

ORIGINAL

Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Noise Abatement Consultant Services

JULY 1, 2014 | 100% recycled paper |     



Landrum & Brown, Incorporated

Contract No. 545-11443

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CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Bid/Proposal Signature & Non-Collusion Statement



Landrum & Brown, Incorporated

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BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Department, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

Please Note: All fields below **must** be completed. If the field does not apply to you, please note N/A in that field.

Submitted by:  June 24, 2014
(signature) (date)

Name (printed) Dennis E. Peters Title: Chief Financial Officer

Company: (Legal Registration) Landrum & Brown, Incorporated

CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit <http://www.dos.state.fl.us/>).

Address: 11279 Cornell Park Drive

City Cincinnati State: OH Zip 45242

Telephone No. 513-530-5333 FAX No. 513-530-1278 Email: dpeters@landrum-brown.com

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): N/A

Payment Terms (section 1.04): N/A Total Bid Discount (section 1.05): N/A

Does your firm qualify for MBE or WBE status (section 1.09): MBE No WBE No

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No. N/A Date Issued N/A

P-CARDS: Will your firm accept the City's Credit Card as payment for goods/services?

YES _____ NO X

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. **HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS.** If this section does not apply to your bid, simply mark N/A in the section below.

Variations: N/A

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>	<u>RELATIONSHIPS</u>
<u>N/A</u>	_____
_____	_____
_____	_____

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

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Cost Proposal

Cost Proposal



Landrum & Brown, Incorporated

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PART VII – PROPOSAL PAGES – COST PROPOSAL

Proposer Name: **Landrum & Brown**

Proposer agrees to supply the products and services at the prices bid below in accordance with the terms, conditions and specifications contained in this RFP.

Cost to the City: Contractor must quote firm, fixed, annual rate for all services identified in this request for proposal. This firm fixed annual rate includes any costs for travel to the City. No other costs will be accepted. This firm fixed annual rate will be the same for the initial contract period.

Failure to use the City’s COST PROPOSAL Page and provide costs as requested in this RFP, may deem your proposal non-responsive.

Proposer **MUST** enter an Hourly Labor Billing Rate in column (A) for each Labor Category itemized in the Labor Category column then multiply those rates by the hours in the Estimated Hours column (B) then enter the extended amount in the Total Proposed Amount column (C), $A \times B = C$. Enter the totals from column (C), including \$5,000.00 for Allowance for Expenses, in The Grand Total Proposed Amount row (D).

LABOR CATEGORY	(A) HOURLY LABOR BILLING RATE	(B) ESTIMATED HOURS	(C) TOTAL PROPOSED AMOUNT
Principal Consultant	\$235	85	\$19,975
Project Manager	\$235	2	\$470
Senior Consultant	\$195	10	\$1,950
Consultant	\$175	24	\$4,200
Senior Planner	\$215	24	\$5,160
Planner	\$125	45	\$5,625
Project Support/Technician	\$90	45	\$4,050
Clerical/Administrative Support	\$95	32	\$3,040
Allowance for Expenses	Not Applicable	Not Applicable	\$5,000
(D) GRAND TOTAL PROPOSED AMOUNT: \$49,470			

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FORT LAUDERDALE, FLORIDA



Letter of Interest/Cover Letter

Letter of Interest/Cover Letter



Landrum & Brown, Incorporated

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July 1, 2014

City of Fort Lauderdale
City Hall, Procurement Services Division
100 North Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

Landrum & Brown
11279 Cornell Park Drive
Cincinnati, OH 45242
Tel: 513.530.5333
Fax: 513.530.1278
www.landrum-brown.com

**Subject: Transmittal of Response to Request for Proposals
Noise Abatement Consultant Services for City of Ft. Lauderdale,
Ft. Lauderdale Executive Airport
RFP No. 545-11443**

Selection Committee:

Landrum & Brown, Incorporated (L&B) is pleased to submit three (3) *printed hard copies* (one original and two additional copies) and five (5) *CDs* of our Response to the Request for Proposals for providing *Noise Abatement Consultant Services* at Fort Lauderdale Executive Airport (FXE). We are honored to be considered for this important project and hope that you will find all of the material necessary for your review.

L&B will serve as the prime consultant for this project, and as such will have complete responsibility for the successful completion of this project and will report to, and coordinate with, the City of Ft. Lauderdale on all issues.

Rob Adams, Vice President of L&B's Environmental Division, will serve as Officer-In-Charge for your Noise Abatement Consultant Services contract. Rob is legally authorized to represent the company and all correspondence can be directed to him at our corporate office address listed in this letter. In addition, he can be reached at (513) 530-1201 or by email at radams@landrum-brown.com.

Alan Hass, P.E. will serve as the Project Manager, and **Vince Mestre, P.E.** will serve as the Deputy Project Manager.

The L&B Team is a highly qualified blend of professionals that include The Jones Payne Group, Inc. from Dania Beach, Florida. Our team includes highly qualified professionals that are experienced, well-known, and highly respected in the aviation industry. **Alan Hass** brings decades of on-call experience including many years of service for the Miami-Dade Aviation Department. He also has extensive experience with many other south Florida airports. **Vince Mestre** brings decades of on-call experience at some of the most noise-impacted airports in the country. **Rob Adams** brings expertise in the public outreach area, having conducted noise studies at some of the most highly controversial airports in the nation. **Diane Carter** from The Jones Payne Group, Inc., who is based in Broward County, is a former noise abatement officer and a former Technical Support Manager for the Airport Noise and Operations Monitoring System (ANOMS). She has unique



experience not offered by other teams. The remainder of our technical staff brings exceptional qualifications in all areas of airport noise. This team will ensure the FXE noise program remains successful and one of the premiere programs in the country.

