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ARRANGEMENT OF BIBLIOGRAPHY

This bibliography lists technical reports issued by the John A. Volpe National Transportation Systems Center from 1980-1990. It supersedes the previous listing, Bibliography of Technical Reports : 1980-1986 (dated December 1987). The bibliography is arranged by sponsoring agency and within each agency by DOT-TSC report number. For each entry, all of some of the following information is provided:

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Title

Authors

Performing organization

DOT (or other) report number

NTIS accession number

Date of publication

Title, author, subject, performing organization and report number indexes are located at the end.

All reports with an NTIS accession number are available from the National Technical Information Service, Springfield, VA 22161. A limited number of reports are available free of charge from the Technical Reference Center, John A. Volpe National Transportation Systems Center, Kendall Square, Cambridge, MA 02142-1093.

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DOT-TSC-USCG-80-1

Simulation of Coast Guard Vessel Traffic Service Operations by Model and Experiment

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1980

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- o Holbrook, A. P. DOT-TSC-UMTA-81-51
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- o Kulhawy, F. H. DOT-TSC-UMTA-83-54
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- o Longinow, Anatole DOT-TSC-UMTA-80-17.3

- o Looby, Lawrence F. DOT-TSC-NHTSA-81-20
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- o Markos, Stephanie H.
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- o Pantano, Philip J. DOT-TSC-FAA-81-16
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- o Parks, P. DOT-TSC-UMTA-86-8
- o Parness, Barbara M. DOT-TSC-UMTA-82-51
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- o Pickerell, Don DOT-TSC-UMTA-89-6
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- o CG-D-14-78 DOT-TSC-USCG-81-2
- o CG-D-17-83 DOT-TSC-CG-83-2
- o CG-D-25-84 DOT-TSC-CG-83-6
- o CG-D-26-80 DOT-TSC-USCG-80-8
- o CG-D-27-80 DOT-TSC-USCG-80-7
- o CG-D-29-85.1 DOT-TSC-CG-85-3.1
- o CG-D-29-85.2 DOT-TSC-CG-85-3.2
- o CG-D-29-85.3 DOT-TSC-CG-85-3.3
- o CG-D-38-82-1 DOT-TSC-USCG-82-2.1
- o CG-D-38-82-2 DOT-TSC-USCG-82-2.2
- o CG-D-52-80.1 DOT-TSC-CG-80-4.1
- o CG-D-52-80.2 DOT-TSC-CG-80-4.2
- o CG-D-54-80 DOT-TSC-USCG-80-1
- o CG-D-68-81 DOT-TSC-USCG-81-4
- o CG-D-69-81 DOT-TSC-USCG-81-5
- o CG-D-70-80 DOT-TSC-USCG-80-5

o	CG-M-4-49	DOT-TSC-CG-89-2
o	CG-N-1-82	DOT-TSC-CG-82-7
o	CG-N-1-84	DOT-TSC-CG-84-1
o	CG-N-1-86	DOT-TSC-CG-85-4
o	CG-N-1-87.1	DOT-TSC-CG-87-2.1
o	CG-N-1-87.2	DOT-TSC-CG-87-2.2
o	CG-N-1-88	DOT-TSC-CG-88-2
o	CG-N-1-90	DOT-TSC-CG-90-1
o	CG-N-2-82	DOT-TSC-CG-83-4
o	CG-N-2-82	DOT-TSC-CG-82-6
o	CG-N-2-86	DOT-TSC-CG-86-1
o	CG-N-3-86	DOT-TSC-CG-86-2
o	CG-NRN-1-81	DOT-TSC-USCG-81-1
o	CG-W-001-82	DOT-TSC-USCG-82-1
o	DOD-4650	DOT-TSC-RSPA-88-4
o	DOD-4650.4	DOT-TSC-RSPA-84-8
o	DOD-4650.4	DOT-TSC-RSPA-87-3
o	DOD-4650.4-P, v. 1	DOT-TSC-RSPA-80-16.1
o	DOD-4650.4-P, v. 2	DOT-TSC-RSPA-80-16.2
o	DOD-4650.4-P, v. 3	DOT-TSC-RSPA-80-16.3
o	DOD-4650.4-P, v. 4	DOT-TSC-RSPA-80-16.4

o	DOD-4650.4-P-1	DOT-TSC-RSPA-81-12.1
o	DOD-4650.4-P-2	DOT-TSC-RSPA-81-12.2
o	DOD-4650.4-P-3	DOT-TSC-RSPA-81-12.3
o	DOD-4650.4-P-4	DOT-TSC-RSPA-81-12.4
o	DOD-VA846-88-1	DOT-TSC-RSPA-88-1
o	DOT/FAA/AM-88/5	DOT-TSC-FAA-88-5
o	DOT/FAA/ASF-100-85/01	DOT-TSC-FAA-85-6
o	DOT/FAA/CP-87-3	DOT-TSC-FAA-87-3
o	DOT/FAA/CP/88-4	DOT-TSC-FAA-88-2
o	DOT/FAA/CP/89-4	DOT-TSC-FAA-89-1
o	DOT/FAA/CT-86/1	DOT-TSC-FAA-86-2
o	DOT/FAA/ES-85/4	DOT-TSC-FAA-85-4
o	DOT/FAA/FS-88/1	DOT-TSC-FAA-87-4
o	DOT/FAA/PM-83/20	DOT-TSC-FAA-82-6
o	DOT/FAA/PM-83/29	DOT-TSC-FAA-83-1
o	DOT/FAA/PM-85/21	DOT-TSC-FAA-85-8
o	DOT/FAA/SA-90/4	DOT-TSC-FAA-90-1
o	DOT/FAA/VS-84/1	DOT-TSC-FAA-85-1
o	DOT/OST/P-34/87/058	DOT-TSC-OST-87-2
o	DOT/OST/P34-86/037	DOT-TSC-OST-86-2

