California Freight Advisory Committee (CFAC) September 18, 2013

Breakout Discussion: California Freight Mobility Plan Performance Measures

Economic Contribution Goal: Improve the contribution of the California freight transportation system to economic efficiency, productivity, and competitiveness.

Objective 1: Support transportation choices to enhance economic activity

- Develop transit options to shift commuter traffic off existing facilities thereby creating capacity – track redesign or personal vehicle usage (this might create impacts with rail freight in areas with shared use facilities)(Worksheet 1)

Objective 2: Enhance freight mobility, reliability, and global competitiveness

- Review sustainability of share of North American freight received and shipped through California ports (Worksheet 1)

Objective 3: Seek sustainable and flexible funding to maintain and improve the system

- Evaluate whether revenue matches demand (it does not now certainly)(Worksheet 1)

Congestion Relief Goal: Provide solutions to congestion on the freight transportation system.

Objective 1: Manage and operate an efficient integrated freight system
Objective 2: Invest strategically to optimize system performance
Objective 3: Identify causes and solutions to freight bottlenecks

Safety and Security Goal: Improve the safety, security, and resilience of the freight transportation system

Objective 1: Reduce rates of collisions, fatalities, and serious injuries associated with freight movements on the designated freight network.

- Measure fatalities, injuries, collisions, and accidents (Worksheet 2)
- Reduce number of fatalities, injuries, collisions, and accidents, in XX years (Worksheet 2)
- Develop database – ability for analysis (Worksheet 2)
- Metric: Number of traffic fatalities (Worksheet 3)
- Metric: Number of rail accidents/fatalities (Worksheet 3)
- Metric: Material release and marine (spills), train derailment, tractor truck accident (Worksheet 3)
- Select a baseline for data and compare current rates to determine whether delivery (Worksheet 3)
- Choose timeframe (e.g. 10 years) and ensure reduction over time (Worksheet 3)

Objective 2: Provide for the resilience and security of the freight transportation system

- Resilience: (Worksheet 2)
    - Railroad – State Rail Plan – Redundancy
    - Ensure redundancy in modal carriers
    - Maritime oil transportation – Does redundancy exist?
- What security measures exist today? Do they interface? (Worksheet 2)
- Rail – ensure redundancy between key location and redundancy across modes (Worksheet 3)
- Resilience – Avoid reliance on single fuel: Alternative fuel (Incl. electrified). We are too petroleum dependent. (Worksheet 3)

Infrastructure and Preservation Goal: Improve the state of good repair of the freight transportation system

Objective 1: Apply sustainable preventive maintenance and rehabilitation strategies

- Pavement Condition Index – Set benchmarks and targets to match up with needs (Worksheet 4)
- Visit current measures within Caltrans (Worksheet 4)
- Use statewide goals as set by CTC Needs Assessment – Get that group's measures and apply to Infrastructure and Preservation (Worksheet 4)

Objective 2: Adapt the freight system to reduce impacts from climate change

- Percent of highway systems that fall under threat of climate change impacts (Worksheet 4)

Technology and Innovation Goal: Use technology and innovation to operate, maintain, and optimize the efficiency of the freight transportation system and to reduce its environmental and community impacts

Objective 1: Support demonstrations of technology uses, innovation, and performance management

- Amount of funding/projects devoted to demonstration projects (Worksheet 5)
- Effort of demonstration projects as measured by benefit/cost congestion reduction, environmental impacts and overall efficiency (Worksheet 5)
- Number and dollars of demonstration projects. Metrics of performance: benefit/cost and emission reduction (Worksheet 6)

Objective 2: Support strategic applications of new technologies

- Incentive application of new technologies by providing XX% funding for new technologies (Worksheet 5)
- Set and state goals that technology can support. Metric would be amount of monetary and other incentives directed to programs that support applications of new technologies (Worksheet 6)

Objective 3: Use technology and real time information to move freight on all modes more efficiently

- Develop multimodal (seaport, airport, rail, highway) freight management centers at major port facilities by XX year. (Worksheet 5)
- Metric might be the delay reduction or improved "on-time" freight delivery that can be attributed to technology and real time information improvements (Worksheet 6)

Environmental Stewardship: Reduce adverse environmental and community impacts of the freight transportation system.

Objective 1: Integrate environmental, health, and social equity considerations in all stages of freight planning and implementation

- Dollars invested in tribal communities or miles invested in tribal communities (Worksheet 7)
- Early dialog and identification of impacted stakeholders (Worksheet 8)
- Require adopted Public Participation Plans that ID opportunities for input and clear decision timeline (Worksheet 9)
- Some percentage of new funding programs focused on projects with co-benefits related to health, environment, and equity (Worksheet 9)
- Early and continuous discussion with stakeholders (Worksheet 9)

Objective 2: Conserve and enhance natural and cultural resources

- Increase number of natural and cultural resources impacts minimized or mitigated as a result of freight movement (Worksheet 10)
- Timeline of consultation and inclusion of tribes and public (Worksheet 8)
- Tribal consultation and land management agencies public participation plan – need to have one with measures regarding obtaining effective feedback (Worksheet 8)
- Require consultation with tribes prior to projects, also to resources agencies. Early dialog and investment of stakeholders (Worksheet 9)
- Establish Public Participation Plans that include measurements and monitoring of its implementation (Worksheet 9)
- Consistent with NEPA and CEQA existing requirements (Worksheet 9)

Objective 3: Reduce greenhouse gas emissions and other pollutants by transforming the freight transportation system to be cleaner and more efficient

- Reduce greenhouse gas emissions and other pollutants originating from freight. Goal: XX% reduction. Strategies: new technologies to operate vehicles – electric, hybrid, natural gas, etc. (Worksheet 10)
- Require a percentage of energy use via renewable energy (Worksheet 7)
- Measure through trip generation and standard formulas (Worksheet 7)
- Invest a percentage of total revenue toward renewable (Worksheet 7)
- (1) Greenhouse gas – alternative energy grid power sources – target verses diesel equipment. 3 major ports Marine Air Quality Implementation Plan (Worksheet 8)
- (2) Air Toxic Contaminants – air inventory – standard reduction – conventional metrics (Worksheet 8)
- (3) Measure investment in new technologies. Fixed percentage of revenue (Worksheet 8)
- XX% reduction in particulate emissions and criteria pollutants (Worksheet 8)
- XX% of total power coming from alternative sources (Worksheet 8)
- Reduction in greenhouse gas emissions (Worksheet 8)
- Investment in new technologies (measure the amount of investment or a percentage of investment) (Worksheet 8)
- Use air inventory to measure and report (Worksheet 8)