

# Safety Information Reporting and Analysis System (SIRAS)

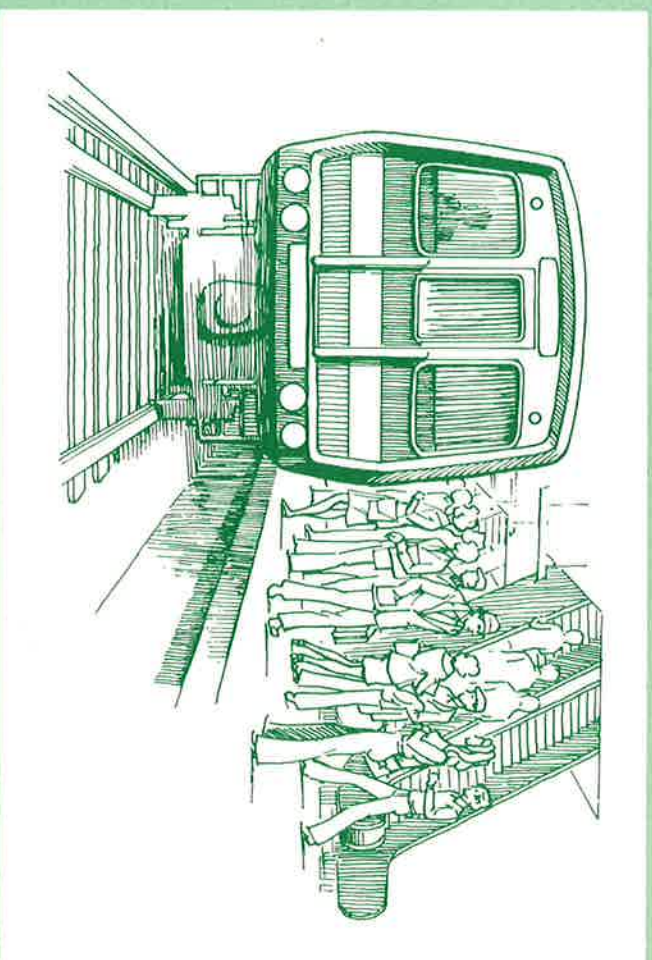


U.S. Department of  
Transportation

# HEAVY RAIL TRANSIT SAFETY 1984 Annual Report

Research and Special Programs  
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UMTA Technical Assistance Program

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## INTRODUCTION

The Safety Information Reporting and Analysis System (SIRAS) is a voluntary safety reporting system, developed by the Urban Mass Transportation Administration (UMTA) in cooperation with the American Public Transit Association (APTA) and the heavy rail transit (RRT) systems operating in the United States. Since its implementation on January 1, 1983, the operating RRT systems have been reporting transit safety data to UMTA on a monthly basis. Up to three transit data reports are submitted: a Statistical Data Report, a Train Accident Report and a Casualty Report. All transit systems submit a monthly Statistical Data Report containing the total number of car miles and number of passengers in the reporting month. The Train Accident Report and the Casualty Report are submitted only during those months when reportable (according to specific SIRAS thresholds contained in Appendix A) train accidents or casualties occur.

To assist in understanding the terms used in this report, a glossary has been provided in Section 1 .

Note: Column and row entries may not sum to the total shown due to rounding.

## I. GLOSSARY

The following definitions are to be used as a reference in understanding the terms in this report.

**AUTHORIZED PERSON IN STATION OR OTHER AUTHORIZED LOCATION** - A person legally on a transit system's property in a location deemed licit.

**CAR MILES** - Distances traveled by each rail transit car of a transit system in both revenue and non-revenue service during a reporting period.

**CASUALTY** - A fatality or injury in accordance with SIRAS thresholds.\*

**CASUALTY REPORT** - A SIRAS report containing specific information on individual casualties (fatalities or injuries) submitted to UMTA by rail transit systems on a monthly basis, when applicable.

**COLLISION WITH OBSTACLE** - A SIRAS train accident type involving the collision of a rail transit revenue train with obstacles (e.g., shopping carts, foreign objects, etc.) other than trains and persons.\*

**COLLISION WITH PERSON** - A SIRAS train accident type involving the collision of a rail transit revenue train with a person on a track or platform.\*

**COLLISION WITH OTHER TRAIN** - A SIRAS train accident type involving the collision of a rail transit revenue train with another rail transit train (e.g., revenue or non-revenue train, work train, etc.).\*

**DERAILMENT** - A SIRAS train accident type involving a rail transit revenue train's leaving the rails.\*

**FATALITY** - A death confirmed to result from a rail transit accident within 30 days after the accident.\*

**FIRE** - A SIRAS train accident type involving the phenomenon of combustion manifested in light, flame and heat.\*

**NON-AUTHORIZED PERSON IN NON-AUTHORIZED LOCATION** - A person illegally on a transit system's property in a location deemed illicit.

**PASSENGER IN UNAUTHORIZED AREA** - A person on, boarding or alighting from a rail transit revenue train in a location deemed illicit.

**PASSENGER IN VEHICLE, BOARDING OR ALIGHTING** - A person on, boarding or alighting from a rail transit revenue train in a location deemed licit.

