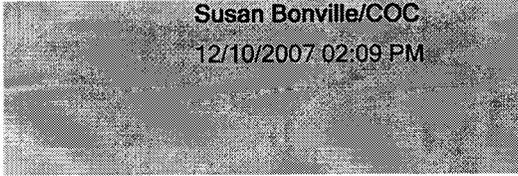


Add info #34

DEC 13 2007



Susan Bonville/COC
12/10/2007 02:09 PM

To CityClerkDivision
cc
bcc
Subject Fw: Enforce Noise abatement policies

---- Forwarded by Susan Bonville/COC on 12/10/2007 02:09 PM ----



Robert Matthews
<azbdmatt@yahoo.com>
12/10/2007 12:44 PM

To julianlu@qwest.net, mayorandcouncil@chandleraz.gov,
greg_chenoweth@ci.chandler.az.us,
chandler@arizonarepublic.com,
jeff.weninger@chandleraz.gov
cc
Subject Enforce Noise abatement policies

I have been one of the outspoken ones now for awhile regarding the constant noise from Quantum helicopters. Our quality of life is constantly interrupted by never ending rotor noise of the helicopters. So it will come as no surprise to you that I have another complaint.

It has been the City of Chandler's policy to have a voluntary noise abatement program for the City of Chandler heliport. A policy created by Quantum, agreed to by the city, never enforced, and no penalties for breaking their 'word' - noise abatement that is at best a joke!!

Quantum only has two policies, 1. fly after 7:30 am 2. no flights on Sunday. Guess what - on Sunday 12/09/07 Quantum started flying at 7:30 breaking their OWN policy and continued to fly overhead ALL day. I know that the council would love to have this 'situation' go away....but without your help - it never will. You simply CANNOT allow Quantum to make a joke out of the City sponsored policy that is a joke in itself. The City of Chandler DOES NOT have an enforceable Noise Abatement program. That is unbelievable for a city of this size.

I was told I would be included in the noise study that was to start in November of this year. We are now in December and still no word of any kind. It makes me wonder - where is the city council????

Regards
Dirk Matthews
602-616-7425
2531 S Dragoon Dr
Chandler Az 85286

Never miss a thing. Make Yahoo your home page.
<http://www.yahoo.com/r/hs>



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA08-127**

1. Agenda Item Number:
34
2. Council Meeting Date:
December 13, 2007

TO: MAYOR & COUNCIL

3. Date Prepared: November 26, 2007

THROUGH: CITY MANAGER

4. Requesting Department: Public Works

5. SUBJECT: Award a project agreement to Wilbur Smith Associates for Federal Aviation Regulation (FAR) Part 150 Noise Compatibility Study for Chandler Municipal Airport, Project No. AI0702-201, in an amount not to exceed \$326,476.

6. RECOMMENDATION: Staff recommends that Council award a project agreement to Wilbur Smith Associates for Federal Aviation Regulation (FAR) Part 150 Noise Compatibility Study for Chandler Municipal Airport, Project No. AI0702-201, in an amount not to exceed \$326,476.

7. BACKGROUND/DISCUSSION: A FAR Part 150 Noise Compatibility Study (Noise Study) is a mechanism allowed by federal law to assess aviation noise issues and provide recommendations for mitigating those noise impacts. The Chandler Municipal Airport completed a Noise Study in 1999. Continued growth of air traffic operations at the Chandler Municipal Airport and development near the airport since the 1999 study warrants an update to that prior study. The Federal Aviation Administration (FAA) and the Arizona Department of Transportation (ADOT) provided matching grants for this update. This project will have a planning advisory committee with industry representatives and nearby residents, and will conduct three public meetings. It will begin in January 2008 and last for approximately one year.

8. EVALUATION: On September 6, 2007, Council approved a one-year extension to the annual agreement with Wilbur Smith Associates. This contract extension is the final option year of the annual airport planning contract EN0506-101. The hourly rates for this contract were compared to standard industry rates and found to be acceptable.

9. FINANCIAL IMPLICATIONS:

Cost: \$326,476
Savings: N/A
Long Term Costs: N/A

Fund Source:

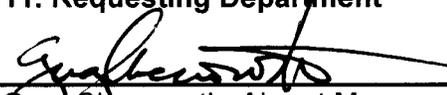
<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
217.4110.0000.6910.7AI374	Grants in Aid	Airport Noise Study	FY06/07	\$279,825
635.4110.0000.6910.7AI374	Airport Operating	Airport Noise Study	FY06/07	\$ 46,651

10. PROPOSED MOTION: Move that Council award a project agreement to Wilbur Smith Associates for Federal Aviation Regulation (FAR) Part 150 Noise Compatibility Study for Chandler Municipal Airport, Project No. AI0702-201, in an amount not to exceed \$326,476, and authorize the Mayor to sign the contract documents.

ATTACHMENTS: None

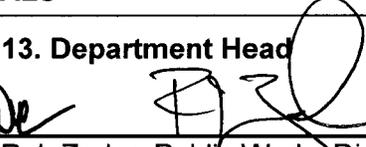
APPROVALS

11. Requesting Department



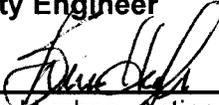
Greg Chenoweth, Airport Manager

13. Department Head



R.J. Zeder, Public Works Director

12. City Engineer



Sheina Hughes, Acting Assistant Public Works
Director/City Engineer

14. City Manager



W. Mark Pentz

**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN0506-101**

AGREEMENT NO: A10702-101

This AGREEMENT is made this _____ day of _____, 2007, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Wilbur Smith Associates, Inc., a South Carolina Corporation licensed to do business in the State of Arizona (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN0506-101.

