Metrolink Train 100 Locomotive 886 Glendale CA January 26 2005 NTSB #DCA-05-MR-009 National Transportation Safety Board

Recorder Time	Speed	Т	hrottle		Gen Field	Reverser	Horn	Bell	Brake-Cy Press	l Bral Pres	•
(sec)	(mph)	(notch)								
5:52:00		53		8	On	Rev	On	Off		2	105
5:52:01											
5:52:02		54		8	On	Rev	On	Off		2	105
5:52:03		55		8	On	Rev	On	Off		2	105
		55		8	On	Rev	On	Off		2	105
5:52:04		56		8	On	Rev	On	Off		2	105
5:52:05											
5:52:06		57		8	On	Rev	On	Off		2	105
5:52:07		58			On	Rev	On	Off		2	105
5:52:08		59			On	Rev	On	Off		2	105
5:52:09		00		Ũ	011		<u>en</u>	C.I.		-	100
5:52:10		60		8	On	Rev	On	Off		2	105
5:52:10		61			On	Rev	On	Off		2	105
5:52:11		01		0	On	IXEV	OII	OII		2	105
5:52:12		62		0	05	Boy	05	Off		2	105
5.52.15					On	Rev	On				
5.50.44		62			On	Rev	On	Off		2	105
5:52:14		63		8	On	Rev	On	Off		2	105
5:52:15		~ .		~	•	_	•	o."		~	
5:52:16		64			On	Rev	On	Off		2	105
5:52:17		65		8	On	Rev	On	Off		2	105
5:52:18				_	-	_	_			_	
5:52:19		66		8	On	Rev	On	Off		2	105
5:52:20											
5:52:21		68			On	Rev	On	Off		2	105
5:52:22		68		8	On	Rev	On	Off		2	105
5:52:23											
5:52:24		69		8	On	Rev	On	Off		2	105
5:52:25											
5:52:26		70		8	On	Rev	On	Off		2	105
5:52:27		71		8	On	Rev	On	Off		2	105
		71		8	On	Rev	On	Off		2	105
5:52:28		71		4	On	Rev	On	Off		2	105
		71		3	On	Rev	On	Off		2	105
		71			On	Rev	On	Off		2	105
		71			On	Rev	Off	Off		2	105
5:52:29		72			On	Rev	Off	Off		2	105
5:52:30		72			On	Rev	Off	Off		2	105
5:52:31		72			On	Rev	Off	Off		2	105
5:52:32		73			On	Rev	Off	Off		2	105
0.02.02		73			On	Rev	Off	Off		2	105
5:52:33		74			On	Rev	Off	Off		0	103
5:52:33		/ -+		I			011			0	107
5:52:34											
5:52:36											

5:52:37

5:52:38							
5:52:39	74	1 On	Rev	Off	Off	0	103
5:52:40	74	1 On	Rev	Off	Off	7	103
	74	1 On	Rev	Off	Off	7	100
5:52:41	74	1 On	Rev	Off	Off	12	100
	74	1 On	Rev	Off	Off	12	100
5:52:42				•	•		
5:52:43							
5:52:44	74	1 On	Rev	Off	Off	12	100
5:52:45	74	1.011	T(C)	OII	Oli	12	100
5:52:46							
5:52:40	72	1 On	Rev	Off	Off	12	100
5.52.47	72				Off	12	
5.50.40	12	1 On	Rev	Off	Oli	12	100
5:52:48	74	1.0-	Davi	0"	0"	40	100
5:52:49	71	1 On	Rev	Off	Off	12	100
	71	1 On	Rev	Off	Off	12	100
5:52:50	71	1 On	Rev	Off	Off	12	100
5:52:51	70	1 On	Rev	Off	Off	12	100
	70	1 On	Rev	Off	Off	12	100
	70	1 On	Rev	Off	Off	12	96
5:52:52	69	1 On	Rev	Off	Off	12	96
	69	1 On	Rev	Off	Off	12	96
5:52:53	68	1 On	Rev	Off	Off	12	96
5:52:54	67	1 On	Rev	Off	Off	12	96
	67	1 On	Rev	Off	Off	12	96
5:52:55					•		
5:52:56	66	1 On	Rev	Off	Off	12	96
5:52:57	64	1 On	Rev	Off	Off	12	96
0.02.07	64	1 On	Rev	Off	Off	8	96
5:52:58	64	1 On	Rev	Off	Off	8	96
