



## 20P265- Wheel Truing Machine Replacement- Blue Line

Jay Wesely, Project Manager- Light Rail Vehicle  
Maintenance | 04/11/2022

# Business Item 2022-88

## Proposed Action

That the Council authorize the Regional Administrator to negotiate and execute contract with NSH USA Corporation, to manufacture a replacement wheel truing machine for the Hiawatha (Blue Line) Operations and Maintenance Facility (O&MF), in the amount of \$2,295,493.20.

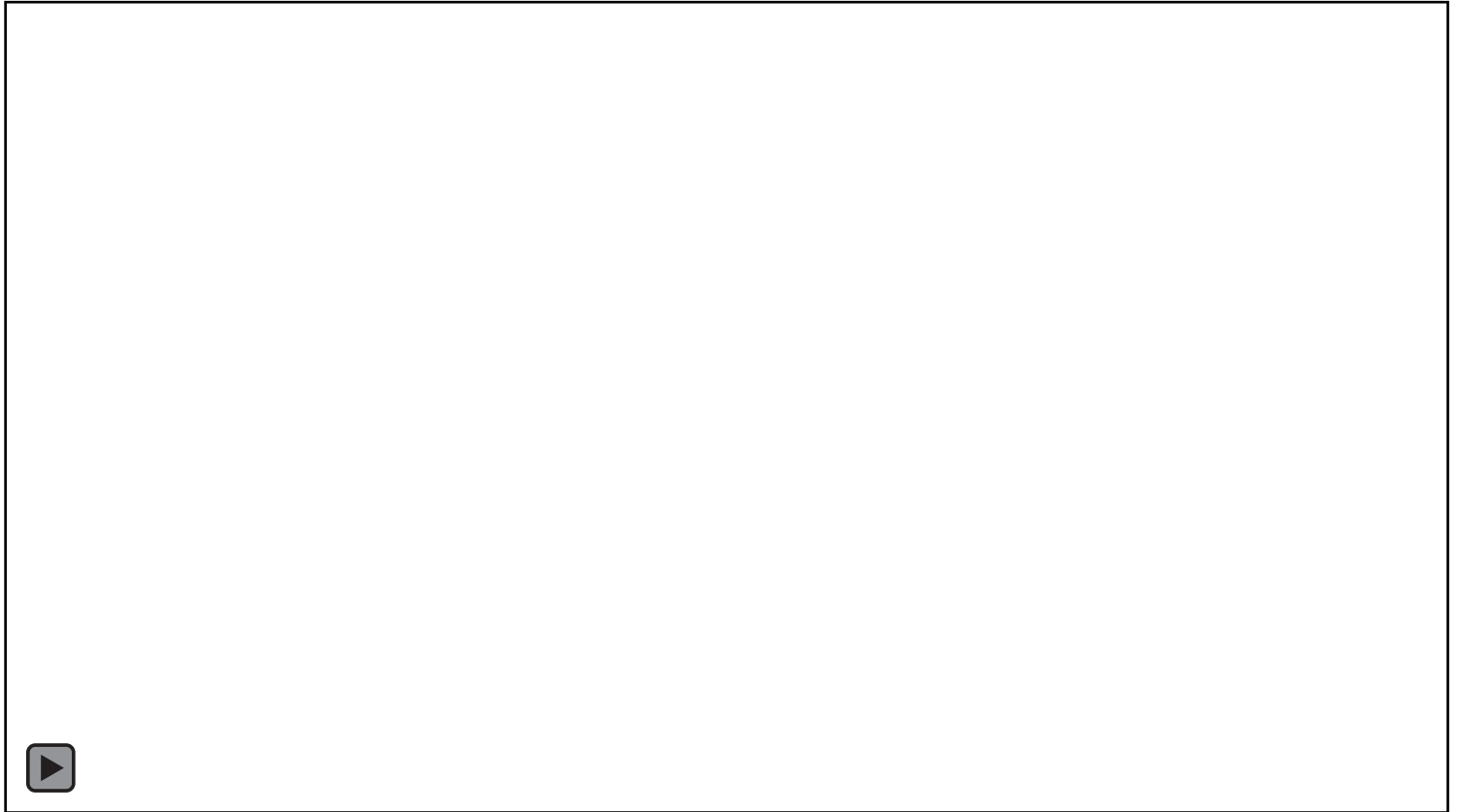
# Description of the Wheel Truing Machine

- Wheel Truing Machines are a critical piece of shop equipment for vehicle maintenance shops
- Metal train tires require periodic and corrective re-profiling to ensure proper contact with rails and minimize noise and vibration
  - Every 50,000 miles or whenever flat-spots or other surface issues are detected
- Wheel Truing Machines re-profile metal tires by removing material from the surface until the proper profile is achieved



# Wheel Truing Machine at Work

- Entire Light Rail Vehicle (LRV) or wheel set is positioned over machine
- Material is removed until the defect is corrected and proper profile is restored
- Tire profile is measured after machining to confirm proper profile is achieved



*Play video*



# Replacement Need

Current machine is past usable life and no longer capable of handling the workload increase at the Blue Line shop

- Fleet serviced at the Hiawatha O&M has grown by nearly three times since the opening of the Blue Line (24 LRVs to 71 LRVs)
- New machine output capacity is two times higher than existing machine at minimum

Due to this need, the proposed action for this Business Item is for the Council to authorize the Regional Administrator to negotiate and execute contract with NSH USA Corporation, to manufacture a replacement wheel truing machine for the Hiawatha (Blue Line) Operations and Maintenance Facility (O&MF), in the amount of \$2,295,493.20.

# Thank You!

**Jay Wesely**

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