CITY and Wilbur Smith Associates, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1. DESCRIPTION OF WORK

This project is FAR Part 150 Noise Compatibility Study, Project Number A10702-101. The scope of work consists of preparation of a FAR Part 150 Study, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

ARTICLE 2. CONTRACT PRICE

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed Three Hundred Twenty Six Thousand Four Hundred Seventy Six Dollars (\$326,476) determined and payable as set forth in Annual Contract EN0506-101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3. CONTRACT TIME

The contract time is Five Hundred Forty days and Annual Consultant agrees to complete all work within Five Hundred Forty (540) days of the date CITY issues a Notice to Proceed.

ARTICLE 4. GENERAL

This Project Agreement is entered into pursuant to Annual Contract No. EN0506-101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first written above.

This Agreement will be effective on this _____ day of _____, 2007.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

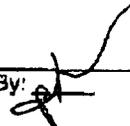
By: _____
Title: _____

ADDRESS FOR NOTICE
City of Chandler
P.O. Box 4008, Mail Stop 407
Chandler, AZ 85244-4008
480-782-3307

ADDRESS FOR NOTICE
Ms. Pamela Keidel
Wilbur Smith Associates
1508 W. Tara Dr.
Gilbert, AZ 85233

APPROVED AS TO FORM:

Phone: 775-4344
Fax: 775-2561

City Attorney By: 

ATTEST:

City Clerk

EXHIBIT A SCOPE OF WORK

ANNUAL CONSULTANT shall provide the following services:

TASK 1: WORK PROGRAM

Description: The development of the Scope of Services is an eligible Task in the preparation of a FAR Part 150 Study and is included herein as Task 1: Work Program. A detailed description of each item of work required for the Chandler Municipal Airport FAR Part 150 Study (Tasks 2 through 10) has been prepared based on guidelines drawn from appropriate FAA Regulations and Advisory Material. Each Task has been evaluated to estimate the number of man-hours and costs based on the billing classifications of the planning professionals assigned. Expenses by type, including but not necessarily limited to, such items as travel, materials and reproduction costs have also been estimated. In addition, a schedule to conduct the FAR Part 150 Study is provided.

Responsibilities:

Consultant: Develop the scope of work, budget, and schedule to base the contract terms.

Sponsor: Review and negotiate the scope of work, budget and schedule submitted by Consultant.

Product: A completed work program, man-hour and cost estimate, and schedule to conduct the FAR Part 150 Study.

TASK 2: BACKGROUND CONDITIONS

Sub-Task 2.1: Airfield Facilities and Operations

Description: Existing and planned physical facilities will be identified (based on the results of the Master Plan Update). Particular emphasis will be given to the description of the existing and proposed development projects as they may affect the overall noise pattern in the vicinity of the Airport.

A major component of this Sub-Task will be the identification of the baseline operations, fleet mix, time of day/night operations, stage lengths and other data relating to existing operational data for use as input into the Integrated Noise Model (INM) in Task 3. A baseline for 2008 will be developed using monthly data from 2007 and 2006, as the FAA's requirements are such that the baseline year must be the same as the year the FAR Part 150 Study is submitted for approval. This will require analysis above what was conducted as part of the Master Plan. The operational and fleet mix data developed as part of the Master Plan will be used as a basis and will be supplemented in this Sub-Task by the establishment of time of day/night operations, stage lengths of aircraft flights and other data relating to the INM input. Discussions with ATC personnel will be undertaken to confirm the local and itinerant splits reported in the data, focusing on how training operations are recorded.

As part of a FAR Part 150 Study, a future analysis is required for both a baseline condition (without recommended noise controls) and future (with proposed noise abatement measures). Operations and fleet mix for the future year will be forecasted based on the Master Plan and current Terminal Area Forecast (TAF) projections and growth rates. It is anticipated that two future years will be utilized, 2013 and 2028.

Responsibilities:

Consultant: Gather data from ATADS on monthly operations and develop baseline data for 2008. Develop future projections of demand for use in the FAR Part 150.

Sponsor: Review 2008 baseline data and projections of future demand. Provide input on which projects and the timing of anticipated construction.

Product: Written summary of projects and timing of their construction that would affect noise distribution patterns at the Airport and the development of existing and future operational-related data needed for input into the INM.

Sub-Task 2.2: Airspace/Air Traffic Control Data

Description: Airport area airspace and air traffic control procedures will be reviewed with Airport Management and ATC personnel on site using information from the Master Plan as a starting point.

Existing flight tracks into and out of the Airport will be identified based on data provided by ATC representatives with data from the Master Plan used as a starting point for further refinement. If radar data are available from the FAA, the consultant will collect a representative set of CHD flight tracks from the TRACON for use in developing the modeled tracks. This includes a description of local patterns used for flight training and itinerant patterns used by propeller aircraft, jet aircraft and helicopters. Special emphasis will be placed on helicopter flight tracks since the relocation of the helicopter facilities.

This information will result in graphics identifying the various aircraft flight tracks of aircraft operating into and out of the Airport.

Responsibilities:

Consultant: Determine air traffic control procedures and develop existing flight track information in written and graphic format.

Sponsor: Review and confirm flight tracks based on knowledge of Airport's operation.

Product: A written summary of airspace, air traffic control procedures and constraints present in the area. Flight track descriptions and graphics for arrivals and departures off each runway end will also be provided.

Sub-Task 2.3: Definition of Current Noise Abatement/Land Use Management Program

Description: Past efforts in the establishment of noise abatement procedures by the Airport's Management and the Tower and efforts to improve land use compatibility (by local governments) will be identified. Any procedures/programs now in place will be summarized. The Consultant will discuss the operational mitigation procedures, the extent of implementation and limitations of each technique with the Airport Management and ATC personnel. Existing measures which will continue will be listed and any changes suggested to current procedures will be reviewed as alternative noise mitigation measures under Task 5.1.

Existing land use control measures established by local governments for noise compatibility purposes within proximity of noise exposure contours will be determined through discussions with local land planning personnel and review of local land development codes.

