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I-710 Corridor Project EIR/EIS

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I-710 CAC Recommendations Continued from October 29, 2009 Project Committee Meeting

presented to the

I-710 Project Committee

January 28, 2010



I-710 CAC Recommendations Follow Up

- Purpose: Follow up on items from 10/28/09 Project Committee meeting:
 - Near Source Modeling
 - Construction Impacts Analysis (Air Quality/Health Risk Assessment)
 - Relationship of Air Quality Action Plan (AQAP) to I-710 EIR/EIS

I-710 CAC Recommendations Follow Up

- CAC Recommendations as presented to the Project Committee on 10/28/09
 - CEQA Significance Thresholds
 - Near Source Modeling
 - Construction Impacts Analysis (Air Quality/Health Risk Assessment)
 - Health Impact Assessment

I-710 CAC Recommendations Follow Up

- Project Committee actions as taken at the 10/28/09 meeting
 - CEQA Significance Thresholds - **approved use of SCAQMD thresholds**
 - Near Source Modeling - **continued to 1/28/10**
 - Construction Impacts Analysis (Air Quality/Health Risk Assessment) - **continued to 1/28/10**
 - Health Impact Assessment - **approved for inclusion in AQAP**

I-710 Project Team Clarifications

Typical EIR/EIS	<ul style="list-style-type: none"> ✓ Carbon Monoxide (CO) quantitative assessment and local “hotspot” dispersion modeling of CO concentrations for conformity analysis ✓ PM2.5/PM10 (particulate matter/dust) qualitative assessment for conformity analysis ✓ Diesel Exhaust qualitative assessment (identify sensitive receptors) ✓ Mobile Source Air Toxics (MSAT) qualitative assessment ✓ Construction impacts (identify standard emission/dust control measures) ✓ Greenhouse Gases qualitative assessment ✓ Construction emissions quantification (total project)
I-710 EIR/EIS	<ul style="list-style-type: none"> ✓ Full dispersion modeling of ambient concentrations of criteria pollutants ✓ Full dispersion modeling for estimating concentrations of the six Priority MSATs ✓ Full dispersion modeling health risk assessment for the six Priority MSATs ✓ Quantification of operational (e.g., on-road mobile source, electric generation) greenhouse gas emissions ✓ Qualitative PM mortality impact assessment ✓ Ultrafine Particulates qualitative assessment ✓ Use SCAQMD CEQA significance thresholds
Not Incl.	<ul style="list-style-type: none"> ❑ Quantitative assessment of PM2.5 mortality and morbidity monetary benefits/impacts ❑ Full AQ/HRA modeling for combined operations/construction impacts at interim project phases ❑ Specialized “near-source” modeling of PM2.5/PM10 ❑ Quantitative PM mortality impacts assessment ❑ Analysis of “life-cycle” greenhouse gas emissions

I-710 Project Team Clarifications

- Near Source Modeling
 - Near source modeling is being performed at a Traffic Analysis Zone (TAZ) level as part of the I-710 analysis
 - There are technical limitations on the accuracy and validity of model results within 125 meters of the freeway
 - Current research on both emissions and dispersion modeling of ultrafines will be reviewed and incorporated, as appropriate, into the qualitative ultrafine particulate assessment (the first ever proposed for a freeway project)

I-710 Project Team Recommendations

- Near Source Modeling
 - Near-roadway criteria and air toxic pollutant modeling at a level smaller than the TAZ will be done, but technical limitations will be noted.
 - Near-roadway modeling results and near-roadway monitoring information will be reported in the EIR/EIS as described in regulatory conformity guidance.
 - The I-710 AQ/HRA will include a qualitative ultrafine particulate assessment (the first ever for a freeway project).
 - The AQAP should incorporate a review and analysis of the latest near-roadway models and monitoring. The results of the review and analysis will be reported to the I-710 Project Committee and will be used by the Gateway Cities COG in their comments on the I-710 Corridor Project Draft EIR/EIS.
 - **TAC and CAC Recommendation: The results of the review and analysis will be reported to the I-710 Project Committee and should be used in the I-710 Corridor Project Draft EIR/EIS.**

I-710 Project Team Clarifications

- Construction Impact Analysis (AQ/HRA)
 - Emissions from construction equipment and activities in construction will be calculated for the total duration of project construction using the methods in the SCAQMD CEQA Air Quality Analysis Handbook.
 - The I-710 AQ/HRA will qualitatively discuss construction staging and identify measures that would minimize potential health risks resulting from exposure to construction-related emissions.
 - Without sufficiently detailed projections of construction activity and timing (information that is not available at this stage of project development), calculating detailed emissions and then performing a full AQ/HRA modeling and dispersion analysis of construction impacts is not technically feasible.

I-710 Project Team Recommendations

- Construction Impact Analysis (AQ/HRA)
 - Conduct the AQ/HRA analysis of overall construction emissions of the I-710 Corridor Project as specified in the March 2009 AQ/HRA protocol.
 - Include qualitative discussion of construction staging and identify measures that would minimize potential health risks resulting from exposure to construction-related emissions.
 - The AQAP is the appropriate venue to consider the cumulative health impacts of major construction projects in the Corridor communities. This analysis in the AQAP should consider a “worse-case” scenario for I-710. The results of this analysis will be reported to the I-710 Project Committee and will be used by the Gateway Cities COG in their comments on the I-710 Corridor Project Draft EIR/EIS.
 - **TAC and CAC Recommendation: The results of this analysis will be reported to the I-710 Project Committee and should be used in the I-710 Corridor Project Draft EIR/EIS.**

I-710 Project Team Clarifications

- Relationship of the AQAP to the I-710 EIR/EIS
 - AQAP addresses air quality and health concerns of the Gateway Cities sub-region as a whole
 - AQAP can help define desired air quality and health outcomes related to I-710 and other projects
 - Gateway Cities COG will report AQAP results and recommendations to public
 - Findings of the AQAP will be reported to the I-710 Project Committee and will be used by the Gateway Cities COG in their comments on the I-710 Corridor Project Draft EIR/EIS

I-710 Project Team Recommendations

- Relationship of the AQAP to the I-710 EIR/EIS
 - Recommend that the Air Quality Action Plan include the preceding project team recommendations for analysis and also include the HIA and Community Medical Needs Assessment analyses. These analyses and results in the AQAP will be reported to the I-710 Project Committee and will be used by the Gateway Cities COG in their comments on the I-710 Corridor Project Draft EIR/EIS
 - **TAC and CAC Recommendation: These analyses and results in the AQAP will be reported to the I-710 Project Committee and should be used in the I-710 Corridor Project Draft EIR/EIS.**