**RAIL-HIGHWAY CROSSING** - A SIRAS train accident type involving the intersection of an otherwise exclusive (rail transit) right-of-way and a highway where motor vehicle and pedestrian traffic safety is enhanced by one or more crossing warning mechanisms.\*

**TRAIN ACCIDENT** - An event involving one or more trains resulting in any casualty or property damage in accordance with SIRAS thresholds.\*

**TRAIN ACCIDENT REPORT** - A SIRAS report containing specific information on individual train accidents (collisions with trains, collisions with obstacles, collisions with persons, derailments, fires or rail-highway crossings) submitted to UMTA by rail transit systems on a monthly basis, when applicable.

**STATISTICAL DATA REPORT** - A SIRAS report containing total car miles and total passengers submitted to UMTA by rail transit systems on a monthly basis.

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\* For additional information, please see Appendix A. RRT Thresholds



II. STATISTICAL DATA

(A) PASSENGERS

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PERCENT OF TOTAL	1983 TOTAL
BART	14,667,946	14,902,702	15,195,095	15,002,311	59,768,054	3.7	55,513,769
CTA	37,471,875	38,885,981	38,235,292	38,460,259	153,053,407	9.5	146,608,709
GCRTA	1,656,437	1,582,663	1,429,567	1,501,920	6,170,587	0.4	6,805,474
MARTA	12,829,000	13,260,000	12,637,000	13,215,000	51,941,000	3.2	39,088,439
MBTA	24,954,000	25,327,600	25,581,000	26,667,000	102,529,600	6.35	96,194,000
MDTA	*	163,545	544,738	737,523	1,445,806	0.1	*
MTAMD	1,301,200	1,585,600	2,018,491	2,343,351	7,248,642	0.4	**
NYCTA	251,082,987	254,595,594	235,821,408	255,782,562	997,282,551	61.8	1,005,675,870
PATCO	2,634,055	2,548,320	2,444,912	(1) 1,789,953	(1) 9,417,240	0.6	10,682,083
PATH	13,735,665	14,086,731	13,253,824	13,578,670	54,654,890	3.4	54,875,997
SEPTA	18,485,311	17,267,506	17,012,991	18,789,917	71,555,725	4.4	70,156,909
SIRTOA	1,575,372	1,575,657	1,428,427	1,581,677	6,161,133	0.4	5,589,255
WMATA	21,761,634	23,530,507	23,715,357	23,775,195	92,782,693	5.7	82,580,499
TOTAL	402,155,482	409,312,406	389,318,102	413,225,338	1,614,011,328	100.0	1,573,771,004

\* MDTA began revenue operation in June 1984.

\*\* MTAMD began revenue operations in January 1984.

I Incomplete - PATCO did not report for December 1984.

**II. STATISTICAL DATA**

**(B) CAR MILES**

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PERCENT OF TOTAL	1983 TOTAL
<b>BART</b>	7,407,534	7,506,531	7,631,685	7,745,353	30,291,103	6.8	29,343,520
<b>CTA</b>	12,538,405	12,481,432	12,331,752	12,893,087	50,244,676	11.2	49,079,670
<b>GCRTA</b>	522,412	518,978	554,738	584,519	2,180,647	0.5	2,137,218
<b>MARTA</b>	1,689,699	1,727,732	1,706,000	1,973,040	7,096,471	1.6	5,427,525
<b>MBTA</b>	3,397,079	3,619,073	3,592,660	3,604,484	14,213,296	3.2	13,524,049
<b>MDTA</b>	*	69,600	191,500	236,000	497,100	0.1	*
<b>MTAMD</b>	415,200	463,000	539,700	579,554	1,997,454	0.4	**
<b>NYCTA</b>	73,589,635	71,856,430	71,059,247	72,743,355	289,248,667	64.6	270,537,105
<b>PATCO</b>	1,110,308	980,327	984,207	(I) 686,141	(I) 3,760,983	0.8	4,212,141
<b>PATH</b>	2,506,392	2,610,690	2,698,627	2,692,602	10,508,311	2.3	9,781,660
<b>SEPTA</b>	4,134,689	3,736,140	3,952,695	4,047,855	15,871,379	3.5	15,575,201
<b>SIRTOA</b>	622,985	623,997	628,886	607,827	2,483,695	0.6	2,084,240
<b>WMATA</b>	4,415,647	4,507,599	4,718,904	5,785,388	19,427,538	4.3	17,274,517
<b>TOTAL</b>	112,349,985	110,701,529	110,590,601	114,179,205	447,821,320	100.0	418,976,846

\* MDTA began revenue operation in June 1984.

\*\* MTAMD began revenue operation in January 1984.

I Incomplete - PATCO did not submit report for December 1984.