o	DOT-HS 805 565	DOT-TSC-NHTSA-80-26.2
o	DOT-HS-805 238	DOT-TSC-NHTSA-79-56
o	DOT-HS-805 263	DOT-TSC-NHTSA-80-2.1
o	DOT-HS-805 264	DOT-TSC-NHTSA-80-2.2
o	DOT-HS-805 481	DOT-TSC-NHTSA-80-16
o	DOT-HS-805 482	DOT-TSC-NHTSA-80-22
o	DOT-HS-805 487	DOT-TSC-NHTSA-80-14
o	DOT-HS-805 488	DOT-TSC-NHTSA-80-15
o	DOT-HS-805 538	DOT-TSC-NHTSA-80-7
o	DOT-HS-805 540	DOT-TSC-NHTSA-80-24
o	DOT-HS-805 551	DOT-TSC-NHTSA-80-27
o	DOT-HS-805 565	DOT-TSC-NHTSA-80-26.1
o	DOT-HS-805 567	DOT-TSC-NHTSA-80-23
o	DOT-HS-805 568	DOT-TSC-NHTSA-80-2.3
o	DOT-HS-805 572	DOT-TSC-NHTSA-80-21.1
o	DOT-HS-805 573	DOT-TSC-NHTSA-80-21.2
o	DOT-HS-805 574	DOT-TSC-NHTSA-80-21.3
o	DOT-HS-805 575	DOT-TSC-NHTSA-80-21.4
o	DOT-HS-805 576	DOT-TSC-NHTSA-80-21.5
o	DOT-HS-805 593	DOT-TSC-NHTSA-80-29
o	DOT-HS-805 641	DOT-TSC-NHTSA-80-28

- o DOT-HS-805 665 DOT-TSC-NHTSA-80-30
- o DOT-HS-805 665 DOT-TSC-NHTSA-80-31
- o DOT-HS-805 667 DOT-TSC-NHTSA-80-32
- o DOT-HS-805 668 DOT-TSC-NHTSA-80-33
- o DOT-HS-805 669 DOT-TSC-NHTSA-80-34
- o DOT-HS-805 707 DOT-TSC-NHTSA-80-1
- o DOT-HS-805 715 DOT-TSC-NHTSA-81-1
- o DOT-HS-805 731 DOT-TSC-NHTSA-81-2
- o DOT-HS-805 813 DOT-TSC-NHTSA-81-7
- o DOT-HS-805 814 DOT-TSC-NHTSA-81-6
- o DOT-HS-805 830 DOT-TSC-NHTSA-81-11
- o DOT-HS-805 831 DOT-TSC-NHTSA-81-9
- o DOT-HS-805 832 DOT-TSC-NHTSA-81-10
- o DOT-HS-805 833 DOT-TSC-NHTSA-81-13
- o DOT-HS-805 873 DOT-TSC-NHTSA-81-18
- o DOT-HS-805 874 DOT-TSC-NHTSA-81-12
- o DOT-HS-805 892 DOT-TSC-NHTSA-81-17
- o DOT-HS-805 895 DOT-TSC-NHTSA-81-8
- o DOT-HS-805 899 DOT-TSC-NHTSA-81-16
- o DOT-HS-805 910 DOT-TSC-NHTSA-81-14.1
- o DOT-HS-805 911 DOT-TSC-NHTSA-81-14.2

o	DOT-HS-805 912	DOT-TSC-NHTSA-81-14.3
o	DOT-HS-805 913	DOT-TSC-NHTSA-81-20
o	DOT-HS-805 975	DOT-TSC-NHTSA-81-21.1
o	DOT-HS-805 976	DOT-TSC-NHTSA-81-21.2
o	DOT-HS-806 029	DOT-TSC-NHTSA-81-24
o	DOT-HS-806 037	DOT-TSC-NHTSA-81-23.1
o	DOT-HS-806 038	DOT-TSC-NHTSA-81-23.2
o	DOT-HS-806 039	DOT-TSC-NHTSA-81-23.3
o	DOT-HS-806 040	DOT-TSC-NHTSA-81-23.4
o	DOT-HS-806 047	DOT-TSC-NHTSA-81-22
o	DOT-HS-806 215	DOT-TSC-NHTSA-82-6
o	DOT-HS-806 216	DOT-TSC-NHTSA-82-1.1
o	DOT-HS-806 217	DOT-TSC-NHTSA-82-1.2
o	DOT-HS-806 218	DOT-TSC-NHTSA-82-1.3
o	DOT-HS-806 219	DOT-TSC-NHTSA-82-1.4
o	DOT-HS-806 220	DOT-TSC-NHTSA-82-1.5
o	DOT-HS-806 221	DOT-TSC-NHTSA-82-1.6
o	DOT-HS-806 222	DOT-TSC-NHTSA-82-1.7
o	DOT-HS-806 307	DOT-TSC-NHTSA-82-8
o	DOT-HS-806 392	DOT-TSC-NHTSA-82-11.1
o	DOT-HS-806 393	DOT-TSC-NHTSA-82-11.2

- o DOT-HS-806 394 DOT-TSC-NHTSA-82-11.3
- o DOT-HS-806 395 DOT-TSC-NHTSA-82-11.4
- o DOT-HS-806 396 DOT-TSC-NHTSA-82-9
- o DOT-HS-806 398 DOT-TSC-NHTSA-82-7
- o DOT-HS-806 442 DOT-TSC-NHTSA-83-2
- o DOT-HS-806 443 DOT-TSC-NHTSA-83-3
- o DOT-HS-806 494 DOT-TSC-NHTSA-83-5
- o DOT-HS-806 525 DOT-TSC-NHTSA-84-1
- o DOT-HS-806 593 DOT-TSC-NHTSA-84-3
- o DOT-HS-806 743 DOT-TSC-NHTSA-85-2
- o DOT-HS-806 744 DOT-TSC-NHTSA-85-1
- o DOT-HS-806 813 DOT-TSC-NHTSA-85-3
- o DOT-HS-806 893 DOT-TSC-NHTSA-82-11.2
- o DOT-HS-806 960 DOT-TSC-NHTSA-85-4
- o DOT-HS-806 961 DOT-TSC-NHTSA-85-5
- o DOT-HS-806 962 DOT-TSC-NHTSA-86-1
- o DOT-HS-807 054 DOT-TSC-NHTSA-86-2
- o DOT-HS-807 055 DOT-TSC-NHTSA-86-3
- o DOT-HS-807 082 DOT-TSC-NHTSA-87-1
- o DOT-HS-807 083 DOT-TSC-NHTSA-87-3
- o DOT-HS-807 158 DOT-TSC-NHTSA-86-6