Responsibilities:

Consultant: Conduct interviews with Airport and ATC personnel, as well as local planning officials regarding existing measures in place and their effectiveness.

Sponsor: Assist with interviews and review of product.

Product: Written summary of the operational and land use mitigation history at the Airport including the status of the current mitigation program. The effects of these existing measures will be evaluated under Task 5.1.

Sub-Task 2.4: Geographical Information Systems

Description: Data necessary for development of the off-Airport land use component of the FAR Part 150 Study will be obtained from the latest updated Geographical Information Systems available from local governments (City and County). This will include existing and planned land use data, property ownership files in areas of impact, property value data (from the property appraiser's database) and other data needed to estimate noise impacts.

Responsibilities:

Consultant: Contact local governments to obtain the latest data available from GIS system on existing and planned land use, property ownership, and property values.

Sponsor: Assist with City contacts and review of product.

Product: The accumulation of electronic data available from local political jurisdictions related to land use, adjacent roadways, and property ownership and valuation.

Sub-Task 2.5: Study Area Base Mapping

Description: Base mapping associated with the FAR Part 150 Study will be developed for several different geographical areas and at different scales. These differing areas relate to the type of data analysis and data display needs that require varying levels of detail in the mapping base. One base map, generally following the boundaries of census tracts, will encompass an area which includes the limits of the anticipated 55 DNL contours. The map will identify the airport boundary, political jurisdictions, major existing land uses, transportation systems, and physical constraints. This base map will also be prepared at an appropriate size for use as large display boards.

A second base map will be developed showing a larger area of coverage. This base map would be used to graphically display flight corridors. The map scale will be consistent with updated FAR Part 150 guidance. In addition, the map would be used as a base for identifying DNL 65 and 55 noise contours for documentation related to off-Airport land use planning.

Existing mapping available from the City of Chandler, City of Gilbert, Airport, and/or ADOT will be used, as available and appropriate, to depict the FAR Part 150 study's findings. The Consultant will meet with confirm the availability and appropriateness of the data from the City of Chandler to ensure the most up-to-date information is used in the study from the outset.

Responsibilities:

Consultant: Prepare base maps to meet FAR Part 150 requirements for use in analysis and display boards for public input.

Sponsor: Review base maps prepared by consultant. Provide existing maps as available.

Product: Two appropriately scaled CAD/GIS generated base maps of the study area.

Sub-Task 2.6: Land Use Inventory

Description: Existing land development patterns in the study area will be identified and quantified relative to their type of use (residential, commercial, industrial, institutional) including current uses and pending land development. Future land uses will be identified based on the most recent future land use plans available from local governments for the study area. In areas where residential development is planned, an estimate of the number of homes will be determined.

Sensitive sites including existing and proposed schools, existing churches, hospitals, nursing homes, parks, recreation areas and historic sites within the study area will also be identified through field reviews. These will be input into the data base and depicted on the base map showing the larger area of coverage described in Task 2.5 above.

Responsibilities:

Consultant: Gather data on existing and future land uses and development patterns in the identified study area, including sensitive sites for use in the data base and base mapping.

Sponsor: Review data and provide input on known future plans in the area.

Product: A working paper and base map exhibit overlays identifying sensitive sites and land uses in the study area.

Sub-Task 2.7: Land Use Planning and Management Documents Inventory

Description: Existing comprehensive plans, land use plans, zoning ordinances, subdivision regulations, building codes, easement terminology and other documentation pertaining to off-Airport land use in the vicinity of the Airport will be reviewed.

Responsibilities:

Consultant: Collect plans and other documents from area planning agencies and conduct interviews with local agencies as needed to confirm data.

Sponsor: Review data and provide input on known documents that are applicable.

Product: Written summary of the updated information pertaining to local planning and zoning requirements as they relate to the noise evaluation area.

Sub-Task 2.8: Review of Noise Complaints

Description: This Sub-Task will review the information available from Airport Management's records related to noise complaints. A summary of complaint areas and measures taken over recent years by Airport management and the FAA's ATC management to respond to complaints will be reviewed. Relationships of noise complaint locations to aircraft flight corridors and noise exposure areas will be correlated.

Responsibilities:

Consultant: Obtain information from Airport management and ATC regarding noise complaints.

Sponsor: Provide Consultant with data on previous noise complaints and noise monitoring, including locations.

Product: Written and graphic summary of noise complaint data.

Sub-Task 2.9: Population/Socioeconomic Data

Description: Existing and projected population data for the study area, available from local government agencies and/or from the 2000 U.S. Bureau of the Census, will be collected. Existing and future population density data by census tract and block, as available, will be mapped and used to identify levels of population within the study area. Recent aerial photography (if available) will be used to identify the dispersion of development within the study limits. Aerial photography available from the City of Chandler (flown November 2006) will be utilized for this study. If it is determined at the outset of the study or during the study that additional aerial photography is necessary in order to accurately depict conditions in the airport environment, new aerial photography will be priced and an addendum to the contract will be required to purchase new aerial photography.

Responsibilities:

Consultant: Obtain and review existing and projected population data for the study area at the smallest geographical area for which they are available.

Sponsor: Confirm the Consultant's data source as consistent with City needs.

Product: A working paper discussing existing and projected future population distribution and density in the Airport's vicinity. This information will be input as a layer in the Airport GIS base and will also be plotted graphically as a base map overlay.

Sub-Task 2.10: Aircraft Noise Measurements

Description: Aircraft noise measurements will be made at up to eight locations in the CHD environs. The measurements will consist of up to three days of 24-hour measurements at four of the sites with short-term measurements at the four remaining sites. The noise measurement sites will be attended during daylight hours and observations of aircraft overflights and other contributing noise sources will be made and logged. The measured noise data will be compared to the modeled noise levels, which will be developed in a later task.

Responsibilities:

Consultant: Supply noise measurement equipment and staff for conducting the noise measurements.