The L&B Team offers the following qualifications which are unique to our Team:

- A commitment from the President of L&B that will ensure that the City of Ft. Lauderdale's vision for FXE is achieved.
- Technically qualified personnel with the skills and the experience necessary to successfully complete all the tasks listed in the Scope of Services.
- A commitment to project management, with a dedicated Project Manager, Deputy Project Manager and other noise-specialists which ensures that assignments are completed on schedule, within budget, and to the highest standards.
- An innovator of industry standard practices for airport noise abatement programs including the country's first Fly Quiet Program.

Your projects will be a priority for each member of the L&B Team, with the full dedication and resources of each firm pledged to the successful implementation of your noise program. We encourage you to call each of the references provided in our document or anyone else whom you believe to have useful information about our Team.

On behalf of all of the members of the L&B Team, we would like to thank you for the opportunity to submit this proposal. We sincerely want to assist FXE to bring this important project to a successful conclusion and we look forward to hearing from you soon.

Sincerely,

LANDRUM & BROWN

A handwritten signature in black ink, appearing to read 'Rob Adams', with a long horizontal flourish extending to the right.

Rob Adams
Vice President

Contract No. 545-11443

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Proposal Summary



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Section 4 – Proposal Summary

We firmly believe that the L&B Team is the perfect fit for the Noise Abatement Consultant Services at FXE. Every firm will present information in response to the RFP highlighting their team members, their personnel and previous projects. However, what we feel makes the L&B Team different is:

- **Our People!**
- **Our Performance!**
- **Our Passion!**

Our People – Our individuals are what make the L&B Team perfect for this project. Our Team staffing is documented in Section 7. While previous consulting contracts for FXE have focused on one person, the multitude of changes that have occurred in the industry in the last few years makes it difficult for one person to maintain a high level of preparedness for all the different aspects of our industry. To that, we offer a highly competent Project Manager and Deputy Project Manager, as well as a Team composed of the most highly experienced individuals that are experts in their area of expertise. This expertise covers all possible works tasks for FXE. In addition, we offer local staff that can respond to the local requirements of the FXE study on a moment's notice with minimal travel cost.

Our Performance – Our performance on existing projects are well documented in Section 6. Our acoustical on-call experience includes service to some of the most controversial airports in the nation, from the largest commercial air service hubs to the smaller general aviation airports. This is knowledge and experience that no other firm can offer and can be applied directly to the issues facing FXE. All of these studies highlighted are current projects with a high level of involvement by our staff proposed for this project. We urge you to contact any of our references listed. We are confident that they will offer you assurances that you will get the best expertise and performance available.

Our Passion – L&B's reputation for successfully completing projects that gain the approvals necessary and withstand legal scrutiny is well known throughout the aviation industry. This success is partially the result of our staff that cares about their field, the airports and their staff. This forms the basis for a bond that continues well beyond the confines of a consulting contract.

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Company Profile



Landrum & Brown, Incorporated

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Section 5 – Company Profile



Landrum & Brown (L&B) has been a recognized leader in the field of aviation consulting since our founding in 1949. In the last 65 years we have expanded our services from an original focus on general airport planning into the aviation environmental and noise compatibility arenas, airport financial, airfield and airspace simulation, air cargo planning, terminal area simulation and planning, and planning services for an array of ancillary airport facilities and services. Presently the firm is focused on aviation environmental, planning, and financial services with over 100 persons who are involved directly in serving client project needs.

L&B's **Environmental Division** assists airports in meeting legal, regulatory, and community requirements, and resolving issues that are increasingly important to airport operations and capital development. This division has earned a reputation in the U.S. for expertise in the preparation of Part 150 studies, Environmental Impact Statements (EISs), Environmental Assessments (EAs), Categorical Exclusions, aircraft noise compliance studies, and compliance with FAA and U.S. Environmental Protection Agency regulations and standards. L&B has been in the business of preparing noise compatibility studies for airport clients since before Part 150 was formally established in the 1980's. Today, we employ approximately 20 professionals in our *Environmental Division*, all of whom have experience in some facet of the Part 150 planning process. Our staff includes professionals with aviation backgrounds such as aviation management and currently licensed pilots, as well as non-aviation backgrounds such as land use planning, acoustical engineering, and statistics. This broad array of backgrounds and experiences gives our Team the confidence that we can offer comprehensive advice to our client's complex project issues.

The requested company profile information is as follows:

1. Corporate Information

Landrum & Brown, Incorporated
11279 Cornell Park Drive
Cincinnati, OH 45242

Incorporated: State of Ohio

Telephone No.: (513) 530-5333

Fax No.: (513) 530-1278

Website: www.landrum-brown.com

Email: dpeters@landrum-brown.com (Dennis Peters, Vice President)

L&B's authorization to transact business in the State of Florida is included in Section 10.

2. Number of Years in Business

65 years (since 1949)

3. Gross Revenue for Prior Fiscal Year

\$24,045,368 (FY 2014)

4. Total Number of Clients/Total Number of Public Sector Clients

103/68

5. Firm Location

L&B is a nationwide firm with its corporate office in Cincinnati (OH). This contract will be service out of L&B's Boston (MA) office (Alan Hass, Project Manager), the Irvine (CA) office (Vince Mestre, Deputy Project Manager & Christian Valdes) and the main corporate office in Cincinnati (OH) (Rob Adams, OIC & Suzie Kleymeyer).