III. TRAIN ACCIDENTS

(A) BY TYPE ACCIDENT

	NUMBER PER 1,000,000 CAR MILES	Collision with other train		Collision with Obstacle		Collision with Person		Derailment		Fire		Rail-Highway Crossing		TOTAL	
		1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL	1984 TOTAL	1983 TOTAL
BART	0	0	0	0	0	0	0	0	1	0	2	N/A	N/A	1	3
	PER 1,000,000 CAR MILES	0	0	0.03	0	0	0	0	0.03	0	0.07	N/A	N/A	0.03	0.10
CTA	1	1	0	0	0	7	3	1	3	2	5	4	4	15	16
	PER 1,000,000 CAR MILES	0.02	0.02	0	0	0.16	0.06	0.02	0.06	0.05	0.10	0.06	0.06	0.3	0.32
GCRTA	0	0	1	0	3	1	1	1	2	0	0	N/A	N/A	5	3
	PER 1,000,000 CAR MILES	0	0	0.5	0	1.5	0.47	0.5	0.63	0	0	N/A	N/A	2.5	1.40
MARTA	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
	PER 1,000,000 CAR MILES	0	0	0	0	0	0.55	0	0	0	0	0	0	0	0.55
MBTA	0	1	0	0	0	0	1	0	0	0	0	N/A	N/A	0	2
	PER 1,000,000 CAR MILES	0	0.07	0	0	0	0.07	0	0	0	0	N/A	N/A	0	0.15
MDTA	0	*	0	*	0	0	*	0	*	0	*	N/A	N/A	0	*
	PER 1,000,000 CAR MILES	0	*	0	*	0	*	0	*	0	*	N/A	N/A	0	*
MTAMD	0	**	0	**	0	0	**	0	**	0	**	N/A	N/A	0	**
	PER 1,000,000 CAR MILES	0	**	0	**	0	**	0	**	0	**	N/A	N/A	0	**
NYCTA	0	0	0	0	0	0	0	12	16	0	15	N/A	N/A	12	31
	PER 1,000,000 CAR MILES	0	0	0	0	0	0	0.04	0.06	0	0.05	N/A	N/A	0.04	0.11
PATCO	1	0	1	0	1(1)	1	1	1	0	1	0	N/A	N/A	1(1)	1
	PER 1,000,000 CAR MILES	0	0	0	0	0.25	0.24	0	0	0	0	N/A	N/A	0.25	0.24
PATH	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0
	PER 1,000,000 CAR MILES	0	0	0.09	0	0	0	0	0	0.09	0	0	0	0.18	0
SEPTA	0	1	0	0	0	1	3	0	0	0	2	N/A	N/A	1	6
	PER 1,000,000 CAR MILES	0	0.06	0	0	0.05	0.19	0	0	0	0.13	N/A	N/A	0.06	0.39
SIRTOA	0	0	0	0	0	0	0	0	0	0	0	N/A	N/A	0	0
	PER 1,000,000 CAR MILES	0	0	0	0	0	0	0	0	0	0	N/A	N/A	0	0
WMATA	0	0	0	0	0	0	0	0	0	0	7	N/A	N/A	0	7
	PER 1,000,000 CAR MILES	0	0	0	0	0	0	0	0	0	0.40	N/A	N/A	0	0.40
TOTAL	1	3	3	0	12	12	14	22	3	31	4	4	4	37	72
	PER 1,000,000 CAR MILES	0.002	0.01	0.01	0	0.03	0.03	0.05	0.01	0.02	0.01	0.01	0.01	0.08	0.17

\* MDTA began revenue operations in June 1984. I Incomplete - Patco did not report for December 1984.  
 \*\* MTAMD began revenue operations in January 1984. N/A Not applicable since this RRT system does not have rail-highway crossings.

**III. TRAIN ACCIDENTS**

**(B) BY CASUALTIES AND DAMAGE ESTIMATES**

	INJURIES	FATALITIES	TRAIN DAMAGE ESTIMATE (\$)	OTHER TRANSIT DAMAGE ESTIMATE (\$)	NON-TRANSIT DAMAGE ESTIMATE (\$)	1984 TOTAL DAMAGE ESTIMATE (\$)	1983 TOTAL DAMAGE ESTIMATE (\$)
COLLISION WITH OTHER TRAIN	41	1	44,038	10,080	0	54,118	224,371
COLLISION WITH OBSTACLE	2	0	88,700	93,000	4,765	186,465	0
COLLISION WITH PERSON	3	6	100	0	0	100	500
DERAILMENT	0	0	120,737	842,640	0	963,377	1,053,166
FIRE	0	0	126,457	0	0	126,457	269,518
RAIL-HIGHWAY CROSSING	4	0	10,438	560	35,259	46,257	2,101
<b>TOTAL</b>	<b>50</b>	<b>7</b>	<b>390,470</b>	<b>946,280</b>	<b>40,024</b>	<b>1,376,774</b>	<b>1,549,656</b>