Sponsor: Assist the Consultant in identifying the measurements sites and securing permission for the measurements to be conducted on each property.

Product: Tables of measured noise levels that will be incorporated into Working Paper No. 1.

Sub-Task 2.11: Working Paper No. 1

Description: All data and analysis from Task 2 will be assembled and organized into a working paper describing existing conditions in the Airport area and presenting a preliminary assessment of issues to be addressed in the FAR Part 150 Study.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 2. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 3: NOISE EXPOSURE CONDITIONS

Sub-Task 3.1: Existing (Baseline) Noise Contours

Description: Using base year (2008) operations and fleet mix, the latest version of the FAA's Integrated Noise Model (INM) at the time of contract signing will be run to determine current aircraft noise exposure levels. These noise exposure levels will be compared to those developed as part of the Master Plan. Attention will be given to currently adopted operational noise abatement procedures for the Airport. Contours of equal noise exposure of 55, 60, 65, 70 and 75 DNL will be calculated. The 55 and 60 DNL contours will be included in the FAR Part 150 Study for use in considering potential land planning controls within the noise contour limits. The text will clearly delineate that the 55 and 60 DNL contours are beyond the limits of potential Federal funding for noise abatement/mitigation purposes. All assumptions used to develop the noise contours will be discussed in the text. These contours will be certified by the Consultant. Helicopter flight tracks and noise contours will be depicted on a separate, stand-alone graphic that will be presented at the public workshops and included in the study working papers.

Responsibilities:

Consultant: Run the latest version of the INM to determine current aircraft noise exposure levels from 55 to 75 DNL for the base year.

Sponsor: Review the results of the noise contour analysis and approve for use.

Product: Noise contours representing the existing noise exposure patterns for the Airport overlaid on both large scale and small scale base mapping. Text describing all noise model input data and the characteristics of the existing noise exposure patterns.

Sub-Task 3.2: Impact of Existing Aircraft Noise

Description: Impacts will be determined relative to the land use compatibility guidelines contained in Part 150 of the Federal Aviation Regulations. Population, housing and impacts to institutional uses will be calculated using the numbers of dwellings, people and land uses situated within each 5 DNL contour range for noise exposure levels of 65 DNL and above for the existing DNL contours developed in Sub-Task 3.1. Additional quantification of impacts (housing, population & institutional uses) in the 55 to 60 DNL and the 60 to 65 DNL contour ranges will be tabulated and used for considering long-range off-Airport planning to be evaluated in Task 6. Areas currently undeveloped within the 55 DNL will also be identified to indicate potential areas of future development.

Existing impacts at noise sensitive sites (in terms of DNL values) will be tabulated and areas of incompatible and compatible land uses will be identified on the current noise exposure map and provided in tabular form.

Responsibilities:

Consultant: Determine impacts of existing noise contours.

Sponsor: Review the product.

Product: Text and graphic depiction of the number of persons located within the significant ranges of the existing DNL contours, noise values at noise-sensitive sites, and land use areas impacted by aircraft noise by type of use will be presented.

Sub-Task 3.3: Working Paper No. 2

Description: All data and analysis from Task 3 will be assembled and organized into a working paper describing existing noise impacts in the Airport area.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 3. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 4: FUTURE NOISE EXPOSURE

Sub-Task 4.1: Future Aircraft Noise Exposure Without Operational Changes

Description: Future year INM contours will be prepared for 2013 and 2028. The Master Plan forecast will be used as an initial starting point for developing the future operations and fleet mix, but will be updated to reflect the most current activity levels at the Airport and the FAA's TAF. Contours of equal noise exposure of 55, 60, 65, 70 and 75 DNL will be calculated for the future year. These contours, based on current operational procedures, will provide the basis of the Future Noise Exposure Map.

The future 55 and 60 DNL contours will be included in the FAR Part 150 Study to be available for use by Airport Management and local planning officials for compatible land use planning purposes. The text will clearly delineate that the 55 and 60 DNL contours are beyond the limits of potential Federal funding for noise abatement/mitigation purposes. All assumptions used to develop the noise contours will be discussed in the text. These contours will be certified by the Consultant. Helicopter flight tracks and noise contours will be depicted on a separate, stand-alone graphic that will be presented at the public workshops and included in the study working papers.

Responsibilities:

Consultant: Develop future INM contours for 2013 and 2028 to include the 55 DNL.

Sponsor: Review future contours and approve for use.

Product: Noise contours representing the future noise exposure patterns for the Airport overlaid on the base mapping. Text describing all noise model input data and the characteristics of the future noise exposure patterns.

Sub-Task 4.2: Impact of Future Aircraft Noise

Description: Using the methodology presented under Sub-Task 3.2 for the existing (baseline) condition, the estimated impacts on population and incompatible land uses and zoning will be determined for the future noise exposure condition. This task will provide a means of comparing existing noise exposure impacts to future five-year impacts for land use compatibility and population. It will also provide the future baseline for comparison with the Alternatives Evaluation in Tasks 5 and 6.

Responsibilities:

Consultant: Determine impacts of future noise contours.

Sponsor: Review the product.

Product: Text and graphic depiction of the number of persons within the ranges of the future DNL contours, noise values at sensitive sites and land uses impacted by aircraft noise will be provided.

Sub-Task 4.3: Working Paper No. 3 and Noise Exposure Maps (NEM)

Description: All data and analysis from Task 4 will be assembled and organized into a working paper describing future noise impacts in the Airport area. In addition, the NEM will be submitted to FAA for review and approval. Documentation required in the NEM includes:

- Revisions of all draft working papers prepared in Tasks 2 through 4 and previously distributed for review by the Airport and PAC
- Description of the consultations with airport users, planning agencies, and the general public necessary to produce the Noise Exposure Maps and copies of all written comments received on study
- Preparation of FAA's Noise Exposure Maps checklist

Responsibilities:

Consultant: Draft narrative and graphics for the working paper and NEM. Distribute to PAC members via electronic means.

