

SAFETY & OPERATIONS CERTIFICATION DOCUMENT

То:	Region Planning Chief: <chief name=""> Bureau of Traffic Operations – Traffic Eng</chief>		y Section
From:	<pre><analyst name=""> Individual Performing the Region</analyst></pre>	e Vetting/Model	ing
Date:	<mm dd="" yyyy=""></mm>		
RE:	Design ID:		
	Construction ID:		
	Highway:		
	Project Title:		
	Project Subtitle:		
	County Scheduled Construction Year:		
	Improvement Concept Code:		
	improvement concept code.		
docum Develo	ent reflects the intent of the policy and gui pment Manual.	delines describe	and any proposed improvements, we believe this d in section 11-38 of the Wisconsin Facilities
we beli			e existing corridor and any proposed improvements lelines described in section 11-52 of the Wisconsin
<u>Prepar</u>	<u>er:</u>		
Region	Analyst	Date	_
<u>Approv</u>	val:		
	of Traffic Operations	Date	_
Trattic	Engineering and Safety Section		
Region	Supervisor	 Date	_



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1. Certification Processes Completed 1.1. According to FDM 11-1-10 Attachment 10.1, do	es the improvement concept c	ode and scone	of work rea	uire the
Safety Certification Process to be completed?		Yes \square	No □	
,	If yes is selected and alterna Section 5, send to BTO at DOTBTOSafetyEngineering@	tives are evalua		ated in
1.2. Was the Operations Certification Process (FDM	11-52-15) completed for propo	osed improvem	nents within	this
project?		Yes □	No □	
	If yes, send to BTO at DOTTr	afficAnalysisMo	odeling@dot	.wi.gov
If "No" is selected for both 1.1 and 1.2, the Safety & Owithout approval from the Bureau of Traffic Operation as indicated in Section 5, the document can be complete.	ns (BTO). If 1.1 is marked "Yes" (and alternative	_	
2. Network Screening				
2.1. Safety Sites of Promise				
2.1.1. Did the project have Safety Sites of Promise for List Safety Sites of Promise: List the Sites of Promise (i.e., "flagged locations") with	_	Yes Intersection ID	No 🗆	Name
and Route/Mile post information to describe the locat		mersection ib,	, intersection	rvanic
Attachments: Project location/overview map, Wiscon. Segment results	sin Network Screening Spreadsh	neet (WINSS) In	tersection ar	ıd
2.2 Operational Sites of Promise (If Applica	<u>ble)</u>			
2.2.1 Did the project identify Operational Sites of Poles.2.2.2 Did the project identify Operational Sites of Poles.List Operational Sites of Promise:		_	No □ No □	N/A □ N/A □
List the Sites of Promise (i.e., locations that were revie	ewed for Operations) within the	project area. In	clude the	
Intersection ID as well as other contextual information	n (i.e., street names) to describe	the location.		
Attachments: Project location/overview map				
2.3 Additional Sites				
2.3.1 Were additional sites evaluated?		Yes □	No □	
List sites: List any additional sites that were evaluated for Safety locations"). Include the Intersection ID/Intersection No.				ion.
Attachments: Project location/overview map				

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3. Diagnosis

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3.1.1. Did	d relevant crashes remain after crash vetting?	Yes □ N	No □
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3.1.2. If yes, list each site and discuss the crashes and contributing factors (including geometric conditions) for the remaining crash(es) or note that no crashes remained after the vetting process.

Determine and describe the remaining crashes after the crash vetting process. Identify contributing factors and if crashes are correctible by an engineering solution. Describe any trends that may have occurred. Include information such as design speed, curve radius, weather factors, roadway cross section, signage, etc. If no crashes remained, list the site and state no crashes passed through the vetting process.

Attachments: Crash diagrams, vetting comments

3.2 Diagnosis of Operational Issues (If Applicable)

3.2.1. Provide a narrative of existing operational concerns and geometric deficiencies contributing to the delay or queuing.

Describe existing conditions of each location and the contributing factors causing the deficiencies.

4. Countermeasure/Alternative Identification

4.1. Were alternatives analyzed in this pro	ect?
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For intersections only, a Phase I: Scoping Intersection (Control Evaluation (ICE) is required if traffic control changes are
considered. See FDM 11-25-3 for more information.	

4.2. Provide a brief description of the alternative(s) and the contributing factors that are being targeted:

Location:

General Descript	tion	How improvements address safety/operational issues
	General Descript	General Description

For each location, create a new location table. Then list the alternatives and describe the contributing factors that would be mitigated with each alternative. Indicate if the improvement is for Safety, Operations, or both.

Attachments: Safety Certification Worksheet, Alternative concept drawings

Bureau of Traffic Operations (BTO) approval is <u>required</u> for all projects that consider alternatives as part of the Safety & Operations Certification Document.

