

METRO ORANGE LINE CAPACITY REPORT



PURPOSE OF REPORT

- TO DETERMINE THE MAXIMUM RIDERSHIP CAPACITY OF THE METRO ORANGE LINE (REQUESTED BY THE GOVERNANCE COUNCIL).
- TO DEVELOP A TOOL FOR LINE MANAGMENT AND PLANNING FUTURE CHANGES TO ACCOMMODATE RIDERSHIP GROWTH.

POTENTIAL ORANGE LINE RIDERSHIP GROWTH AND IMPACTS

- ***CURRENT WEEKDAY BRDGS = 25,475***
(Zero violations of 120% load standard)
- 10% INCREASE = 2,548 Riders
(5 to 10 minor violations of 120% load standard)
- 15% INCREASE = 3,823 Riders
(10 to 15 violation of the 120% load standard)
- 20% INCREASE = 5,095 Riders
(15 to 20 violations of the 120% load standard and
passenger pass-ups and overloads.

ORANGE LINE
MAXIMUM PHYSICAL CAPACITY
60 FOOT COACHES

- ASSUMES CURRENT ENVIRONMENT (27 BUSES, 4 MINUTE HEADWAYS, EXISTING SIGNAL PRIORITY & LEVEL TRAFFIC GROWTH).
- CURRENT BRGDS (25,475) X 120%
LOAD= MAXIMUM CAPACITY (30,720)
WEEKDAY BRDGS.

ORANGE LINE

MAXIMUM PHYSICAL CAPACITY

ASSUMES 65 FOOT COACHES

- ASSUMES INTRODUCTION OF 65 FT. ARTICULATED BUSES, CURRENT SCHEDULED TRIPS & SIGNAL PRIORITY)
- CURRENT BRGDS (25,475) X 140%
LOAD = MAXIMUM CAPACITY (35,665)
WEEKDAY BRDGS.