Sponsor: Review the working paper and NEM.

Product: A working paper describing existing conditions as described in Task 4 and the NEM. Two (2) pre-draft working papers and two (2) NEM will be submitted to the Airport for approval prior to electronic distribution to the PAC and the FAA.

TASK 5: NOISE ABATEMENT OPERATIONAL ALTERNATIVES

Sub-Task 5.1: Identification and Analysis of Operational Alternatives

Description: Operational alternatives will be evaluated which could reduce noise impacts on residences and other noise-sensitive land uses situated in proximity to the Airport. Alternatives will be identified in conjunction with input from representatives of the Airport Management and ATC personnel. The alternatives analysis will address each of the FAA identified requirements for analyzing operational alternatives under the FAR Part 150 program including consideration of modified turn locations and headings of aircraft, procedures related to time of day, and preferential runway systems. Helicopter flight tracks and noise contours will be used in the identification and analysis of alternatives.

In addition, up to three additional long-term operational alternatives will be evaluated as directed by Airport Management. These could include capacity noise evaluations, different years of analysis, different assumptions for future Stage 3 general aviation jet aircraft or other situations Airport Management would like to consider.

Responsibilities:

Consultant: Evaluate required alternatives and up to three additional operational alternatives.

Sponsor: Assist Consultant with consideration of additional operational alternatives.

Product: Text and graphic presentations describing all assumptions in the alternative scenarios to be analyzed. Development of noise contours and graphic overlays of contours on base maps as appropriate for each alternative scenario.

Sub-Task 5.2: Establish Criteria and Evaluate Operational Alternatives

Description: The operational alternatives analyzed in Sub-Task 5.1 will be evaluated to determine alternatives to be selected. The criteria would include the following evaluation factors:

- Number of residences and number of noise-sensitive non-residential uses impacted at exposure levels from 55 DNL to 75 DNL shown in 5 DNL increments.
- Cost and ability to implement.
- Qualitative evaluation of the relationship to airfield capacity and aircraft delay through discussions with FAA's ATC personnel.
- Consistency with Airport Management's policies.
- Effects on fuel consumption.

- Summary presentation in matrix format of the operational benefits (reduction in non-compatible uses, reduction in population affected etc.) and costs involved in the alternative procedures, (fuel costs and capital expenditure requirements).
- Ability to monitor conformance with each alternative procedure.

Based on the results of the analysis and consultation with Airport Management, recommendations will be made relating to existing and potential operational procedures for implementation to improve noise compatibility. Two INM runs will be developed to identify the results of the recommended procedure (future contours).

Responsibilities:

Consultant: Consult with Airport management regarding criteria for use in the evaluation of existing and potential operational procedures.

Sponsor: Assist Consultant in determining criteria and evaluating recommendations.

Product: Text presenting evaluation criteria and recommendations of operational procedure changes resulting from the analysis and two sets of noise contours for future conditions with proposed operational recommendations.

Sub-Task 5.3: Working Paper No. 4

Description: All data and analysis from Task 5 will be assembled and organized into a working paper describing operational alternatives.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 5. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 6: OFF-AIRPORT LAND USE COMPATIBILITY CONSIDERATIONS

Sub-Task 6.1: Current Land Use Control Program

Description: This Sub-Task will involve the comparison of the revised flight procedures or corridors, and noise contours resulting from Task 5, to the current off-Airport land use control program in place by local governments.

Responsibilities:

Consultant: Compare results of Task 5 analysis to current land use control program.

Sponsor: Review the results.

Product: Text indicating the relationship of the current off-Airport land use control program to the proposed operational procedures developed in Sub-Task 5.2

Sub-Task 6.2: Recommended Off-Airport Land Use Compatibility Program

Description: This sub-task will identify areas where changes may be appropriate to enhance compatibility between aircraft activity and future land use controls. This could include recommendations for modifications to local government comprehensive plans, land development codes, zoning ordinances, building permits, sound insulation requirements for new development, notification requirements, or other measures. Areas where Federal funding would be eligible for property acquisition and sound insulation would be identified.

Responsibilities:

Consultant: Recommend modifications to enhance compatibility based on discussions held with and input received from the Sponsor and other adjoining or affected Planning and Zoning Departments.

Sponsor: Review the results and coordinate discussions with Planning and Zoning Departments.

Product: Written text including appropriate graphics identifying recommendations related to off-Airport land use planning modifications and federal eligibility for acquisition/sound insulation and other land use measures.

Sub-Task 6.3: Working Paper No. 5

Description: All data and analysis from Task 6 will be assembled and organized into a working paper describing recommended off-Airport land use compatibility program.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 6. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 7: NOISE COMPATIBILITY PLAN

Sub-Task 7.1: Recommended Program

Description: Applying the results of the operational analyses (Task 5) and land use compatibility analyses (Task 6), a recommended program consisting of both operational and land use management procedures will be identified for the Airport. The finalization of these recommendations will include coordination with Airport Management and the FAR Part 150 Study PAC and Citizen committees (Task 8.1). This Sub-Task will include the organization of the recommended measures into final scenarios for current and 5-year implementation, as well as 20-year recommendations.

Based upon the recommended noise abatement procedures and land use mitigation, off-airport population and zoning and land use impacts will be identified, tabulated and documented. As required by the FAA, the text will indicate that the measures represent those recommended by the Airport operator.

Responsibilities:

Consultant: Develop recommended program.

Sponsor: Review recommended program and discuss with Consultant.

Product: Text with supporting graphics that identifies the recommended noise abatement and land use program elements.

Sub-Task 7.2: Implementation Actions

Description: An overview of the actions that would be needed to implement the recommended operational and land use related noise mitigation program would be prepared. These may include aircraft operational management policies and strategies, tower letters of agreement, notices to airmen, land development code amendments, property acquisition/insulation program and/or publicity documents. Each action will be identified in terms of the responsible agency, the nature of that responsibility, and actions that must be taken to initiate implementation. Estimated costs for implementing each action will be calculated and potential sources of funds to defray Airport costs will be identified.

