

**LOS ANGELES COUNTY METROPOLITAN  
TRANSPORTATION AUTHORITY**

**FEDERAL FUNDING ALLOCATION DATA**

**Transportation Operating Agency (ID# 90154)**

**Independent Accountant's Report  
On Applying Agreed-Upon Procedures**

Fiscal year ended June 30, 2018

Independent Accountant's Report  
on Applying Agreed Upon Procedures

Management and the Board of Directors  
Los Angeles County Metropolitan Transportation Authority  
Los Angeles, California

The Federal Transit Administration (FTA) has established the following standards with regard to the data reported to it in the Federal Funding Allocation Statistics form (FFA-10) of the Los Angeles County Metropolitan Transportation Authority's (the Authority) annual National Transit Database (NTD) report:

- A system is in place and maintained for recording data in accordance with NTD definitions. The correct data are being measured and no systematic errors exist.
- A system is in place to record data on a continuing basis, and the data gathering is an ongoing effort.
- Source documents are available to support the reported data and are maintained for FTA review and audit for a minimum of three years following FTA's receipt of the NTD report. The data are fully documented and securely stored.
- A system of internal controls is in place to ensure the data collection process is accurate and that the recording system and reported comments are not altered. Documents are reviewed and signed by a supervisor, as required.
- The data collection methods are those suggested by FTA or otherwise meet FTA requirements.
- The deadhead miles, computed as the difference between the reported total actual vehicle miles data and the reported total actual vehicle revenue miles (VRM) data, appear to be accurate.
- Data is consistent with prior reporting periods and other facts known about the Authority's operations.

We have applied the procedures, as described in Attachment A, to the data contained in the accompanying FFA-10 for the fiscal year ending June 30, 2018. Such procedures, which were agreed to and specified by FTA in the Declarations section of the *2018 Policy Manual* and were agreed to by the Authority management and the Board of Directors, were applied to assist the Authority in evaluating whether the Authority complied with the standards described in the first paragraph of this part and that the information included in the NTD report FFA-10 for the fiscal year ending June 30, 2018 is presented in conformity with the requirements of the *Uniform System of Accounts (USOA) and Records and Reporting System; Final Rule*, as specified in 49 CFR Part 630, Federal Register, January 15, 1993 and as presented in the *2018 Policy Manual*. The District management is responsible for the FFA-10 and compliance with NTD requirements. The sufficiency of these procedures is solely the responsibility of the parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures enumerated below either for the purpose for which this report has been requested or for any other purpose.

The procedures in Attachment A were applied separately to each of the information systems used to develop the reported actual vehicle revenue miles (VRM), fixed guideway (FG), directional route miles (DRM), passenger miles traveled (PMT), and operating expenses (OE) of the Authority for the fiscal year ending June 30, 2018 for each of the following modes:

- Motor Bus – directly operated
- Motor Bus – purchased transportation
- Rapid Bus – directly operated
- Heavy Rail – directly operated
- Light Rail – directly operated
- Vanpool – purchased transportation

In performing the procedures, except for the information identified in Attachment A to this report, no matters came to our attention that would be required to be reported to you regarding the information included in the NTD report on the FFA-10 Form for the fiscal year ending June 30, 2018. This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review, the objective of which would be the expression of an opinion or conclusion, respectively, on conformity with the requirements of the *Uniform System of Accounts (USOA) and Records and Reporting System; Final Rule*, as specified in 49 CFR Part 630, Federal Register, January 15, 1993 and as presented in the *2018 Policy Manual*. Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you. This report relates only to the information described above, and does not extend to the Authority's financial statements taken as a whole, or the forms in the Authority's NTD report other than the FFA-10 form, for any date or period.

This report is intended solely for the information and use of the Board of Directors, the management of the Authority, and the FTA and is not intended to be and should not be used by anyone other than these specified parties.



Crowe LLP

Los Angeles, California  
October 31, 2018

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June 30, 2018

**FTA Suggested Procedures:**

- a. Obtain and read a copy of written procedures related to the system for reporting and maintaining data in accordance with the NTD requirements and definitions set forth in 49 CFR Part 630, Federal Register, dated January 15, 1993 and as presented in the 2018 Policy Manual. If procedures are not written, discuss the procedures with the personnel assigned responsibility of supervising the NTD data preparation and maintenance.

**Step performed without exception.**

- b. Discuss the procedures (written or informal) with the personnel assigned responsibility of supervising the preparation and maintenance of NTD data to determine:
- The extent to which the transit agency followed the procedures on a continuous basis, and
  - Whether they believe such procedures result in accumulation and reporting of data consistent with the NTD definitions and requirements set forth in 49 CFR Part 630, Federal Register, dated January 15, 1993 and as presented in the 2018 Policy Manual.