5:52:59	63	1 On	Rev	Off	Off	8	96
5.52.59	63					8	
		1 On	Rev	Off	Off		96 06
5.52.00	63	1 On	Rev	Off	Off Off	14	96
5:53:00	62	1 On	Rev	Off	Off	14	96
5:53:01	62	1 On	Rev	Off	Off	14	96
	62	1 On	Rev	Off	Off	10	96
5:53:02	61	1 On	Rev	Off	Off	10	96
5:53:03	59	1 On	Rev	Off	Off	10	96
5:53:04	58	1 On	Rev	Off	Off	10	96
5:53:05	57	1 On	Rev	Off	Off	10	96
5:53:06	56	1 On	Rev	Off	Off	10	96
	56	1 On	Rev	Off	Off	10	96
	56	1 On	Rev	Off	Off	10	92
5:53:07	55	1 On	Rev	Off	Off	10	92
5:53:08	54	1 On	Rev	Off	Off	10	92
	54	1 On	Rev	Off	Off	10	92
5:53:09	52	1 On	Rev	Off	Off	10	92
5:53:10	51	1 On	Rev	Off	Off	10	92
5:53:11	50	1 On	Rev	Off	Off	10	92
5:53:12	48	1 On	Rev	Off	Off	10	92
5:53:12	47	1 On	Rev	Off	Off	10	92
5:53:13	46	1 On	Rev	Off	Off	10	92 92
0.00.14	70		1724		On	10	52

		4.0	-	011	011	40	~~~
5:53:15	45	1 On	Rev	Off	Off	10	92
5:53:16	43	1 On	Rev	Off	Off	10	92
	43	1 On	Rev	Off	Off	4	92
	43	1 On	Rev	Off	Off	4	98
5:53:17	42	1 On	Rev	Off	Off	4	98
	42	1 On	Rev	Off	Off	4	98
	42	1 On	Rev	Off	Off	10	98
	42	1 On	Rev	Off	Off	10	104
5:53:18	42	1 On	Rev	Off	Off	3	104
5:53:19	42	1 On	Rev	Off	Off	3	104
5:53:20	42	1 On	Rev	Off	Off	3	104
5:53:21	42	1 On	Rev	Off	Off	0	104
	42	1 On	Rev	Off	Off	0	107
5:53:22							
5:53:23							
5:53:24							
5:53:25							
5:53:26	42	2 On	Rev	Off	Off	0	107
	42 Idle	On	Rev	Off	Off	0	107
	42	8 On	Rev	Off	Off	0	107
	42	6 On	Rev	Off	Off	0	107
	42	6 On	Rev	On	Off	0	107
5:53:27	42	8 On	Rev	On	Off	0	107
5:53:28	42	8 On	Rev	On	Off	0	107
5:53:29	42	8 On	Rev	On	Off	0	107
5:53:30	72	0.011	T(C)	On	On	0	107
5:53:31							
5:53:32							
5:53:33	42	8 On	Rev	On	Off	0	107
5:53:34	43	8 On	Rev	On	Off	0	107
5:53:35	43	8 On	Rev	On	Off	0	107
5:53:36	40	0.011	ILEV	On	Oli	0	107
5:53:37							
5:53:38	45	8 On	Rev	On	Off	0	107
0.00.00	45	8 On	Rev	On	Off	0	107
5:53:39	40	0.011	i tev	On	OII	0	107
5:53:40	46	8 On	Rev	On	Off	0	107
5:53:41	46	8 On	Rev	On	Off	0	107
5:53:42	40	0.011	i tev	On	OII	0	107
5:53:43							
5:53:44	47	8 On	Rev	On	Off	0	107
5.55.77	47	8 On	Rev	On	Off	0	107
5:53:45	-17	0.011		OII	011	Ũ	107
5:53:46	48	8 On	Rev	On	Off	0	107
5:53:47	40	0.011	T(C)	OII	011	Ū	107
5:53:48	49	8 On	Rev	On	Off	0	107
0.00.40	49	8 On	Rev	On	Off	0	107
5:53:49	40	0.011	T(C)	On	On	0	107
5:53:50	50	8 On	Rev	On	Off	0	107
0.00.00	50 50	6 On	Rev	On	Off	0	107
5:53:51	50 Idle	On	Rev	On	Off	0	107
0.00.01	50 Idle	On	Rev	On	Off	0	107
			I VCV	OII		U	107

	50 50	2 On 1 On	Rev Rev	On On	Off Off	0 0	107 107
	50	1 On	Rev	Off	Off	0	107
5:53:52	51	1 On	Rev	Off	Off	0	107
5:53:53							
5:53:54	51	1 On	Rev	Off	Off	0	107
5:53:55	51	1 On	Rev	Off	Off	0	107
	51	1 On	Rev	Off	Off	5	107
