

# HOTBOX MONITORING:

## Real-time Detail Axle Reporting



**MeteorComm Packet Data Radios** installed at hotbox sites interface to the detectors and send detailed axle report for each passing train to the back office within seconds of the train passing.

**Back office processing of the axle reports** allows early detection of warm journal and stuck brake problems. Analyzing data from all detectors that the train passes allows failure trends to be detected and the train stopped before a catastrophic failure.

**Hotbox Detectors can operate as independent**, stand-alone sites that detect individual axle bearing temperatures above an absolute threshold, and can then notify the engineer of a critical situation.

**Transmitting the axle data to the back office** in real-time allows it to be processed as a train set and combined with data for the same train from adjacent detectors. This allows warm bearing trends and wheel, truck and air brake problems to be detected. The controller can stop or slow the train before a distant detector finds an individual bearing overheated and thus prevent a derailment that might occur before the train reaches that detector.

**Replace phone lines/cell phones at the sites** with MeteorComm radios for always-on coverage and lower subscriber fees. MCC-545C Radio can interface to all common hotbox detectors including the Harmon 32, Harmon 2032, Cyber 2000, Cyber 9000, STC 2058, and STC NG detectors.

### Features:

- Detail axle reports available in seconds
- Early detection of warm journals
- Remote monitoring and control of hotbox detectors
- Wheel, truck, and train stuck brakes detected
- Thermal history of all journals available
- Interfaces with all common hotbox detectors

### Benefits:

- Prevents derailments by early detection of problems
- Monitors whole train throughout its entire run
- Allows detectors to work as a network

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