**IV. CASUALTIES**

**(A) NON-FATALITIES BY EVENT CAUSING INJURY**

<b>EVENT CAUSING INJURY</b>	<b>1984 FIRST QUARTER</b>	<b>1984 SECOND QUARTER</b>	<b>1984 THIRD QUARTER</b>	<b>1984 FOURTH QUARTER</b>	<b>1984 TOTAL</b>	<b>1984 per 1,000,000 PASSENGERS</b>	<b>1984 PERCENT OF TOTAL</b>	<b>1983 TOTAL</b>	<b>FOUR QUARTER MOVING AVERAGE</b>
STRUCK BY TRAIN	11	13	10	16	50	0.03	2.33	44	12.5
CAUGHT/STRUCK BY TRAIN DOOR	14	45	55	26	140	0.09	6.52	67	35.0
DRAGGED IN CLOSED DOOR	5	4	6	3	18	0.01	0.84	19	4.5
THROWN/FELL FROM TRAIN MOVEMENT	24	20	44	18	106	0.07	4.94	100	26.5
FELL, SLIPPED, TRIPPED, STUMBLLED	367	365	276	356	1,364	0.85	63.53	1,386	341.0
STRUCK BY MISSILE, LOOSE OBJECT	14	46	39	24	123	0.08	5.73	108	30.75
INJURED IN TRAIN ACCIDENT	4	16	53	81	154	0.1	7.17	56	38.50
MISCELLANEOUS	46	40	53	53	192	0.12	8.94	197	48.00
<b>TOTAL</b>	<b>485</b>	<b>549</b>	<b>536</b>	<b>577</b>	<b>2,147</b>	<b>1.33</b>	<b>100.0</b>	<b>1977</b>	<b>536.75</b>

**IV. CASUALTIES**

**(B) NON-FATALITIES BY TYPE PERSON**

<b>TYPE PERSON</b>	<b>1984 FIRST QUARTER</b>	<b>1984 SECOND QUARTER</b>	<b>1984 THIRD QUARTER</b>	<b>1984 FOURTH QUARTER</b>	<b>1984 TOTAL</b>	<b>1984 per 1,000,000 PASSENGERS</b>	<b>1984 PERCENT OF TOTAL</b>	<b>1983 TOTAL</b>	<b>FOUR QUARTER MOVING AVERAGE</b>
PASSENGER IN VEHICLE, BOARDING OR ALIGHTING	119	197	266	200	782	0.48	36.4	569	195.5
AUTHORIZED PERSON IN STATION OR OTHER AUTHORIZED LOCATION	317	298	227	331	1,173	0.73	54.6	1,171	293.25
NON-AUTHORIZED PERSON IN NON- AUTHORIZED LOCATION	2	1	3	8	14	0.01	0.7	9	3.5
EMERGENCY FORCE (FIRE, POLICE, MEDICAL)	0	0	0	0	0	0.00	0.0	0	0.0
CONTRACTOR, OTHER OFFICIAL DUTY PERSON	2	1	1	0	4	0.00	0.2	6	1.0
PASSENGER IN UNAUTHORIZED AREA	45	52	39	38	174	0.11	8.1	222	43.5
<b>TOTAL</b>	<b>485</b>	<b>549</b>	<b>536</b>	<b>577</b>	<b>2,147</b>	<b>1.33</b>	<b>100.0</b>	<b>1,977</b>	<b>536.75</b>

**IV. CASUALTIES**

**(C) NON-FATALITIES BY LOCATION**

<u>LOCATION</u>	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 per 1,000,000 PASSENGERS	1984 PERCENT OF TOTAL	1983 TOTAL	FOUR QUARTER MOVING AVERAGE
IN RAPID RAIL TRANSIT STATION	315	307	222	324	1,168	0.72	54.4	1,207	292.00
BOARDING/ALIGHTING	72	90	119	63	344	0.21	16.0	279	86.00
ON BOARD TRAIN	64	111	171	139	485	0.30	22.6	349	121.25
TRACK AND TRACK STRUCTURE	34	41	24	51	150	0.09	7.0	142	37.50
<b>TOTAL</b>	485	549	536	577	2,147	1.33	100.0	1,977	536.75

**IV. CASUALTIES**

**(D) FATALITIES BY EVENT CAUSING FATALITY**

<u>EVENT CAUSING INJURY</u>	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 per 1,000,000 PASSENGERS	1984 PERCENT OF TOTAL	1983 TOTAL	FOUR QUARTER MOVING AVERAGE
STRUCK BY TRAIN	11	5	7	14	37	0.023	67.27	25	9.25
CAUGHT/STRUCK BY TRAIN DOOR	0	0	0	0	0	0.000	0	0	0
DROPPED IN CLOSED DOOR	0	0	0	0	0	0.000	0	2	0
THROWN/FELL FROM TRAIN MOVEMENT	0	0	0	0	0	0.000	0	0	0
FELL, SLIPPED, TRIPPED, STUMBLER	2	1	2	2	7	0.004	12.73	11	1.75
STRUCK BY MISSILE, LOOSE OBJECT	0	0	0	0	0	0.000	0	0	0
INJURED IN TRAIN ACCIDENT	2	0	1	0	3	0.002	5.45	6	0.75
MISCELLANEOUS	0	1	2	5	8	0.005	14.55	6	2
TOTAL	15	7	12	21	55	0.034	100	50	13.75