o	DOT-HS-807 159	DOT-TSC-NHTSA-86-5
o	DOT-HS-807 218	DOT-TSC-NHTSA-87-4
o	DOT-HS-807 312	DOT-TSC-NHTSA-88-2
o	DOT-HS-807 315	DOT-TSC-NHTSA-88-1
o	DOT-HS-807 367	DOT-TSC-NHTSA-89-1
o	DOT-HS-807 370	DOT-TSC-NHTSA-88-3
o	DOT-HS-807 370	DOT-TSC-NHTSA-88-3
o	DOT-HS-807 446	DOT-TSC-NHTSA-89-3
o	DOT-HS-807 570	DOT-TSC-NHTSA-90-1
o	FAA-AEE-80-22	DOT-TSC-FAA-80-10
o	FAA-ASF-81-6	DOT-TSC-FAA-81-22
o	FAA-ASF-81-7	DOT-TSC-FAA-81-25
o	FAA-ASF-81-8	DOT-TSC-FAA-81-21
o	FAA-EE-81-13	DOT-TSC-FAA-81-13
o	FAA-EM-79-16	DOT-TSC-FAA-79-24
o	FAA-EM-80-2	DOT-TSC-FAA-80-3
o	FAA-EM-80-8-1	DOT-TSC-FAA-82-4.1
o	FAA-EM-80-8-2	DOT-TSC-FAA-82-4.2
o	FAA-EM-80-8-3	DOT-TSC-FAA-82-4.3
o	FAA-EM-80-8-4	DOT-TSC-FAA-82-4.4

- o FAA-EM-80-8-5 DOT-TSC-FAA-82-4.5
- o FAA-EM-80-9 DOT-TSC-FAA-80-18
- o FAA-EM-80-11 DOT-TSC-FAA-80-15.1
- o FAA-EM-80-12 DOT-TSC-FAA-80-15.2
- o FAA-EM-81-5 DOT-TSC-FAA-81-9
- o FAA-EM-81-18 DOT-TSC-FAA-81-20
- o FAA-EM-82-13 DOT-TSC-FAA-81-18
- o FAA-MS-80-5 DOT-TSC-FAA-80-6
- o FAA-MS-81-1 DOT-TSC-FAA-81-1
- o FAA-MS-81-2 DOT-TSC-FAA-81-6
- o FAA-MS-83-1 DOT-TSC-FAA-83-2
- o FAA-MS-83-5 DOT-TSC-FAA-83-3
- o FAA-MS-84-5 DOT-TSC-FAA-84-3
- o FAA-MS-85-1 DOT-TSC-FAA-85-7
- o FAA-MS-85-5 DOT-TSC-FAA-85-3
- o FAA-MS-86-5 DOT-TSC-FAA-87-2
- o FAA-MS-87-5 DOT-TSC-FAA-87-5
- o FAA-MS-88-5 DOT-TSC-FAA-88-6
- o FAA-RD-79-103.2 DOT-TSC-FAA-79-18.2
- o FAA-RD-79-103.3 DOT-TSC-FAA-79-18.3
- o FAA-RD-79-103.4 DOT-TSC-FAA-79-18.4

o	FAA-RD-80-13	DOT-TSC-FAA-80-4
o	FAA-RD-80-44	DOT-TSC-FAA-80-2
o	FAA-RD-80-53	DOT-TSC-FAA-80-8
o	FAA-RD-80-62.1	DOT-TSC-FAA-80-11.1
o	FAA-RD-80-76	DOT-TSC-FAA-80-9
o	FAA-RD-80-108	DOT-TSC-FAA-80-16
o	FAA-RD-80-109	DOT-TSC-FAA-80-20
o	FAA-RD-80-126	DOT-TSC-FAA-80-14
o	FAA-RD-80-133	DOT-TSC-FAA-80-21
o	FAA-RD-81-41	DOT-TSC-FAA-81-8
o	FAA-RD-81-42	DOT-TSC-FAA-81-2
o	FAA-RD-81-43	DOT-TSC-FAA-81-10
o	FAA-RD-81-51	DOT-TSC-FAA-81-5
o	FAA-RD-81-58	DOT-TSC-FAA-81-12
o	FAA-RD-81-66	DOT-TSC-FAA-81-16
o	FAA-RD-81-74	DOT-TSC-FAA-81-14
o	FAA-RD-81-89	DOT-TSC-FAA-81-17
o	FAA-RD-81-94	DOT-TSC-FAA-82-1
o	FAA-RD-81-99	DOT-TSC-FAA-81-19

- o FAA-RD-81-112 DOT-TSC-FAA-81-24
- o FAA-RD-82-50 DOT-TSC-FAA-82-5
- o FHWA-IP-86-11 DOT-TSC-FHWA-85-2
- o FHWA/PL-83/014 DOT-TSC-FHWA-83-1
- o FHWA/RD-83/092 DOT-TSC-FHWA-84-1
- o FHWA/RD-85/015 DOT-TSC-FHWA-85-1
- o FHWA/RD-90/105 DOT-TSC-FHWA-90-1
- o FRA-RRS-80-003 DOT-TSC-FRA-80-11
- o FRA-RRS-80-004 DOT-TSC-FRA-80-22
- o FRA-RRS-80-005 DOT-TSC-FRA-80-19
- o FRA-RRS-80-04 DOT-TSC-FRA-80-22
- o FRA-RRS-81-001 DOT-TSC-FRA-80-20
- o FRA/ORD-78/20.2 DOT-TSC-FRA-78-1.2
- o FRA/ORD-80/08 DOT-TSC-FRA-80-1
- o FRA/ORD-80/20 DOT-TSC-FRA-80-8
- o FRA/ORD-80/21 DOT-TSC-FRA-80-9
- o FRA/ORD-80/58 DOT-TSC-FRA-80-58
- o FRA/ORD-80/70 DOT-TSC-FRA-80-21
- o FRA/ORD-80/80 DOT-TSC-FRA-80-25
- o FRA/ORD-80/81 DOT-TSC-FRA-80-18
- o FRA/ORD-80/92 DOT-TSC-FRA-80-17

