



Planning, Development and Real Estate Committee

Board Information Item IV-A

January 10, 2008

7000 Series Railcar Report

**Washington Metropolitan Area Transportation Authority
Board Action/Information Summary**

Action
 Information

MEAD Number:

Resolution:
 Yes No

PURPOSE

To provide the Board an update on the 7000-series railcar concept status.

DESCRIPTION

The 7000-series railcar is the next-generation fleet in development for use throughout WMATA's rail network. This fleet design is focusing on improved amenities for passengers such as redesigned seating, audio announcement systems, information technology, and passenger hold points throughout the railcar interior. For the technology portion of the design, more reliable service equipment platforms are being reviewed. Examples of system technology under review would be propulsion systems, braking systems, door systems, climate control, security cameras, and a data network throughout the railcar system and train set which would help link systems for improved operation. The data network will not only improve reliability and performance of the equipment overall, but will also place more information at the operator level to evaluate and resolve equipment operation issues.

FUNDING IMPACT

N/A

RECOMMENDATION

None.



7000 Series Railcar Overview

Presented to the Board of Directors:

**Planning, Development and Real Estate
Committee**

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7000 Series vs. 6000 Series Major Changes to the Exterior



- Stainless steel car body
- Doors closer to center to balance passenger load
- America's Metro logo - No paint stripe
- Retractable electric coupler head
- Rubber inter-car barriers



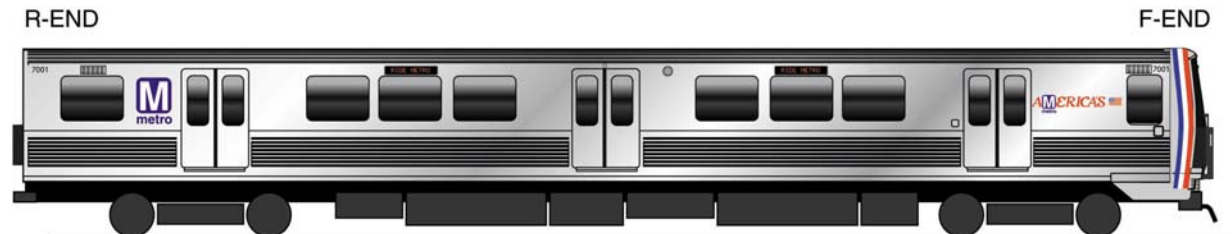
7k Seating Plan and Side Elevation



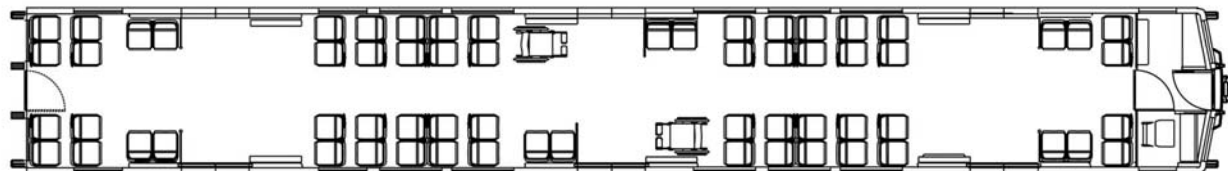
7000 EXTERIOR ILLUSTRATION A-CAR



7000 INTERIOR FLOOR PLAN A-CAR



7000 EXTERIOR ILLUSTRATION B-CAR



7000 INTERIOR FLOOR PLAN B-CAR



7000 Series vs. 6000 Series Major Changes to the Interior

- New seat with stainless steel pan and fabric covering
- Resilient flooring
- Spring grab handles





7000 Series vs. 6000 Series Additional Features

- Active route maps
- LCD displays
- CCTV cameras
- No seat wells





7000 Series vs. 6000 Series Other Significant Changes

- Advanced Technology Railcar Design
 - Computer-based train communications network (touch screen controls)
 - Exterior emergency door activation
 - Individual doorway recycle
 - Active route map integrated with passenger information system
 - Video surveillance system
 - Exploring alternatives to meet capacity issues