5. Analysis Results and Economic Appraisal

5.1. Location Summaries

Last updated: August 15, 2025

Yes □

No □



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Analysis Location:	List the analysis location or limits of the proposed treatment with the largest impact
Safety Analysis Method:	List which method is used (Method 1, 2, or 3)
External CMF Value:	List the CMF value if using an external CMF. External CMFs are any
External Civir value.	CMFs used outside of the analysis software
	List the external CMF source, such as from the WisDOT CMF table.
External CMF Source:	See Traffic Engineering, Operations and Safety Manual (TEOpS) 12-
	3-1.
Unique Safety Analysis	List any noteworthy comments about the analysis or inputs.
Notes:	List any noteworthy comments about the unarysis of inputs.

		Base	Alt. 1	Alt. 2	Alt. 3
Alternative Name					
Safety	Fatal & Injury Crashes Property Damage Only Crashes				
Certification	Total Crashes				
Process	Crash Cost Value				
(See FDM	Project Cost				
11-38)	Net Safety Benefit				
	Net Cost				
	Safety B/C				
	Delay Cost Over Project Life				
Operations	Net Operational Benefit				
Operations Certification	Operations B/C				
Process	Safety & Operations B/C				
(See FDM 11-52-15)	STN-Only Operational Benefit (intersections only)				
	STN-Only B/C (intersections only)				

In some cases, an alternative may be less expensive than the base case. For these cases, use the lowest cost alternative as the base case when performing the Economic Appraisal. When evaluating alternatives such as High Friction Surface Treatment or signal-related work, where resurfacing costs would be the same across all proposed alternatives, the base case cost can be \$0.

Attachments: Cost Estimates, Crash Prediction Evaluation Reports, Highway Safety Benefit-Cost Analysis tool results (Method 1 only), Economic Analysis Report, Operations Certification Summary (if applicable)



5.2. Summary of Alternatives – Economic Considerations

The table below lists the alternative(s) considered and identifies if it meets policy thresholds regarding economic justification. The economic condition is either: Not Justified, Conditional – Combine with other factors, Justified, or N/A. See FDM 11-38-15 for more information regarding the safety justification and FDM 11-52 for operational justification. Note: The National Environmental Policy Act (NEPA) or Wisconsin Environmental Policy Act (WEPA) process isn't complete until all input is appropriately considered for all project alternatives. In some cases, it is possible that an alternative that does not have the highest safety benefit-cost ratio is the preferred alternative brought forward in the environmental document and Design Study Report.

Analysis Lasatian	۸ ا ـ		B/Cs		SSOP/OSOP/	Formania Condition	
Analysis Location	Alt.	Safety	Ops	Total	Additional Site	Economic Condition	
Location 1	Base	-	N/A	-	SSOP	N/A	
	1	0.72	N/A	0.72		Conditional – Combine with other	
	1	0.72	N/A	0.72		Factors	
	2	1.48	N/A	1.48		Justified	
Location 2	Base	-	-	-	OSOP	N/A	
	1	0.52	1.01	1.53		Not Justified	

For each location, create new rows in the table to accommodate all alternatives, including the base case. Provide the benefit-cost ratios for the safety and operational analyses and the total. If the analysis was not conducted put N/A. Identify the reason why the location was analyzed and the resulting economic condition.

6. Other Information

6.1. Describe other information relevant to the project such as community considerations, unique features, potential funding sources, etc.

ATTACHMENTS

Include all attachments in the final Safety & Operations Certification Document and submit as a single PDF.

- A. Project Information
 - a. Project Location/Overview Map
- B. Network Screening Documentation
 - a. Wisconsin Network Screening Spreadsheet (WINSS) Intersection Original Results
 - b. Wisconsin Network Screening Spreadsheet (WINSS) Intersection Validated Results
 - c. Wisconsin Network Screening Spreadsheet (WINSS) Segment Original Results
 - d. Wisconsin Network Screening Spreadsheet (WINSS) Segment Validated Results
- C. Diagnosis Documentation
 - a. WisTransPortal crash data spreadsheet with vetting comments
 - b. Crash Diagram(s)
- D. Countermeasure/Alternative Identification
 - a. Safety Certification Worksheet
 - b. Layout/Schematic for each alternative
- E. Analysis Results and Economic Appraisal
 - a. Cost estimate for each alternative
 - b. Crash Prediction Evaluation Report for each alternative
 - c. Economic Analysis Report



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- d. Highway Safety Benefit-Cost Analysis Tool results (if applicable)
- F. Operations Certification Summary (if applicable)
 - a. Turning movement counts
 - b. Diagram of traffic volumes for each analysis period
 - c. AWSC warrants
 - d. Signal warrants
 - e. Software reports for operation analysis
 - f. DT 1887
 - g. Exhibit highlighting queues vs. available storage for each analysis period
 - h. OCP Benefit-Cost Tool printouts