Update from EHMC

Monitoring the Fleet

Kim Bowling, Chair EHMC
Goals of EHMC

To develop standards and specifications to support other technical committees relative to equipment health monitoring. Standards development will include wayside systems, onboard systems, and electronic data exchange.
Combined Wheel & Bearing Temperature

Deflector

Bearing Detector

Hot Wheel
Bearing Temperature Trending – Sharing HBD data
Railinc: Using Wheel Temps to Determine Brake Health

On a **braking** train…

*Hot wheels* means Effective Brakes!
*Cold wheels* are ineffective.

Ineffective is a wheel that is 30% or less than the expected temperature.

BHI: Brake Health Indicator (Truck)
→ BHI: Brake Health Indicator (Car)
→ Brake Effectiveness (Train)

All supporting the (future) Class 1A Waiver.
Load cell based WILD from Schenck Process

Wheel Condition Monitor from Track IQ

What are the requirements for Calibration? For Validation?
Example: SRI Research

Using WILD Dynamic kips with WPD’s Thin Rim to target potential broken wheels.
Example: Published TD’s

Druck Bogie Optical Geometry Inspection System Hunting Alert Criteria

Tony Sultana and Ivan Aragona (Consultant)

Summary
As part of the Association of American Railroads’ (AAR) Strategic Research Initiatives Program, as directed by the Equipment Health Monitoring Committee, the Transportation Technology Center, Inc. (TTCI) has estimated an alert limit for TBOGI-HD™ peak hunting comparable to AAR truck hunting detector (THD) limits.
New Technology & Data Type: Machine Vision
Industry Data

www.Railinc.com

CSC@railinc.com
Where to shop for Industry data: RAILINC.COM

Asset Health Data Summaries

Railinc's Asset Health Data Summaries give customers a concise view of equipment health data collected by wayside detectors. These summaries enable insights into equipment health and help railroads, car owners and other industry participants make better maintenance planning and repair decisions. Users may view data summaries via the Equipment Health Management System (EHMS) application and the Equipment Health View (EHV) tool or receive the data summaries via Railinc's web services technology and EHMS subscriptions.

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