This Task will be limited to the scope identified in the above paragraph. Any support necessary to accomplish the actual implementation is beyond the scope of these services.

Responsibilities:

Consultant: Identify implementation actions including responsible party, nature of responsibility, estimated costs, and potential sources of funds.

Sponsor: Assist with identifying implementation actions most likely to be implemented by City.

Product: A written summary and tabular matrix identifying the land use and operational related strategies and procedures for implementing the overall Noise Abatement Plan for the Airport.

Sub-Task 7.3: Working Paper No. 6

Description: All data and analysis from Task 7 will be assembled and organized into a working paper describing recommended noise compatibility program.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 7. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 8: COMMITTEE INVOLVEMENT

Community Involvement includes coordination with airport user groups, public agencies and communities affected by aircraft noise and overflights.

Sub-Task 8.1: Planning Advisory Committee (PAC) Meetings

Description: A committee called the Planning Advisory Committee (PAC) will serve as the principal forum for overall consultation with airport user groups and public agencies. The PAC will be advisory only and will provide input into the study and will review and comment on work products as the study proceeds. The make-up of the PAC will be as directed by the Airport Management.

Five (5) committee meetings will be conducted: a kick-off meeting including a discussion of the input for developing the baseline and future noise exposure contours; a meeting to review base noise contours developed and to discuss operational and land use alternatives which should be evaluated; a meeting to discuss preliminary results of operational and land use control options; a meeting to discuss the preliminary recommendations of the study; and a final meeting to discuss the submission to the FAA. All PAC meetings are planned to be held on the same day as the public workshops for the study.

Responsibilities:

Consultant: Distribute meeting notices to PAC. Provide presentations and necessary graphics at the meetings. Prepare meeting summaries. Distribute all handouts to PAC electronically.

Sponsor: Arrange the meeting date and time, coordinating with appropriate City officials. Arrange for meeting room.

Product: Attendance at meetings, agendas, graphics and handouts and minutes of each PAC meeting. The summaries of these meetings will be incorporated into an Appendix of the FAR Part 150 Study documenting this element of the public participation/coordination process.

Sub-Task 8.2: Working Paper No. 7

Description: All data and analysis from Task 8 will be assembled and organized into a working paper describing the committee meetings.

Responsibilities:

Consultant: Draft narrative and graphics for the working paper. Distribute to PAC members via electronic means.

Sponsor: Review the working paper.

Product: A working paper describing existing conditions as described in Task 8. Two (2) pre-draft working papers will be submitted to the Airport for approval prior to electronic distribution to the PAC.

TASK 9: PUBLIC WORKSHOP AND HEARING

Because the public will be interested in the FAR Part 150 Study, public workshops and one final public hearing will be held.

Sub-Task 9.1: Public Information Newsletters

Description: Two informational newsletters will be prepared for use at public forums and special presentations. The first would contain a brief summary of the FAR Part 150 process, schedule for the study, a brief history of the noise mitigation program at the Airport and commonly asked questions concerning a FAR Part 150 Study. The second newsletter, prepared toward the end of the study, would identify significant findings of the study and would include maps, graphs, tables and other materials to help present the study recommendations and mitigation results and land use management options in an understandable format.

Responsibilities:

Consultant: Prepare two public informational newsletters.

Sponsor: Review and approve public informational newsletters.

Product: Two public information newsletters will be developed for distribution to those attending special presentations and for workshop attendees. A total of 300 copies of each of these newsletters will be published. An electronic version of the newsletters will be provided on the website for the study.

Sub-Task 9.2: Public Information Workshops and Presentation/Q&A Sessions

Description: Technical analyses of aviation noise exposure and operational and land use mitigation measures would be discussed with the public in a community wide open house type informational workshops with follow up Presentation/Q&A sessions. Workshop attendees would have the opportunity to discuss the study with representatives from Airport Management and the Consultant. Airport Management will provide meeting facilities and newspaper advertisements for the workshops. The Consultant will provide all exhibits and handout material and assist Airport Management in writing public notices and preparing a summary of written comments received for documentation purposes. Three Consultant staff will attend the workshops. The Consultant will provide up to 100 handouts per public information workshop.

Four (4) public workshops will be conducted: a kick-off to include a review of the Part 150 process and review base noise contours developed and operational and land use alternatives being considered; a workshop to present preliminary results of operational and land use control options; a workshop to present the preliminary recommendations of the study; and a final meeting to present the final recommendations and submission to the FAA. The final public workshop would be conducted in concert with a presentation to City Council.

Announcement of the public workshops will be in the form of mailers to those in the study area. It is anticipated that up to 6,500 mailers will be sent for each of the four (4) public workshops.

Responsibilities:

Consultant: Provide presentations and necessary graphics for the workshops.

Sponsor: Arrange the meeting date and time, coordinating with appropriate City officials. Arrange for meeting room. Advertise the workshops. Develop, produce, and mail the public workshop announcements. Provide written record of comments received.

Product: Preparation for and attendance at four public information workshops. Graphic preparation of up to 15 exhibit boards, comment forms and sign-in sheets will be provided. A record of written comments received and responses to these comments will be provided.

Sub-Task 9.3: Public Hearing

Description: A duly advertised, formal Public Hearing will be held at an appropriate time and location upon the availability of the Draft FAR Part 150 Study report. The Consultant will be responsible for discussing the document with the public in an open-house workshop format for an hour prior to the formal portion of the public hearing. The Consultant will prepare presentation boards for the hearing and will also provide sign-in sheets, speaker cards and comment forms for the hearing. The public hearing will be held in conjunction with one of the two special presentations that are planned as part of the study.

