SCOTTSDALE AIRPORT

14 CFR Part 150
Noise Compatibility Study

NOISE EXPOSURE MAPS UPDATE

Prepared For

The City of Scottsdale, Arizona

By

Coffman Associates, Inc.

September 2004

The preparation of this document was financed in part through a planning grant from the Federal Aviation Administration (FAA) as approved under the Airport and Airway Improvement Act of 1982, as amended. The contents of this report do not necessarily reflect the official views or policy of the FAA. Acceptance of this report by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein, nor does it indicate that the proposed development is environmentally acceptable in accordance with applicable public laws.
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WELCOME TO THE TECHNICAL ADVISORY TEAM

Appendix B
COORDINATION, CONSULTATION, AND PUBLIC
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Appendix C
EVALUATION OF CURRENT NOISE
COMPATIBILITY PROGRAM

Appendix D
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TECHNICAL INFORMATION PAPERS

GLOSSARY OF NOISE COMPATIBILITY TERMS
THE MEASUREMENT AND ANALYSIS OF SOUND EFFECTS OF NOISE EXPOSURE
MEASURING THE IMPACT OF NOISE ON PEOPLE
AIRCRAFT NOISE AND LAND USE COMPATIBILITY GUIDELINES
FEDERAL AVIATION NOISE REGULATIONS
This document is the Noise Exposure Map document prepared for the City of Scottsdale, owner and operator of Scottsdale Airport. The Noise Exposure Maps presented in this document are intended to update and supersede the Noise Exposure Maps accepted by the Federal Aviation Administration (FAA) on June 6, 1996.

The Noise Exposure Maps documentation for the Airport presents current aircraft noise impacts and anticipated impacts in five years. The documentation contains sufficient information so that reviewers unfamiliar with local conditions and the local public unfamiliar with the technical aspects of aircraft noise can understand the findings.

This Noise Exposure Maps document includes the first four chapters of the complete Title 14, Code of Federal Regulations (CFR), Part 150 Noise Compatibility Study. Chapter One, Inventory, presents an overview of the airport, airspace, aviation facilities, existing land uses, and local land use policies and regulations.

Chapter Two, Aviation Forecasts, examines the existing and potential demand for aviation activity at the airport.

Chapter Three, Aviation Noise, explains the methodology used to develop aircraft noise contours. It also describes the key input assumptions used for noise modeling.

Chapter Four, Noise Impacts, presents existing and forecast aircraft noise exposure based on the assumption of no additional noise abatement efforts. This provides baseline data for
evaluating potential noise abatement strategies in the second part of the study. It also analyzes the impact of the baseline aircraft noise on noise-sensitive land uses and the resident population.

Supplemental information is provided in appendices and Technical Information Papers. Appendix A lists the members of the Technical Advisory Team (TAT) that were consulted throughout the planning process. It also includes an explanation of the role of the TAT in the process.

Appendix B, Coordination, Consultation, and Public Involvement, summarizes the planning process, local coordination, and the public involvement process.

Appendix C contains the INM Assumptions and Output Report. This report provides detailed tables which depict reported aircraft operations, runway use, and day/nighttime operation split by aircraft type.

Five Technical Information Papers are provided for reference and background. These papers include the Glossary of Noise Compatibility Terms, The Measurement and Analysis of Sound, Effects of Noise Exposure, Measuring the Impact of Noise on People, and Noise and Land Use Compatibility Guidelines.

The official Noise Exposure Maps are presented in this section following page viii. For the convenience of FAA reviewers, the FAA's official Noise Exposure Map checklist is presented on pages iii through vii.
### 14 CFR, PART 150

**NOISE EXPOSURE MAP CHECKLIST**

**AIRPORT NAME:** Scottsdale Airport  
**Scottsdale, Arizona**  
**REVIEWER:** _________________

<table>
<thead>
<tr>
<th>Yes/No/NA</th>
<th>Page No./Other Reference</th>
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#### I. IDENTIFICATION AND SUBMISSION OF MAP DOCUMENT:

A. Is this submittal appropriately identified as one of the following, submitted under 14 CFR Part 150:
   1. a NEM only?  
   2. a NEM and NCP?  
   3. a revision to NEMs which have previously been determined by FAA to be in compliance with Part 150?  
   
   - Yes  
   - No  

B. Is the airport name and the qualified airport operator identified?  
   - Yes  
   - Title Page, p. i

C. Is there a dated cover letter from the airport operator which indicates the documents are submitted under Part 150 for appropriate FAA determination?  
   - Yes  
   - p. viii

#### II. CONSULTATION: [150.21(b), A150.105(a)]

A. Is there a narrative description of the consultation accomplished, including opportunities for public review and comment during map development?  
   - Yes  
   - Appendix B; and supplemental volume, Supporting Information on Project Coordination and Local Consultation

B. Identification:
   1. Are the consulted parties identified?  
   - Yes  
   - Appendices A and B; and supplemental volume, Supporting Information on Project Coordination and Local Consultation

