



NOISE COMPATIBILITY PROGRAM



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*F.A.R. Part 150
Noise Compatibility Study Update
Phoenix Sky Harbor
International Airport*

INTRODUCTION

This is the Noise Compatibility Program (NCP) document for Phoenix Sky Harbor International Airport, owned and operated by the City of Phoenix. The NCP is the second of two parts required in a Federal Aviation Regulation (F.A.R.) Part 150 Noise Compatibility Study. It includes Chapters Four, Five, and Six of the study in addition to six appendices. The first volume, the Noise Exposure Maps, which includes the first three chapters of the study, was published in March 2000.

Chapter Four of the Noise Compatibility Program, Noise Abatement Alternatives, discusses and analyzes potential methods of reducing

or shifting aircraft noise away from noise sensitive areas.

Chapter Five, Land Use Alternatives, analyzes potential land use planning and zoning techniques to prevent the development of new noise-sensitive land uses in areas exposed to aircraft noise. It also examines alternative ways of mitigating noise impacts on existing residential areas that will remain exposed to aircraft noise in the future.

Chapter Six presents the Noise Compatibility Program. This includes the City's noise compatibility policies. The plan is organized into four elements: noise abatement, noise mitigation, land use management, and program management. The first three elements are based on the findings of Chapters Four and Five. The program

management element includes measures to administer, refine, and update the overall program as needed in the future.

Appendix A lists the members of the Planning Advisory Committee (PAC) who were consulted throughout the planning process.

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

Appendix C provides detailed information pertaining to aircraft operations, runway use, and day/night operations used to develop the 1999 noise exposure contours. Appendix C is contained within the Noise Exposure Maps document.

Appendix D depicts the Maricopa County sound insulation standards for jurisdictions within the 65 DNL noise contours.

The Arizona Revised Statutes pertaining to Public Airport Disclosure and Airport Influence Areas are presented in Appendix E.

Appendices F and G present sample noise and aviation easements and potential land use implementation materials, respectfully.

For the convenience of FAA reviewers, the FAA's official Noise Compatibility Program Checklist is presented on pages iii through viii. The City's certification statement is on page ix.

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AIRPORT NAME: *Phoenix Sky Harbor International Airport* **REVIEWER:** _____
Phoenix, Arizona

	Yes/No/NA	Page No./ Other Reference
I. IDENTIFICATION AND SUBMISSION OF PROGRAM:		
A. Submittal is properly identified:		
1. F.A.R. 150 NCP?	Yes	Title Page; p. i
2. NEM and NCP together?	No	
3. Program revision?	No	
B. Airport and Airport Operator's name identified?	Yes	Title Page; p. i
C. NCP transmitted by airport operator cover letter?	Yes	
II. CONSULTATION: [150.23]		
A. Documentation includes narrative of public participation and consultation process?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
B. Identification of consulted parties:		
1. all parties in 150.23(c) consulted?	Yes	Appendix A; Appendix B; and supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
2. public and planning agencies identified?	Yes	Appendix A; Appendix B; and supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
3. agencies in 2, above, correspond to those indicated on the NEM?	Yes	Appendix A; Appendix B; and supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
C. Satisfies 150.23(d) requirements?		
1. documentation shows active and direct participation of parties in B, above?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
2. active and direct participation of general public?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"

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3. participation was prior to and during development of NCP and prior to submittal to FAA?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
4. indicates adequate opportunity afforded to submit views, data, etc.?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
D. Evidence included of notice and opportunity for a public hearing on NCP?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
E. Documentation of comments:		
1. includes summary of public hearing comments, if hearing was held?	Yes	Appendix B; supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
2. includes copy of all written material submitted to operator?	Yes	Supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
3. includes operator's responses/disposition of written and verbal comments?	Yes	Supplemental volume titled "Supporting Information on Project Coordination and Local Consultation"
F. Informal agreement received from FAA on flight procedures?	Yes	The local tower manager indicated qualified acceptance of noise abatement measures and was involved in the Planning Advisory Committee (PAC) meetings. FAA representative from Airports Division of the Western Pacific Region also received all study materials.