6. List of Firm Owners: 95% DAR Holdings, 5% Management

- Dar Holdings U.S.A., Inc., which is a sub of DAR Al-Handasah Consultants Shair & Partners Holding Ltd
- Jeffrey Thomas
- Mark Perryman
- Berta Fernandez
- Matthew Lee
- Ted Woosley
- Sheila Thomas
- Robert Gary Gibb
- Dennis Peters
- Bruce Anderson

7. Additional Information

Although not specifically required for this proposal, L&B has always, and will continue to develop and support resource policies that seek to ensure equal contractual opportunity for all subconsultants on all of its projects. Our firm has established a Minority, Woman, Disadvantaged Business Enterprise (MBE/WBE/DBE) policy of equal employment opportunity and contract opportunity for all persons/firms in all of the company's operations, to the extent possible. Management is committed to this program and periodically discusses the importance of this policy with our staff to ensure compliance.

L&B's philosophy toward the use of MBE/WBE/DBE firms as subconsultants is first, to identify qualified firms, and second, to provide these firms with meaningful tasks and a high level of responsibility. In recent years, L&B has taken the opportunity to support and sponsor the creation of two WBE/DBE firms and one MBE/DBE firm and has assisted in the start-up of more than 15 disadvantaged business enterprises.

In fact, for our long history and commitment to mentoring minority and woman-owned firms, L&B was named the 2004 Corporate Partner of the Year by the Airport Minority Advisory Council (AMAC).

A copy of a current Certificate of Insurance for L&B is included in Section 10. If selected, a certificate will be provided naming the City as "additional insured" for General Liability.

L&B also claims no local preference. This certificate is also included in Section 10.

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Qualifications/Experience on Projects of Similar Scope



Landrum & Brown, Incorporated

EXHIBIT 4

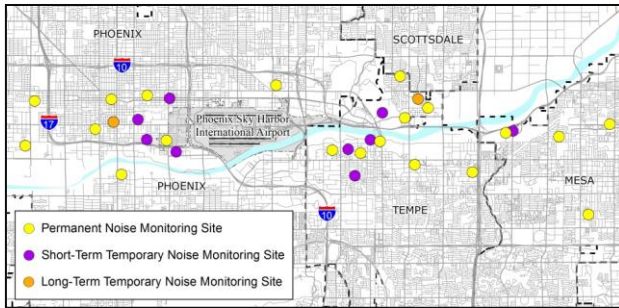
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Section 6 – Qualifications/Experience on Projects of Similar Scope

The following 19 projects highlighted here document expertise for our Project Manager, Alan Hass; our Deputy Project Manager, Vince Mestre; and all of our Technical Leads, including Rob Adams our OIC. The projects will present documented proof that our technical staff is well versed in numerous areas related to the requirements of the FXE Noise Abatement Consultant Services RFP. We would be pleased to provide of any final reports/documents upon request.

**Phoenix Sky Harbor International Airport (PHX)
Phoenix, Arizona
Noise Exposure Map Update, 2012-2014**



In August 2012, L&B was selected to prepare a Noise Exposure Map (NEM) Update for the Phoenix Sky Harbor International Airport (PHX). PHX is owned and operated by the City of Phoenix and is located near the border between the cities of Phoenix and Tempe. The City of Phoenix had previously completed 14 CFR Part 150 Noise Compatibility Studies at PHX in 1992

and 2000; and has implemented a land use mitigation program that included sound insulation and voluntary acquisition/relocation of residential properties that were determined to be significantly impacted by noise through the 1992 and 2000 studies. This NEM Update was undertaken to identify current noise impacts, review the effectiveness of the City’s noise mitigation program, and improve community relations.

This NEM Update included a noise monitoring program to provide information regarding noise levels from actual aircraft operations within the communities surrounding PHX. The City of Phoenix has 20 permanent noise monitoring terminals around PHX and L&B identified eleven temporary noise monitoring locations to supplement data from the 20 permanent sites. Temporary noise monitoring was conducted at these eleven sites for a few hours (short-term) at some sites and a few days (long-term) at other sites. The monitoring data was reviewed and correlated to radar data to identify aircraft types and altitudes that corresponded to noise events recorded by the noise monitoring equipment. The data was summarized and included in a report that was made available to the public to provide a better understanding of the noise environment around PHX, including average aircraft noise levels, ambient and non-aircraft noise levels, maximum aircraft noise levels, and number of aircraft events that were audible at each site during the monitoring period.

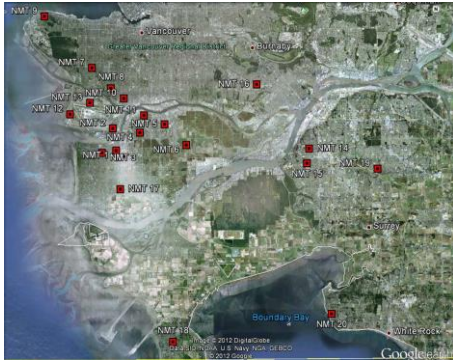
The Draft NEM Update Report was made available for public review in November 2013 and the Final NEM Update Report is expected to be submitted to the FAA in February 2014.

Contact: Ms. Mary Beth Thompson
Title VI Program Manager
City of Phoenix Aviation Department
3400 E. Sky Harbor Blvd.
Phoenix, AZ 85034

Phone: (602) 273-4062
Fax: (602) 273-8809
E-mail: mary.beth.thompson@phoenix.gov

Project Completion: Expected July 2014
Project Manager: Rob Adams
Other Key Staff: Vince Mestre, P.E.
Project Dollar Amount: \$459,721.00

**Vancouver International Airport (YVR)
Richmond, British Columbia, Canada
Noise Monitoring Terminal Siting Assessment Study, 2012**



Vancouver International Airport (YVR) is located on Sea Island in Richmond, British Columbia, Canada. It is owned and operated by the Vancouver Airport Authority (Airport Authority). In April 2012, the Airport Authority released a Request for Proposal (RFP) for a Noise Monitoring Terminal (NMT) Assessment at YVR. L&B was selected to provide consulting services to review and assess the current NMT network around YVR. The NMT network provides noise measurement data to support the airports Airport Noise and Operations Monitoring System

(ANOMS).

