GEORGETOWN MUNICIPAL AIRPORT

F.A.R. Part 150
Noise Compatibility Study

Noise Exposure Maps
GEORGETOWN MUNICIPAL AIRPORT

F.A.R. Part 150
Noise Compatibility Study Update

NOISE EXPOSURE MAPS

Prepared For The
City of Georgetown

By
Coffman Associates

November 2003
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THE MEASUREMENT AND ANALYSIS OF SOUND EFFECTS OF NOISE EXPOSURE
MEASURING THE IMPACT OF NOISE ON PEOPLE
NOISE AND LAND USE COMPATIBILITY GUIDELINES
This document is the Noise Exposure Map document prepared for Georgetown Municipal Airport, which is owned and operated by the City of Georgetown, Texas.

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 F.A.R. 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 Activity Forecasts, presents forecasts for general aviation activity. Forecasts are broken down by type of activity - single engine aircraft, multi-engine aircraft, turboprop, jet, and helicopter.

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

Chapter Four, Noise Exposure and 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 Planning Advisory Committee (PAC) that were consulted throughout the planning process. It also includes an explanation of the role of the PAC in the process.

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


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

Appendix E provides information that indicates the data used to establish the 2001 (existing) and five-year conditions are still representative of current and five-year conditions.

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 vii. For the convenience of FAA reviewers, the FAA's official Noise Exposure Map checklist is presented on pages iii through vi.
# F.A.R. PART 150
## NOISE EXPOSURE MAP CHECKLIST

**AIRPORT NAME:** Georgetown Municipal Airport  
*Georgetown, Texas*

**REVIEWER:**

<table>
<thead>
<tr>
<th>I. IDENTIFICATION AND SUBMISSION OF MAP DOCUMENT:</th>
<th>Yes/No/NA</th>
<th>Page No./Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Is this submittal appropriately identified as one of the following, submitted under F.A.R. Part 150:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. a NEM only?</td>
<td>Yes</td>
<td>Title Page, p. i</td>
</tr>
<tr>
<td>2. a NEM and NCP?</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3. a revision to NEMs which have previously been determined by FAA to be in compliance with Part 150?</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>B. Is the airport name and the qualified airport operator identified?</td>
<td>Yes</td>
<td>Title Page, p. i</td>
</tr>
<tr>
<td>C. Is there a dated cover letter from the airport operator which indicates the documents are submitted under Part 150 for appropriate FAA determination?</td>
<td>Yes</td>
<td>p. viii</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. CONSULTATION: [150.21(b), A150.105(a)]</th>
<th>Yes</th>
<th>Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Is there a narrative description of the consultation accomplished, including opportunities for public review and comment during map development?</td>
<td>Yes</td>
<td>Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</td>
</tr>
<tr>
<td>B. Identification:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Are the consulted parties identified?</td>
<td>Yes</td>
<td>Appendices A and B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</td>
</tr>
<tr>
<td>2. Do they include all those required by 150.21(b) and A150.105(a)?</td>
<td>Yes</td>
<td>Appendices A and B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</td>
</tr>
<tr>
<td>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)?</td>
<td>Yes</td>
<td>p. viii; Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</td>
</tr>
<tr>
<td>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?</td>
<td>Yes</td>
<td>Appendix B, and supplemental volume, Supporting Information on Project Coordination and Local Consultation</td>
</tr>
</tbody>
</table>
# F.A.R. PART 150
## NOISE EXPOSURE MAP CHECKLIST

**AIRPORT NAME:** Georgetown Municipal Airport  
**Georgetown, Texas**  

**REVIEWER:**

<table>
<thead>
<tr>
<th>III. GENERAL REQUIREMENTS: [150.21]</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong> Are there two maps, each clearly labeled on the face with year (existing condition year and 5-year)?</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>B.</strong> Map currency:</td>
<td></td>
</tr>
<tr>
<td>1. Does the existing condition map year match the year on the airport operator's submittal letter?</td>
<td>Yes</td>
</tr>
<tr>
<td>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?</td>
<td>Yes</td>
</tr>
<tr>
<td>3. If the answer to 1 &amp; 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?</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| 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 | |
### IV. MAP SCALE, GRAPHICS, AND DATA REQUIREMENTS:

[A150.101, A150.103, A150.105, 150.21(a)]

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
<th>NA</th>
<th>Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Are the maps sufficient scale to be clear and readable (they must not be less than 1&quot; to 8,000'), and is the scale indicated on the maps?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>B. Is the quality of the graphics such that required information is clear and readable?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>C. Depiction of the airport and its environs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Is the following graphically depicted to scale on both the existing conditions and 5-year maps:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. airport boundaries?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>b. runway configurations with runway end numbers?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>2. Does the depiction of the off-airport data include:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. a land use base map depicting streets and other identifiable geographic features?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>b. the area within the 65 Ldn (or beyond, at local discretion)?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>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)?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>D. Continuous contours for at least the 65, 70, and 75 Ldn?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>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?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See Appendix E and Chapter Three, pp. 3-16 - 3-17</td>
</tr>
<tr>
<td>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)</td>
<td>Yes</td>
<td></td>
<td></td>
<td>Chapter Three, Exhibit 3A after p. 3-4</td>
</tr>
<tr>
<td>G. Noncompatible land use identification:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Are noncompatible land uses within at least the 65 Ldn depicted on the maps?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
<tr>
<td>2. Are noise-sensitive public buildings identified?</td>
<td>Yes</td>
<td></td>
<td></td>
<td>See NEM Maps after p. viii</td>
</tr>
</tbody>
</table>
**F.A.R. PART 150**

**NOISE EXPOSURE MAP CHECKLIST**

**AIRPORT NAME:** Georgetown Municipal Airport  
**Georgetown, Texas**

**REVIEWER:**

<table>
<thead>
<tr>
<th>Yes/No/NA</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3.</strong> Are the noncompatible uses and noise-sensitive public buildings readily identifiable and explained on the map legend?</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>4.</strong> 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?  
   a. is it FAA approved?  
   b. was the same model used for both maps?  
   c. has AEE approval been obtained for use of a model other than those which have previous blanket FAA approval?