	51	1 On	Rev	Off	Off	5	99
5:53:56	51	1 On	Rev	Off	Off	5	99
	51	1 On	Rev	Off	Off	12	99
	51	1 On	Rev	Off	Off	12	99
5:53:57	51	1 On	Rev	Off	Off	17	99
5:53:58							
5:53:59	51	1 On	Rev	Off	Off	17	99
	51	1 On	Rev	Off	Off	23	99
5:54:00							
5:54:01	50	1 On	Rev	Off	Off	23	99
5:54:02	48	1 On	Rev	Off	Off	23	99
5:54:03	48	1 On	Rev	Off	Off	23	95
5:54:04	47	1 On	Rev	Off	Off	23	95
	47	1 On	Rev	Off	Off	23	95
5:54:05	46	1 On	Rev	Off	Off	23	95
5:54:06	45	1 On	Rev	Off	Off	23	95
	45	1 On	Rev	Off	Off	26	95
5:54:07	44	1 On	Rev	Off	Off	26	95
	44	1 On	Rev	Off	Off	26	95
	44	1 On	Rev	Off	Off	29	95
5:54:08	43	1 On	Rev	Off	Off	29	95
	43	1 On	Rev	Off	Off	29	95
5:54:09	42	1 On	Rev	Off	Off	29	95
	42	1 On	Rev	Off	Off	29	95
	42	1 On	Rev	Off	Off	26	95
5:54:10	41	1 On	Rev	Off	Off	26	95
	41	1 On	Rev	Off	Off	26	95
	41	1 On	Rev	Off	Off	16	95
	41	1 On	Rev	Off	Off	16	95
5:54:11	39	1 On	Rev	Off	Off	16	95
	39	1 On	Rev	Off	Off	16	95
5.54.40	39	1 On	Rev	Off	Off	13	95
5:54:12	38	1 On	Rev	Off	Off	13	95
5.54.40	38	1 On	Rev	Off	Off	9	95 05
5:54:13	37	1 On	Rev	Off	Off	9	95 05
E.E.A.1 A	37 36	1 On	Rev	Off	Off	13	95 05
5:54:14 5:54:15	36 34	1 On 1 On	Rev	Off Off	Off Off	13 13	95 95
5:54:15 5:54:16	33		Rev	Off	Off	13	95 95
5:54:16	33	1 On 1 On	Rev Rev	Off	Off	13	95 95
5:54:17	33	1 On	Rev	Off	Off	10	95 95
5:54:17	32	1 On	Rev	Off	Off	10	95 95
5:54:18	30	1 On	Rev	Off	Off	10	95 95
5:54:20	28	1 On	Rev	Off	Off	10	95 95
0.04.20	20		1.00			10	55

	28	1 On	Boy	Off	Off	10	95
E.E.4.04			Rev				
5:54:21	28	1 On	Rev	Off	Off	10	95
/ 00	28	1 On	Rev	Off	Off	10	98
5:54:22	27	1 On	Rev	Off	Off	10	98
	27	1 On	Rev	Off	Off	10	98
5:54:23	26	1 On	Rev	Off	Off	10	98
5:54:24	25	1 On	Rev	Off	Off	10	98
	25	1 On	Rev	Off	Off	10	98
5:54:25							
5:54:26	24	1 On	Rev	Off	Off	10	98
	24	1 On	Rev	Off	Off	10	98
5:54:27							
5:54:28	23	1 On	Rev	Off	Off	10	98
5:54:29	23	1 On	Rev	Off	Off	10	98
5:54:30	22	1 On	Rev	Off	Off	10	98
5:54:31	22	1 On	Rev	Off	Off	10	95
5:54:32	21	1 On	Rev	Off	Off	10	95
5:54:32	21	1 011	Rev	Oli	Oli	10	35
	20	1.05	Day	O ff	Off	10	05
5:54:34	20	1 On	Rev	Off		10	95
/	20	1 On	Rev	Off	Off	10	89
5:54:35	18	1 On	Rev	Off	Off	10	89
	18	1 On	Rev	Off	Off	10	89
5:54:36	16	1 On	Rev	Off	Off	10	89
5:54:37	15	1 On	Rev	Off	Off	10	89
	15	1 On	Rev	Off	Off	10	89
5:54:38	13	1 On	Rev	Off	Off	10	89
	13	1 On	Rev	Off	Off	15	89
	13	1 On	Rev	Off	Off	15	89
5:54:39	11	1 On	Rev	Off	Off	15	89
	11	1 On	Rev	Off	Off	18	89
5:54:40	9	1 On	Rev	Off	Off	18	89
	9	1 On	Rev	Off	Off	18	89
	9	1 On	Rev	Off	Off	22	89
5:54:41	8	1 On	Rev	Off	Off	22	89
0.04.41	8	1 On	Rev	Off	Off	27	89
5:54:42	6	1 On	Rev	Off	Off	27	89
5.54.42				Off	Off		
	6	1 On	Rev			27	89