The NMT siting was last reviewed in 2006/2007 and some communities have become concerned with perceived inaccuracies and integrity of the NMT data. The purpose of this study is to ensure that the existing NMT network provides adequate coverage for the needs of the Airport Authority and the community in the Lower Mainland area around YVR, and to ensure that the system is functioning according to relevant specifications and industry standards.

The study conclusions for the YVR NMT Assessment Study were as follows:

- Fourteen sites were recommended to be maintained.
- Four sites were recommended to be relocated or eliminated.
- Two additional sites were recommended to be relocated or eliminated, unless community and/or political concerns require that they be maintained.
- Two new locations were identified for placement of an NMT.

Contact: Ms. Shaye Folk-Blagbrough, M./E.Des.
Environmental Analyst
Vancouver Airport Authority
P.O. Box 23750
Airport Postal Outlet
Richmond, British Columbia V7B1Y7
Canada

Phone: (604) 276-6710
Fax: (604) 276-6699
Email: shaye_folk-blagbrough@yvr.ca

Project Completion: October 2012
Project Manager: Alan Hass, P.E.
Other Key Staff: Vince Mestre, P.E.
Project Dollar Amount: \$29,040

**Seattle-Tacoma International Airport (SEA)
Seattle, Washington
Master Plan Update for a New Runway/ Environmental Impact Statement/
Part 150 Noise Compatibility Study, 1993-2014**



L&B prepared the Environmental Impact Statement (EIS) for Seattle-Tacoma's Master Plan Update that included a third parallel runway. The EIS, prepared in accordance with the guidelines of the National Environmental Policy Act (NEPA) and the Washington State Environmental Policy Act (SEPA), focused on

the critical issues for developing the new runway and terminal. These included aircraft noise impacts; acquisition of substantial number of homes immediately north and south of the airport; impacts to the groundwater and wetlands; traffic levels at relevant intersections, streets, and freeway ramp junctions; and on- and off-airport construction impacts of approximately 23 million cubic yards of fill hauled from borrow sites all over the Puget Sound Region.

Currently L&B is conducting a Part 150 Noise Compatibility Study, the first since the controversial new third parallel runway (Runway 16R/34L) opened at SEA. This runway, which opened in November 2008, caused a shift in aircraft operations and noise, bringing aircraft overflights to new areas that previously had not typically experienced direct overflights. To improve public relations, the Part 150 Study includes an extensive public outreach campaign. The Part 150 Study is assessing possible new methods of noise abatement to alleviate noise impacts and public opposition, including construction of a ground run-up enclosure (GRE) to reduce noise from aircraft run-ups, sound insulation of religious institutions, and expansion of the Airport's existing "Fly Quiet" program to encourage aircraft operators to undertake voluntary efforts to reduce aircraft noise. These measures, in conjunction with the current noise abatement flight procedures and residential and school sound insulation programs are designed to reduce noise impacts for the betterment of those living in the vicinity of SEA.

Contact: Mr. Stan Shepherd
Manager, Airport Noise Programs
Seattle-Tacoma International Airport
P.O. Box 68727
Seattle, WA 98168

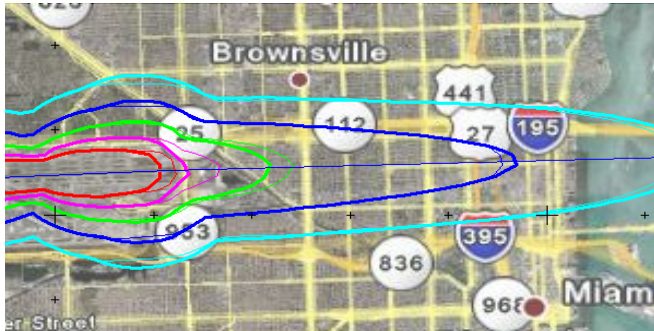
Phone: (206) 787-4095
Fax: No fax number available
E-mail: shepherd.s@portseattle.org

Project Completion: June 2014
Project Manager: Rob Adams
Other Key Staff: Vince Mestre, P.E.
Project Dollar Amount: \$1,436,975.00

Miami International Airport (MIA)

Miami, Florida

Miscellaneous Acoustical Engineering Services, 2007-2011 & 2011-2015



L&B is under a second four-year contract to provide Acoustical and Land Use Compatibility Planning Services to the Miami-Dade Aviation Department (MDAD). This Professional Services Agreement provided for on-call acoustical consulting services to Miami International Airport (MIA) and four other general aviation airports under MDAD control.

The first service order was to evaluate preferred aircraft departure profiles by aircraft type for MIA. L&B identified the key aircraft operating at MIA and identified the best possible departure profile using the FAA's Integrated Noise Model (INM). The INM's standard profiles or the ICAO "A" and "B" departure profiles that best fit the FAA's Advisory Circular 91-53A Noise Abatement Departure Procedure for "Close-In" or "Distant" were evaluated for each aircraft. To support the analysis, single event maximum noise level (L_{max}) contours were generated for each aircraft profile combination. Ultimately, 13 INM aircraft types were evaluated. The INM aircraft types represented 29 of the most common aircraft operating at MIA and counted for over 95 percent of the aircraft operating at MIA on a daily basis. The result was a recommendation for a "Best Profile" that minimizes impacts around MIA.

L&B was also asked to prepare a noise contour update for the Miami International Airport. This update included the refinement of past INM flight tracks with current radar data, ensuring that recently implemented flight route changes were accurately modeled. The analysis also provided an update to the changing operational levels at MIA as well as the shifts in fleet mix. The resulting noise contours reflected these changes in terms of their size and changes to their shape owing to the operational trends at MIA over the past few years. The modeled noise levels were also compared to the measured noise levels at each of the permanent monitoring sites at MIA.

