National Transit Database (NTD) Asset Inventory Expansion

August 2016

Presenter: Maggie Schilling
Agenda

• Background

• National Transit Database (NTD) Asset Inventory Reporting

• Transit Asset Management (TAM) Performance Metrics

• Question and Answer Session
Sources of Authority

MAP-21 NTD Requirements

• Asset Inventory Module Expansion for Urban Reporters

TAM Final Rule NTD Requirements

• Performance Measures
• Performance Targets
• Data Report – condition assessments & slow zones
  – 5310 asset inventory
  – 5311 facility inventory
### Implementation Timeline

- Optional reporting in RY2017 (beginning fall 2017)
- Mandatory Reporting in RY2018 (beginning fall 2018)

<table>
<thead>
<tr>
<th>Fiscal Year Ends</th>
<th>Report Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>July to June</td>
<td>October 31&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>October to September</td>
<td>January 30&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>January to December</td>
<td>April 30&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
</tbody>
</table>
Facility Reporting

• You must report facilities that you use in the provision of public transportation and you must indicate if you are partially or fully responsible to fund the renewal or replacement of any component or the facility in its entirety.
Changes from Current NTD

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative and Maintenance Facilities</td>
<td>Count of maintenance facilities, grouped by capacity</td>
<td>Individual facility inventory:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• type,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• location,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• square footage and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• condition rating</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types
  - Administrative and maintenance facilities for which you have full or partial capital replacement responsibility
# Changes from Current NTD

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Stations and Parking</td>
<td>Count of passenger stations, only.</td>
<td>Individual facility inventory:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• type,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• location,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• square footage,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• condition rating and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• capital responsibility</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types
  - All passenger stations and parking facilities that you use in the provision of public transportation
  - Condition assessments are required for facilities for which you have capital replacement responsibility.

- A bus stop or basic bus shelter is **not** a facility for asset inventory reporting
Track and Guideway Reporting

• If you operate or purchase transit service over fixed track, you must report rail track and guideway data and indicate if you are partially or fully responsible to fund the capital needs to replace all or some of its components.
## Changes from Current NTD

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail Track</td>
<td>Current reporting mixes track and guideway.</td>
<td>Track mileage by type (e.g. tangent or curved) Must also report major track elements e.g. crossovers</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types with rail fixed guideway
  - All track that you use in the provision of public transportation
Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Guideway</td>
<td>None</td>
<td>Guideway by construction type (e.g. elevated, tunnel, etc.), each divided into 10-year age buckets</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types with rail fixed guideway
  - All guideway and equipment that you use in the provision of public transportation
### Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substations</td>
<td>None</td>
<td>Count of substation structures and substation equipment, each divided into 10-year age buckets</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types with rail fixed guideway
  - Substations that you use in the provision of public transportation
## Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signals</td>
<td>None</td>
<td>Percentage of signal assets total value divided into 10-year age buckets</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types with rail fixed guideway
  - All wayside signals that you use in the provision of public transportation
Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>None</td>
<td>Percentage of total value of third rail or catenary in 10-year age buckets</td>
</tr>
</tbody>
</table>

• Applies to:
  – All reporter types with rail fixed guideway
  – All catenary/third rail that you use in the provision of public transportation
Vehicle Inventory

• Revenue Vehicles: You are required to report the revenue vehicles by fleet used to operate transit service that you report to the NTD.

• Service Vehicles: You are required to report a service vehicle inventory if you are responsible to fund its replacement.
# Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue Vehicles - Urban</td>
<td>Detailed count of vehicles by type, capacity, age, etc.</td>
<td>Addition of a useful life benchmark</td>
</tr>
<tr>
<td>Revenue Vehicles – Rural</td>
<td>Detailed count of vehicles by type, capacity, age, etc.</td>
<td>Addition of a useful life benchmark</td>
</tr>
<tr>
<td>Revenue Vehicles - 5310</td>
<td>None</td>
<td>Mirrors requirements for rural reporters</td>
</tr>
</tbody>
</table>

- **Applies to:**
  - All reporter types

  - Useful life benchmark (ULB) is provided for all vehicles used in the provision of public transportation
### Asset Inventory Changes

<table>
<thead>
<tr>
<th>Reporting Category</th>
<th>Current Reporting</th>
<th>New Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Vehicles</td>
<td>None</td>
<td>Detailed count of vehicles by type, age, etc. A useful life benchmark for each vehicle type</td>
</tr>
</tbody>
</table>

- Applies to:
  - All reporter types
  - All service vehicles for which you have capital replacement responsibility
  - “Service vehicles” include road legal vehicles and major construction equipment
  - Small shop level equipment e.g. fork lifts, golf carts etc. are not included in the inventory
Notes on Rural (5311) Reporting

• 5311 Rural Formula Grants & Tribal Transit Grants
  – Already report a revenue vehicle inventory (no change)
  – Now provide an inventory of admin/maint facilities (if relevant)
  – Now provide an inventory of passenger facilities (e.g. bus transfer stations, if relevant)
  – Performance information as applicable

• Reporting will generally be done by State DOT’s for 5311 program as Group Plan sponsor
Notes on 5310 Reporting

• 5310 Special Services to Elderly and Disabled
  – Report a basic vehicle inventory for first time
  – Report inventory of admin/maint facilities (if relevant)

• Reporting will generally be done by State DOT’s for 5310 program as Group Plan sponsor
Transit Asset Management Performance Measures

• Equipment \textit{Age}
  – Percentage of non-revenue service vehicles that have met or exceeded their ULB

• Rolling Stock \textit{Age}
  – Percentage of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)

• Infrastructure \textit{Performance}
  – Percentage of guideway directional route miles with performance restrictions by class

• Facilities \textit{Condition}
  – Percentage of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) scale \((1=\text{Poor to } 5=\text{Excellent})\)
Annual NTD Reporting Requirements for TAM

The Transit Asset Management Program requires agencies to report their performance targets to the NTD each year.

• First targets *may* be entered in January 2017 for FY2017

• After, targets are reported with each annual NTD report for the next fiscal year

• One target for each mode or vehicle type
Annual NTD Reporting Requirements for TAM Plans

On-going Requirements (beginning Report Year 2018):

1. Data Reports
   – Projected performance targets for next fiscal year – entered with annual report
   – Facilities Condition and Performance Assessments (full implementation over 3 years – 1/3 due in RY 2018, 1/3 in RY 2019 and 1/3 in RY 2020)
   – Performance Restrictions (slow zones measure)

2. Narrative Report
   – Change in condition
   – Progress toward targets
Questions

• You may find a copy of new asset inventory reporting guidance and data requirements on the NTD website: https://www.transit.dot.gov/ntd

• Additional questions may be directed to:
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  margaret.schilling@dot.gov
  202.366.2054