

With over 100 installations, and systems in service for over ten years, the AHS™ has proven its reliability, effectiveness and durability.



AHS™ is designed to sound like a train horn. The sound files in the Automated Horn System™ were digitally recorded from an actual locomotive horn. Upon receipt of the signal from the railroad's crossing warning system, AHS™ mimics the train horn warning by cycling through the standard railroad whistle pattern until the train reaches the crossing. Once the train enters the crossing, the AHS™ ceases to sound its warning. A Universal Quiet Zone Indicator (UQZI) notifies the locomotive engineer that the AHS™ is functioning properly.

When the locomotive engineer sees that the UQZI flashing, the routine sounding of the train horn is not required. If however, the engineer detects an unsafe condition at the crossing sounding of the train horn will be required. Coordination with the railroad operating company is essential since the AHS™ is directly connected to the railroad's crossing warning system. Additionally, the railroad operating company must issue instructions to their train crews regarding the sounding or non-sounding of the train's horn.

**What the Residents say  
in Response to the AHS™ Installation:**

"We had thought about selling our home because the train horns bothered us so much. Then, Glory be to God, you installed the Automated Horn Systems and we have a new life." – Citizen, Ames, IA

"The City has done a good job. Keep up the good work.." – Citizen, Roseville, CA

"The Automated Horn System has greatly reduced the train noise in my home. With the automated system I can sleep through the night and that really improves my quality of life. Thank You!" – Citizen, Riverside, CA

"...analysis of the effectiveness of automated horns as a safety feature and as a method of reducing noise from train horns. On both counts the automated horn proved extremely successful ." – Mayor, Mundelein, IL



**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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**Automated Horn System™**  
*Tested, Proven, Reliable*





## What is an Automated Horn System™ ?

The Automated Horn System (AHS™) is a wayside horn system activated by the railroad crossing warning system. The AHS is mounted at the crossing, rather than on the locomotive, to deliver a more consistent audible warning to motorists and pedestrians while eliminating noise pollution in neighborhoods for more than one-half (1/2) mile along the rail corridor. The Federal Railroad Administration Train Horn Rule has defined the wayside horn as a one-for-one substitute for the train horn.

## Sound Comparison of a Train Horn vs. the AHS™

Locomotive engineers are required by the new FRA train horn rule to begin sounding the locomotive horn at a minimum of 15 seconds prior to the train's arrival at the grade crossing. They are also required to continue to sound the horn until the train arrives at the crossing.

If the train horn is to be an effective warning device for the motorist, it must provide a sound level capable of initiating a response from the driver when the train is approaching the crossing. Unfortunately the sound level required to achieve that response and the location of the train relative to the crossing creates a significant noise impact on the community.

## A Proven Technology

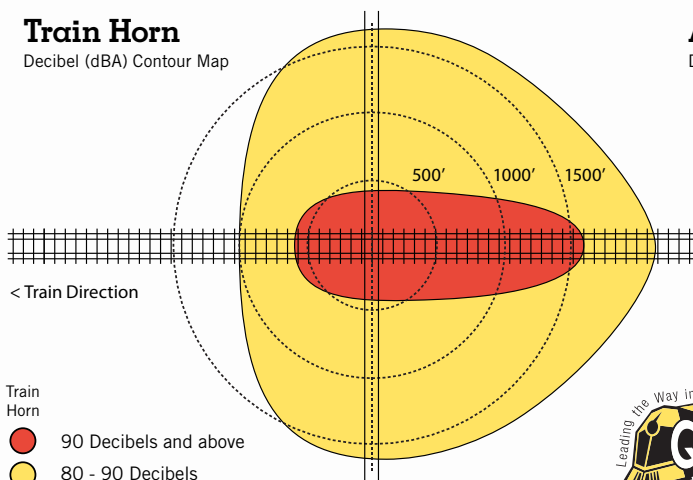
The AHS™ is the only proven innovative railroad signaling device that significantly improves safety for motorists and pedestrians at railroad-highway grade crossings while dramatically reducing the amount of noise pollution created by train horns along rail corridors in populated areas.



The two noise footprints below depict the area impacted by the sound of the train horn and AHS™ respectively. The comparison of the train horn and AHS™ shows a dramatic difference between the areas that are impacted at specific decibel levels. By examining the 80 decibel contour on the two footprints it can be seen that the area impacted by the AHS™ is a fraction of the size of the 80 decibel contour produced by the train horn.

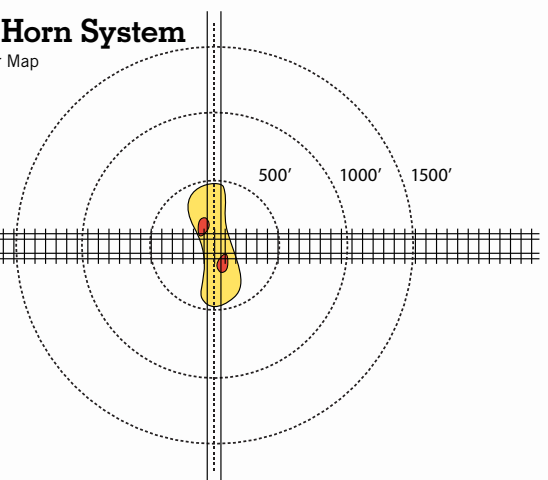
### Train Horn

Decibel (dBA) Contour Map



### Automated Horn System

Decibel (dBA) Contour Map



Train  
Horn

- 90 Decibels and above
- 80 - 90 Decibels



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A Partner in Safety with RCL