More recently, L&B was tasked with the preparation of the Environmental Evaluation Forms for the development of the Airport City Project at MIA. This project would include the redevelopment of three parcels of on-airport property to non-aeronautical revenue producing use. L&B was responsible for preparing all draft and final documents to result in a Finding of No Significant Impact (FONSI) from the FAA Orlando ADO.

Contact: Mr. Norman Hegedus
Environmental Planner
Miami-Dade Aviation Department
P.O. Box 592075
Miami, FL 33159

Phone: (305) 876-0464
Fax: (305) 869-3908
Email: nhegedus@miami-airport.com

Project Completion: Ongoing
L&B Project Manager: Alan Hass, P.E.
Other Key Staff: Suzie Kleymeyer, AICP, Vince Mestre, P.E.
Project Dollar Amount: \$551,375 (2011-2015 only)

**John Wayne Airport (SNA)
Santa Ana, California
Professional Services for On-Call Acoustical Engineering Services, 1985-
Ongoing**



Mestre Greve Associates (MGA)/L&B provides acoustical engineering services on specific assignments related to John Wayne Airport aviation activities. Services are provided on an on-call, as-needed basis as requested. SNA has a complex and very strict set of noise restrictions that include single event noise limits for general aviation and air carrier operations, limits on annual passengers, and limits on hours of operations. For almost 30 years, Vince Mestre has provided bi-weekly review of air carrier compliance reports, review of GA single event violations as needed, two upgrades of the noise monitoring system, one upgrade of the noise management software, a one year side-by-side test of new microphone systems, and three environmental impact reports covering introduction of air cargo services and two amendments to the noise and access agreements. In addition to the technical services, Vince has provided many presentations to the aviation committees of adjacent cities, public meetings, and meetings with the FAA.

Contact: Mr. Eric Freed
Manager, Access & Noise
John Wayne Airport
3160 Airway Avenue
Costa Mesa, CA 92626-4608

Phone: (949) 252-5043
Fax: (949) 252-5178
E-mail: efreed@ocair.com

Project Completion: Ongoing
Project Manager: Vince Mestre, P.E.
Other Key Staff: Christian Valdes
Project Dollar Amount: \$495,000

**Long Beach Airport (LGB)
 Long Beach, California
 Acoustical Consulting Services for the Long Beach Airport, 1999-Ongoing**



MGA/L&B provides acoustical engineering services to the noise abatement office of Long Beach Airport in support of the Airport’s air carrier noise budget. The Airport Noise Ordinance at LGB provides annual limits on air carrier operations based on a noise budget that accounts for number of operations, the noise level of each operation and the time

of day of the operation. If the airport operates below budget, then additional flights are permitted. Vince Mestre provides the annual budget report to the City Council and assists the City in making decisions on air carrier use of the noise budget. In addition, MGA/L&B completed the noise analysis for the EIR for the completion of the new terminal and parking garage that was recently opened. Vince has made numerous presentations on LGB noise to the City Council, aviation groups, and community groups. MGA/L&B has been providing these services to the LGB for nearly 20 years.

Contact: Mr. Ron Reeves
 Noise & Environmental Affairs Officer
 Long Beach Airport
 4100 Donald Douglas Drive
 Long Beach, CA 90808-1798

Phone: (562) 570-2637
 Fax: (562) 570-2601
 E-mail: ron.reeves@longbeach.gov

Project Completion: Ongoing
Project Manager: Vince Mestre, P.E.
Other Key Staff: Christian Valdes
Project Dollar Amount: \$100,000

Oakland International Airport (OAK)**Oakland, California****Technical Acoustical Services for Community Noise Management Forum, 1999-Ongoing****I  OAK****Park Close. Fly on time.**

MGA/L&B provides technical acoustical engineering services to the Oakland International Airport – Community Noise Management Forum. As the Forum's technical consultant for acoustical, noise-related issues relative to aircraft operations, MGA/L&B staff attend Forum meetings, prepare analyses, conduct studies, and provide advice to the Forum as required. This has included detailed studies of a potential cross-wind runway, noise abatement flight tracks, noise barriers, and responses to community requests for specific noise information. At each Community Noise Management Forum, Vince Mestre presents a "Noise News" presentation that addresses new legislation, potential legislation, aircraft noise technological advances, new research on aviation effects on people and new and emerging noise issues. Recently the "Noise News" has been expanded to include greenhouse gas and air quality issues. The "Noise News" has been huge success and is very popular with the forum members. MGA/L&B has been provided these on-call services since 1999.

Contact: Mr. Lawrence Galindo
Noise & Environmental Affairs Supervisor
Oakland International Airport
One Airport Drive, Box 45
Oakland, CA 94621-1430

Phone: (510) 563-2881
Fax: (510) 569-9017
E-mail: lgalindo@portoakland.com

Project Completion: Ongoing
Project Manager: Vince Mestre, P.E.
Other Key Staff: Christian Valdes
Project Dollar Amount: \$1,039,000

Santa Monica Municipal Airport (SMO)
Santa Monica, California
Noise Abatement Plan and On-Call Services, 1981-Ongoing



Santa Monica Airport is one of the most controversial and most litigated airports in the world. MGA/L&B provides acoustical engineering services on specific assignments related to Santa Monica Municipal Airport aviation activities and provides annual noise contour reports and presentations to the Airport Commission. Vince Mestre was key in the mediation of conflicts that resulted in the 1984 Settlement Agreement that prevented the airport from closing. Since that time, Vince has assisted in two upgrades of the noise monitoring system, and numerous specific noise studies including analyses of fan departure procedure, effects of runway threshold relocation, relocation of helipads and helicopter routes, and responses to requests from citizens for specific information on noise issues. Services are provided on an on-call, as-needed basis as requested. MGA has provided acoustical services to Santa Monica Airport for over 30 years.

