

KENTUCKY TRANSPORTATION CABINET/DIVISION OF ENVIRONMENTAL ANALYSIS NOISE BASELINE GUIDANCE AND ACCOUNTABILITY FORM

Baseline Prepared by: _____			
Author		Firm	
County:	Route:	Item No.:	
Description:			
Prime Consultant:			
Due Date:	Submittal Date:	Submittal Draft #:	Approval Date:

Instructions:

Baseline Prepared by: Name of author/firm that prepared the study. **County:** Name of county(ies) within which the project is located.
Route: Name of highway for which the project is intended. Include route designation and number as applicable (i.e. US 60, Winchester Rd.)
Item No.: Item number as it appears in the contract and Six Year Plan which corresponds with the project.
Description: Official description of the project as it appears in the Six Year Plan.
Prime Consultant: Name of the Phase I Design and Environmental Consultant (prime contract holder) for the project.
Due Date: Date that the project is due as agreed upon in contract negotiation.
Date of Submittal/Submittal Draft Number: Date of submittal and draft being submitted (1st, 2nd, 3rd) in appropriate sections.
Approval Date: Date baseline is approved by DEA (*DEA use only*).

For “Required” column: √ indicates all applicable areas of focus (*DEA’s responsibility*).
For “Completed” column: use **Y** for yes and **NA** for not applicable as necessary (*Consultant’s responsibility*).
For “DEA” Column: DEA will use √ for all areas that adequately address concerns, and “I” for those that are insufficient in coverage.

“Comment” page: Discuss supplemental information, guidance or instructions, if any, that required deviation from the checklist. Discuss all categories which contain “NA” in the “Complete” columns of this format. Comments regarding the content and format of this form and/or its applicability may also be submitted in the comments section.

“Commitments to be Implemented” page: Identify any commitments that are documented within the study. Specify the nature of the commitment, to whom it was or should be made, when the commitment should be enacted upon, etc.

“Mitigation and Special Issues” page: Identify mitigation measures that are specified within the report, if any. Also, identify any special issues that are addressed within the document that should be considered by the Project Team as it makes decisions regarding the project.

“Signature” page: Signatures of Prime Consultant and KYTC/DEA Environmental Project Manager/Reviewer will attest that the base study meets the requirements set forth in this checklist. Signatures of KYTC Project Manager and District Environmental Coordinator ensure that the findings of the report, including impacts to the project and mitigation measures have been presented to the project development team and are acceptable.

Completed form is to be delivered to KYTC with the document. Previous checklists for the document, or a copy thereof, shall be attached to the current checklist.

Item No:

Required	Complete	DEA	CATEGORY
Insert check mark as appropriate			BASE STUDY FORMAT
√			• Base study written in clear, concise manner. Reviewer able to duplicate results and conclusion from data presented.
√			• Correct grammar and spelling present.
√			• Correct use of metric and English systems present.
√			• Tables and exhibits correctly labeled.
			TITLE PAGE
√			• Identify Base Study as Traffic Noise Impact Analysis.
√			• Author prequalified for Noise Traffic Noise Impact Analysis.
√			• Name of author present.
√			• Project title present.
√			• Project county/counties included in description.
√			• Item Number included.
			TABLE OF CONTENTS
√			• Summary of project description in agreement with text listed correctly.
√			• Tables within study listed correctly.
√			• Exhibits & figures within study listed correctly.
√			• Appendices within study listed correctly.
			INTRODUCTION
√			• Statement that analysis prepared in accordance with governing document 23 code of Federal Regulations (CFR) Part 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise."