ORANGE LINE BOARDINGS PROFILE

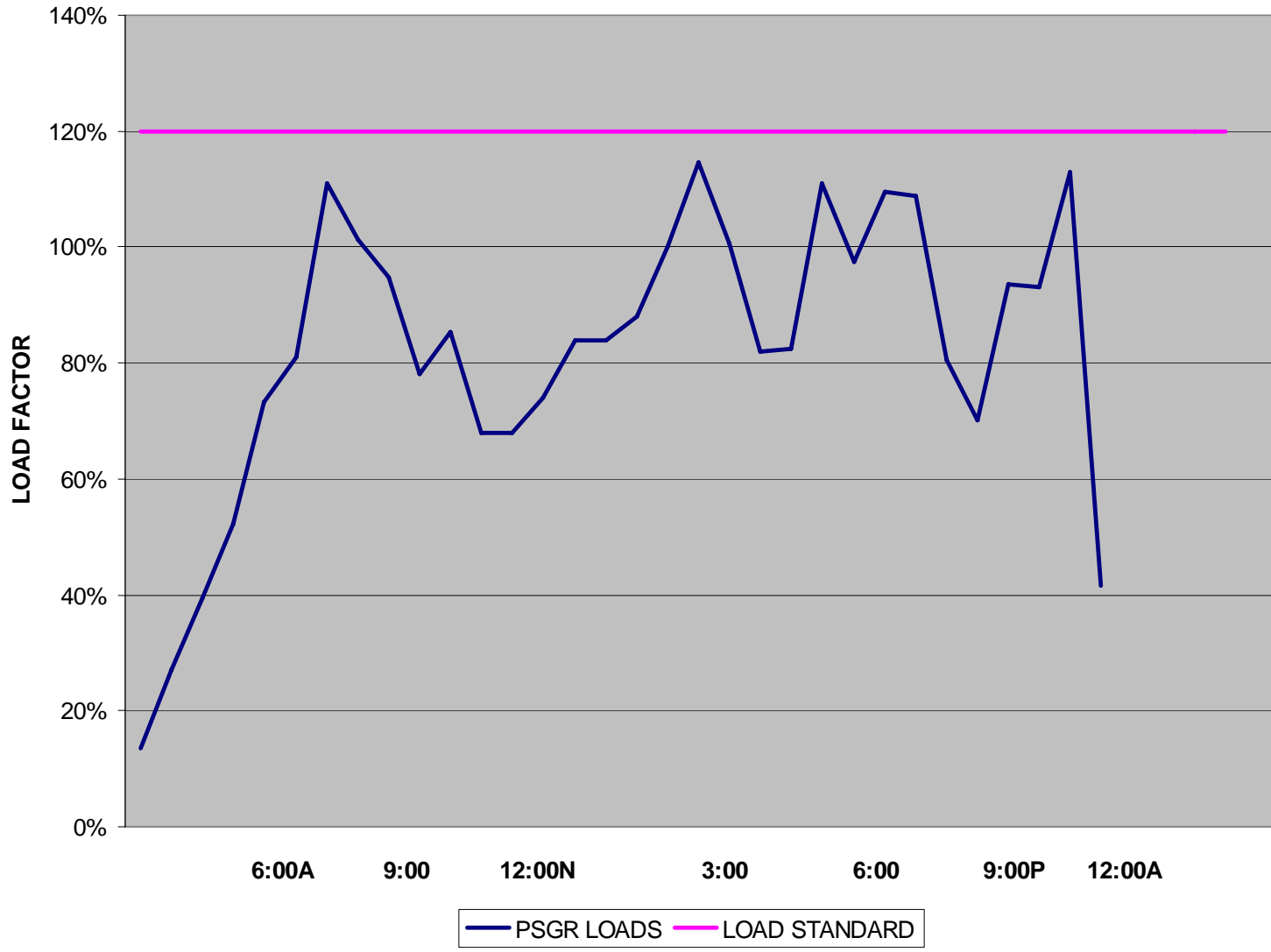
- AVG. WEEKDAY BRDGS = 25,475

BREAKDOWN BY TIME OF DAY

- EARLY (4 – 6am) BRDGS = 1.7%
- AM (6 – 9am) BRDGS = 21.9%
- MIDDAY (9- 3pm) BRDGS = 32.9%
- PM (3 – 6pm) BRDGS = 25.4%
- EVENING (6 – 9pm) BRDGS = 12.3%
- NIGHT (9–1next am) BRDGS = 5.7%