Contact: Mr. Stelios Makrides
 Airport Operations Administrator
 Santa Monica Airport
 3223 Donald Douglas Loop South
 Santa Monica, CA 90405-3213

Phone: (310) 458-8591
 Fax: (310) 572-4495
 E-mail: stelios.makrides@smgov.net

Project Completion: Ongoing
Project Manager: Vince Mestre, P.E.
Other Key Staff: N/A
Project Dollar Amount: \$500,000

**Fort Lauderdale-Hollywood International Airport (FLL)
Ft. Lauderdale, Florida
Environmental Impact Statement for the Development and Expansion of
Runway 9R/27L and Other Associated Airport Projects, 2004-2013**



**FORT LAUDERDALE-HOLLYWOOD
INTERNATIONAL AIRPORT**
BROWARD COUNTY FLORIDA

L&B was the Prime Contractor for the FAA EIS for the expansion of Runway 9R/27L at FLL. L&B was responsible for project management, Federal scoping, administrative file/record, and agency coordination. In addition, L&B undertook the technical analyses (noise, air quality, land use, prime and unique farmland, energy supply and natural resources, cumulative impacts, other considerations), public involvement, alternative development, net benefits analysis, water resources permit applications and coordination. L&B also developed mitigation strategies, provided assistance with the Final Federal Finding and assistance with FOIA requests and post-decision litigation support.

Contact: Ms. Virginia Lane, AICP
Environmental Specialist
Federal Aviation Administration
Orlando ADO
5950 Hazeltine National Drive
Citadel International, Suite 400
Orlando, FL 32822-5024

Phone: (407) 812-6331
Fax: (407) 812-6978
E-mail: Virginia.Lane@faa.gov

Project Completion: FAA Record of Decision issued December 2008
Permitting support thru December 2013
Project Manager: Suzie Kleymeyer, AICP
Other Key Staff: Mark Perryman, Rob Adams
Project Dollar Amount: \$10,167,965.00

**Lambert-St. Louis International Airport (STL)
St. Louis, Missouri
Part 150 Noise Exposure Map Update and Noise Compatibility Program
Update, 2010-2011**



L&B was the Prime Contractor and provided project management, agency coordination and undertook all technical analyses (noise modeling, prepare Noise Exposure Maps/existing and future, compatible land use). L&B was also responsible for the public involvement and developed the mitigation strategies (noise abatement, land use, and administrative).

Contact: Ms. Jan Titus
Noise Management
Airport Noise Management Department
Lambert-St. Louis International Airport
11495 Navaid Road
Bridgeton, MO 63044

Phone: (314) 551-5023
Fax: (314) 890-1381
E-mail: jmtitus@flystl.com

Project Completion: FAA Record of Approval issued in August 2011
Project Manager: Suzie Kleymeyer, AICP
Other Key Staff: Chris Sandfoss, AICP
Project Dollar Amount: \$3,085,806.00

**Greater Rochester International Airport (ROC)
Rochester, New York
Airport Master Plan Update, Airport Collateral Land Development Alternatives,
2013-2014**



As a subcontractor to Clough, Harbour & Associates, L&B developed and inventoried the characteristics of existing airport-owned parcels and identified the area that might be devoted to forms of revenue support development. L&B also determined development restrictions, physical impediments to development and local economic conditions.

Contact: Mr. Paul McDonnell
Vice President, Airport Planning Manager
Clough, Harbour & Associates
2139 Silas Deane Highway, Suite 212
Rocky Hill, CT 06067-2336

Phone: (518) 453-2336

Fax: (518) 453-2895

E-mail: pmcdonnell@chacompanies.com

Project Completion: March 2014
Project Manager: Dan Muscatello
Other Key Staff: Suzie Kleymeyer, AICP
Project Dollar Amount: \$45,920.00

Seattle-Tacoma International Airport (SEA)
Seattle, Washington
Fly Quiet Committee, 1997-Ongoing



MGA/L&B, in addition to the original and recently completed Part 150 studies, has provided numerous services for Sea-Tac International Airport on an on-call basis since 1999. These include specifications for a new noise monitoring system, acceptance testing of the new noise monitoring system, and validation of the radar flight track accuracy for the noise monitoring system. Vince Mestre assisted the Port in developing the scoring system for the Fly Quiet Program in which the airport awards the quietest airline, cargo operator, and commuter airline for their compliance with the requested flight corridors, night runup restrictions and fleet noise levels. Each year awards are presented and a banner hangs in the terminal for the winners. Vince also provided litigation support for the airport after the opening of the new runway.

Contact: Mr. Stan Shepherd
 Manager, Airport Noise Programs
 Seattle-Tacoma International Airport
 P.O. Box 68727
 Seattle, WA 98168

Phone: (206) 787-4095
 Fax: No fax number available
 E-mail: shepherd.s@portseattle.org

Project Completion: Ongoing
Project Manager: Vince Mestre, P.E.
Other Key Staff: N/A
Project Dollar Amount: \$50,000

Cincinnati/Northern Kentucky International Airport (CVG) Hebron, Kentucky Noise Analysis, 1991–Ongoing

L&B has been providing environmental and noise analysis support to the Kenton County Airport Board (KCAB) since 1991. Initially this support included the preparation of a Supplemental Part 150 Study. Since that project, L&B has prepared another Part 150 Study in 1999, is in the process of updating that Part 150 Study, and has completed several EAs and an EIS, each having significant noise issues. We are proud that the KCAB has continually selected us for their important projects. Below is a summary of three of the more recent projects at CVG.