Required	Complete	DEA	CATEGORY
Insert check mark as appropriate			PROJECT DESCRIPTION
√			<ul style="list-style-type: none"> • Purpose of project identified.
√			<ul style="list-style-type: none"> • Project termini and length identified.
√			<ul style="list-style-type: none"> • Roadway geometrics of existing facilities described.
√			<ul style="list-style-type: none"> • Roadway geometrics of proposed project described.
√			<ul style="list-style-type: none"> • Exhibits identified in project description agree with location exhibits presented.
√			<ul style="list-style-type: none"> • Identified alternates analyzed.
√			<ul style="list-style-type: none"> • Analysis of major urban through facilities performed for projects involving a bypass
			EXISTING NOISE LEVELS
√			<ul style="list-style-type: none"> • Date, time (peak hour) and weather conditions for included measurements.
√			<ul style="list-style-type: none"> • Description, including brand name and type of equipment, used to monitor traffic noise.
√			<ul style="list-style-type: none"> • Measurements utilized to calibrate FHWA highway traffic noise prediction model STAMINA2.0/OPTIMA.
√			<ul style="list-style-type: none"> • Model results within +/- 3dBA of existing field measurements.
			ANTICIPATED NOISE LEVELS FOR PROJECT'S DESIGN YEAR
√			<ul style="list-style-type: none"> • Noise level predictions calculated for Design Year utilizing FHWA highway traffic noise prediction model STAMINA2.0/OPTIMA.
√			<ul style="list-style-type: none"> • Description of FHWA STAMINA2.0/OPTIMA model.

Required	Complete	DEA	CATEGORY
Insert check mark as appropriate			COMPARATIVE RECEPTOR SITE ANALYSIS
√			• Analysis sites presented along with total number of representative receptors and listed in "Identification of Receptors" table.
√			• Correct land use category with respective design noise abatement criteria (NAC) presented and listed in "Identification of Receptors" table.
√			• Distance from existing roadway and proposed alternates presented and listed in "Identification of Receptors" table.
√			• Quantitative discussion summarizing future impacts on all receptors and listed in "Existing and Predicted Noise Levels" table. Site number, existing, no-build, and build noise levels in L_{eq} and Design NAC L_{eq} .
√			• Existing, no-build and design (build) noise levels in text and tables in agreement with those listed in STAMINA2.0/OPTIMA runs for existing, no-build and build alternates.
			CONSTRUCTION NOISE
√			• Statement regarding contractor requirements to restrict or reduce transmission of noise during construction activity.
√			• Statement regarding KYTC responsibility to monitor construction noise and to advise contractor of any violation of maximum allowable noise
			NOISE ABATEMENT RECOMMENDATIONS AND CONCLUSION
√			• Assessment of noise impact of project according to FHWA (23 CFR 772) and KYTC Noise Abatement Policy guidelines.
√			• Summary statement of quantitative impacts on all sites for no-build and build alternates when compared to existing noise levels.
√			• Identify sensitive noise receptors
√			• Compare existing and predicted noise levels with Noise Abatement Criteria
√			• Discuss reasonable and feasible noise abatement measures that would likely be incorporated into the project (i.e., noise barrier walls, berms, truck restrictions, vertical separations, speed limits), if necessary state that the final decision on implementation of abatement measures will be made after completion of the project design and the public involvement process
√			• Discuss noise impacts for which no prudent and feasible mitigation is available
√			• Discuss cumulative and indirect impacts

Required	Complete	DEA	CATEGORY
Insert check mark as appropriate			APPENDIX
√			<ul style="list-style-type: none"> • Existing field monitoring sheets included.
√			<ul style="list-style-type: none"> • Existing calibration runs, no-build and build STAMINA2.0/OPTIMA computer printouts included.

SIGNATURE PAGE

I have reviewed the project documentation and attest that those responsible for its preparation are familiar with the requirements set forth in the checklist above and that proper management controls were in effect throughout the course of document development to assure that the document is complete, thorough and addresses all applicable checklist components.

Prime Consultant

Date

Recommended for Approval By:

KYTC/DEA Environmental Project Manager/Reviewer

Date

Team Review of Commitments

The findings of the report, including impacts to the project and project commitments, have been presented to the Project Team and will be considered during the development of this project.

KYTC/District Environmental Coordinator

Date

Project Manager

Date