**Step performed without exception.**

- c. Ask these same personnel about the retention policy that the transit agency follows as to source documents supporting NTD data reported on the Federal Funding Allocation Statistics form (FFA-10).

**Step performed without exception.**

- d. Based on a description of the transit agency's procedures obtained in items a and b above, identify all the source documents that the transit agency must retain for a minimum of three years. For each type of source document, select three months out of the year and determine whether the document exists for each of these periods.

**Selected source documents from all modes and from several different months in fiscal years 2017, 2016, and 2015 to ensure they were retained for a minimum of three years. We observed that the source documents were maintained for each fiscal year as required.**

- e. Discuss the system of internal controls. Inquire whether separate individuals (independent of the individuals preparing source documents and posting data summaries) review the source documents and data summaries for completeness, accuracy, and reasonableness and how often these individuals perform such reviews.

**Per inquiry with the management, the individuals reviewing source documents are independent of individuals preparing the information and the review is done on a periodic basis depending on the data being reviewed.**

- f. Select a haphazard sample of source documents and determine whether supervisors' signatures are present as required by the system of internal controls. If supervisors' signatures are not required, inquire how personnel document supervisors' review.

**Selected a haphazard sample of 40 source documents, noting the required approval on all source documents. Step performed without exception.**

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- g. Obtain the worksheets used to prepare the final data that the transit agency transcribes onto the Federal Funding Allocation Statistics form. Compare the periodic data included on the worksheets to the periodic summaries prepared by the transit agency. Test the arithmetical accuracy of the summaries.

**We obtained the worksheets and agreed the data on the worksheets to the summaries provided and verified the arithmetical accuracy of the summaries without exception for the VP-PT, HR-DO, LR-DO, MB-DO, and RB-DO modes. For the MB-PT mode, we noted that the Dodger Express vehicle revenue hours (VRH) data was not included on the FFA-10 form. As a result, 9,351 VRH's were excluded. Total VRH's reported on the FFA-10 form was 482,596.**

- h. Discuss the procedure for accumulating and recording passenger miles traveled (PMT) data in accordance with NTD requirements with transit agency staff. Inquire whether the procedure is one of the methods specifically approved in the 2018 Policy Manual.

**For the rail and van pool modes, the Authority utilized a statistical sampling method as described in FTA Circulars 2710.1A. For the motor bus modes, the Authority utilized a 100% count verification for passenger trips and an estimate of passenger miles based on a statistical sampling method as described in FTA Circulars 2710.2A.**

- i. Discuss with transit agency staff, the transit agency's eligibility to conduct statistical sampling for PMT data every third year. Determine whether the transit agency meets NTD criteria that allow transit agencies to conduct statistical samples for accumulating PMT data every third year rather than annually. Specifically:
- a. According to the 2010 Census, the public transit agency serves an urbanized area (UZA) of less than 500,000 population.
  - b. The public transit agency directly operates fewer than 100 revenue vehicles in all modes in annual maximum revenue service (VOMS) (in any size UZA).
  - c. Service purchased from a seller is included in the transit agency's NTD report.
  - d. For transit agencies that meet one of the above criteria, review the NTD documentation for the most recent mandatory sampling year (2018) and determine that statistical sampling was conducted and meets the 95% confidence and +10% precision requirements.
  - e. Determine how the transit agency estimated annual PMT for the current report year.

**Per inquiry with the Authority management, the Authority does not meet any of the three criteria that allows transit agencies to conduct statistical samples for accumulating passenger mile data every third year. Therefore, the Authority conducts statistical sampling annually as described in procedure h.**

- j. Obtain a description of the sampling procedure for estimation of PMT data used by the transit agency. Obtain a copy of the transit agency's working papers or methodology used to select the actual sample of runs for recording PMT data. If the transit agency used average trip length, determine that the universe of runs was the sampling frame. Determine that the methodology used to select specific runs from the universe resulted in a haphazard selection of runs. If the transit agency missed a selected sample run, determine that a replacement sample run was haphazard. Determine that the transit agency followed the stated sampling procedure.

**Step performed without exception.**

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- k. Select a haphazard sample of the source documents for accumulating PMT data and determine that the data are complete (all required data are recorded) and that the computations are accurate. Select a haphazard sample of the accumulation periods and re-compute the accumulations for each of the selected periods. List the accumulation periods that were tested. Test the arithmetical accuracy of the summarization.