Environmental Impact Statement, 1998–2001

The KCAB completed its Master Plan Update study in 1996. One of the primary recommendations of the Master Plan was the development of a third north/south parallel runway at CVG to alleviate aircraft operating delays that were identified to reach an excessive level within a 10-year time frame.

In 1998, L&B was selected by the FAA to prepare an EIS to evaluate the impacts of the following proposed development projects and actions:

- Construct a new 8,000-foot long third parallel air carrier runway
- Extend the crosswind runway by 2,000 feet
- Construct additional taxiways or taxiway extensions
- Close and relocate roadways
- Acquisition and relocation of residences and businesses as needed for the development of the proposed new runway and runway extension
- Develop operational procedures to be implemented with the new runway
- Implement the recommended Part 150 noise abatement air traffic actions (FAA Record of Approval (ROA) was issued in December 2000)



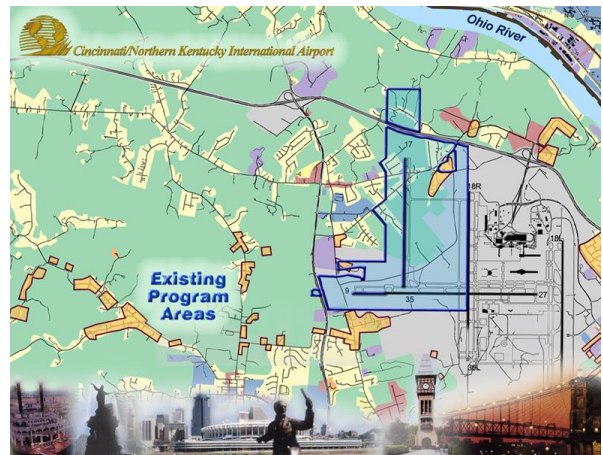
Extensive noise analyses were performed to evaluate the noise impacts of the proposed project and its alternatives on surrounding communities. In addition, because the project included a new runway, that would result in flights over areas that had not received direct overflights in the past, an intense public outreach effort was conducted to inform citizens of the plan and to alleviate fears. This EIS was coordinated with a Part 150 Study that specifically addressed potential noise impacts

from the new runway. The FAA Record of Decision (ROD) was issued in December 2001 and the runway was opened in December 2005.

Part 150 Study Update, 1999-2000

In addition to being selected to conduct the EIS in 1998, L&B was selected by the KCAB to prepare an update to the KCAB 1992 Supplemental Part 150 Study Update, also prepared by L&B. Initiated in early 1999, the update ran concurrently with the FAA EIS for the proposed development of a new third parallel north/south runway and the proposed extension of Runway 9/27.

The purpose of this 1999 Part 150 Study Update was to further refine and improve upon the existing operational procedures previously approved in the 1992 Supplemental Part 150 Study and to develop new noise abatement procedures for the proposed third north/south parallel runway.



This analysis resulted in the development of updated NEMs for existing conditions and the future five-year planning period. The KCAB land acquisition, purchase assurance, and sound insulation programs were also re-examined as a result of the modified or new noise abatement procedures recommended in the study.

The final NEM/NCP was submitted to the FAA for approval in the spring of 2000. The ROA was issued December 2000.

Part 150 Study Update, 2003-Ongoing

After the 2000 Part 150 Study Update was completed by L&B, a number of events occurred that prompted the KCAB to update their Part 150 Study. The most pressing issue was unexpected growth in the nighttime flights by Delta Air Lines, Comair, DHL Airways, and check haulers. Not only did this growth result in nighttime noise impacts, but also threatened to eliminate the nighttime runway use program that had effectively directed nighttime operations to the most compatible area around the airport. Another key issue included the KCAB's desire to "continue the discussion" with the public that had started in 1999 regarding the new runway.

L&B was once again selected by the KCAB to prepare this Part 150 Study Update in 2003. By mid-2005, a new nighttime runway use program had been designed that would continue to minimize noise impacts yet give the Airport Traffic Control Tower (ATCT) more flexibility in handling traffic – Truly a win-win solution. Since that time, a number of other events have occurred (DHL Airways relocation to Wilmington, OH and Delta Air Lines bankruptcy) that have slowed the process. The Final Part 150,

including the revised nighttime runway use program, is expected to be submitted to the FAA by the end of 2006, with approval in mid-2007.

School Sound Insulation Program, 2005-2008

Beginning in 2005, L&B assisted the local sound insulation consultant in providing acoustical testing, design and support services for the mitigation of seven schools impacted by noise around CVG. This program was completed in late 2008.

Contact: Ms. Barbara Schempf, A.A.E.
Vice President, Planning & Development
Kenton County Airport Board
P.O. Box 752000
Cincinnati, OH 45275-2000

Phone: (859) 767-7800
Fax: (859) 767-4818
E-mail: Bschempf@cvgairport.com

Project Completion: Ongoing
Project Manager(s): Rob Adams, Alan Hass, P.E.
Other Key Staff: Rob Adams, Alan Hass, P.E.
Project Dollar Amount: \$440,568.00

Chicago O'Hare International Airport (ORD) & Midway Airport (MDW) Chicago, Illinois Noise Analysis, 1996–Ongoing



L&B has served the City of Chicago as its Aviation Consultant for more than four decades, providing a wide range of environmental planning services, including large project assignments, such as environmental inventories, assessments and impact statements (EA/EISs), and multi-year, multi-discipline extension-of-staff support efforts. These efforts have included Noise Office Technical Support for both ORD and MDW airports, in which L&B staff has provided on-site support of the Noise Office. This support has included: Noise Contours,

Fly Quiet Program, Fly Quiet Award, Community Outreach, Residential Sound Program Support, School Sound Program Support, Technical Support, and Ground Run-Up Enclosure (first in U.S.).