**IV. CASUALTIES**

**(E) FATALITIES BY TYPE PERSON**

<b>TYPE PERSON</b>	<b>1984 FIRST QUARTER</b>	<b>1984 SECOND QUARTER</b>	<b>1984 THIRD QUARTER</b>	<b>1984 FOURTH QUARTER</b>	<b>1984 TOTAL</b>	<b>1984 per 1,000,000 PASSENGERS</b>	<b>1984 PERCENT OF TOTAL</b>	<b>1983 TOTAL</b>	<b>FOUR QUARTER MOVING AVERAGE</b>
<b>PASSENGER IN VEHICLE, BOARDING OR ALIGHTING</b>	0	0	2	0	2	0.001	03.6	5	0.50
<b>AUTHORIZED PERSON IN STATION OR OTHER AUTHORIZED LOCATION</b>	0	0	0	3	3	0.001	05.5	3	0.75
<b>NON-AUTHORIZED PERSON IN NON- AUTHORIZED LOCATION</b>	1	1	0	6	8	0.005	14.5	6	2.00
<b>EMERGENCY FORCE (FIRE, POLICE, MEDICAL)</b>	0	0	0	0	0	0.000	00.0	0	0.00
<b>CONTRACTOR, OTHER OFFICIAL DUTY PERSON</b>	0	0	1	0	1	0.001	01.8	2	0.25
<b>PASSENGER IN UNAUTHORIZED AREA</b>	14	6	9	12	41	0.025	74.5	34	10.25
<b>TOTAL</b>	15	7	12	21	55	0.034	100.0	50	13.75

**IV. CASUALTIES**

**(E) FATALITIES BY LOCATION**

<u>LOCATION</u>	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 per 1,000,000 PASSENGERS	1984 PERCENT OF TOTAL	1983 TOTAL	FOUR QUARTER MOVING AVERAGE
IN RAPID RAIL TRANSIT STATION	0	0	0	2	2	0.001	3.6	2	0.50
BOARDING/ALIGHTING	1	0	0	1	2	0.001	3.6	9	0.50
ON BOARD TRAIN	1	0	3	1	5	0.003	9.1	2	1.25
TRACK AND TRACK STRUCTURE	13	7	9	17	46	0.029	83.6	37	11.50
<b>TOTAL</b>	15	7	12	21	55	0.034	100.0	50	13.75

V. SYSTEM-SPECIFIC OVERVIEW

(A) TOTAL OF ALL RRT SYSTEMS

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	1	0	1	0.00	3
● COLLISION WITH OBSTACLE	2	0	1	0	3	0.01	0
● COLLISION WITH PERSON	4	6	0	2	12	0.03	12
● DERAILMENT	7	5	2	0	14	0.03	22
● FIRE	2	1	0	0	3	0.01	31
● RAIL HIGHWAY CROSSING	2	0	0	2	5	0.01	4
<b>TOTAL TRAIN ACCIDENTS</b>	<b>17</b>	<b>12</b>	<b>4</b>	<b>4</b>	<b>37</b>	<b>0.08</b>	<b>72</b>
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	315	307	222	326	1170	0.72	1,209
● BOARDING/ALIGHTING	73	90	119	64	346	0.21	288
● ON BOARD TRAIN	65	112	174	140	491	0.30	351
● TRAIN AND TRACK STRUCTURE	47	47	33	68	195	0.12	179
<b>TOTAL CASUALTIES</b>	<b>500</b>	<b>556</b>	<b>548</b>	<b>598</b>	<b>2202</b>	<b>1.36</b>	<b>2,027</b>
<b>INJURIES</b>	<b>485</b>	<b>549</b>	<b>536</b>	<b>577</b>	<b>2147</b>	<b>1.33</b>	<b>1977</b>
<b>FATALITIES</b>	<b>15</b>	<b>7</b>	<b>12</b>	<b>21</b>	<b>55</b>	<b>0.03</b>	<b>50</b>

NOTE: CTA was the only RRT system to report Rail-Highway Crossing accidents under SIRAS in 1984.

V. SYSTEM-SPECIFIC OVERVIEW

**(B) BAY AREA RAPID TRANSIT DISTRICT (BART)**

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<u>TRAIN ACCIDENTS</u>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	1	0	0	0	1	0.03	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	0
● DERAILMENT	0	0	0	0	0	0.00	1
● FIRE	0	0	0	0	0	0.00	2
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	1	0	0	0	1	0.03	3
<u>CASUALTIES</u>							
● IN RAPID RAIL TRANSIT STATION	16	15	13	11	55	0.92	76
● BOARDING/ALIGHTING	2	2	1	2	7	0.12	7
● ON BOARD TRAIN	0	0	0	0	0	0.00	5
● TRAIN AND TRACK STRUCTURE	0	1	0	1	2	0.03	4
<b>TOTAL CASUALTIES</b>	18	18	14	14	64	1.07	92
<b>INJURIES</b>	18	18	14	14	64	1.07	92
<b>FATALITIES</b>	0	0	0	0	0	0.00	0

N/A - Not applicable since BART does not have rail-highway crossings

(C) CHICAGO TRANSIT AUTHORITY (CTA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	1	0	1	0.02	1
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	3	3	0	1	7	0.14	3
● DERAILMENT	0	0	1	0	1	0.02	3
● FIRE	1	1	0	0	2	0.04	5
● RAIL HIGHWAY CROSSING	2	0	0	2	4	0.10	4
<b>TOTAL TRAIN ACCIDENTS</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>15</b>	<b>0.30</b>	<b>16</b>
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	13	7	7	8	35	0.23	45
● BOARDING/ALIGHTING	2	3	5	2	12	0.08	23
● ON BOARD TRAIN	2	0	39	0	41	0.27	44
● TRAIN AND TRACK STRUCTURE	5	4	6	3	18	0.12	7
<b>TOTAL CASUALTIES</b>	<b>22</b>	<b>14</b>	<b>57</b>	<b>13</b>	<b>106</b>	<b>0.69</b>	<b>119</b>
<b>INJURIES</b>	<b>21</b>	<b>12</b>	<b>55</b>	<b>11</b>	<b>99</b>	<b>0.65</b>	<b>117</b>
<b>FATALITIES</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>0.05</b>	<b>2</b>

NOTE: CTA was the only RRT system to report Rail-Highway Crossing accidents under SIRAS in 1984.