**Selected a haphazard sample of 128 source documents across all modes from all twelve months in fiscal year 2018, used for accumulating passenger miles traveled (PMT) data and determined they were complete and mathematically accurate. We tested the average trip length and the total trips for each of the samples and recomputed the accumulations for each period. Step performed without exception.**

- l. Discuss the procedures for systematic exclusion of charter, school bus, and other ineligible vehicle miles from the calculation of actual vehicle revenue miles with transit agency staff and identify that stated procedures are followed. Select a haphazard sample of source documents used to record charter bus service and test the arithmetical accuracy of the computations.

**Step performed without exception.**

- m. For actual vehicle revenue miles (VRM) data, document the collection and recording methodology and identify that deadhead miles are systematically excluded from the computation. This is accomplished as follows:

- If actual VRMs are calculated from schedules, document the procedures used to subtract missed trips. Select a haphazard sample of the days that service is operated, and re-compute the daily total of missed trips and missed VRMs. Test the arithmetical accuracy of the summary.
- If actual VRMs are calculated from hubodometers, document the procedures used to calculate and subtract deadhead mileage. Select a haphazard sample of the hubodometer readings and determine that the stated procedures for hubodometer deadhead mileage adjustments are applied as prescribed. Test the arithmetical accuracy of the summary of intermediate accumulations.
- If actual VRMs are calculated from vehicle logs, select haphazard samples of the vehicle logs and determine that the deadhead mileage has been correctly computed in accordance with FTA definitions.

**Vehicle logs are used to compute the VRM data for non-fixed routes. For fixed routes, the Authority uses monthly services reports and daily loss service records to record any missed trips. The VP-PT mode does not have any deadhead miles. Selected a haphazard sample of 114 source documents across all modes and recalculated the VRMs for the sample of trips, excluding deadhead miles. Step performed without exception.**

- n. For rail modes, obtain and read the recording and accumulation sheets for actual VRM's and identify that locomotive miles are not included in the computation.

**Step performed without exception. There are no locomotives.**

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- o. If fixed guideway or High Intensity Bus directional route miles (FG or HIB DRM) are reported, interview the person responsible for maintaining and reporting the NTD data whether the operations meet the FTA definition of fixed guideway (FG) or High Intensity Bus (HIB) in that the service is:
- Rail, trolleybus (TB), ferryboat (FB), or aerial tramway (TR) or
  - Bus (MB) service operating over exclusive or controlled access rights-of-way (ROW), and
    - Access is restricted
    - Legitimate need for restricted access is demonstrated by peak period level of service D or worse on parallel adjacent highway, and
    - Restricted access is enforced for freeways; priority lanes used by other high occupancy vehicles (HOV) (i.e., vanpools (VP), carpools) must demonstrate safe operation (see Fixed Guideway Segments form (P-40))
    - High Occupancy / Toll (HO/T) lanes meet FHWA requirements for traffic flow and use of toll revenues, and that the transit agency has provided to NTD a copy of the State's certification to the US Secretary of Transportation that it has established a program for monitoring, assessing and reporting on the operation of the HOV facility with HO/T lanes.

**Step performed without exception.**

- p. Discuss the measurement of FG and HIB DRM with the person reporting NTD data and determine that the he or she computed mileage in accordance with the FTA definitions of FG/HIB and DRM. Inquire of any service changes during the year that resulted in an increase or decrease in DRMs. If a service change resulted in a change in overall DRMs, re-compute the average monthly DRMs, and reconcile the total to the FG/HIB DRM reported on the Federal Funding Allocation Statistics form.

**Per inquiry of management, no new FG segments were added in fiscal year 2018.**

- q. Inquire if any temporary interruptions in transit service occurred during the report year. If these interruptions were due to maintenance or rehabilitation improvements to a FG segment(s), the following apply:
- Report DRMs for the segment(s) for the entire report year if the interruption is less than 12 months in duration. Report the months of operation on the FG/HIB segments form as 12. The transit agency should document the interruption.
  - If the improvements cause a service interruption on the FG-DRMs lasting more than 12 months, the transit agency should contact their validation analyst to discuss. FTA will make a determination on how the DRMs should be reported.

**Per inquiry of management there were no interruptions in service during fiscal year 2018 that would require a change in reporting.**

- r. Measure FG/HIB DRM from maps or by retracing route.

**We measured all of the FG/HIB maps. Step performed without exception.**

- s. Discuss whether other public transit agencies operate service over the same FG/HIB as the transit agency. If yes, determine that the transit agency coordinated with the other transit agency (or agencies) such that the DRMs for the segment of FG/HIB are reported only once to the NTD on the Federal Funding Allocation form. Each transit agency should report the actual VRM, PMT, and OE for the service operated over the same FG/HIB.