ORANGE LINE PSGR LOADS - EASTBOUND

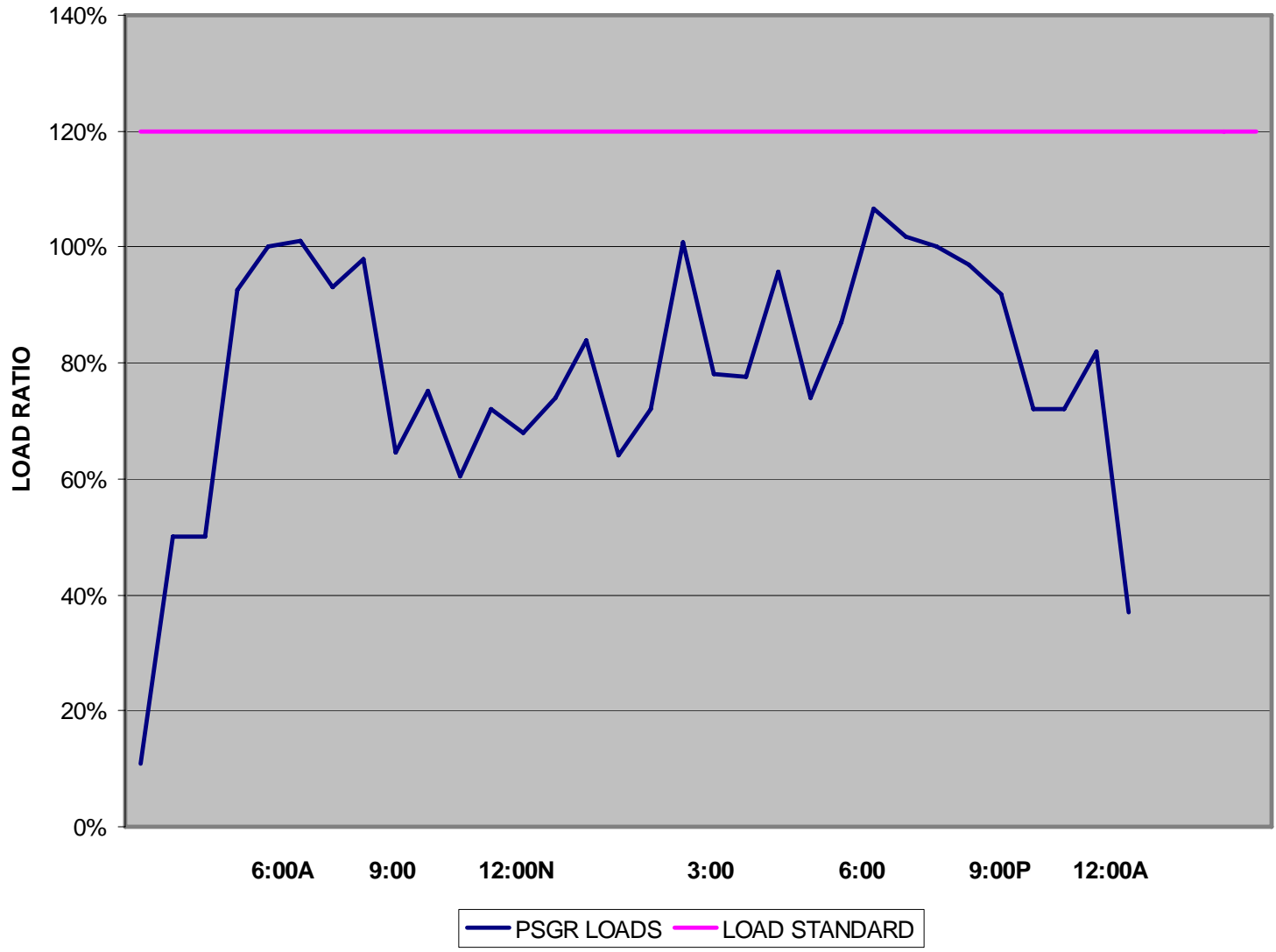


METRO ORANGE LINE ON-BOARD CAPACITY

SUMMARY			
EASTBOUND			
TIME	MAX	LOAD	UNUSED
<u>OF DAY</u>	<u>PERIOD</u>	<u>RATIO</u>	<u>CAPACITY</u>
AM	7:20-7:40A	111%	9 – 30%
MIDDAY	2:00-3:00P	88%	12-30%
PM	3:20-3:40P	115%	5 – 20%
NIGHT	9:00 –10:00P	93%	27 %

NOTE: ORANGE LINE LOAD STANDARD EQUALS 120% OF SEATED CAPACITY OR 68 PASSENGERS PER METRO ORANGE LINE BUS.

ORANGE LINE PSGR LOADS - WESTBOUND



METRO ORANGE LINE ON-BOARD CAPACITY SUMMARY

WESTBOUND			
TIME	MAX	LOAD	UNUSED
<u>OF DAY</u>	<u>PERIOD</u>	<u>RATIO</u>	<u>CAPACITY</u>
AM	7:00-7:20A	101%	19 – 30%
MIDDAY	12:00-1:00P	84%	16-30%
PM	5:00 –5:20P	107%	13 – 20%
NIGHT	10:00 –11:00P	82%	38%

NOTE: ORANGE LINE LOAD STANDARD EQUALS 120% OF SEATED CAPACITY OR 68 PASSENGERS PER METRO ORANGE LINE BUS.

Questions and discussion