V. SYSTEM-SPECIFIC OVERVIEW

(D) GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY (GCRTA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<u>TRAIN ACCIDENTS</u>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	0	0	1	0	1	0.50	0
● COLLISION WITH PERSON	1	1	0	1	3	1.50	1
● DERAILMENT	1	0	0	0	1	0.50	2
● FIRE	0	0	0	0	0	0.00	0
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>2.50</b>	<b>3</b>
<u>CASUALTIES</u>							
● IN RAPID RAIL TRANSIT STATION	1	2	1	0	4	0.67	2
● BOARDING/ALIGHTING	0	1	0	0	1	0.17	0
● ON BOARD TRAIN	0	3	0	0	3	0.50	3
● TRAIN AND TRACK STRUCTURE	1	1	0	1	3	0.50	1
<b>TOTAL CASUALTIES</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>11</b>	<b>1.83</b>	<b>6</b>
<b>INJURIES</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>8</b>	<b>1.33</b>	<b>5</b>
<b>FATALITIES</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0.50</b>	<b>1</b>

N/A - Not applicable since GCRTA does not have rail-highway crossings.

V. SYSTEM-SPECIFIC OVERVIEW

(E) METROPOLITAN ATLANTA REGIONAL TRANSIT AUTHORITY (MARTA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	3
● DERAILMENT	0	0	0	0	0	0.00	0
● FIRE	0	0	0	0	0	0.00	0
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	0	0	0	0	0.00	3
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	25	28	16	9	78	1.50	114
● BOARDING/LIGHTING	4	0	2	0	6	0.12	7
● ON BOARD TRAIN	1	2	1	2	6	0.12	11
● TRAIN AND TRACK STRUCTURE	2	1	1	1	5	0.10	8
<b>TOTAL CASUALTIES</b>	32	31	20	12	95	1.83	140
<b>INJURIES</b>	32	31	20	12	95	1.83	137
<b>FATALITIES</b>	0	0	0	0	0	0.00	3

N/A - Not applicable since MARTA does not have rail-highway crossings.

V. SYSTEM-SPECIFIC OVERVIEW

(F) MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (MBTA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<u>TRAIN ACCIDENTS</u>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	1
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	1
● DERAILMENT	0	0	0	0	0	0.00	0
● FIRE	0	0	0	0	0	0.00	0
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	0	0	0	0	0.00	2
<u>CASUALTIES</u>						PER 1,000,000 PASSENGERS	
● IN RAPID RAIL TRANSIT STATION	44	37	31	34	146	1.43	127
● BOARDING/ALIGHTING	3	12	7	4	26	0.25	23
● ON BOARD TRAIN	1	2	6	2	11	0.11	9
● TRAIN AND TRACK STRUCTURE	0	2	1	0	3	0.03	2
<b>TOTAL CASUALTIES</b>	48	53	45	40	186	1.82	161
<b>INJURIES</b>	48	53	45	39	185	1.81	160
<b>FATALITIES</b>	0	0	0	1	1	0.01	1

N/A - Not applicable since MBTA does not have rail-highway crossings.



V. SYSTEM-SPECIFIC OVERVIEW

(G) METRO DADE COUNTY TRANSPORTATION ADMINISTRATION (MDTA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	*	0	0	0	0	0.00	*
● COLLISION WITH OBSTACLE	*	0	0	0	0	0.00	*
● COLLISION WITH PERSON	*	0	0	0	0	0.00	*
● DERAILMENT	*	0	0	0	0	0.00	*
● FIRE	*	0	0	0	0	0.00	*
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	*	0	0	0	0	0.00	0
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	*	0	2	3	5	5.00	*
● BOARDING/ALIGHTING	*	0	0	0	0	0.00	*
● ON BOARD TRAIN	*	1	2	0	3	3.00	*
● TRAIN AND TRACK STRUCTURE	*	0	0	0	0	0.00	*
<b>TOTAL CASUALTIES</b>	*	1	4	3	8	8.00	*
<b>INJURIES</b>	*	1	4	3	8	8.00	*
<b>FATALITIES</b>	*	0	0	0	0	0.00	*

N/A Not applicable since MDTA does not have rail-highway crossings.

\* MDTA began revenue operation in June of 1984.