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<p>III. NOISE EXPOSURE MAPS: [150.23, B150.3, 150.35(f)] (This section of the checklist is not a substitute for the Noise Exposure Map Checklist. It deals with maps in the context of the Noise Compatibility Program submission.)</p>		
<p>A. Inclusion of NEMs and supporting documentation:</p>		
1. Map documentation either included or incorporated by reference?	N/A	
2. Maps previously found in compliance by FAA?	N/A	
3. Compliance determination still valid?	N/A	
4. Does 180-day period have to wait for map compliance finding?	N/A	
<p>B. Revised NEMs submitted with program: (Review using NEM checklist if map revisions included in NCP submittal)</p>		
1. Revised NEMs included with program?	N/A	
2. Has airport operator requested FAA to make a determination on the NEM(s) when NCP approval is made?	N/A	
<p>C. If program analysis uses noise modeling:</p>		
1. INM, HNEM, or FAA-approved equivalent?	N/A	
2. Monitoring in accordance with A150.5?	N/A	
<p>D. Existing condition and 5-year maps clearly identified as the official NEMs?</p>		
	N/A	
<p>IV. CONSIDERATION OF ALTERNATIVES: [B150.7, 150.23(e)]</p>		
<p>A. At a minimum, are the alternatives below considered?</p>		
1. land acquisition and interests therein, including air rights, easements, and development rights?	Yes	Chapter 5, pp. 5-19, 5-21, 5-23 - 5-28, & 5-31 - 5-37
2. barriers, acoustical shielding, public building soundproofing?	Yes	Chapter 4, pp. 4-13 - 4-14 & 4-44 - 4-46 Chapter 5, pp. 5-28 - 5-31 & Exhibit 5J Chapter 6, p 6-2
3. preferential runway system?	Yes	Chapter 4, pp. 4-6 - 4-9, pp. 4-30 - 4-34

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4. flight procedures?	Yes	Chapter 4, p. 4-6, pp. 4-9 - 4-10, pp. 4-14 - 4-18, & pp. 4-34 - 4-42 Chapter 6, pp. 6-2-6-6
5. restriction on type/class of aircraft (at least one restriction below must be checked)		
a. deny use based on Federal standards?	Yes	Chapter 4, pp. 4-18 - 4-29
b. capacity limits based on noisiness?	Yes	Chapter 4, pp. 4-27 - 4-28
c. noise abatement takeoff/approach procedures?	Yes	Chapter 4, pp. 4-14 - 4-18
d. landing fees based on noise or time of day?	Yes	Chapter 4, pp. 4-23 - 4-24
e. nighttime restrictions?	Yes	Chapter 4, pp. 4-21 - 4-22
6. other actions with beneficial impact?	Yes	Chapter 4, pp. 4-11 - 4-13 & pp. 4-28 - 4-29
7. other FAA recommendations?	N/A	
B. Responsible implementing authority identified for each considered alternative?	Yes	Chapter 4, p. 4-34, p. 4-37, p. 4-39, p. 4-42 Chapter 5, p. 5-4, p. 5-39 Table 5C Chapter 6, 6-6-6-39, Table 6F p. 6-39
C. Analysis of alternative measures:		
1. measures clearly described?	Yes	Chapter 4, pp. 4-3 - 4-49
2. measures adequately analyzed?	Yes	Chapter 4, pp. 4-3 - 4-49
3. adequate reasoning for rejecting alternatives?	Yes	Chapter 4, pp. 4-3 - 4-49 Chapter 5, pp. 5-3 - 5-39
D. Other actions recommended by the FAA: Should other actions be added? (list separately or on back of this form actions and discussions with airport operator to have them included prior to the start of the 180-day cycle)	N/A	