	6	1 On	Rev	Off	Off	24	89
4 40	6	1 On	Rev	Off	Off	24	94
5:54:43	4	1 On	Rev	Off	Off	24	94
	4	1 On	Rev	Off	Off	19	94
5:54:44	2	1 On	Rev	Off	Off	19	94
5:54:45	1	1 On	Rev	Off	Off	19	94
	1	1 On	Rev	Off	Off	19	94
	1	1 On	Rev	Off	Off	15	94
	1	1 On	Rev	Off	Off	15	94
5:54:46	1	1 On	Rev	Off	Off	12	94
	0	1 On	Rev	Off	Off	12	94
	0	1 On	Rev	Off	Off	12	94
	0	1 On	Rev	Off	Off	12	94
5:54:47	0	1 On	Rev	Off	Off	25	94
0.04.47	0	1 On	Rev	Off	Off	25	86
	U		1764		On	20	00

5:54:48	0 0	1 On 1 On	Rev Rev	Off Off	Off Off	42 42	86 83
5:54:49							
5:54:50 5:54:51 5:54:52 5:54:53 5:54:54 5:54:55 5:54:56 5:54:57 5:54:58 5:54:59 5:55:00 5:55:01 5:55:02 5:55:03 5:55:04 5:55:05 5:55:06	0	1 On	Rev	Off	Off	42	83
5:55:07 5:55:08							
5:55:09 5:55:10 5:55:11 5:55:12 5:55:13 5:55:14	0	1 On	Rev	Off	Off	45	83
5:55:15 5:55:16							
5:55:17 5:55:18	0	1 On	Rev	Off	Off	45	83
5:55:19	0 0 Idle 0 0 0 0	2 On On 8 On 6 On 6 On 8 On	Rev Rev Rev Rev Rev Rev	Off Off Off Off On On	Off Off Off Off Off Off	45 45 45 45 45 45 45	83 83 83 83 83 83 83
5:55:20	0	0.011	ILEV	On	Oli	40	00
5:55:21 5:55:22 5:55:23 5:55:24	0	8 On	Rev	On	Off	45	83
5:55:25	0	8 On	Rev	On	Off	38	83
5:55:26	0 0 0 0 0	8 On 8 On 8 On 8 On 8 On	Rev Rev Rev Rev Rev	On On On On On	Off On On On On	38 38 22 22 22 22	92 92 92 100 100
5:55:27 5:55:28	0 0 0	8 On 8 On 8 On	Rev Rev Rev	On On On	On On On	11 4 4	100 100 103

5:55:29							
5:55:30	0	8 On	Rev	On	On	4	103
5:55:31	0	8 On	Rev	On	On	4	103
	0	8 On	Rev	On	On	4	103
	0	8 On	Rev	On	On	0	103
5:55:32	0	8 On	Rev	On	On	0	103
	0	8 On	Rev	On	On	0	106
5:55:33	2	8 On	Rev	On	On	0	106
0.00.00	2	8 On	Rev	On	On	0	106
5:55:34	3	8 On	Rev	On	On	0	100
5.55.54	3	8 On	Rev	On	On	0	100
E.EE.2E							
5:55:35	4	8 On	Rev	On	On	0	106
	4	8 On	Rev	On	On	0	106
5:55:36	5	8 On	Rev	On	On	0	106
5:55:37	6	8 On	Rev	On	On	0	106
	6	8 On	Rev	On	On	0	106
5:55:38	7	8 On	Rev	On	On	0	106
5:55:39							
5:55:40	8	8 On	Rev	On	On	0	106
5:55:41	10	8 On	Rev	On	On	0	106
5:55:42	11	8 On	Rev	On	On	0	106
5:55:43	12	8 On	Rev	On	On	0	106
5:55:44	12	8 On	Rev	On	On	0	106
	12	8 On	Rev	On	On	0	106
5:55:45	13	8 On	Rev	On	On	0	106
5:55:46	14	8 On	Rev	On	On	0	106
5:55:47		0 011	1.07	on	On	Ũ	100
5:55:48	15	8 On	Rev	On	On	0	106
5:55:49	16	8 On	Rev	On	On	0	100
5:55:50	10	8 On	Rev	On	On	0	100
	18	8 On				0	106
5:55:51	10	8 OII	Rev	On	On	0	100
5:55:52	10	0.0-	Davi	0.5	0.5	0	100
5:55:53	19	8 On	Rev	On	On	0	106
5:55:54	20	8 On	Rev	On	On	0	106
5:55:55	21	8 On	Rev	On	On	0	106
5:55:56	22	8 On	Rev	On	On	0	106
5:55:57	23	8 On	Rev	On	On	0	106
5:55:58							
5:55:59	24	8 On	Rev	On	On	0	106
5:56:00	26	8 On	Rev	On	On	0	106
5:56:01	27	8 On	Rev	On	On	0	106