**V. SYSTEM-SPECIFIC OVERVIEW**

**(H) MASS TRANSIT ADMINISTRATION OF MARYLAND (MTAMD)**

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b><u>TRAIN ACCIDENTS</u></b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	*
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	*
● COLLISION WITH PERSON	0	0	0	0	0	0.00	*
● DERAILMENT	0	0	0	0	0	0.00	*
● FIRE	0	0	0	0	0	0.00	*
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	0	0	0	0	0.00	0
<b><u>CASUALTIES</u></b>						<b>PER 1,000,000 PASSENGERS</b>	
● IN RAPID RAIL TRANSIT STATION	0	0	0	0	0	0.00	*
● BOARDING/ALIGHTING	0	0	0	0	0	0.00	*
● ON BOARD TRAIN	0	0	0	0	0	0.00	*
● TRAIN AND TRACK STRUCTURE	0	0	0	0	0	0.00	*
<b>TOTAL CASUALTIES</b>	0	0	0	0	0	0.00	*
<b>INJURIES</b>	0	0	0	0	0	0.00	*
<b>FATALITIES</b>	0	0	0	0	0	0.00	*

N/A Not applicable since MTAMD does not have rail-highway crossings.

\* MTAMD began revenue operation in January of 1984

**V. SYSTEM-SPECIFIC OVERVIEW**

**(I) NEW YORK CITY TRANSIT AUTHORITY (NYCTA)**

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	0
● DERAILMENT	6	5	1	0	12	0.04	16
● FIRE	0	0	0	0	0	0.00	15
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	6	5	1	0	12	0.04	31
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	202	201	132	213	748	0.75	770
● BOARDING/LIGHTING	54	50	47	36	187	0.19	206
● ON BOARD TRAIN	57	86	95	119	357	0.36	264
● TRAIN AND TRACK STRUCTURE	39	34	26	52	151	0.15	147
<b>TOTAL CASUALTIES</b>	352	371	300	420	1,443	1.45	1,387
<b>INJURIES</b>	340	367	290	406	1,403	1.41	1,348
<b>FATALITIES</b>	12	4	10	14	40	0.04	39

N/A Not applicable since NYCTA does not have rail-highway crossings.

V. SYSTEM-SPECIFIC OVERVIEW

(J) PORT AUTHORITY TRANSIT CORPORATION (PATCO)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<u>TRAIN ACCIDENTS</u>							
● COLLISION WITH OTHER TRAIN	0	0	0	(I) 0	(I) 0	0.00	0
● COLLISION WITH OBSTACLE	0	0	0	(I) 0	(I) 0	0.00	0
● COLLISION WITH PERSON	0	1	0	(I) 0	(I) 1	0.25	1
● DERAILMENT	0	0	0	(I) 0	(I) 0	0.00	0
● FIRE	0	0	0	(I) 0	(I) 0	0.00	0
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	1	0	(I) 0	(I) 1	0.25	1
<u>CASUALTIES</u>							
● IN RAPID RAIL TRANSIT STATION	4	1	5	(I) 3	(I) 13	1.44	18
● BOARDING/ALIGHTING	0	1	0	(I) 0	(I) 1	0.11	3
● ON BOARD TRAIN	1	2	0	(I) 0	(I) 3	0.33	2
● TRAIN AND TRACK STRUCTURE	0	1	0	(I) 0	(I) 1	0.11	1
<b>TOTAL CASUALTIES</b>	5	5	5	(I) 3	(I) 18	2.0	24
<b>INJURIES</b>	5	5	5	(I) 3	(I) 18	2.0	24
<b>FATALITIES</b>	0	0	0	(I) 0	(I) 0	0	0

N/A Not applicable since PATCO does not have rail-highway crossings.

I Incomplete

PATCO did not submit report for the month of December 1984.

V. SYSTEM-SPECIFIC OVERVIEW

(K) PORT AUTHORITY TRANS-HUDSON CORPORATION (PATH)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	1	0	0	0	1	0.09	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	0
● DERAILMENT	0	0	0	0	0	0.00	0
● FIRE	1	0	0	0	1	0.09	0
● RAIL HIGHWAY CROSSING	0	0	0	0	0	0.00	0
<b>TOTAL TRAIN ACCIDENTS</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.18</b>	<b>0</b>
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	9	11	8	22	50	0.91	38
● BOARDING/ALIGHTING	0	4	2	0	6	0.11	12
● ON BOARD TRAIN	3	1	3	0	7	0.13	11
● TRAIN AND TRACK STRUCTURE	0	0	1	0	1	0.02	1
<b>TOTAL CASUALTIES</b>	<b>12</b>	<b>16</b>	<b>14</b>	<b>22</b>	<b>64</b>	<b>1.16</b>	<b>62</b>
<b>INJURIES</b>	<b>11</b>	<b>16</b>	<b>14</b>	<b>22</b>	<b>63</b>	<b>1.15</b>	<b>60</b>
<b>FATALITIES</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.02</b>	<b>2</b>

**V. SYSTEM-SPECIFIC OVERVIEW**

**(L) SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY (SEPTA)**

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b><u>TRAIN ACCIDENTS</u></b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	1
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	0	1	0	0	1	0.06	3
● DERAILMENT	0	0	0	0	0	0.00	0
● FIRE	0	0	0	0	0	0.00	2
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	1	0	0	1	0.06	6
<b><u>CASUALTIES</u></b>							
● IN RAPID RAIL TRANSIT STATION	1	5	8	22	36	0.50	17
● BOARDING/ALIGHTING	8	17	54	21	100	1.39	7
● ON BOARD TRAIN	0	14	23	17	54	0.75	2
● TRAIN AND TRACK STRUCTURE	0	4	3	7	14	0.19	8
<b>TOTAL CASUALTIES</b>	9	40	88	67	204	2.83	34
<b>INJURIES</b>	9	40	88	66	203	2.83	33
<b>FATALITIES</b>	0	0	0	1	1	0.01	1

N/A Not Applicable since SEPTA does not have rail-highway crossings.