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<p>V. ALTERNATIVES RECOMMENDED FOR IMPLEMENTATION: [150.23(e), B150.7(c); 150.35(b), B150.5]</p>		
<p>A. Document clearly indicates:</p> <p>1. alternatives recommended for implementation?</p> <p>2. final recommendations are airport operators, not those of consultant or third party?</p>	<p>Yes</p> <p>Yes</p>	<p>Chapter 6, pp. 6-6 - 6-36, Table 6F, p. 6-37</p> <p>Sponsor's Certification, p. IX</p>
<p>B. Do all program recommendations:</p> <p>1. relate directly or indirectly to reduction of noise and noncompatible land uses?</p> <p>2. contain description of contribution to overall effectiveness of program?</p> <p>3. noise/land use benefits quantified to extent possible?</p> <p>4. include actual/anticipated effect on reducing noise exposure within noncompatible area shown on NEM?</p> <p>5. effects based on relevant and reasonable expressed assumptions?</p> <p>6. have adequate supporting data to support its contribution to noise/land use compatibility?</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p>Chapter 6, pp. 6-6 - 6-42</p> <p>Chapter 6, pp. 6-34 - 6-35</p> <p>Chapter 4, p. 4-48 & Table 4P Chapter 5, p 5-38 & Table 5C Chapter 6, pp. 6-34 - 6-35</p> <p>Chapters 6, p. 6-15 Exhibits 6C, 6D, 6E</p> <p>Chapter 4, pp. 4-30 - 4-49 Table 4P, p. 4-48 Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37</p> <p>Chapters 4, 6 & 7</p>
<p>C. Analysis appears to support program standards set forth in 150.35 (b) and B150.5?</p>	<p>Yes</p>	<p>Chapters 4, 6 & 7</p>
<p>D. When use restrictions are recommended:</p> <p>1. are alternatives with potentially significant noise/compatible land use benefits thoroughly analyzed so that appropriate comparisons and conclusions can be made?</p> <p>2. use restrictions coordinated with APP-600 prior to making determination on start of 180-days?</p>	<p>N/A</p> <p>N/A</p>	<p>No use restrictions recommended</p>
<p>E. Do the following also meet Part 150 analytical standards:</p> <p>1. formal recommendations which continue existing practices?</p>	<p>Yes</p>	<p>Chapter 6, pp. 6-6 - 6-10, p. 6-15, 6-22, 6-23, 6-24, 6-26, 6-32, & 6-33 Table 6F, p. 6-37</p>

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2. new recommendations or changes proposed at end of Part 150 process?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
F. Documentation indicates how recommendations may change previously adopted plans?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
G. Documentation also:		
1. identifies agencies which are responsible for implementing each recommendation?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
2. indicates whether those agencies have agree to implement?	Yes	Sponsor's Certification on p. IX. By approving NCP, Airport Authority has agreed to seriously consider implementation of the measures for which it has sole responsibility, provided that funding is available. It has also agreed to encourage other organizations and agencies to take any recommended actions per NCP.
3. indicates essential government actions necessary to implement recommendations?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
H. Timeframe:		
1. includes agreed-upon schedule to implement alternatives?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
H. Timeframe:		
1. includes agreed-upon schedule to implement alternatives?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
2. indicates period covered by the program?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
I. Funding/Costs:		
1. includes costs to implement alternatives?	Yes	Chapter 6, pp. 6-6 - 6-37 Table 6F, p. 6-37
2. includes anticipated funding sources?	Yes	Chapter 6, pp. 6-18 - 6-39 Table 7E, p. 6-43
VI. PROGRAM REVISION [150.23(e)(9)] Supporting documentation includes provision for revision?	Yes	Chapter 6, pp. 6-33 - 6-34

SPONSOR'S CERTIFICATION

The Noise Compatibility Program and accompanying documentation for Phoenix Sky Harbor International Airport, including the description of consultation and opportunity for public involvement, submitted in accordance with F.A.R. 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 Compatibility Program and supporting documentation.

Date of Signature

David Krietor
Aviation Director
Phoenix Sky Harbor International Airport