



Metro

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

Board Report

File #: 2016-0078, **File Type:** Oral Report / Presentation

Agenda Number: 35.

**SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE
JUNE 16, 2016**

RECEIVE Oral Report on System Safety, Security and Operations.

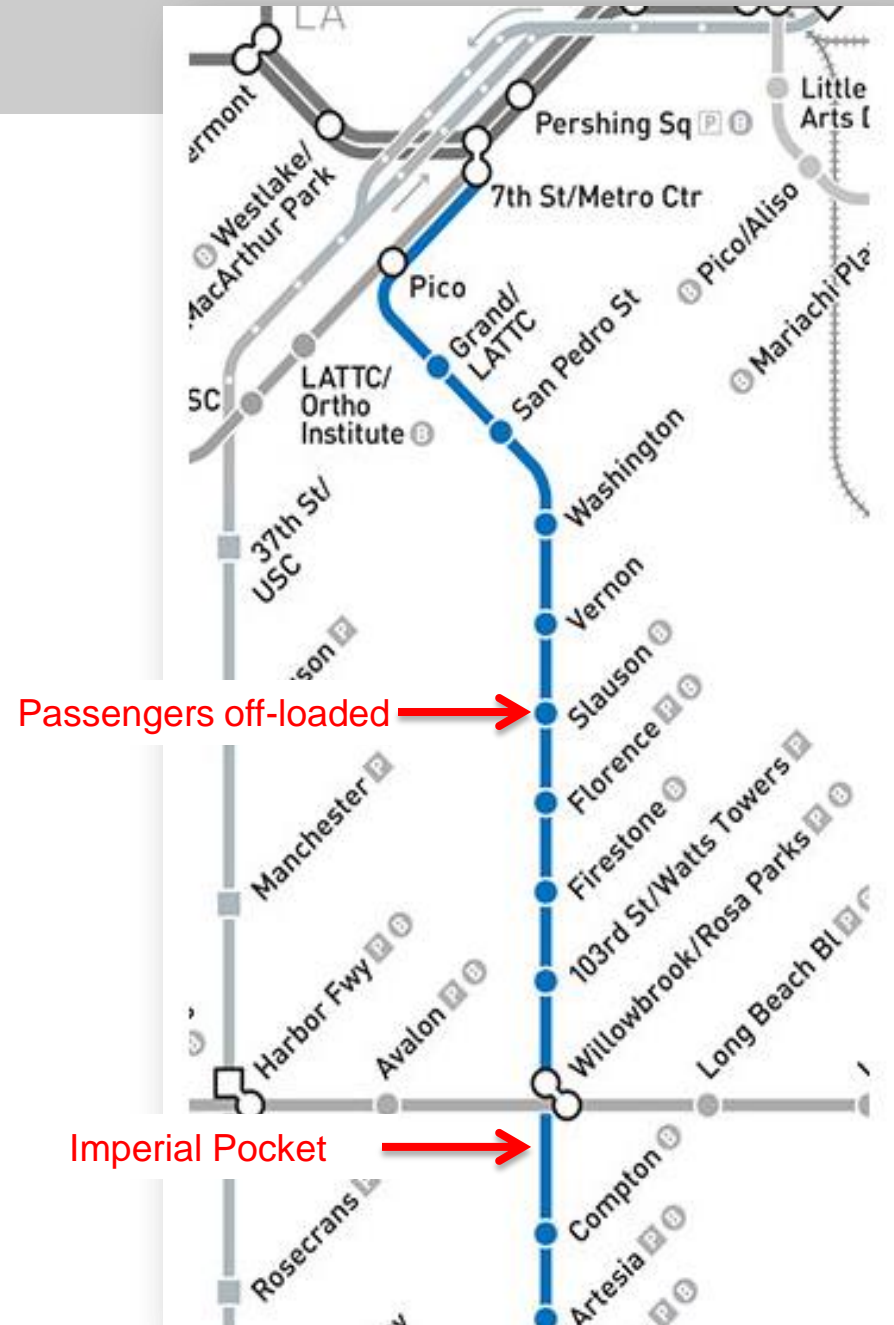
Blue Line Incident Update June 16, 2016



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Description

- At approximately 5:20PM, Train 111 was proceeding southbound with reoccurring propulsion faults.
- Train 111 off-loaded passengers at Slauson station when smoke was detected and ordered to clear the mainline.
- Train 111 reported to have a C-truck fire as it was being relocated into Imperial Pocket.
- Operations, LAFD, RFS, Safety and Wayside responded to incident.
- Note: No patrons were on board Train 111 at the time of the incident.
- No injuries were reported.



