

# List of Figures

Figure No.	Description	Page
1-1	Logan Airport Looking Toward Boston Harbor .....	1-4
1-2	Logan Airport.....	1-5
2-1	Distribution of Logan Airport Passengers by Market Segment – 2005.....	2-3
2-2	Mix of Scheduled Passenger Aircraft Operations at Logan Airport by Aircraft Class .....	2-4
2-3	Aircraft Operations at Logan Airport by Aircraft Class.....	2-4
2-4	Low Cost Carrier Share of Scheduled Daily Domestic Seat Capacity at Logan Airport, 2000 to 2005.....	2-6
2-5	Overall Load Factor, Logan Airport-Originating Flights and US-Originating Flights .....	2-7
2-6	Average Seats Per Scheduled Departure, Logan Airport Flights and Domestic US Flights.....	2-8
2-7	US Scheduled Airlines' Net Income (\$ Billions) – 1990 to 2005.....	2-12
2-8	US Scheduled Airline Passenger Enplanements (In Millions) – 1990 to 2005.....	2-13
2-9	Average Yield For US Scheduled Domestic Airlines – 2000 to 2005.....	2-13
2-10	Average Unit Cost for US Scheduled Domestic Airlines – 2000 to 2005 .....	2-14
2-11	Average Unit Cost of Fuel for US Scheduled Domestic Airlines – 1990 to 2005 .....	2-15
2-12	Low Cost Carrier Share of Total Domestic US Passengers, 1990 to 2005.....	2-16
3-1	Location of Projects/Planning Concepts in the Terminal Area .....	3-6
3-2	Logan Airport Service Areas .....	3-8
3-3	Location of Projects/Planning Concepts in the Service Areas .....	3-11
3-4	Location of Projects/Planning Concepts on the Airside.....	3-14
3-5	Location of Airport Edge Buffer Projects/Planning Concepts .....	3-16
3-6	Location of Commercial Parking Projects/Planning Concepts .....	3-20
4-1	New England Regional Transportation System.....	4-3
4-2	Passenger Activity Levels at Logan Airport and Surrounding Airports.....	4-3
4-3	Regional Airport Share of New England Airport Passengers .....	4-5
5-1	Logan International Airport 2005 Roadway Network.....	5-3

# 2005 EDR

## LOGAN INTERNATIONAL AIRPORT

Figure No.	Description	Page
5-2	Logan Airport - Public Transportation Options .....	5-5
5-3	MBTA Blue Line Ridership .....	5-8
5-4	Logan Express Bus Ridership .....	5-11
5-5	Limousine and Van/Bus Ridership .....	5-11
5-6	Water Transportation.....	5-13
5-7	Taxi Dispatches.....	5-14
5-8	2005 Weekly Maximum Commercial Parking Occupancies.....	5-22
6-1	Relative Contributions of Commercial Jet Operations and Noise at Logan Airport in 2005.....	6-11
6-2	Recertified vs. New Stage 3 Commercial Nighttime Operations 2005.....	6-13
6-3	Logan Airport Runways in 2005.....	6-15
6-4	Runway Use.....	6-17
6-5	Modeled Arrival Profiles to Runway 33L.....	6-19
6-6	Air Carrier – RealContours™ Departure Flight Tracks.....	6-20
6-7	Air Carrier – RealContours™ Arrival Flight Tracks.....	6-21
6-8	Regional Jet- RealContours™ Departure Flight Tracks.....	6-22
6-9	Regional Jet - RealContours™ Arrival Flight Tracks.....	6-23
6-10	Non Jet - RealContours™ Departure Flight Tracks.....	6-24
6-11	Non Jet - RealContours™ Arrival Flight Tracks.....	6-25
6-12	60-75 DNL Contours for 2005 Operations.....	6-27
6-13	Comparison of 65 DNL Contours for 2004 and 2005 Operations.....	6-28
6-14	Noise Monitor Locations.....	6-33
6-15	Comparison of Annual Hours of Dwell Exceedance by Runway End for 2004 and 2005.....	6-38
6-16	Comparison of Annual Hours of Persistence Exceedance by Runway End for 2004 and 2005.....	6-38
7-1	Emissions of VOCs at Logan Airport.....	7-7
7-2	Sources of VOC Emissions in 2005.....	7-7
7-3	Emissions of NO <sub>x</sub> at Logan Airport.....	7-9
7-4	Sources of NO <sub>x</sub> Emissions in 2005.....	7-11
7-5	Emissions of CO at Logan Airport.....	7-12
7-6	Sources of CO Emissions in 2005.....	7-12
7-7	Sources of PM <sub>2.5</sub> Emissions in 2005.....	7-15
7-8	Massport NO <sub>2</sub> Monitoring Sites.....	7-17
7-9	NO <sub>x</sub> Emissions Compared to AQI.....	7-19
8-1	Logan Airport Outfalls.....	8-3

**2005 EDR**  
LOGAN INTERNATIONAL AIRPORT

<b>Figure No.</b>	<b>Description</b>	<b>Page</b>
8-2	Massachusetts Contingency Plan Sites .....	8-8
9-1	Runway End Safety Improvements .....	9-2
9-2	West Garage Project .....	9-5
9-3	International Gateway Project .....	9-20
9-4	Replacement Terminal A Project.....	9-25
9-5	Logan Airside Improvements.....	9-29