

THE CALCULATION OF THE NOISE CONTOURS FOR EAST LONDON AIRPORT

1. PURPOSE OF THE STUDY

To calculate the DNL-contours for East London Airport in accordance with the procedures of SANS 10117.

2. INTRODUCTION

East London Airport is located to the west of the city of East London, and the area falls under the jurisdiction of the Buffalo City Municipality. The airport is used for scheduled, business, medical and training flights and non-scheduled charter operations.

Air traffic is regulated by local air traffic control and follows generalised approach and departure tracks in good weather, and standard instrument departures (SID's) and standard terminal arrival routes (STAR's) usually in poor weather, as well as a number of other factors. These include the type of aircraft, operation, destination or origin of the flight, weather and air traffic conditions.

Although the present air traffic is fairly limited, growth is expected over the coming years. In addition, a large area around the airport consists of agricultural holdings, which may become available for higher density developments. Aircraft noise generally is considered to be particularly disturbing to communities. For effective planning, it is therefore of great importance to reliably estimate future noise levels in the area due to aircraft noise emissions.

The latest available version of the FAA's Integrated Noise Model, i.e. Version 6.1, was used to model aircraft noise emissions with the latest available operational data for the airport.