Responsibilities:

Consultant: Provide mock-up of legal notice for publication. Provide brief presentation prior to Public Hearing which is conducted in conjunction with one of the special presentations. Provide responses to all comments.

Sponsor: Arrangements for the hearing site, newspaper advertisements, hearing officer (if appropriate) and preparation of a verbatim transcript of comments received. Review of responses to comments.

Product: Attendance at a formal public hearing, the preparation of hearing informational materials, and a record of comments and responses resulting from hearing input.

Sub-Task 9.4: Special Presentations

Description: The Consultant will conduct two (2) special presentations to public bodies as directed by Airport Management. One of these special presentations will be scheduled in conjunction with the public hearing.

Responsibilities:

Consultant: Conduct two special presentations to bodies such as Airport Commission and City Council or other groups as deemed appropriate, with one scheduled in conjunction with the public hearing.

Sponsor: Coordinate with Consultant on two special presentations.

Product: A total of two (2) special presentations over the course of the Study with supporting graphics and agenda materials.

TASK 10: REPORT PREPARATION AND WEBSITE DEVELOPMENT AND MAINTENANCE

Sub-Task 10.1: Draft and Final FAR Part 150 Reports (NEM and NCP)

Description: Following the completion of Tasks 1 through 4, two (2) copies of the pre-draft Noise Exposure Maps (NEM) report would be prepared for Airport Management's review. Upon completion of the review of the Pre-Draft, two (2) copies of the NEM report would be prepared for Airport Management's files and for submittal to the FAA for review and acceptance.

Prior to the public hearing, two (2) copies of the pre-draft FAR Part 150 report (including the NEM report and NCP report) would be prepared for Airport Management's review. Upon completion of the review of the Pre-Draft, two (2) copies of the Draft FAR Part 150 Study would be prepared and made available for public review. After completion of the Public Hearing, modifications to text and graphics will be made, as appropriate, and a Final FAR Part 150 Report will be prepared which contains the updated Noise Exposure Maps (NEMs) and the proposed Noise Compatibility Program (NCP). Two (2) copies of the Pre-Final report will be submitted to Airport Management for review. Following this review, two (2) copies of the final report will be provided to Airport Management and two (2) copies of the document provided to FAA for their review and approval. Following FAA review, 50 copies of the final FAR Part 150 report will be provided to Airport Management.

Responsibilities:

Consultant: Prepare pre-draft and pre-final NEM and NCP reports. Revise working pre-draft and pre-final reports and print final FAR Part 150 report.

Sponsor: Review pre-draft and pre-final reports and provide comments.

Product: Two copies of the Draft NEM and two (2) copies of the final NEM report. Two copies of the Pre-Draft FAR Part 150 report, two (2) copies of the Draft FAR Part 150 report, two (2) copies of the Draft Final FAR Part

150 Report and 50 copies of the Final FAR Part 150 Study report. The Final NEM and Part 150 Report will be compiled in PDF format on a CD. For each report, the CD will be organized with a "clickable" table of contents that shows links to the major elements or chapters of each report, including links to section headings, figures, tables, and exhibits.

Sub-Task 10.2: Website Development and Maintenance

Description: Using the website developed for the Master Plan, the Consultant will revise the website to provide public information on the FAR Part 150 study. The website will contain up to five (5) screens that provide information on the airport, the study, meeting materials, and the ability to submit comments.

Responsibilities:

Consultant: Revise the website developed for the Master Plan and maintain throughout the FAR Part 150 study.

Sponsor: Review the website's initial development and approve content for placement on the website.

Product: Website for use during the study.

Sub-Task 10.3: Summary Report

Description: This task includes the preparation of a final summary report of the FAR Part 150 Study. The report will summarize the study process, the scope of noise issues at the Airport, and describe the recommendations of the Noise Compatibility Program. The report will be designed for widespread distribution to the public. Five hundred (500) copies of the 11 x 17-inch summary report will be provided to the Airport, along with an electronic version in Photoshop format and in Acrobat .pdf format.

Responsibilities:

Consultant: Design and draft summary report for printing. Print final summary report.

Sponsor: Review and approve summary report for printing.

Product: Five hundred copies of summary report and an electronic version.

Sub-Task 10.4: Pilot Noise Awareness Brochure

Description: This task includes the preparation of a Pilot Noise Awareness brochure for use in implementing specific recommendations from the FAR Part 150 Study. The report will be designed for use by pilots operating at and around the Airport. Five hundred (500) copies of the 8.5 x 11-inch double sided summary report folded and 7-hole punched to fit the equivalent of an instrument chart binder will be provided to the Airport, along with an editable electronic version in Photoshop format.

Responsibilities:

Consultant: Design and draft training brochure for printing. Print final brochure.

Sponsor: Review and approve training brochure for printing.

Product: Five hundred copies of Pilot Noise Awareness brochure and an electronic version.

Sub-Task 10.5: FAA Coordination Assistance

Description: This task includes assistance to the Sponsor in coordinating and expediting Federal review of the document. Included in this Sub-Task are meetings with Airport Management and the FAA to jointly scan the document, to familiarize the reviewers with its contents, and to provide any helpful background information. Also included are follow-up phone calls to the FAA to resolve any issues, as well as responding to FAA comments and preparing addenda for the document following FAA review.

Responsibilities:

Consultant: Meet with Airport Management and FAA to review the study and its findings. Follow up with FAA until acceptance.

Sponsor: Coordinate meeting with appropriate City staff and FAA.

Product: Approved FAR Part 150 Study report.

TASK 11: MASTER PLAN ADDENDUM REPORT AND ALP REVISIONS

Sub-Task 11.1: Report Revisions

Description: The Master Plan and Airport Layout Plan for Chandler Municipal Airport was submitted for FAA and ADOT review in February 2007. During the review, it was noted that there are differences in runway length data from sources such as the Airport Facility Directory, 5010 Form, and FAA AVN. These differences are primarily related to runway lengths but also include runway end coordinates. Various survey data have placed the runway lengths at different lengths. Data in the master plan and ALP were based on information prior to the most recent FAA AVN database which notes a Part 405 survey completed on 12/15/05.