   2. Do they include all those required by 150.21(b) and A150.105(a)?  
   - Yes  
   - Appendices A and B; and supplemental volume, Supporting Information on Project Coordination and Local Consultation

C. Does the documentation include the airport operator’s certification, and evidence to support it, that interested persons have been afforded adequate opportunity to submit their views, data, and comments during map development and in accordance with 150.21(b)?  
   - Yes  
   - p. viii; Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation

D. Does the document indicate whether written comments were received during consultation and, if there were comments, that they are on file with the FAA region?  
   - Yes  
   - Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation
### 14 CFR PART 150
**NOISE EXPOSURE MAP CHECKLIST**

**AIRPORT NAME:** Scottsdale Airport  
*Scottsdale, Arizona*  

**REVIEWER:** ________________

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<th>III. GENERAL REQUIREMENTS: [150.21]</th>
<th>Yes/No/NA</th>
<th>Page No./Other Reference</th>
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</thead>
<tbody>
<tr>
<td>A. Are there two maps, each clearly labeled on the face with year (existing condition year and 5-year)?</td>
<td>Yes</td>
<td>See NEM Maps, Exhibits 1 &amp; 2 after p. viii</td>
</tr>
</tbody>
</table>
| B. Map currency:  
  1. Does the existing condition map year match the year on the airport operator’s submittal letter? | No | |
| 2. Is the 5-year map based on reasonable forecasts and other planning assumptions and is it for the fifth calendar year after the year of submission? | No | |
| 3. If the answer to 1 & 2 above is no, has the airport operator verified in writing that data in the documentation are representative of existing condition and 5-year forecast conditions as of the date of submission? | Yes | Current year is labeled 2004, based on actual operations for that year (includes estimate of operation when tower is closed). |
| C. If the NEM and NCP are submitted together:  
  1. Has the airport operator indicated whether the 5-year map is based on 5-year contours without the program vs. contours if the program is implemented? | N/A | |
| 2. If the 5-year map is based on program implementation:  
  a. are the specific program measures which are reflected on the map identified? | N/A | |
|  b. does the documentation specifically describe how these measures affect land use compatibilities depicted on the map? | N/A | |
| 3. If the 5-year NEM does not incorporate program implementation, has the airport operator included an additional NEM for FAA determination after the program is approved which shows program implementation conditions and which is intended to replace the 5-year NEM as the new official 5-year map? | N/A | |
# 14 CFR PART 150
## NOISE EXPOSURE MAP CHECKLIST

**AIRPORT NAME:** Scottsdale Airport  
**Scottsdale, Arizona**

**REVIEWER:** _________________

<table>
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<tr>
<td>Yes/No/NA</td>
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<tr>
<td>-----------</td>
</tr>
<tr>
<td>A.</td>
</tr>
<tr>
<td>B.</td>
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</tbody>
</table>
| C.        | Depiction of the airport and its environs.  
1. Are the following graphically depicted to scale on both the existing conditions and 5-year maps:  
   a. airport boundaries?  
   b. runway configurations with runway end numbers? | Yes | See NEM Maps after p. viii |
|           | 2. Does the depiction of the off-airport data include:  
   a. a land use base map depicting streets and other identifiable geographic features?  
   b. the area within the 65 Ldn (or beyond, at local discretion)?  
   c. clear delineation of geographic boundaries and the names of all jurisdictions with planning and land use control authority within the 65 Ldn (or beyond, at local discretion)? | Yes | See NEM Maps after p. viii |
| D.        | Continuous contours for at least the 65, 70, and 75 Ldn? | Yes | See NEM Maps after p. viii |
|           | 2. Based on current airport and operational data for the existing condition year NEM, and forecast data for the 5-year NEM? | Yes | See 2009 NEM after p. viii; Chapter Two, p. 2-1, pp. 2-8 - 2-22 |
| E.        | Flight tracks for the existing condition and 5-year forecast timeframes (these may be on supplemental graphics which must use the same land use base map as the existing condition and 5-year NEM), which are numbered to correspond to accompanying narrative? | Yes | Chapter Three, Exhibits 3E, 3F, and 3G after p. 3-8 |
| F.        | Locations of any noise monitoring sites (these may be on supplemental graphics which must use the same land use base map as the official NEMs) | Yes | Chapter Three, Exhibits 3L after p. 3-18 |
| G.        | Noncompatible land use identification:  
1. Are noncompatible land uses within at least the 65 Ldn depicted on the maps? | Yes | See NEM Maps after p. viii |
|           | 2. Are noise-sensitive public buildings identified? | Yes | See NEM Maps after p. viii |
# 14 CFR PART 150

## NOISE EXPOSURE MAP CHECKLIST

**AIRPORT NAME:** Scottsdale Airport  
**Scottsdale, Arizona**

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<th>Yes/No/NA</th>
<th>Page No./Other Reference</th>
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<tbody>
<tr>
<td>3.</td>
<td>Are the noncompatible uses and noise-sensitive public buildings readily identifiable and explained on the map legend?</td>
<td>Yes</td>
</tr>
<tr>
<td>4.</td>
<td>Are compatible land uses, which would normally be considered noncompatible, explained in the accompanying narrative?</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### V. NARRATIVE SUPPORT OF MAP DATA: [150.21(a), A150.1, A150.101, A150.103]

