

Can the UQZI be Confused With Existing Wayside Signal Aspects?

The UQZI has been specifically designed to coexist with wayside color light signals. Neither GCOR or NORAC rules utilize the X character, the orange color or the unique triple flash sequence in any wayside signal aspects. The UQZI has been installed and tested with train crews immediately adjacent to color light signals to assure that there is no confusion between the two devices.

How is the UQZI Applied?

The UQZI is provided with an isolated power supply to light the UQZI. The power supply is capable of providing a steady state output for applications where the flashing pattern is generated by local control equipment or configurable with an internal flash pattern generator where local control equipment provides a steady state health or system normal output. An internal circuit provides for 50% dimming at night to reduce glare.



UQZI Applications

- Monitor for broken gate arms at two-quadrant gate crossings or one-way crossings within a Quiet Zone.
- Nighttime closure systems to verify that manual gates are closed establishing the Quiet Zone.
- Four-Quadrant Gate systems with a gate management or vehicle detection system for monitoring gate arm integrity as well as highway-vehicle-detection scenarios.
- Wayside Horns indicate the integrity of the system.

We also offer Quiet Zone Evaluations

- Field Review of Existing Crossings
- Evaluation of the Quiet Zone Solutions
- Cost Estimates for Each Treatment



- Outlined Process to Create Quiet Zones
- Live Demonstration and Public Education
- Summary Report of Evaluations

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UQZI™
Universal Quiet Zone Indicator

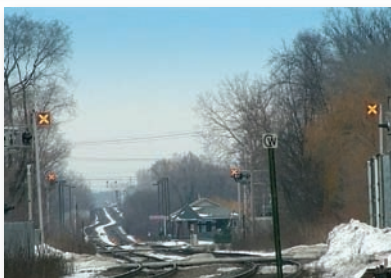


Provide a Consistent Visual Indication to Train Crews with the Universal Quiet Zone Indicator™



What is the UQZI?

The Universal Quiet Zone Indicator™ (UQZI™) is an LED display intended to notify the crew of an approaching train of the integrity of a Quiet Zone. Under the Federal Railroad Administration Train Horn Rule, communities are provided with various safety treatments which can be employed at selected crossings in order to establish a designated quiet zone. Once established in accordance with the regulations, all normal train moves through the Quiet Zone are required to proceed without sounding the locomotive horn.



Why is a UQZI necessary?

With a UQZI installed at each crossing within a Quiet Zone, the train crew of an approaching train knows where and when to sound the locomotive horn. If a monitored element of the crossing warning system is not performing as intended the UQZI will darken, telling the train crew to sound the locomotive horn. The UQZI is applied in conjunction with various treatments within designated Quiet Zones including those with Wayside Horns, Four-Quadrant Gates, quiet crossings where

the integrity of the crossing gate arms is desired to be monitored, or simply as a marking indication to identify a quiet crossing to the locomotive engineer.

So there's one simple rule for all train crews. Sound the locomotive horn at all crossings except where the UQZI is operational. If the monitored elements have lost integrity, the UQZI is damaged or the power has failed, the UQZI is extinguished thereby taking the safe course by requiring the sounding of the locomotive horn.