5:56:02	28	8 On	Rev	On	On	0	106
5:56:03	29	8 On	Rev	On	On	0	106
	29	8 On	Rev	On	Off	0	106
5:56:04	30	8 On	Rev	On	Off	0	106
5:56:05	31	8 On	Rev	On	Off	0	106
5:56:06	32	8 On	Rev	On	Off	0	106
5:56:07	33	8 On	Rev	On	Off	0	106
5:56:08	34	8 On	Rev	On	Off	0	100
5:56:09	34	8 On	Rev	On	Off	0	100
5:56:10	34 36	8 On	Rev	On	Off	0	106
5:56:10 5:56:11	36 36				Off	0	106
5.50.11	30	8 On	Rev	On		U	100

5:56:12							
5:56:13	38	8 On	Rev	On	Off	0	106
5:56:14	39	8 On	Rev	On	Off	0	106
5:56:15	40	8 On	Rev	On	Off	0	106
5:56:16	41	8 On	Rev	On	Off	0	106
5:56:17	42	8 On	Rev	On	Off	0	106
5:56:17	42	8 On		On	Off	0	100
			Rev				
5:56:19	44	8 On	Rev	On	Off	0	106
5:56:20				_			
5:56:21	45	8 On	Rev	On	Off	0	106
5:56:22	46	8 On	Rev	On	Off	0	106
5:56:23	47	8 On	Rev	On	Off	0	106
	47	8 On	Rev	On	Off	0	106
5:56:24	48	8 On	Rev	On	Off	0	106
5:56:25	-		-	-	-	-	
5:56:26	49	8 On	Rev	On	Off	0	106
5:56:27	40 50	8 On	Rev	On	Off	0	106
5:56:28	51	8 On	Rev	On	Off	0	106
5:56:29			_	-		_	
5:56:30	52	8 On	Rev	On	Off	0	106
5:56:31	53	8 On	Rev	On	Off	0	106
5:56:32	54	8 On	Rev	On	Off	0	106
5:56:33							
5:56:34	55	8 On	Rev	On	Off	0	107
5:56:35	56	8 On	Rev	On	Off	0	107
5:56:36		• •		•	•	·	
5:56:37	57	8 On	Rev	On	Off	0	107
5:56:38	58	8 On	Rev	On	Off	0	107
	56	8 UII	Rev	Oli	Oli	0	107
5:56:39	50	0.0-	Davi	0.5	0"	0	407
5:56:40	59	8 On	Rev	On	Off	0	107
5:56:41	60	8 On	Rev	On	Off	0	107
5:56:42							
5:56:43	61	8 On	Rev	On	Off	0	107
5:56:44	62	8 On	Rev	On	Off	0	107
5:56:45							
5:56:46	63	8 On	Rev	On	Off	0	107
	63	8 On	Rev	On	Off	0	107
5:56:47	64	8 On	Rev	On	Off	0	107
5:56:48	01	0 011		en	U II	C C	
5:56:49	65	8 On	Rev	On	Off	0	107
	66					0	
5:56:50	00	8 On	Rev	On	Off	0	107
5:56:51	07		-	0	011	•	407
5:56:52	67	8 On	Rev	On	Off	0	107
5:56:53							
5:56:54	68	8 On	Rev	On	Off	0	107
5:56:55	69	8 On	Rev	On	Off	0	107
5:56:56							
5:56:57	70	8 On	Rev	On	Off	0	107
5:56:58						-	
5:56:59	71	8 On	Rev	On	Off	0	107
5:57:00	71	8 On	Rev	On	Off	0	107
5:57:00	73	8 On	Rev	On	Off	0	107
5.57.01	15	0.011	IVEN	OII	OII	U	107

5:57:02	73	8 On	Rev	On	Off	0	107
5:57:03	74	0.0-	Dev	0.5	0"	0	107
5:57:04 5:57:05	74	8 On	Rev	On	Off	0	107
5:57:06	75	8 On	Rev	On	Off	0	107
5:57:07		• •		•	•	Ū	
5:57:08	76	8 On	Rev	On	Off	0	107
5:57:09							
5:57:10	77	8 On	Rev	On	Off	0	107
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	80	4 On	Rev	On	Off	0	107
5:57:19			_			-	
5:57:20	82	4 On	Rev	On	Off	0	107
5:57:21	82	4 On	Rev	On	Off	0	107
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5:57:23						-	
5:57:24	82	4 On	Rev	On	Off	0	107
	82	4 On	Rev	On	Off	0	103
5:57:25	82	4 On	Rev	On	Off	0	103
	82	4 On	Rev	On	Off	5	103