o	FRA/ORD-81/11	DOT-TSC-FRA-81-1
o	FRA/ORD-81/13	DOT-TSC-FRA-81-4
o	FRA/ORD-81/16.1	DOT-TSC-FRA-81-3.1
o	FRA/ORD-81/16.2	DOT-TSC-FRA-81-3.2
o	FRA/ORD-81/16.3	DOT-TSC-FRA-81-3.3
o	FRA/ORD-81/16.4	DOT-TSC-FRA-81-3.4
o	FRA/ORD-81/16.5	DOT-TSC-FRA-81-3.5
o	FRA/ORD-81/26	DOT-TSC-FRA-81-7
o	FRA/ORD-81/28.1	DOT-TSC-FRA-81-15.1
o	FRA/ORD-81/28.2	DOT-TSC-FRA-81-15.2
o	FRA/ORD-81/29	DOT-TSC-FRA-80-28
o	FRA/ORD-81/30	DOT-TSC-FRA-80-29
o	FRA/ORD-81/31	DOT-TSC-FRA-80-30
o	FRA/ORD-81/42	DOT-TSC-FRA-81-6
o	FRA/ORD-81/43	DOT-TSC-FRA-81-11
o	FRA/ORD-81/49	DOT-TSC-FRA-81-14
o	FRA/ORD-81/51	DOT-TSC-FRA-81-8
o	FRA/ORD-81/63	DOT-TSC-FRA-81-5
o	FRA/ORD-81/75.1	DOT-TSC-FRA-81-16.1
o	FRA/ORD-81/75.2	DOT-TSC-FRA-81-16.2

o	FRA/ORD-82/05	DOT-TSC-FRA-81-22
o	FRA/ORD-82/06	DOT-TSC-FRA-81-19
o	FRA/ORD-82/07	DOT-TSC-FRA-81-20
o	FRA/ORD-82/08	DOT-TSC-FRA-81-12
o	FRA/ORD-82/12	DOT-TSC-FRA-82-2
o	FRA/ORD-82/13	DOT-TSC-FRA-81-18
o	FRA/ORD-82/45	DOT-TSC-FRA-82-6
o	FRA/ORD-83/04.1	DOT-TSC-FRA-82-3
o	FRA/ORD-83/04.2	DOT-TSC-FRA-82-4
o	FRA/ORD-83/04.3	DOT-TSC-FRA-82-5
o	FRA/ORD-83/05	DOT-TSC-FRA-81-21
o	FRA/ORD-83/07	DOT-TSC-FRA-83-1
o	FRA/ORD-83/15	DOT-TSC-FRA-83-4
o	FRA/ORD-83/16	DOT-TSC-FRA-83-3
o	FRA/ORD-83/20	DOT-TSC-FRA-83-5
o	FRA/ORD-84/01.1	DOT-TSC-FRA-84-1.1
o	FRA/ORD-84/01.2	DOT-TSC-FRA-84-1.2
o	FRA/ORD-84/01.3	DOT-TSC-FRA-84-1.3
o	FRA/ORD-84/05	DOT-TSC-FRA-83-6
o	FRA/ORD-84/06	DOT-TSC-FRA-84-2
o	FRA/ORD-84/12	DOT-TSC-FRA-84-5

o	FRA/ORD-85/01	DOT-TSC-FRA-84-3
o	FRA/ORD-85/02	DOT-TSC-FRA-84-4
o	FRA/ORD-85/03	DOT-TSC-FRA-84-6
o	FRA/ORD-85/06	DOT-TSC-FRA-85-2
o	FRA/ORD-85/14	DOT-TSC-FRA-84-7
o	FRA/ORD-86/01	DOT-TSC-FRA-85-5
o	FRA/ORD-86/02	DOT-TSC-FRA-85-1
o	FRA/ORD-86/07	DOT-TSC-FRA-85-3
o	FRA/ORD-87/08	DOT-TSC-FRA-87-3
o	FRA/ORD-87/1	DOT-TSC-FRA-86-1
o	FRA/ORD-88/13	DOT-TSC-FRA-88-1
o	FRA/ORD-89/08	DOT-TSC-FRA-89-2
o	FRA/ORD-90/05	DOT-TSC-FRA-90-2
o	FRA/ORD-90/06	DOT-TSC-FRA-90-1
o	FRA/OS-87/05	DOT-TSC-FRA-86-2
o	FRA/OS-87/10	DOT-TSC-FRA-87-1
o	MA-PORT-830-89001	DOT-TSC-RSPA-88-5
o	MA-RD-760-84-32	DOT-TSC-RSPA-84-9
o	MA-RD-760-86-32	DOT-TSC-RSPA-86-7
o	MA-RD-770-87025	DOT-TSC-RSPA-87-2

- o MA-RD-840-89 DOT-TSC-RSPA-89-2
- o SBIR-87-1 DOT-TSC-OST-87-1
- o SBIR-88-1 DOT-TSC-OST-88-1
- o SBIR-89-1 DOT-TSC-OST-89-1
- o SBIR-90-1 DOT-TSC-OST-90-1
- o UMTA-AL-06-0003-83-1 DOT-TSC-UMTA-83-5
- o UMTA-AL-06-0007-87-1 DOT-TSC-UMTA-88-4
- o UMTA-CA-06-0102-80-1 DOT-TSC-UMTA-81-46
- o UMTA-CA-06-0102-85-1 DOT-TSC-UMTA-85-14
- o UMTA-CA-06-0114-83-1 DOT-TSC-UMTA-83-10
- o UMTA-CA-06-0126-84-1 DOT-TSC-UMTA-85-1
- o UMTA-CA-06-0127-83-1 DOT-TSC-UMTA-83-15
- o UMTA-CA-06-0127-83-2 DOT-TSC-UMTA-83-27
- o UMTA-CA-06-0128-81-1 DOT-TSC-UMTA-81-79
- o UMTA-CA-06-0129-84-1 DOT-TSC-UMTA-84-9
- o UMTA-CA-06-0142-82-1 DOT-TSC-UMTA-82-9
- o UMTA-CA-06-0158-84-1 DOT-TSC-UMTA-84-16
- o UMTA-CA-06-0165-85-1 DOT-TSC-UMTA-86-3
- o UMTA-CA-06-0170-85-1 DOT-TSC-UMTA-85-20
- o UMTA-CO-06-0018-80-1 DOT-TSC-UMTA-81-45