#### A. 1. Are the technical data, including data sources, on which the NEMs are based adequately described in the narrative?  
Yes | Chapter Three, pp. 3-2 - 3-8

#### A. 2. Are the underlying technical data and planning assumptions reasonable?  
Yes | Chapter Three, pp. 3-2 - 3-8

#### B. Calculation of Noise Contours:

##### 1. Is the methodology indicated?  
| a. | is it FAA approved? | Yes | Chapter Three, p. 3-2 |
| b. | was the same model used for both maps? | Yes | Chapter Three, p. 3-2 |
| c. | has AEE approval been obtained for use of a model other than those which have previous blanket FAA approval? | N/A | |

##### 2. Correct use of noise models:  
| a. | does the documentation indicate the airport operator has adjusted or calibrated FAA-approved noise models or substituted one aircraft type for another? | No | Chapter Three, pp. 3-4 - 3-6. No calibrations done. Some composite aircraft descriptors used. |
| b. | if so, does this have written approval from AEE? | N/A | All aircraft INM designators used are on AEE’s pre-approved list of substitutions. |

#### 3. If noise monitoring was used, does the narrative indicate that Part 150 guidelines were followed?  
Yes | Our measurement program is discussed in Chapter 3 and can be described as a “survey type” program. Please see FAA AC 150/5020-1, Noise Control and Compatibility Planning for Airports, pp. 12-17. Our results indicate reasonable agreement between measurements and INM predictions. Where the measured values deviated from INM predictions, it was explained by operations differing from average annual conditions. |
# 14 CFR PART 150
## NOISE EXPOSURE MAP CHECKLIST

**AIRPORT NAME:** Scottsdale Airport  
**Scottsdale, Arizona**

<table>
<thead>
<tr>
<th>4. For noise contours below 65 Ldn, does the supporting documentation include explanation of local reasons? (Narrative explanation is highly desirable but not required by the Rule.)</th>
<th>Yes</th>
<th>Page No./Other Reference</th>
</tr>
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<tr>
<td></td>
<td>Yes</td>
<td>Chapter Three, p. 3-9, Chapter Four, pp. 4-3 - 4-4, T.I.P., Noise and Land Use Compatibility Guidelines</td>
</tr>
</tbody>
</table>

**C. Noncompatible Land Use Information:**

<table>
<thead>
<tr>
<th>1. Does the narrative give estimates of the number of people residing in each of the contours (Ldn 65, 70, and 75 at a minimum) for both the existing condition and 5-year maps?</th>
<th>Yes</th>
<th>Chapter Four, pp. 4-7 - 4-10</th>
</tr>
</thead>
</table>
| 2. Does the documentation indicate whether Table 1 of Part 150 was used by the airport operator?  
a. If a local variation to Table 1 was used;  
(1) does the narrative clearly indicate which adjustments were made and the local reasons for doing so?  
(2) does the narrative include the airport operators complete substitution for Table 1? | N/A | Chapter Four, pp. 4-2 - 4-3 |

<table>
<thead>
<tr>
<th>3. Does the narrative include information on self-generated or ambient noise where compatible/noncompatible land use identification consider non-airport/aircraft sources?</th>
<th>No</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Where normally noncompatible land uses are not depicted as such on the NEMs, does the narrative satisfactorily explain why, with reference to the specific geographic areas?</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>5. Does the narrative describe how forecasts will affect land use compatibility?</td>
<td>Yes</td>
<td>Chapter Four, pp. 4-6 - 4-11</td>
</tr>
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</table>

## VI. MAP CERTIFICATIONS: [150.21(b), 150.21(e)]

<table>
<thead>
<tr>
<th>A. Has the operator certified in writing that interested persons have been afforded adequate opportunity to submit views, data, and comments concerning the correctness and adequacy of the draft maps and forecasts?</th>
<th>Yes</th>
<th>Certification statements on NEM Maps and p. viii</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Has the operator certified in writing that each map and description of consultation and opportunity for public comment are true and complete?</td>
<td>Yes</td>
<td>Certification statements on NEM Maps and p. viii</td>
</tr>
</tbody>
</table>
SPONSOR’S CERTIFICATION

The Noise Exposure Maps and accompanying documentation for Scottsdale Airport, including the description of consultation and opportunity for public involvement, are submitted in accordance with 14 CFR Part 150, and hereby certified as true and complete to the best of my knowledge and belief. It is hereby certified that adequate opportunity has been afforded interested persons to submit views, data, and comments on the Noise Exposure Maps and forecasts. It is further certified that the 2004 Noise Exposure Map and supporting data are fair and reasonable representations of existing conditions at the airport.

_________________________ ___________________________________
Date of Signature Scott T. Gray
Scott T. Gray
Airport Director
Scottsdale Airport
City of Scottsdale