger

- Number of incidents (per VMT, Year, Trip 1,000 passengers) (by severity)
- Number of incidents at at-grade rail crossings

Facility

Freight

- Number of railroad/highway at-grade crossings
- Number of railroad/highway grade separated crossings
- Number of railroad/pedestrian at-grade crossings
- Percentage of at-grade crossings with active warning protection

Passenger

- Percentage of rolling stock with safety features (driver cam, passenger cams, equipment)
- Percentage of at-grade crossings with active warning protection

Security

Freight

- Percentage of rail yards with (lighting, security staff, CCTV)

Passenger

- Percentage of transit bus stops/PNR/transfer points/stations with (lighting, security staff, CCTV)
- Percentage of passenger rail stops/PNR/transfer points/stations with (lighting, security staff, CCTV)
- Percentage of facilities that meet FTA security guidelines

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CATEGORY

VALUE

MODE

CANDIDATE PERFORMANCE MEASURES

ECONOMIC DEVELOPMENT

Employment

Freight

Passenger

- Workers employed by freight rail companies (Class 1, shortlines)
- Number of industrial spurs

- Workers employed by bus transit agencies
- Workers employed by passenger rail agencies
- Number/Percentage of jobs/businesses served by bus transit
- Number/Percentage of jobs/businesses served by passenger rail

Tourism

Freight

Passenger

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- Percentage of visitors who arrive/depart resort destinations by bus transit
- Percentage of visitors who arrive/depart resort destinations by passenger rail

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CATEGORY

VALUE

MODE

CANDIDATE PERFORMANCE MEASURES

ENVIRONMENTAL CONSERVATION AND RESOURCE

Environmental Conservation

Freight

- Tons of pollution (or vehicle emissions) generated
- Fleet mix (Tier 2, Tier 3, Tier 4)

Passenger

- Tons of pollution (or vehicle emissions) generated per (1000 riders)

Resource Conservation

Freight

- Fuel consumption per ton-mile travelled

Passenger

- Fuel consumption per (VMT, PMT)
- Percent of fleet using alternative fuels
- Percent of maintenance facilities using alternative fuels
- Number of alternative fuel refilling stations
- Number of facilities with LEED designation
- Percent of agencies with materials recycling programs

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CATEGORY

VALUE

MODE

CANDIDATE PERFORMANCE MEASURES

EFFICIENCY

Financials

Freight

Passenger

- Statewide fare box recovery
- Public cost per transit trip (subsidy)
- Cost per (PMT, VMT, revenue-mile, passenger, mile, trip)

Operations

Freight

Passenger

- Revenue-hours per transit employee
- Passengers per (revenue-mile, revenue-hour)

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CATEGORY

VALUE

MODE

CANDIDATE PERFORMANCE MEASURES

SYSTEM AND PRESERVATION

System Preservation

Freight

- Miles of track classified as "Out of Service"
- Miles of track "Subject to Abandonment or Sale"
- Percentage of rail that can operate at maximum speeds of 60 mph

Passenger

- Average age of transit fleet
- Value of "State of Good Repair" backlog
- Number of agencies with transit asset management programs
- Average age of transit facilities (major maintenance, intermodal, BRT stations, passenger rail stations)

System Expansion

Freight

- Miles of rail added in the last year (Class I, shortlines)

Passenger

- Increase in bus transit route-miles (coverage)
- Increase in bus revenue miles (frequency)
- Increase in rail transit route-miles (coverage)
- Increase in rail revenue miles (frequency)

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CATEGORY

VALUE

MODE

CANDIDATE PERFORMANCE MEASURES

QUALITY OF LIFE

Environmental

Freight

Passenger

User/  
Community  
Experience

Freight

Passenger

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- Tons of surface contamination generated

- Number of quiet zones statewide

- Percent of fleet with (wi-fi, on-board restrooms, highback seating)
- Percent of transit stations with (indoor waiting areas, vending machines, restrooms)
- Percent of agencies using real-time passenger information systems

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