o	UMTA-CT-06-0008-83-1	DOT-TSC-UMTA-83-44
o	UMTA-CT-06-0008-83-2	DOT-TSC-UMTA-84-4
o	UMTA-CT-06-0008-86-1	DOT-TSC-UMTA-86-4
o	UMTA-DC-06-0239-83-1	DOT-TSC-UMTA-82-58
o	UMTA-FL-06-0016-82-1	DOT-TSC-UMTA-82-34
o	UMTA-FL-06-0037-87-1	DOT-TSC-UMTA-88-5
o	UMTA-GA-06-0012-82-1	DOT-TSC-UMTA-82-35
o	UMTA-IL-06-0038-82-1	DOT-TSC-UMTA-82-24
o	UMTA-IT-06-0102-83-1	DOT-TSC-UMTA-83-43
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o	UMTA-MA-06-0025-80-1	DOT-TSC-UMTA-80-17-1
o	UMTA-MA-06-0025-80-2	DOT-TSC-UMTA-80-17-2
o	UMTA-MA-06-0025-80-3	DOT-TSC-UMTA-80-17-3
o	UMTA-MA-06-0025-80-4	DOT-TSC-UMTA-80-17-4
o	UMTA-MA-06-0025-80-7	DOT-TSC-UMTA-80-25.2
o	UMTA-MA-06-0025-80-8	DOT-TSC-UMTA-80-26
o	UMTA-MA-06-0025-80-9	DOT-TSC-UMTA-80-34
o	UMTA-MA-06-0025-80-11	DOT-TSC-UMTA-80-39
o	UMTA-MA-06-0025-81-1	DOT-TSC-UMTA-81-4
o	UMTA-MA-06-0025-81-2	DOT-TSC-UMTA-81-42

- o UMTA-MA-06-0025-81-3 DOT-TSC-UMTA-81-66
- o UMTA-MA-06-0025-81-4 DOT-TSC-UMTA-81-80
- o UMTA-MA-06-0025-81-5 DOT-TSC-UMTA-81-76
- o UMTA-MA-06-0025-81-6 DOT-TSC-UMTA-81-75
- o UMTA-MA-06-0025-82-1 DOT-TSC-UMTA-81-69
- o UMTA-MA-06-0025-82-2 DOT-TSC-UMTA-82-4
- o UMTA-MA-06-0025-82-3 DOT-TSC-UMTA-82-11
- o UMTA-MA-06-0025-82-4 DOT-TSC-UMTA-82-49
- o UMTA-MA-06-0025-82-5 DOT-TSC-UMTA-82-36
- o UMTA-MA-06-0025-82-6 DOT-TSC-UMTA-82-55
- o UMTA-MA-06-0025-83-1 DOT-TSC-UMTA-82-28
- o UMTA-MA-06-0025-83-2 DOT-TSC-UMTA-83-1
- o UMTA-MA-06-0025-83-5 DOT-TSC-UMTA-83-17
- o UMTA-MA-06-0025-83-6 DOT-TSC-UMTA-83-4.1
- o UMTA-MA-06-0025-83-7 DOT-TSC-UMTA-83-4.2
- o UMTA-MA-06-0025-83-8 DOT-TSC-UMTA-83-22
- o UMTA-MA-06-0025-83-9 DOT-TSC-UMTA-83-25
- o UMTA-MA-06-0025-83-10 DOT-TSC-UMTA-83-31
- o UMTA-MA-06-0025-83-11 DOT-TSC-UMTA-83-7
- o UMTA-MA-06-0025-83-12 DOT-TSC-UMTA-83-52
- o UMTA-MA-06-0025-84-1 DOT-TSC-UMTA-84-6

o	UMTA-MA-06-0039-81-1	DOT-TSC-UMTA-81-61.1
o	UMTA-MA-06-0039-81-2	DOT-TSC-UMTA-81-61.2
o	UMTA-MA-06-0039-83-1	DOT-TSC-UMTA-83-45
o	UMTA-MA-06-0039-83-2	DOT-TSC-UMTA-83-47.1
o	UMTA-MA-06-0039-83-3	DOT-TSC-UMTA-83-47.2
o	UMTA-MA-06-0039-83-4	DOT-TSC-UMTA-83-47.3
o	UMTA-MA-06-0041-80-1	DOT-TSC-UMTA-80-38
o	UMTA-MA-06-0048-79-7	DOT-TSC-UMTA-80-1
o	UMTA-MA-06-0048-79-8	DOT-TSC-UMTA-80-23
o	UMTA-MA-06-0048-80-2	DOT-TSC-UMTA-80-2
o	UMTA-MA-06-0048-80-5	DOT-TSC-UMTA-80-33
o	UMTA-MA-06-0048-80-7	DOT-TSC-UMTA-80-30
o	UMTA-MA-06-0048-80-8	DOT-TSC-UMTA-80-36
o	UMTA-MA-06-0048-80-9	DOT-TSC-UMTA-80-37
o	UMTA-MA-06-0048-80-10	DOT-TSC-UMTA-80-35
o	UMTA-MA-06-0048-80-11	DOT-TSC-UMTA-80-28
o	UMTA-MA-06-0048-81-1	DOT-TSC-UMTA-81-14
o	UMTA-MA-06-0048-81-2	DOT-TSC-UMTA-81-12
o	UMTA-MA-06-0048-81-3	DOT-TSC-UMTA-81-15
o	UMTA-MA-06-0048-81-4	DOT-TSC-UMTA-81-13
o	UMTA-MA-06-0048-81-5	DOT-TSC-UMTA-81-16

- o UMTA-MA-06-0048-81-6 DOT-TSC-UMTA-81-26
- o UMTA-MA-06-0048-81-7 DOT-TSC-UMTA-81-41
- o UMTA-MA-06-0048-81-8 DOT-TSC-UMTA-81-44.1
- o UMTA-MA-06-0048-81-9 DOT-TSC-UMTA-81-44.2
- o UMTA-MA-06-0048-81-10 DOT-TSC-UMTA-81-55
- o UMTA-MA-06-0048-81-12 DOT-TSC-UMTA-81-67
- o UMTA-MA-06-0048-82-1 DOT-TSC-UMTA-82-13
- o UMTA-MA-06-0048-82-2 DOT-TSC-UMTA-82-14
- o UMTA-MA-06-0048-82-3 DOT-TSC-UMTA-82-46
- o UMTA-MA-06-0049-80-2 DOT-TSC-UMTA-81-39
- o UMTA-MA-06-0049-80-3 DOT-TSC-UMTA-82-1
- o UMTA-MA-06-0049-80-5 DOT-TSC-UMTA-80-11
- o UMTA-MA-06-0049-80-12 DOT-TSC-UMTA-81-29
- o UMTA-MA-06-0049-80-13 DOT-TSC-UMTA-81-37
- o UMTA-MA-06-0049-80-15 DOT-TSC-UMTA-81-30
- o UMTA-MA-06-0049-80-16 DOT-TSC-UMTA-81-40
- o UMTA-MA-06-0049-80-17 DOT-TSC-UMTA-81-31
- o UMTA-MA-06-0049-80-18 DOT-TSC-UMTA-81-32
- o UMTA-MA-06-0049-81-4 DOT-TSC-UMTA-81-10
- o UMTA-MA-06-0049-81-5 DOT-TSC-UMTA-81-38
- o UMTA-MA-06-0049-81-6 DOT-TSC-UMTA-81-47

