

**July 4, 2024****Addendum No. 02****File Reference Number: RFQ 2024 029****Title: Wheel Impact Load Detection (WILD) System****RE: Clarifications/Questions**

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Please refer to the following information / clarifications:

**Item 1:** The specifications state that the system shall be *“equipped with Automatic Equipment Identification tag reader functionality.”* Will the proposal need to include the supply of the AEI tag readers, or will ONTC be supplying them?

**Answer:** The proposal must include the AEI readers and have them incorporated into the system.

**Item 2:** The specification section of the evaluation criteria states *“ONTC will assign 20 points to Respondents who meet the requirements of ONTC. 10 points will be deducted for Respondents whose specifications are not precisely what ONTC requested but still meet general requirements. Respondents who cannot meet ONTC’s general requirements will receive zero.”* Can you clarify which specification requirements are considered general requirements, and which are not?

**Answer:** Please see the attached specification sheet. The line items listed in **BOLD** are considered general requirements. These specifications are the minimum ONTC can accept operationally.

**Item 3:** The specifications state that the system shall be *“equipped with API functionality to allow data transmission to a third-party system...”* and *“vendor to include their API specifications.”* Can you clarify if the availability of data files and the capability to send them to 3rd party systems to be consumed by an API satisfies the requirement for API functionality?

**Answer:** Yes, it would.

**Item 4:** If yes to the above, would details on the format and contents of the data files as well as communications protocol information satisfy the requirement for API specifications?

**Answer:** Yes, it would.

**Item 5:** The specifications state that the system shall be “*equipped with radio talker interface and wideband analog VHF radio for alerting passing trains.*” These radios are readily available as off-the-shelf items, and ONTC will likely receive a better price by procuring them direct from suppliers. Can we specify a brand and model of radio talker, and direct ONTC to the supplier to satisfy this requirement?

**Answer:** Yes, however, the vendor must clearly identify in their proposal how their system connects to a 3<sup>rd</sup> party (ONTC sourced) radio to provide this functionality.

**Item 6:** Is there a budget for this project? If so, what is the budget?

**Answer:** ONTC does not disclose our procurement budgets.

**Item 7:** Do you have the same standards for flat spot detection for passenger and freight services?

**Answer:** At the current time, yes. If the proposed equipment has the ability to set service-dependent thresholds, the vendor should indicate this in their proposal.

**Item 8:** Is your concern regarding hunting detection primarily:

- a. Derailment avoidance;
- a. Ride quality; and/or,
- b. Noise mitigation.

**Answer:** Hunting detection functionality is desired to prevent derailments, improve ride quality, as well as for noise mitigation.

**Item 9:** Could you please share with us the document “AAR Rule 46”, which is mentioned your documentation?

**Answer:** ONTC is not able to share the AAR documents or standards, they must be purchased directly from AAR.

**Item 10:** Could you please confirm the axle load (min – max) of the vehicles and expected lateral forces.

**Answer:** ONTC does not know the min/max loads or expected lateral forces.

Regards,

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## Wheel Impact Load Detector (WILD) System

Description	Will Comply		Other	Details
	Y	N		
<b>Equipped for single track operation</b>				
<b>Capable of train/wheel evaluation at operating</b>				
<b>Speeds of 20-100 MPH</b>				
<b>Wheel impact measurement range of 3-250 KIPS</b>				
<b>Minimum resolution 100 lb.</b>				
<b>Equipped with lateral monitoring (truck hunting) functionality</b>				
Minimum of 30 sensors/channels				
<b>Input power voltages of 12 or 24 or 48 VDC, or 120VAC or 240VAC 60HZ single phase</b>				
<b>Compatible with standard ethernet or cellular modem for communications</b>				
<b>Overall system operating temperature range of -40°C to +70°C</b>				
<b>Equipment shelter/bungalow interior operating temperature range of -20°C to +55°C</b>				
<b>Equipped with Automatic Equipment Identification tag reader functionality</b>				
Equipped with radio talker interface and wideband analog VHF radio for alerting passing trains				
Configurable to control the threshold of defects that are reported via radio talker				
<b>Equipped with a data management system or service that provides:</b> <ul style="list-style-type: none"> <li>○ <b>Graphical User Interface</b></li> <li>○ <b>identification of car defects by car number (using AEI tags), as well as by consist axle number (for cars that do not have AEI tags installed or working)</b></li> <li>○ <b>automatic alerts, with an option to alert via email</b></li> <li>○ <b>train traffic information</b></li> <li>○ <b>graphing of wheel loads</b></li> <li>○ <b>historical wheel and train data</b></li> <li>○ <b>statistical report generation</b></li> <li>○ <b>site health status and diagnostics for all major components of the WILD system</b></li> </ul>				
Equipped with API functionality to allow data transmission to a third-party system for capturing the following: <ul style="list-style-type: none"> <li>○ identification of car defects by car number (using AEI tags), as well as by consist axle number (for cars that do not have AEI tags installed or working)</li> <li>○ train traffic information</li> <li>○ all measured data</li> </ul>				
Vendor to include their API specifications				

<b>Rail preparation, grinding, drilling, hardware installation and wiring to be performed by vendor</b>				
<b>Proposal to include a set of recommended spares</b>				
<b>Proposal to include an annual maintenance agreement covering:</b> <ul style="list-style-type: none"> <li>○ troubleshooting</li> <li>○ support</li> <li>○ scheduled service</li> <li>○ software updates</li> </ul>				
<b>Remote technical services &amp; support available during ONTC’s “normal business hours” of 0900-1800, Monday to Friday, EST/EDT</b>				
<b>The WILD system being proposed to be compatible with freight, passenger, and mixed train operations</b>				
<b>The WILD system being proposed to be an existing product in use by other railroads in North America</b>				
<b>The WILD system warranty to be minimum of one year from date of commissioning</b>				
<b>Technical training on assessing system health and basic troubleshooting / operation to be provided at time of commissioning to ONTC technicians (3-5 employees)</b>				
<b>Training on accessing and interpreting system reports, alerts, and navigation of the monitoring system GUI to be provided to ONTC staff at time commissioning (5-8 employees)</b>				
<b>Vendor to include a sample report illustrating an actual train scan (minimum 10 cars), that demonstrates how defects are presented along with other train/car data.</b>				
<b>Software Component</b>				
<b>Describe the software to be included with the equipment.</b>				
<b>Name of Software Provider</b>				
<b>Location of Software Supplier</b>				
<b>Data Storage: Cloud based or within equipment? If cloud based, in which country is the data stored?</b>				
<b>Provide license agreement for the software</b>				
<b>Provide description of support and maintenance services for the software. Indicate if there is a separate agreement with the Software Provider and the amount of any additional annual subscription fees for the maintenance and support services.</b>				

<b>If the data storage is cloud based, provide the Software Provider's data security policy/protocol and privacy policy.</b>	
<b>If the software and data is wholly contained within the equipment, provide any connectivity requirements to connect the data to ONTC data infrastructure.</b>	