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**MINNESOTA DEPARTMENT OF TRANSPORTATION
APPLICATION GUIDELINES, OPERATIONAL STRATEGY and
IWZ COMPONENT SYSTEM SPECIFICATIONS**

The Intelligent Work Zone (IWZ) Component System is a type of Intelligent Work Zone System (IWZ) which is considered a supplement to Mn/DOT provided IWZ services or equipment as needed for a full IWZ System deployment and operation.

APPLICATION GUIDELINES:

Mn/DOT, through its Regional Transportation Management Center (RTMC) and outstate TOCC's has the capability to provide Intelligent Work Zone Systems for Mn/DOT projects. However, Mn/DOT's detection devices, communications networks or traveler information system may be inadequate for the proposed project. The discrepancies may be due to construction interrupting permanent installations, or that the current system does not extend to the project.

When designing a temporary traffic control plan (TTCP) for a project, Mn/DOT designers should consider all available Mn/DOT resources for traveler information / traffic control purposes. The RTMC should be contacted during the TTCP process to determine what services may be available from the RTMC. Many services, such as Travel Time/Delay, Advanced Congestion Warning, and other IWZ Systems can utilize existing RTMC detection, communications and messaging if devices are appropriately located. The outsourced IWZ Component System services would normally include data collection, computations and/or messaging for the type of IWZ System required; but may include limited data analysis on a system (although analysis is not the primary intention of the IWZ Component System).

An IWZ Component System is provided by a vendor/ manufacturer to supplement the services of the RTMC or outstate TOCC's, when various components are not currently available.

SYSTEM OPERATION STRATEGY:

The IWZ Component System would only supplement Mn/DOT IWZ System operations. The operational strategy for the individual components would be dependent on the type of IWZ System to be deployed. The strategy would be determined by Mn/DOT for the particular project and the required components would be requested as needed,

COMPONENT SYSTEM SPECIFICATIONS:

The IWZ Component System will utilize a performance and reliability specification. Due to the ever-changing technology, each project will require specifications on the type of equipment or services required by the vendor/ manufacturer for detection, data computations or communications.

In general, the vendor/ manufacturer shall supply equipment that is fully compatible with Mn/DOT equipment, fully functional and quickly/easily repaired/replaced if damaged. The vendor/ manufacturer shall provide technical personnel for all system calibration, operation, maintenance and timely on-call support services. The vendor/ manufacturer shall certify that the system will perform to the operational strategy as outlined above. The IWZ Component System provider must be listed on the Mn/DOT OTSO Work Zone Qualified Product List as either approved or in provisional approval status. Mn/DOT will conduct field reviews and require event logs for performance measures and the project's special provisions will prevail for the IWZ Component System. Systems provided by provisionally approved vendor/ manufacturers must also adhere to the provisional approval requirements as outlined in the IWZ Systems Qualification and Acceptance Process.