**Per inquiry of management, the Authority is the approved operator for all of their FG and the Authority is reporting their actual VRM, PMT, and OE for their services. Step performed without exception.**

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- t. Review the FG/HIB segments form. Discuss the Agency Revenue Service Start Date for any segments added in the 2018 report year with the persons reporting NTD data. This is the commencement date of revenue service for each FG/HIB segment. Determine that the date reported is the date that the agency began revenue service. This may be later than the Original Date of Revenue Service if the transit agency is not the original operator. If a segment was added for the 2018 report year, the Agency Revenue Service Date must occur within the transit agency's 2018 fiscal year. Segments are grouped by like characteristics. Note that for apportionment purposes, under the State of Good Repair (§5337) and Bus and Bus Facilities (§5339) programs, the 7-year age requirement for fixed guideway/High Intensity Bus segments is based on the report year when the segment is first reported by any NTD transit agency. This pertains to segments reported for the first time in the current report year. Even if a transit agency can document an Agency Revenue Service Start Date prior to the current NTD report year, the FTA will only consider segments continuously reported to the NTD.

**Per inquiry of management, no new FG segments were added in fiscal year 2018.**

- u. Compare operating expenses with audited financial data after reconciling items are removed.

**Step performed without exception.**

- v. If the transit agency purchases transportation (PT) services, interview the personnel reporting the NTD data on the amount of PT-generated fare revenues. The PT fare revenues should equal the amount reported on the Contractual Relationship form (B-30).

**We agreed the fare revenue for the vanpool and motor bus PT without exception.**

- w. If the transit agency's report contains data for PT services and assurances of the data for those services is not included, obtain a copy of the Independent Auditor Statement for Federal Funding Allocation (IAS-FFA) data of the PT service. Attach a copy of the statement to the report. Note as an exception if the transit agency does not have an Independent Auditor Statement for the PT data.

**We inquired to management and noted that the report does include PT from private operators, but that an Independent Auditor Statement is not required since the Authority is a public transportation provider and the PT expenditures are included on the B-30 form of the NTD.**

- x. If the transit agency purchases transportation services, obtain a copy of the PT contract and determine that the contract specifies the public transportation services to be provided; the monetary consideration obligated by the transit agency or governmental unit contracting for the service; the period covered by the contract (and that this period overlaps the entire, or a portion of, the period covered by the transit agency's NTD report); and is signed by representatives of both parties to the contract. Interview the person responsible for retention of the executed contract, and determine that copies of the contracts are retained for three years.

**We obtained a copy of the PT contract for each provider and noted that the contract included a description of the services to be provided, the monetary consideration obligated by the Authority for the service and the period covered by the contract and that this period is the same as, or a portion of, the period covered by the Authority's NTD report; and is signed by representatives of both parties to the contract. Management stated that copies of the executed contracts are retained for the last three years, as applicable.**



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- y. If the transit agency provides service in more than one UZA, or between an UZA and a non-UZA, inquire of the procedures for allocation of statistics between UZAs and non-UZAs. Obtain and review the FG segment worksheets, route maps, and urbanized area boundaries used for allocating the statistics, and determine that the stated procedure is followed and that the computations are correct.

**Per management, the Authority provides most of their services in one UZA and therefore it is all allocated to that one UZA. Additionally, all of the services provided are in urbanized areas and allocations to non-urbanized areas are not required, therefore the procedure is not applicable.**

- z. Compare the data reported on the Federal Funding Allocation Statistics Form to data from the prior report year and calculate the percentage change from the prior year to the current year. For actual VRM, PMT or OE data that have increased or decreased by more than 10%, or FG DRM data that have increased or decreased. Interview transit agency management regarding the specifics of operations that led to the increases or decreases in the data relative to the prior reporting period.

**We compared and agreed the data reported on the Federal Funding Allocation Statistics form (Form FFA-10) to comparable data for the prior report year and calculated the percentage change from the prior year to the current year. There were no variances greater than 10% in any mode except for VP-PT and RB-DO. In those two modes, we inquired to the Authority and documented the explanations for the variances.**

- aa. The auditor should document the specific procedures followed, documents reviewed, and tests performed in the work papers. The work papers should be available for FTA review for a minimum of three years following the NTD report year. The auditor may perform additional procedures, which are agreed to by the auditor and the transit agency, if desired. The auditor should clearly identify the additional procedures performed in a separate attachment to the statement as procedures that were agreed to by the transit agency and the auditor but not by the FTA.

**Step performed without exception.**