Response



LAFD
extinguished the
fire at 6:15PM

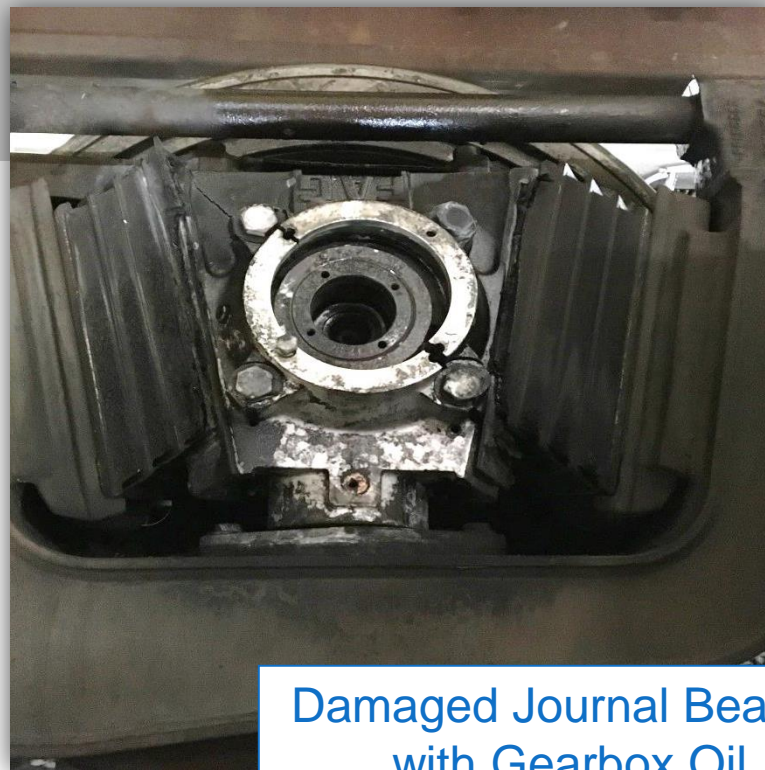
Car 245 C-Truck
journal bearing
after the fire



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Initial Actions

- At approximately 3:00 AM the incident train was stored in the Vehicle Shop with no further issues.
- CPUC on scene on Wednesday, June 15, 2016 to do their work



Damaged Journal Bearing
with Gearbox Oil

Initial review of Maintenance Data:

- Last inspection performed on May 17, 2016.
- Change out of C-truck axles on May 24, 2016.
- No other work performed on C-truck for the last 100+ days.



New
Journal
Bearing

Investigation & Analysis

- Damage is contained to the journal bearings, axle and chevron springs.
- Vehicle Engineering is reviewing and correlating maintenance records to determine of cause of failure.
- Wheel and axle set will be disassembled and sent to labs for review and analysis.



Axle and journal bearing sets

Blue Line System Disruptions & Investments Update June 16, 2016



Rail Incident Recap

During FY15 - FY16:

- 20-26% of systemwide rail incidents were related to electrical issues
- 7-13% of systemwide rail incidents were related to the utility providers (SCE/DWP) experiencing power failures
- 32-40% of Metro Blue Line (MBL) incidents were related to electrical issues

Rail Incidents Recap July 1, 2014 - Present

Fiscal Year	System	# of Incidents	% of Total
FY15	Electrical	25	20.7%
	OCS	6	5.0%
	Other	14	11.6%
	Utility	9	7.4%
FY15 Total		54	44.6%
FY16	Electrical	32	26.4%
	Mechanical	1	0.8%
	OCS	7	5.8%
	Other	11	9.1%
	Utility	16	13.2%
FY16 Total		67	55.4%
Grand Total		121	100.0%

Blue Line Only

Fiscal Year	System	# of Incidents	% of Total
FY15	Electrical	20	32%
	OCS	4	6%
	Other	3	5%
	Utility	1	2%
FY15 Total		28	44%
FY16	Electrical	25	40%
	OCS	4	6%
	Other	3	5%
	Utility	3	5%
FY16 Total		35	56%

MBL Power Outages



MBL power outage causes:

1. Manufacturing and calibration issues related to traction power substations
2. Vulnerability of traction power system utility outages
3. State of Good Repair of traction power underground feeders in Downtown L.A. and in Long Beach



MBL Station Investments

- **Top MBL Electrical Projects:**
 1. **MBL Traction Power Substation (20 substations)**
 2. **MBL Overhead Catenary System Rehabilitation**
 3. **MBL Rail Replacement & Booting**
 4. **MBL Signal System Rehabilitation**
- **MBL FY17 Investment Levels:**
 - Over \$35M
 - Includes State of Good Repair and safety & security projects