- o UMTA-MA-06-0049-81-7 DOT-TSC-UMTA-81-28
- o UMTA-MA-06-0049-81-8 DOT-TSC-UMTA-81-23
- o UMTA-MA-06-0049-81-9 DOT-TSC-UMTA-82-6
- o UMTA-MA-06-0049-81-11 DOT-TSC-UMTA-81-71
- o UMTA-MA-06-0049-81-12 DOT-TSC-UMTA-81-77
- o UMTA-MA-06-0049-81-13 DOT-TSC-UMTA-82-7
- o UMTA-MA-06-0049-81-14 DOT-TSC-UMTA-82-5
- o UMTA-MA-06-0049-81-15 DOT-TSC-UMTA-82-10
- o UMTA-MA-06-0049-82-1 DOT-TSC-UMTA-82-22
- o UMTA-MA-06-0049-82-2 DOT-TSC-UMTA-82-26
- o UMTA-MA-06-0049-82-3 DOT-TSC-UMTA-82-21
- o UMTA-MA-06-0049-82-4 DOT-TSC-UMTA-82-27
- o UMTA-MA-06-0049-82-6 DOT-TSC-UMTA-83-8
- o UMTA-MA-06-0049-82-7 DOT-TSC-UMTA-82-33
- o UMTA-MA-06-0049-82-9 DOT-TSC-UMTA-82-32
- o UMTA-MA-06-0049-82-10 DOT-TSC-UMTA-82-29
- o UMTA-MA-06-0049-82-11 DOT-TSC-UMTA-82-31
- o UMTA-MA-06-0049-82-12 DOT-TSC-UMTA-82-56
- o UMTA-MA-06-0049-83-1 DOT-TSC-UMTA-83-11
- o UMTA-MA-06-0049-83-2 DOT-TSC-UMTA-83-9
- o UMTA-MA-06-0049-83-3 DOT-TSC-UMTA-83-28

- o UMTA-MA-06-0049-83-4 DOT-TSC-UMTA-83-3
- o UMTA-MA-06-0049-83-5 DOT-TSC-UMTA-83-48
- o UMTA-MA-06-0049-83-6 DOT-TSC-UMTA-83-32
- o UMTA-MA-06-0049-83-7 DOT-TSC-UMTA-83-34
- o UMTA-MA-06-0049-83-8 DOT-TSC-UMTA-84-5
- o UMTA-MA-06-0049-84-2 DOT-TSC-UMTA-84-3
- o UMTA-MA-06-0049-84-4 DOT-TSC-UMTA-84-18
- o UMTA-MA-06-0049-84-5 DOT-TSC-UMTA-83-51
- o UMTA-MA-06-0049-84-6 DOT-TSC-UMTA-84-21
- o UMTA-MA-06-0049-84-7 DOT-TSC-UMTA-84-28
- o UMTA-MA-06-0049-84-9 DOT-TSC-UMTA-85-9
- o UMTA-MA-06-0049-84-10 DOT-TSC-UMTA-84-35
- o UMTA-MA-06-0049-85-1 DOT-TSC-UMTA-85-17
- o UMTA-MA-06-0049-85-2 DOT-TSC-UMTA-85-11
- o UMTA-MA-06-0049-85-3 DOT-TSC-UMTA-85-25
- o UMTA-MA-06-0049-85-4 DOT-TSC-UMTA-85-18
- o UMTA-MA-06-0049-85-5 DOT-TSC-UMTA-85-16
- o UMTA-MA-06-0049-85-7 DOT-TSC-UMTA-85-8
- o UMTA-MA-06-0049-85-8 DOT-TSC-UMTA-85-7
- o UMTA-MA-06-0049-85-12 DOT-TSC-UMTA-85-15
- o UMTA-MA-06-0049-85-15 DOT-TSC-UMTA-85-23

- o UMTA-MA-06-0049-85-18 DOT-TSC-UMTA-85-24
- o UMTA-MA-06-0049-87-3 DOT-TSC-UMTA-87-8
- o UMTA-MA-06-0049-87-4 DOT-TSC-UMTA-87-12
- o UMTA-MA-06-0051-80-2 DOT-TSC-UMTA-80-15
- o UMTA-MA-06-0060-81-1 DOT-TSC-UMTA-81-5
- o UMTA-MA-06-0060-81-2 DOT-TSC-UMTA-81-25
- o UMTA-MA-06-0060-81-3 DOT-TSC-UMTA-81-49
- o UMTA-MA-06-0060-82-1 DOT-TSC-UMTA-82-44
- o UMTA-MA-06-0060-82-3 DOT-TSC-UMTA-82-50
- o UMTA-MA-06-0069-80-1 DOT-TSC-UMTA-80-19
- o UMTA-MA-06-0069-81-1 DOT-TSC-UMTA-81-6
- o UMTA-MA-06-0069-81-2 DOT-TSC-UMTA-81-36
- o UMTA-MA-06-0069-81-3 DOT-TSC-UMTA-81-34
- o UMTA-MA-06-0069-81-4 DOT-TSC-UMTA-81-9
- o UMTA-MA-06-0074-80-1 DOT-TSC-UMTA-80-20
- o UMTA-MA-06-0074-81-1 DOT-TSC-UMTA-80-44
- o UMTA-MA-06-0074-81-2 DOT-TSC-UMTA-80-45
- o UMTA-MA-06-0074-81-3 DOT-TSC-UMTA-80-46
- o UMTA-MA-06-0076-84-1 DOT-TSC-UMTA-84-20
- o UMTA-MA-06-0080-81-1 DOT-TSC-UMTA-80-42
- o UMTA-MA-06-0081-81-1 DOT-TSC-UMTA-80-4

