Air Quality Discipline Report Checklist

Project Name: _____

Contact Name: _____

Date Received: _____ Reviewer: _____

(SAT = Satisfactory; INC = Incomplete; MIS = Missing; N/A = Not Applicable)

Answers are required for questions that have no N/A box.

Air impact studies are conducted in compliance with the Federal and State Air Quality Conformity Rules (40 CFR part 93 and WAC 173-420). The Air Quality Discipline Report is intended to identify information used during the development of an air quality discipline report. For greenhouse gas and Mobile Source Air Toxic (MSAT) emission evaluation, please contact the Air Quality, Acoustics, and Energy Program for further guidance. This checklist may be modified in consultation with the WSDOT Air Quality, Acoustics, and Energy Program.

An Air Quality Discipline Report can be highly detailed or extremely concise depending upon whether the level of impact or controversy is substantial or minimal. Project teams should take care to "right-size" the discipline report so it adequately addresses the impacts and controversy without over-analyzing or providing unnecessary information.

I. Introduction

Summarize the analysis done and conclusions reached, with enough detail so the report can be included in the Air Quality Section of the environmental document. If this information is available in another section of a larger document, please provide those sections to the reviewer to complete the information.

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Summary of project (including project location/mile post).
❑	❑	❑		B. The objectives of the project.
❑	❑	❑	❑	C. Narrative of analysis – EPA approved models used.
❑	❑	❑	❑	D. Project conformity status.
❑	❑	❑		E. Comparison and discussion of the impact status of all alternatives (includes No Build).
❑	❑	❑	❑	F. Coordination with federal, state, and local agencies done.
❑	❑	❑	❑	G. Written in Plain Talk language.

II. Affected Environment

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. CADD and/or channelization plan.
❑	❑	❑	❑	B. National ambient air quality standards (NAAQS).

SAT	INC	MIS	N/A	
❑	❑	❑	❑	C. Existing air quality conditions.
❑	❑	❑	❑	D. Existing/proposed right of way/areas accessible to the public.*
❑	❑	❑	❑	E. Compliance status with NAAQS and existing project area attainment status.
❑	❑	❑	❑	F. Qualitative discussion on current ambient health effects on people (plants and animals when appropriate).
❑	❑	❑	❑	G. Project area meteorology.
❑	❑	❑	❑	H. Qualitative discussion of health affects of pollutants.
❑	❑	❑	❑	I. Any major terrain features.
❑	❑	❑	❑	J. Project description.

*These items are not required in the discipline report, but provide data needed to conduct modeling.

Modeling outputs must be shown in the discipline report.

III. Studies and Coordination

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. National Ambient Air Quality Standards (NAAQS) for nonattainment or maintenance areas affected by project.
❑	❑	❑	❑	B. Project's relation to regional transportation plan and regional TIP.
❑	❑	❑	❑	C. Project's relation to State Implementation Plan (SIP) requirements, including Transportation Control Measures (TCMs) if applicable.
❑	❑	❑	❑	D. Method of air quality analysis.
❑	❑	❑	❑	E. Summary of conformity guidance. When conformity finding required, next three items must be included.
				❑ 1. City specific traffic, emissions, and concentration models used (mesoscale and microscale analysis).
				❑ 2. Assumptions used.
				❑ 3. Map showing modeled receptor locations.
❑	❑	❑	❑	F. Nonattainment and maintenance areas: summary of reference to regional analysis of region transportation plan and TIP.
❑	❑	❑	❑	G. Receptor sites placed per EPA guidance.
❑	❑	❑	❑	H. Traffic growth assumptions within the analysis area (method for predicting traffic volumes growth factor, inclusion of other regional projects in projections, traffic report citation).
❑	❑	❑	❑	I. Indirect air quality effects (those effects caused by a project but that occur at a distance from the project or later in time).

