SLRV ENGINEERING TESTS AT DEPARTMENT OF TRANSPORTATION
TRANSPORTATION TEST CENTER
FINAL TEST REPORT
Volume IV - Data Logs

Prepared by
Boeing Vertol Company
Surface Transportation Systems
Philadelphia, PA 19142

JUNE 1979
FINAL REPORT

Prepared for
U.S. DEPARTMENT OF TRANSPORTATION
URBAN MASS TRANSPORTATION ADMINISTRATION
Office of Technology Development and Deployment
Office of Rail and Construction Technology
Washington, D.C. 20590
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**Title and Subtitle**
SLRV Engineering Tests at Department of Transportation
Transportation Test Center
Volume IV -- Data Logs

**Abstract**
In May 1973, Boeing Vertol Company was awarded a contract to build Light Rail Vehicles to a specification sponsored by Department of Transportation's Urban Mass Transportation Administration, and identified a Standard Light Rail Vehicle (SLRV).

Engineering testing on the SLRV was conducted by Boeing Vertol Company in accordance with the General Vehicle Test Plan GSP-064 at the Transportation Test Center, Pueblo, Colorado. The tests were conducted in conjunction with the Qualification Testing of three SLRV Production Pilot Cars (SF-0002, SF-0003, and MB-0002).

This report presents the results of the series of tests conducted in accordance with GSP-064. Volume I contains a description of the SLRV Test Program and the vehicle, and a summary of the test results; Volume II, Performance and Power Consumption Test Data; Volume III, Ride Quality, Noise, and Radio Frequency Interference Test Data; and Volume IV, a log of all tests collated by test objective and test vehicle.

**Key Words**
General Vehicle Tests
Light Rail Vehicle
Transportation Test Center

**Distribution Statement**
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### METRIC CONVERSION FACTORS

#### Approximate Conversions to Metric Measures

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| **AREA** |              |             |         |
| in²      | square inches | 0.0646     | square centimeters (cm²) |
| ft²      | square feet   | 0.09       | square meters (m²) |
| yd²      | square yards  | 0.84       | square meters (m²) |
| ac       | acres         | 0.4         | hectares (ha) |

| **MASS (weight)** |              |             |         |
| lb        | pounds        | 0.454       | kilograms (kg) |
| sh        | short tons    | 0.91       | long tons |

| **VOLUME** |              |             |         |
| tsp       | teaspoons     | 0.5         | milliliters (ml) |
| Tbsp      | tablespoons    | 15          | milliliters (ml) |
| fl oz     | fluid ounces  | 0.59       | milliliters (ml) |
| pt        | pints         | 0.47        | liters (l) |
| qt        | quarts        | 0.95        | liters (l) |
| gal       | gallons       | 3.8         | liters (l) |
| yd³       | cubic yards   | 0.76        | cubic meters (m³) |

| **TEMPERATURE (exact)** |              |             |         |
| °F      | Fahrenheit    | -17.8       | Celsius (°C) |
| °C      | Celsius       | -20.0       | Fahrenheit (°F) |

1 in = 2.54 cm (exactly). For other exact conversions and more detailed tables, see NBS Manual 296.

### Approximate Conversions from Metric Measures

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| **AREA** |              |             |         |
| cm²      | square centimeters | 0.0015      | square inches |
| m²      | square meters   | 0.001       | square yards |
| ha      | hectares       | 0.00105     | square miles |

| **MASS (weight)** |              |             |         |
| g        | grams         | 0.035       | ounces |
| kg       | kilograms     | 2.2         | pounds |

| **VOLUME** |              |             |         |
| ml       | milliliters   | 0.034       | fluid ounces |
| l        | liters        | 1.094       | pints |
| pt       | pints         | 0.624       | quarts |
| gal      | gallons       | 3.785       | quarts |
| yd³      | cubic yards   | 0.764       | cubic meters |

| **TEMPERATURE (exact)** |              |             |         |
| °C      | Celsius       | 180         | Fahrenheit (°F) |
| °F      | Fahrenheit    | 32          | Celsius (°C) |

Units of Weight and Measures. Print $2.25. 50 Copying No. 129 10 296.
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# SLRV Engineering Test Run Log

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### Engineering Test Run Log

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- Tape A-7, B-7
- Welded Rail
- Concrete Ties
## SLRV Engineering Test Run Log

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For 3/2/76, the notes indicate that the test was performed on the west side of the track. For 3/3/76, the notes state that the west side of the track was used. For 3/8/76, the notes indicate that no slip/water only was used.
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- Test types include SLIP / SLIDE and FRICION DISK.
- "P" column indicates percentage.
- "MAX on INSTL. SPEED" indicates maximum speed in units of 10.
- "CAR NO." and "LINK" columns are not filled.
- "RADIO VOLTS" column includes values 5.
- "NOTES" column includes: Tape A-5, B-5, All trucks not sliding 2 wheels, TA truck, Tape A-5, B-5, Tape A-5, B-5, Tape A-5, B-5.
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Tape A-16, B-16

B-5
# SLRV ENGINEERING TEST RUN LOG

**TYPE OF TEST:** PERFORMANCE & POWER CONSUMPTION

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**POWER CONSUMPTION**

**Duty Cycle**

1. 100%
2. 80%
3. 60%
4. 40%
5. 20%
6. 10%

**Drift Test**

1. 100%
2. 80%
3. 60%
4. 40%
5. 20%
6. 10%
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B-7
## SLRV Engineering Test Run Log

**Type of Test:** Performance & Power Consumption  
**Sheet 8 of 9**

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**Notes:**
- Tape A-15, B-15
- Low speed range
### SLRV Engineering Test Run Log

#### Sheet 2 of 9

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B-9
C. TOTAL TEST LOG ON CAR MB0002
## SLAV ENGINEERING TEST RUN LOG

**Type of Test:** Performance, Noise & RFI  
**Sheet 1 of 5**

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**Power Supply:** Shorted

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APPENDIX I – DATA LOG

Collated by GVTP Test Number

Referencing – SLRV Test Number/Record Number

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APPENDIX II – DATA LOG

Collated by Magnetic Tape Number

Referencing
- SLRV Test Number/Record
- GVTP Test Number
- IHRIG Time Identification*

*Certain runs have no identification made for IHRIG time of calibration information. For these runs calibration data precedes the test run but is not collated with an IHRIG time.
## MAG TAPE DATA LOG
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