<table>
<thead>
<tr>
<th>Yes/No/NA</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Chapter Three, pp. 3-7 - 3-13</td>
</tr>
<tr>
<td>Yes</td>
<td>Chapter Three, pp. 3-7 - 3-13</td>
</tr>
<tr>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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?  
   b. if so, does this have written approval from AEE?

<table>
<thead>
<tr>
<th>Yes/No/NA</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
</table>
   | No | Chapter Three, pp. 3-8 - 3-13  
   | Some calibrations done.  
   | Some composite aircraft descriptors used.  
   | All aircraft INM designators used are on AEE's pre-approved list of substitutions. |
   | N/A |

3. If noise monitoring was used, does the narrative indicate that Part 150 guidelines were followed?

<table>
<thead>
<tr>
<th>Yes/No/NA</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Our measurement program is discussed in Chapter 3 and can be described as a &quot;survey type&quot; 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</td>
</tr>
</tbody>
</table>
**F.A.R. PART 150**

**NOISE EXPOSURE MAP CHECKLIST**

**AIRPORT NAME:** Georgetown Municipal Airport  
Georgetown, Texas  

**REVIEWER:** ____________

<table>
<thead>
<tr>
<th></th>
<th>Yes/No/NA</th>
<th>Page No/Other Reference</th>
</tr>
</thead>
</table>
| 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.) | NA | |
|   | C. Noncompatible Land Use Information: | |
|   | 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? | Yes | Chapter Four, pp. 4-6 - 4-7, pp. 4-9 - 4-10 |
|   | 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; | Yes | Chapter Three, pp. 4-2 - 4-3 |
|   | (1) does the narrative clearly indicate which adjustments were made and the local reasons for doing so? | N/A | |
|   | (2) does the narrative include the airport operators complete substitution for Table 1? | N/A | |
|   | 3. Does the narrative include information on self-generated or ambient noise where compatible/noncompatible land use identification consider non-airport/aircraft sources? | No | |
|   | 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? | N/A | |
|   | 5. Does the narrative describe how forecasts will affect land use compatibility? | Yes | Chapter Four, pp. 4-6 - 4-10 |

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

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?

|   | Yes | Certification statements on NEM Maps and p. viii |

B. Has the operator certified in writing that each map and description of consultation and opportunity for public comment are true and complete?

|   | Yes | Certification statements on NEM Maps and p. viii |
SPONSOR’S CERTIFICATION

The Noise Exposure Maps and accompanying documentation for Georgetown Municipal Airport, including the description of consultation and opportunity for public involvement, submitted in accordance with F.A.R. Part 150, are hereby certified as true and complete to the best of my knowledge and belief. It is further certified, to the best of my knowledge and belief, that adequate opportunity has been afforded interested persons to submit views, data, and comments concerning the correctness and adequacy of the Noise Exposure Maps and forecast aircraft operations.

Signed by

Gary Nelon – Mayor
City of Georgetown
The Noise Exposure Maps and accompanying documentation for Georgetown Municipal Airport, including the description of consultation and opportunity for public involvement, submitted in accordance with F.A.R. Part 150, are hereby certified as true and complete to the best of my knowledge and belief. It is further certified, to the best of my knowledge and belief, that adequate opportunity has been afforded interested persons to submit views, data, and comments concerning the correctness and adequacy of the Noise Exposure maps and forecast aircraft operations.

Date of Signature
Gary Nelon
Mayor, City of Georgetown

LEGEND

- Detailed Land Use Study Area
- Municipal Boundary
- Airport Property
- 2003 DNL Noise Exposure Contour, Significant Effect
- Residential Low Density
- Residential Medium Density
- Recreational Vehicle Park
- Noise Sensitive Institutions
  - School
  - Day Care Facility
  - Community Center
  - Residential Care Facility
  - Place of Worship
  - Cemetery

Source: Aerial Photography, dated April 4, 2001
Corrigan Consulting, Inc.
Coffman Associates Analysis
The Noise Exposure Maps and accompanying documentation for Georgetown Municipal Airport, including the description of consultation and opportunity for public involvement, submitted in accordance with F.A.R. Part 150, are hereby certified as true and complete to the best of my knowledge and belief. It is further certified, to the best of my knowledge and belief, that adequate opportunity has been afforded interested persons to submit views, data, and comments concerning the correctness and adequacy of the Noise Exposure maps and forecast aircraft operations.

Date of Signature: Gary Nelon
Mayor, City of Georgetown

Source: Aerial Photography, dated April 4, 2001
Corrigan Consulting, Inc.
City of Georgetown Century Plan, updated 1996.
City of Georgetown Zoning Ordinance, April 26, 2000.
Coffman Associates Analysis.