- o UMTA-MA-06-0081-81-2 DOT-TSC-UMTA-81-51
- o UMTA-MA-06-0081-81-3 DOT-TSC-UMTA-81-52
- o UMTA-MA-06-0081-81-4 DOT-TSC-UMTA-81-53
- o UMTA-MA-06-0081-81-5 DOT-TSC-UMTA-81-58
- o UMTA-MA-06-0086-82-1 DOT-TSC-UMTA-82-40
- o UMTA-MA-06-0086-83-1 DOT-TSC-UMTA-83-39
- o UMTA-MA-06-0086-85-1 DOT-TSC-UMTA-85-2
- o UMTA-MA-06-0098-80-1 DOT-TSC-UMTA-80-24
- o UMTA-MA-06-0098-81-1 DOT-TSC-UMTA-81-57
- o UMTA-MA-06-0098-81-2 DOT-TSC-UMTA-81-56
- o UMTA-MA-06-0098-81-3 DOT-TSC-UMTA-81-59
- o UMTA-MA-06-0098-83-1 DOT-TSC-UMTA-83-19
- o UMTA-MA-06-0098-84-1 DOT-TSC-UMTA-84-15
- o UMTA-MA-06-0098-84-2 DOT-TSC-UMTA-84-36
- o UMTA-MA-06-0099-80-2 DOT-TSC-UMTA-80-6
- o UMTA-MA-06-0099-80-5 DOT-TSC-UMTA-80-29
- o UMTA-MA-06-0099-80-6 DOT-TSC-UMTA-80-41
- o UMTA-MA-06-0099-81-1 DOT-TSC-UMTA-81-8
- o UMTA-MA-06-0099-81-2 DOT-TSC-UMTA-81-7
- o UMTA-MA-06-0099-82-1 DOT-TSC-UMTA-81-72
- o UMTA-MA-06-0099-82-2 DOT-TSC-UMTA-81-73

o	UMTA-MA-06-0099-82-3	DOT-TSC-UMTA-82-8
o	UMTA-MA-06-0099-82-4	DOT-TSC-UMTA-82-16
o	UMTA-MA-06-0099-82-5	DOT-TSC-UMTA-82-57
o	UMTA-MA-06-0100-79-13	DOT-TSC-UMTA-79-31
o	UMTA-MA-06-0100-80-1	DOT-TSC-UMTA-80-3
o	UMTA-MA-06-0100-80-9	DOT-TSC-UMTA-80-31
o	UMTA-MA-06-0100-81-1	DOT-TSC-UMTA-81-33
o	UMTA-MA-06-0100-81-2	DOT-TSC-UMTA-80-48.1
o	UMTA-MA-06-0100-81-3	DOT-TSC-UMTA-80-48.2
o	UMTA-MA-06-0100-81-4	DOT-TSC-UMTA-81-22
o	UMTA-MA-06-0100-81-6	DOT-TSC-UMTA-81-63.1
o	UMTA-MA-06-0100-81-7	DOT-TSC-UMTA-81-63.2
o	UMTA-MA-06-0100-82-1	DOT-TSC-UMTA-82-54.1
o	UMTA-MA-06-0100-82-2	DOT-TSC-UMTA-82-54.2
o	UMTA-MA-06-0100-82-3	DOT-TSC-UMTA-82-54.3
o	UMTA-MA-06-0100-83-1	DOT-TSC-UMTA-82-37
o	UMTA-MA-06-0100-83-2	DOT-TSC-UMTA-82-52
o	UMTA-MA-06-0100-83-3	DOT-TSC-UMTA-83-16
o	UMTA-MA-06-0100-83-4	DOT-TSC-UMTA-82-51
o	UMTA-MA-06-0100-83-5	DOT-TSC-UMTA-83-41
o	UMTA-MA-06-0100-83-6	DOT-TSC-UMTA-83-50

- o UMTA-MA-06-0100-84-1 DOT-TSC-UMTA-83-54
- o UMTA-MA-06-0107-81-1 DOT-TSC-UMTA-81-18
- o UMTA-MA-06-0107-82-1 DOT-TSC-UMTA-82-15
- o UMTA-MA-06-0107-83-1 DOT-TSC-UMTA-82-47
- o UMTA-MA-06-0107-84-1 DOT-TSC-UMTA-83-46
- o UMTA-MA-06-0107-85-1 DOT-TSC-UMTA-84-37
- o UMTA-MA-06-0109-81-1 DOT-TSC-UMTA-81-27
- o UMTA-MA-06-0119-81-1 DOT-TSC-UMTA-81-19.1
- o UMTA-MA-06-0119-81-2 DOT-TSC-UMTA-81-19.2
- o UMTA-MA-06-0119-81-3 DOT-TSC-UMTA-81-19.3
- o UMTA-MA-06-0119-81-4 DOT-TSC-UMTA-81-54
- o UMTA-MA-06-0120-82-2 DOT-TSC-UMTA-82-39
- o UMTA-MA-06-0120-82-3 DOT-TSC-UMTA-82-20
- o UMTA-MA-06-0120-82-4 DOT-TSC-UMTA-82-17
- o UMTA-MA-06-0120-82-6 DOT-TSC-UMTA-82-19
- o UMTA-MA-06-0120-82-7 DOT-TSC-UMTA-82-18
- o UMTA-MA-06-0120-83-1 DOT-TSC-UMTA-83-2
- o UMTA-MA-06-0120-83-2 DOT-TSC-UMTA-83-53
- o UMTA-MA-06-0120-83-3 DOT-TSC-UMTA-83-42
- o UMTA-MA-06-0120-83-4 DOT-TSC-UMTA-83-55
- o UMTA-MA-06-0120-83-5 DOT-TSC-UMTA-83-38

- o UMTA-MA-06-0120-84-2 DOT-TSC-UMTA-84-19
- o UMTA-MA-06-0120-84-3 DOT-TSC-UMTA-84-30
- o UMTA-MA-06-0120-84-4 DOT-TSC-UMTA-84-31
- o UMTA-MA-06-0120-84-5 DOT-TSC-UMTA-84-29
- o UMTA-MA-06-0120-84-6 DOT-TSC-UMTA-84-34
- o UMTA-MA-06-0120-85-1 DOT-TSC-UMTA-85-3
- o UMTA-MA-06-0120-85-2 DOT-TSC-UMTA-85-6
- o UMTA-MA-06-0120-86-1 DOT-TSC-UMTA-86-1
- o UMTA-MA-06-0120-86-2 DOT-TSC-UMTA-86-9
- o UMTA-MA-06-0120-87-1 DOT-TSC-UMTA-87-11
- o UMTA-MA-06-0120-87-2 DOT-TSC-UMTA-87-3
- o UMTA-MA-06-0120-89-1 DOT-TSC-UMTA-89-2
- o UMTA-MA-06-0125-82-1 DOT-TSC-UMTA-81-60
- o UMTA-MA-06-0126-81-1 DOT-TSC-UMTA-81-35
- o UMTA-MA-06-0126-82-1 DOT-TSC-UMTA-82-41
- o UMTA-MA-06-0126-82-2 DOT-TSC-UMTA-82-42
- o UMTA-MA-06-0126-82-3 DOT-TSC-UMTA-82-48
- o UMTA-MA-06-0126-83-1 DOT-TSC-UMTA-83-20
- o UMTA-MA-06-0126-83-2 DOT-TSC-UMTA-83-26
- o UMTA-MA-06-0126-83-3 DOT-TSC-UMTA-83-40
- o UMTA-MA-06-0126-83-4 DOT-TSC-UMTA-83-29