For this task, the survey data from 12/15/05 will be used to update all text, tables, and graphics in the master plan report. This will result in consistency in all data between the airport and the FAA in terms of runway lengths and runway end coordinates.

Responsibilities:

Consultant: Prepare revisions to master plan report.

Sponsor: Review pre-draft and revised master plan report.

Product: Twenty-five (25) copies of the final report will be provided to the sponsor for distribution. For the final report, a CD will be prepared and will be organized with a "clickable" table of contents that shows links to the major elements of each report, including links to section headings, figures, tables, and exhibits.

Sub-Task 11.2: ALP Revisions

Description: As previously noted, significant differences in data from the FAA and the airport were noted that change the entire report and ALP. Data in the master plan and ALP were based on information prior to the most recent FAA AVN database which notes a Part 405 survey completed on 12/15/05. For this task, the survey data from 12/15/05 will be used to update the ALP. This will result in consistency in all data between the airport and the FAA in terms of runway lengths and runway end coordinates.

Responsibilities:

Consultant: Prepare revisions to ALP.

Sponsor: Review revised ALP.

Product: Upon revision of the draft ALP, 10 copies will be prepared (2 for airport sponsor review; 1 for ADOT review; and 7 for FAA review). Once approved, 4 copies of the final ALP plan set will be produced. The sponsor will be provided the ALP plan set on a CD – one full set in AutoCAD and another full set in pdf format while ADOT will be provided a CD with the plan set in PDF format.

**EXHIBIT B
FEE SCHEDULE**

FAR PART 150 NOISE AND LAND USE COMPATIBILITY STUDY			Project Dir.	Sr. Plnr	Tech. Advr	Sr. Noise Special	Noise Special	Noise Tech.	Plnr	Graphi c/ Tech.	Admin	Total Hour	Total Budget
			\$205	\$120	\$216	\$157	\$ 125	\$ 87	\$85	\$70	\$55		
Task 1	Work Program	Shared											
	Direct Expenses												\$ -
	Labor		4	0	8	4	0	0	0	0	0	16	\$3,176
	Subtotal Task 1			0	8	4	0	0	0	0	0	16	\$3,176
Task 2	Background Conditions												\$ 9,116
	Direct Expenses												\$ 1,810
	Labor for 2.1: Airfield Facilities and Operations			0	2	4	0	0	4	0	0	12	\$ 1,540
	Labor for 2.2: Airspace/Air Traffic Control Data			4	2	4	0	0	0	0	0	10	\$ 1,688
	Labor for 2.3: Current Noise Abatement/Land Use Mgt Prgm.			0	2	8	0	0	0	0	0	10	\$ 3,635
	Labor for 2.4: Geographical Information Systems			2	2	4	0	0	4	24	2	39	\$ 3,285
	Labor for 2.5: Study Area Base Mapping			0	2	4	0	0	4	24	0	35	\$ 3,835
	Labor for 2.6: Land Use Inventory WSA	1		8	2	4	0	0	16	2	2	35	\$ 2,325
	Labor for 2.7: Land Use Planning & Mgt. Documents Inventory			2	2	4	0	0	8	2	0	19	\$ 2,756
	Labor for 2.8: Review of Noise Complaints			0	2	4	8	8	0	0	0	22	\$ 1,880
	Labor for 2.9: Population/Socioeconomic Data			0	2	4	0	0	8	2	0	16	\$ 17,264
	Labor for 2.10: Aircraft Noise Measurements (3 days)			0	2	64	32	32	0	0	0	130	\$ 6,298
	Labor for 2.11: Working Paper No. 1		6	4	4	12	4	0	4	8	8	50	
	Subtotal Task 2		12	20	24	116	44	40	48	62	12	378	\$55,432
Task 3	Noise Exposure Conditions												\$ 107.50
	Direct Expenses												\$ 10,508
	Labor for 3.1: Existing (Baseline) Noise Contours			0	2	8	40	40	4	0	0	94	\$ 2,756
	Labor for 3.2: Impact of Existing Aircraft Noise			0	2	4	8	8	0	0	0	22	\$ 7,576
	Labor for 3.3: Working Paper No. 2		4	4	8	16	8	8	4	0	0	52	
	Subtotal Task 3		4	4	12	28	56	56	8	-	-	168	\$20,947.50
Task 4	Future Noise Exposure												\$ 182.50
	Direct Expenses												\$ 10,508
	Labor for 4.1: Future AC Noise Exposure W/O Opl. Changes			0	2	8	40	40	4	0	0	94	\$ 4,452.00
	Labor for 4.2: Impact of Future Aircraft Noise			0	2	4	16	16	0	0	0	38	\$ 7,576
	Labor for 4.3: Working Paper No. 3 & NEMs		4	4	8	16	8	8	4	0	0	52	
	Subtotal Task 4		4	4	12	28	64	64	8	-	-	184	\$22,718.50
Task 5	Noise Abatement Operational Alternatives												\$ 107.50
	Direct Expenses												\$ 4,580
	Labor for 5.1: Identification and Analysis of Opl. Alternatives			0	8	16	0	0	4	0	0	28	\$ 10,600
	Labor for 5.2: Establish Criteria & Evaluate Opl. Alternatives			0	4	8	40	40	0	0	0	92	\$ 6,728
	Labor for 5.3: Working Paper No. 4		4	4	8	16	4	4	4	0	0	44	
	Subtotal Task 5		4	4	20	40	44	44	8	-	-	164	\$22,015.50
Task 6	Off-Airport Land Use Compatibility Alternatives												\$ 107.50
	Direct Expenses												\$ 4,250
	Labor for 6.1: Current Land Use Control			2	2	4	0	0	24	4	4	42	