5:57:26	83	4 On	Rev	On	Off	5	103
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5:57:51 5:57:52 5:57:53 5:57:54 5:57:55 5:57:56 5:57:57 5:57:59 5:58:00 5:58:01 5:58:02 5:58:03 5:58:04 5:58:05 5:58:04 5:58:05 5:58:08 5:58:09 5:58:10 5:58:10 5:58:11 5:58:12 5:58:13 5:58:14 5:58:16 5:58:16	84 84 84	4 On 4 On 4 On	Rev Rev Rev	On On	Off Off	4 4 0	103 107 107
5:58:17 5:58:18 5:58:19 5:58:20 5:58:21 5:58:22 5:58:23 5:58:24 5:58:25 5:58:25 5:58:26 5:58:27 5:58:28	84	8 On	Rev	On	Off	0	107
5:58:29 5:58:30 5:58:31 5:58:32	83	8 On	Rev	On	Off	0	107
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5:59:30	74	1 On	Rev	Off	Off	91	0
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5:59:31	73 Idle	On	Rev	Off	Off	91	0
	73 Idle	On	Rev	Off	Off	91	0
	73	2 On	Rev	Off	Off	91	0
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	73	2 On	Rev	Off	On	91	0
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5:59:32	70	2 On	Rev	Off	On	91	0
	70	2 On	Rev	Off	On	91	0
	70	2 On	Rev	Off	On	41	0
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5:59:35	65	2 On	Rev	Off	On	6	0
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5:59:36	64	2 On	Rev	Off	On	2	0
5:59:37	62	2 On	Rev	Off	On	2	0
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	62	1 On	Rev	Off	On	2	0
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	58	1 On	Rev	Off	On	28	0
5:59:42	57	1 On	Rev	Off	On	28	0
	57	1 On	Rev	Off	On	52	0
5:59:43	56	1 On	Rev	Off	On	52	0
	56	1 On	Rev	Off	On	74	0
5:59:44	54	1 On	Rev	Off	On	74	0
	54	1 On	Rev	Off	On	86	0
5:59:45	52	1 On	Rev	Off	On	86	0
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	52	4 On	Rev	On	On	90	0
	52	4 On	Rev	On	On	90	0
	52	3 On	Rev	On	On	90	0
	52	1 On	Rev	On	On	90	0
	52	1 On	Rev	Off	On	90	0
	52	1 On	Fwd	Off	On	90	0
	52	1 On	Fwd	Off	On	90	0
	52	1 On	Fwd	Off	On	90	0
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	48 Idle	On	Fwd	Off	Off	90	0
	48 Idle	On	Fwd	Off	Off	90	0
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	48	1 On	Rev	On	Off	90	0
	48	1 On	Rev	Off	Off	90	0
	48	1 On	Rev	Off	Off	90	0
	48	1 On	Rev	Off	On	90	0
	48	3 On	Rev	Off	On	90	0
	48	3 On	Rev	On	On	90	0
	48	3 On	Fwd	On	On	90	0
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	1	1 On	Rev	On	On	93	0
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	1 Idle	On	Rev	On	Off	93	0
	1	2 On	Rev	On	Off	93	0
	1 Idle	On	Rev	On	Off	93	0
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5:59:49	1	8 On	Rev	On	Off	93	0
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	0	6 On	Fwd	On	On	93	0
	0	6 On	Fwd	On	On	93	0
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