SAT	INC	MIS	N/A	
❑	❑	❑	❑	J. Modeling performed for existing and project related or project affected Level of Service (LOS) D, E and F intersections for conformity purposes.
❑	❑	❑	❑	K. Results of coordination with appropriate air quality agencies.

IV. Project Data and Assumptions

This information is needed for modeling and may be found in the modeling outputs included or as an attachment/appendix.

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Number and width of lanes.*
❑	❑	❑	❑	B. Peak hour traffic volumes.*
❑	❑	❑	❑	C. Signal timing and traveled speeds.*
❑	❑	❑	❑	D. Level of service for intersections.*
❑	❑	❑	❑	E. Homes, buildings shown on plan sheets, public access points.*
❑	❑	❑	❑	F. Type of roadway (elevated, depressed, at grade).*

*These items are not required in the discipline report, but provide data needed to conduct modeling.

Modeling outputs must be shown in the discipline report.

V. Impacts (for each alternative and no build)

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Qualitative and quantitative analysis of pollutants, per Conformity Guidance.
❑	❑	❑	❑	B. Findings of regional TIP quantitative analysis of hydrocarbons (HCs) and CO with project included.
❑	❑	❑	❑	C. Air quality impacts for year of opening.
❑	❑	❑	❑	D. Air quality impacts for horizon year of the regional long-range transportation plan known as the metropolitan transportation plan (MTP).

VI. Design Modification Commitments (if applicable)

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Modification commitments during highway operation.
❑	❑	❑	❑	B. Design modifications or measures considered or available but not included with reasons why.

VII. Project Conformity Statement

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Project's inclusion in conforming transportation plan and TIP/regional conformity per 40 CFR 93.110 –117.
❑	❑	❑	❑	B. Emissions relationship between build and no build alternatives.
❑	❑	❑	❑	C. Project's contribution to reduction of NAAQS violations (if any).
❑	❑	❑	❑	D. Applicability of CO, ozone, and PM_{10} conformity.
❑	❑	❑	❑	E. Hot spot conformity statement.

VIII. Construction Activity Impacts

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Impacts.
❑	❑	❑	❑	B. Dust and particulates.
❑	❑	❑	❑	C. Slash disposal.
❑	❑	❑	❑	D. Burning.
❑	❑	❑	❑	E. Odors.
❑	❑	❑	❑	F. Emissions from construction equipment.
❑	❑	❑	❑	G. Emissions from asphalt plants, gravel plants, and other temporary sources. Discuss permit requirements.

IX. Mitigation

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Mitigation measures and commitments during construction.
❑	❑	❑	❑	B. Mitigation measures considered or available but not included.

X. Figures, Maps, and Tables

SAT	INC	MIS	N/A	
❑	❑	❑	❑	A. Vicinity map.
❑	❑	❑	❑	B. Ambient air quality standards.
❑	❑	❑	❑	C. Designated nonattainment or maintenance areas for criteria pollutants.
❑	❑	❑	❑	D. Receptor group locations.

SAT	INC	MIS	N/A	
❑	❑	❑	❑	E. Ozone trends (recommended but not mandatory, after June 14, 2005, this is N/A because the boundary will be revoked).
❑	❑	❑	❑	F. Carbon Monoxide trends (recommended but not mandatory).
❑	❑	❑	❑	G. List of Receptors with Existing, Build, and No Build CO levels.
❑	❑	❑	❑	H. Receptor List of Existing, Build, and No Build CO exceedances (with values).

XI. Summary

Summarize the analysis done and conclusions reached. The summary should include enough detail so that it can be included in the EIS with only minor modification. The summary should include:

SAT	INC	MIS	N/A	
❑	❑	❑		A. Summary conformity statements (regional and local as appropriate).
❑	❑	❑		B. Impacts of all alternatives including the no-build alternative.
❑	❑	❑		C. Required mitigation.
❑	❑	❑		D. Comparison of alternatives based on impacts and effectiveness of design alternatives and construction phase mitigation.

General Comments: _____

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