

# Transit Fleet Maintenance Program Overview

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# Transit Services

- Mountain Metro Fixed-Route Bus System
  - Operates 7 days a week, 362 days per year
    - Weekdays 5:30 a.m. to 9:45 p.m.
    - Saturdays 6:30 a.m. to 6:45 p.m.
    - Sundays 7:45 a.m. to 5:45 p.m.
- Metro Mobility ADA paratransit services
  - Operate same days and hours as fixed-route
- Metro Rides Vanpool commuter program
  - 7 days a week; primarily Monday-Friday
  - 70% to Denver area; also to Cañon City, Pueblo, and within El Paso County
- Specialized Elderly and Disabled Transit Services

# Outsourcing

- Over 90% of Transit's budget is for outsourced services
- Three Major Contracts:
  - Fixed-Route Operations (\$5.9 million)
    - McDonald Transit Associates
  - ADA Paratransit Operations (\$3.3 million)
    - National Express Transit Corporation
  - Fleet Maintenance (\$2.3 million)
    - McDonald Transit Associates

# Transit Campus



# Maintenance Facility





# Maintenance Facility



# Vehicle Fleet

- Fixed-route buses: 43
  - Mountain Metro bus service
- Paratransit buses: 48
  - Metro Mobility ADA service
- Vanpool Vans: 43
  - Metro Rides commuter vehicles
- Service & Staff Vehicles: 24
  - Transit Division and Contractor staff



# Fleet Maintenance Contract

- 1-year contract with options for extension
- 2014 contract \$2.3M
  - Fixed costs
    - Scheduled maintenance services
    - Contractor administrative needs
  - Variable costs
    - Unscheduled maintenance
    - Engine and mechanical repairs
    - Body damage repairs



# Fleet Maintenance Work Flow

- Transit Services Division oversight
- Weekly preventative maintenance (PM) schedule
  - Systematic varying levels of maintenance
- Repair work
  - Identified during PM inspection
  - Driver Vehicle Inspection (DVI) Reports
  - Road calls

# Driver Inspections

- Driver Vehicle Inspections (DVIs) required by US Department of Transportation
  - Pre-trip and post-trip inspections; every shift change
- DVIs forms in triplicate:
  - Service contractor keeps original
  - Driver places one copy in DVI box
    - Maintenance contractor retrieves DVIs daily
  - One copy stays on vehicle with other documentation

## BUS DRIVER'S VEHICLE INSPECTION REPORT

COMPANY: \_\_\_\_\_

ODOMETER READING: \_\_\_\_\_ BUS NO.: \_\_\_\_\_

END MILEAGE: \_\_\_\_\_ DATE: \_\_\_\_\_  AM  PM

START MILEAGE: \_\_\_\_\_ TIME: \_\_\_\_\_

TOTAL MILEAGE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

INSPECT ITEMS LISTED - IF DEFECTIVE, NUMBER AND DESCRIBE IN "REMARKS"

<input type="checkbox"/> FLUID LEAKS UNDER BUS	<input type="checkbox"/> EMERGENCY DOOR & BUZZER
<input type="checkbox"/> LOOSE WIRES, HOSE CONNECTIONS OR BELTS IN ENGINE COMPARTMENT	<input type="checkbox"/> HEADLIGHTS, FLASHERS & 4-WAY FLASHERS
<input type="checkbox"/> OIL LEVEL	<input type="checkbox"/> RIGHT FRONT TIRE & WHEEL
<input type="checkbox"/> RADIATOR COOLANT LEVEL	<input type="checkbox"/> FRONT OF BUS - WINDSHIELD
<input type="checkbox"/> BATTERY	<input type="checkbox"/> LEFT FRONT TIRE & WHEEL
<input type="checkbox"/> TRANSMISSION	<input type="checkbox"/> STOP ARM (SCHOOL BUS)
<input type="checkbox"/> UNUSUAL ENGINE NOISE	<input type="checkbox"/> EXHAUST SYSTEM
<input type="checkbox"/> GAUGES & WARNING LIGHTS	<input type="checkbox"/> LEFT SIDE OF BUS - WINDOWS & LIGHTS
<input type="checkbox"/> SWITCHES	<input type="checkbox"/> LEFT REAR TIRES & WHEELS
<input type="checkbox"/> HORN	<input type="checkbox"/> REAR OF BUS - WINDOWS & LIGHTS
<input type="checkbox"/> FANS & DEFROSTERS	<input type="checkbox"/> TAIL PIPE
<input type="checkbox"/> WIPERS & WASHERS	<input type="checkbox"/> RIGHT REAR TIRES & WHEELS
<input type="checkbox"/> STOP ARM CONTROL (WARNING CONTROL)	<input type="checkbox"/> RIGHT SIDE OF BUS - WINDOWS & LIGHTS
<input type="checkbox"/> INSIDE & OUTSIDE MIRRORS	<input type="checkbox"/> DRIVER'S SEAT & BELT
<input type="checkbox"/> BRAKE PEDAL & WARNING LIGHT	<input type="checkbox"/> DIRECTIONAL LIGHTS
<input type="checkbox"/> OPERATION OF SERVICE DOOR	<input type="checkbox"/> PARKING BRAKE OR SERVICE BRAKE
<input type="checkbox"/> EMERGENCY EQUIPMENT	<input type="checkbox"/> CLUTCH
<input type="checkbox"/> FIRST AID KIT	<input type="checkbox"/> STEERING
<input type="checkbox"/> ENTRANCE STEPS	<input type="checkbox"/> WHEELCHAIR LIFT
<input type="checkbox"/> CLEANLINESS OF INTERIOR	_____
<input type="checkbox"/> CONDITION OF FLOOR	_____

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CONDITION OF ABOVE VEHICLE IS:  SATISFACTORY  UNSATISFACTORY

DRIVER'S SIGNATURE: \_\_\_\_\_

ABOVE DEFECTS CORRECTED  
 ABOVE DEFECTS NEED NOT BE CORRECTED FOR SAFE OPERATION OF VEHICLE

MECHANIC'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

DRIVER REVIEWING REPAIRS: SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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# Challenges

- Aging fixed-route fleet
  - Average 9 years, 374,000 miles
- Recommended 20% spare ratio
  - Scheduled maintenance
  - Unscheduled repairs
  - Vehicles to be available for operations
- Fleet comprised of several types of vehicles
  - Required inventory of parts

# Asset Management Plan

- Purpose:
  - To ensure assets are maintained in a State of Good Repair and replaced when necessary.
  - SOGR: Ensure performance, reliability and public safety, and protect asset value.
- Will be a federal requirement in 2017
  - Federal Transit Administration will distribute final guidance



# Asset Management Plan

- Fleet
  - Fixed-Route Buses
  - Paratransit Vans
  - Vanpool Vans
  - Staff Vehicles
- Facilities
  - Bus Stops, Transit Stations
  - Maintenance Buildings
  - Administration Buildings
- Information Technology
  - On-Board Equipment
  - Administration Equipment

# Fleet Management Plan

- Fleet maintenance
- Vehicle inspection
- Annual reporting
- Fleet replacement
- Fleet disposition

# Upcoming

- New fleet maintenance contract upcoming
  - Competitive process underway
  - April 1, 2016 start date
- Purchased 14 new fixed-route buses
  - Two 30' and four 35' buses arriving November 2015
  - Three 30' and five 35' buses coming February 2016
  - Grow fixed-route fleet by five buses; will have 48
    - Nine fixed-route vehicles to be retired
- Purchasing replacement ADA paratransit vehicles in 2016
- Next purchase of fixed-route buses in 2017

# Questions?