V. SYSTEM-SPECIFIC OVERVIEW

(M) STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY (SIRTOA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<b>TRAIN ACCIDENTS</b>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.0	0
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.0	0
● COLLISION WITH PERSON	0	0	0	0	0	0.0	0
● DERAILMENT	0	0	0	0	0	0.0	0
● FIRE	0	0	0	0	0	0.0	0
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	0	0	0	0	0.0	0
<b>CASUALTIES</b>							
● IN RAPID RAIL TRANSIT STATION	0	0	0	0	0	0.0	0
● BOARDING/ALIGHTING	0	0	0	0	0	0.0	0
● ON BOARD TRAIN	0	0	0	0	0	0.0	0
● TRAIN AND TRACK STRUCTURE	0	0	0	2	2	0.3	0
<b>TOTAL CASUALTIES</b>	0	0	0	2	2	0.3	0
<b>INJURIES</b>	0	0	0	0	0	0.0	0
<b>FATALITIES</b>	0	0	0	2	2	0.3	0

N/A Not Applicable since SIRTOA does not have rail-highway crossings.

V. SYSTEM-SPECIFIC OVERVIEW

(N) WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY (WMATA)

	1984 FIRST QUARTER	1984 SECOND QUARTER	1984 THIRD QUARTER	1984 FOURTH QUARTER	1984 TOTAL	1984 PER 1,000,000 CAR MILES	1983 TOTAL
<u>TRAIN ACCIDENTS</u>							
● COLLISION WITH OTHER TRAIN	0	0	0	0	0	0.00	0
● COLLISION WITH OBSTACLE	0	0	0	0	0	0.00	0
● COLLISION WITH PERSON	0	0	0	0	0	0.00	0
● DERAILMENT	0	0	0	0	0	0.00	0
● FIRE	0	0	0	0	0	0.00	7
● RAIL HIGHWAY CROSSING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>TOTAL TRAIN ACCIDENTS</b>	0	0	0	0	0	0.00	7
<u>CASUALTIES</u>						PER 1,000,000 PASSENGERS	
● IN RAPID RAIL TRANSIT STATION	0	0	0	1	1	0.01	2
● BOARDING/ALIGHTING	0	0	0	0	0	0.00	0
● ON BOARD TRAIN	0	0	0	0	0	0.00	0
● TRAIN AND TRACK STRUCTURE	0	0	0	0	0	0.00	0
<b>TOTAL CASUALTIES</b>	0	0	0	1	1	0.01	2
<b>INJURIES</b>	0	0	0	1	1	0.01	1
<b>FATALITIES</b>	0	0	0	0	0	0.00	1

N/A Not Applicable since WMATA does not have rail-highway crossings.



RRT THRESHOLDS

TRAIN ACCIDENT REPORTING THRESHOLDS

A "reportable train accident" is any accident which satisfies one or more of the following threshold levels:

A. TRAIN COLLISIONS

- 1. All rail transit revenue train collisions involving other rail transit equipment (such as revenue or non-revenue trains, work trains or work equipment), persons and/or rail highway crossings are to be reported.
- 2. Collisions between revenue trains and other obstacles (shopping carts, foreign objects, etc.) which result in \$5,000 or greater property damage, or casualties, are to be reported.

"Property Damage" refers to the estimated cost to repair or replace damaged property (vehicles, equipment, right-of-way, etc.) to a state equivalent to that which existed prior to the accident. Property damage does not include the cost of clearing wreckage.

B. TRAIN DERAILMENTS

- 1. Rail transit train derailments which result in \$5,000 or greater property damage are to be reported.

C. FIRES

- 1. Fires which involve the participation of the local fire department in the fire fighting, and/or which cause the evacuation of passengers onto the system right-of-way are to be reported.

D. EXCLUSIONS

- 1. Accidents (collisions, derailments or fires) occurring in yards and non-revenue service areas which do not involve revenue trains are excluded.
- 2. Accidents (collisions, derailments or fires) which involve only work trains and servicing equipment are excluded.
- 3. Collisions between train cars resulting from coupling operations which do not involve passenger casualties are excluded.

CASUALTY REPORTING THRESHOLDS

A "reportable casualty" is any casualty which satisfies one or more of the following threshold levels:

A. PASSENGER AND OTHER CASUALTIES

- 1. Casualties involving passengers or other personnel (contractors, etc.) which occur at or in exclusive approaches to or from faregates, or equivalent, or within the normal "paid" area, and which result in:
  - a. Fatalities, or
  - b. Personal injuries which require immediate medical treatment beyond first aid, are to be reported as casualties.

"Medical treatment" means treatment requiring the attention of a physician or registered professional medical personnel. "Medical treatment" as used here, does not refer to minor first aid treatment (one-time treatment), precautionary measures such as tetanus shots, or subsequent observation of minor scratches, cuts, bruises or splinters.

B. EXCLUSIONS

- 1. Assaults are excluded.
- 2. Attempted suicides are excluded.
- 3. Suicides are excluded.