o	UMTA-MA-06-0126-84-1	DOT-TSC-UMTA-83-57
o	UMTA-MA-06-0126-84-3	DOT-TSC-UMTA-84-2
o	UMTA-MA-06-0126-84-4	DOT-TSC-UMTA-84-1
o	UMTA-MA-06-0126-84-5	DOT-TSC-UMTA-84-8
o	UMTA-MA-06-0144-85-1	DOT-TSC-UMTA-85-4
o	UMTA-MA-06-0147-87-1	DOT-TSC-UMTA-88-3
o	UMTA-MA-06-0152-83-1	DOT-TSC-UMTA-83-37
o	UMTA-MA-06-0152-84-1	DOT-TSC-UMTA-84-23
o	UMTA-MA-06-0152-84-2	DOT-TSC-UMTA-84-22
o	UMTA-MA-06-0152-84-3	DOT-TSC-UMTA-84-25
o	UMTA-MA-06-0152-84-4	DOT-TSC-UMTA-84-27
o	UMTA-MA-06-0152-85-1	DOT-TSC-UMTA-84-26
o	UMTA-MA-06-0152-85-2	DOT-TSC-UMTA-85-13
o	UMTA-MA-06-0152-85-3	DOT-TSC-UMTA-85-22
o	UMTA-MA-06-0152-86-1	DOT-TSC-UMTA-86-5
o	UMTA-MA-06-0152-86-2	DOT-TSC-UMTA-86-12
o	UMTA-MA-06-0152-86-3	DOT-TSC-UMTA-86-13
o	UMTA-MA-06-0152-87-1	DOT-TSC-UMTA-87-9
o	UMTA-MA-06-0153-83-2	DOT-TSC-UMTA-83-12
o	UMTA-MA-06-0153-83-3	DOT-TSC-UMTA-83-13
o	UMTA-MA-06-0153-84-1	DOT-TSC-UMTA-84-13

o	UMTA-MA-06-0153-84-2	DOT-TSC-UMTA-84-11
o	UMTA-MA-06-0153-84-3	DOT-TSC-UMTA-84-10
o	UMTA-MA-06-0153-84-4	DOT-TSC-UMTA-84-14
o	UMTA-MA-06-0153-85-1	DOT-TSC-UMTA-84-12
o	UMTA-MA-06-0153-85-2	DOT-TSC-UMTA-85-5
o	UMTA-MA-06-0153-85-3	DOT-TSC-UMTA-85-10
o	UMTA-MA-06-0153-85-4	DOT-TSC-UMTA-87-1
o	UMTA-MA-06-0153-85-5	DOT-TSC-UMTA-85-21
o	UMTA-MA-06-0153-85-6	DOT-TSC-UMTA-86-7
o	UMTA-MA-06-0153-85-7	DOT-TSC-UMTA-86-2
o	UMTA-MA-06-0153-85-8	DOT-TSC-UMTA-86-6
o	UMTA-MA-06-0153-85-9	DOT-TSC-UMTA-86-11
o	UMTA-MA-06-0153-85-10	DOT-TSC-UMTA-88-1
o	UMTA-MA-06-0153-85-11	DOT-TSC-UMTA-87-4
o	UMTA-MA-06-0153-85-12	DOT-TSC-UMTA-85-26
o	UMTA-MA-06-0156-86-1	DOT-TSC-UMTA-86-8
o	UMTA-MA-06-0178-87-1	DOT-TSC-UMTA-87-5
o	UMTA-MA-06-0178-88-1	DOT-TSC-UMTA-88-9
o	UMTA-MA-06-0178-89-1	DOT-TSC-UMTA-89-1
o	UMTA-MA-06-0186-89-1	DOT-TSC-UMTA-89-4
o	UMTA-MA-06-0186-89-2	DOT-TSC-UMTA-89-5

- o UMTA-MA-06-0194-90-1 DOT-TSC-UMTA-90-1
- o UMTA-MA-08-9023-88-1A DOT-TSC-UMTA-89-3
- o UMTA-MA-09-9015-85-1 DOT-TSC-UMTA-84-33
- o UMTA-MN-06-0013-84-1 DOT-TSC-UMTA-84-7
- o UMTA-MN-52-0001-85-1 DOT-TSC-UMTA-85-19
- o UMTA-NJ-06-0008-81-1 DOT-TSC-UMTA-82-2
- o UMTA-NY-06-0064-81-1 DOT-TSC-UMTA-81-78
- o UMTA-OH-06-0036-84-1 DOT-TSC-UMTA-84-32
- o UMTA-OR-06-0008-86-1 DOT-TSC-UMTA-86-10
- o UMTA-OR-06-0010-87-1 DOT-TSC-UMTA-87-7
- o UMTA-OR-06-0010-87-2 DOT-TSC-UMTA-87-13
- o UMTA-PA-06-0081-87-1 DOT-TSC-UMTA-87-6
- o UMTA-TN-06-0008-87-1 DOT-TSC-UMTA-88-2
- o UMTA-TN-06-0013-87-1 DOT-TSC-UMTA-87-10
- o UMTA-VA-06-0050-82-1 DOT-TSC-UMTA-82-25
- o UMTA-WA-06-0018-85-1 DOT-TSC-UMTA-85-12
- o UMTA-WA-06-0019-83-1 DOT-TSC-UMTA-83-14
- o UMTA-WI-06-0006-84-1 DOT-TSC-UMTA-84-17
- o UMTA-WV-06-0008-82-1 DOT-TSC-UMTA-82-23