In addition to technical support, L&B was selected to operate the Airport Noise Monitoring System (ANMS) for the Chicago Department of Aviation at both ORD and MDW airports. The ANMS is an integral part of Mayor Richard M. Daley's commitment to help minimize the effects of aircraft noise on the communities surrounding each airport. The \$4 million ANMS utilizes 53 noise monitors, ARTS radar data, weather data and noise complaint information from the airports' noise hotline. The L&B staff assigned to operating the ANMS are responsible for the day-to-day functions and administration of the system. The staff includes a System Manager, System Analysts, and a Data Manager. Monthly and quarterly reports are provided to the ORDE Noise Compatibility Commission (ONCC) and MDW Noise Compatibility Commission (MNCC), both of which include information on day/night runway use, monthly average noise levels from noise monitors located in communities, the number of events at given noise levels, the top 25 noise events by airline and aircraft type, and inquiries from the ORD Noise Hotline.

L&B has assisted both noise commissions in creating web sites, annual reports, construction awareness brochures, an informational video, and various maps and graphics materials. Also, we have provided support at monthly commission meetings and individual committee meetings, as well as assisting the ONCC Technical Committee develop the Technical Committee Work Plan each year. We have provided responses to community-based requests including noise-monitoring analysis in specific areas around O'Hare and runway use reports. The work plan developed by L&B in the early days of the two commissions has served as the basis for their annual work programs and is expected to continue to do so as they systematically accomplish each outlined objective. L&B works with the City of Chicago, Department of Aviation to document the noise impact on residential areas surrounding ORD. One result of this documentation is the Annual Residential Sound Insulation Program Eligibility Study,

which is used to determine the allocation and annual distribution of Residential Sound Insulation funding. This study uses Geographic Information Systems (GIS) software and aerial photography to create a reliable and verifiable method of resource allocation.

In addition, L&B has provided technical support for the School Sound Insulation Program. Schools are selected to be monitored based on approved criteria, then monitored for daytime noise impacts from ORD and MDW airports. The noise data is then correlated to aircraft noise and each school is ranked. Schools matching the FAA's guidelines are then selected for insulation. L&B has also provided noise impact analysis support to the City of Chicago for the O'Hare Modernization Program (OMP), which will reconfigure ORD's intersecting runways into a more modern, parallel layout. The \$6.6 billion OMP will dramatically improve the efficiency of the airport, especially during bad weather conditions, where delays will be reduced by 95 percent. Overall delays are expected to drop by 79 percent. The OMP will allow ORD to meet the region's aviation needs well into the future and will also bring a new western terminal facility with more airline gates and parking.

Contact: Mr. Aaron J. Frame, P.E.
Assistant Commissioner
Chicago Department of Aviation
10510 W. Zemke Road
Chicago, IL 60666

Phone: (773) 686-3563
Fax: (773) 686-4980
Email: aaron.frame@cityofchicago.org

Project Completion: Ongoing
L&B Project Manager: Ted Woosley
Other Key Staff: Jeffrey Jackson, Alan Hass, P.E.
Project Dollar Amount: \$23,198,260.03

Hartsfield-Jackson Atlanta International Airport (ATL)
Atlanta, Georgia
Sound Insulation Design Services, 2007–Ongoing



L&B is assisting THC, Inc. in providing a prioritization study for the various residential and institutional structures potentially eligible for sound insulation treatments.

Initially L&B performed a detailed windshield survey to document all residential and institutional structures inside the 65 dB DNL contour that may be eligible for sound insulation treatments. This survey included remaining single family structures that were not included in the original program as well as all multi-family

properties, schools, places of worship, day care centers and other noise-sensitive properties. A total of 164 properties with 3,786 units were counted during the windshield survey. The windshield survey revealed 475 more potentially eligible properties that were not included in the Part 150. Based on various sorting methods L&B provided a number of different prioritization options and gave recommendations for the prioritization.

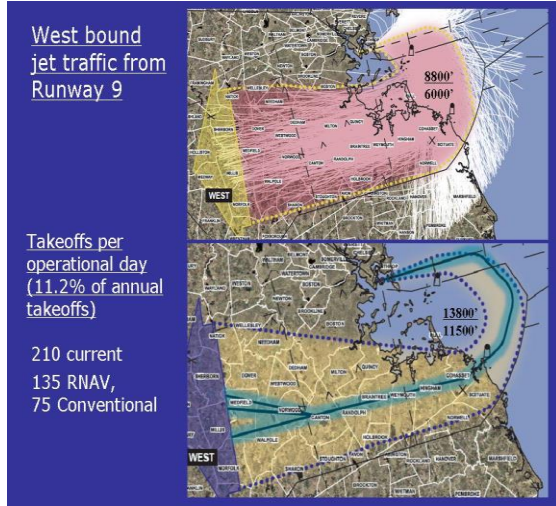
Following completion of the windshield survey and prioritization study L&B is providing assistance to THC, Inc. with pre-construction acoustical testing and acoustical design services to support the mitigation of the selected properties.

Contact: Mr. Perry Jarrell
 Project Manager
 ATL Noise Insulation Program/THC
 1255 South Loop Road, ATL NIP, Pod E
 College Park, GA 30337

Phone: (404) 382-1448
 Fax: (404) 530-6458
 E-mail: pjarrell@thcinc.net

Project Completion: Ongoing
L&B Project Manager: Alan Hass, P.E.
Other Key Staff: Diane Carter
Project Dollar Amount: \$952,403

**Logan International Airport (BOS)
Boston, Massachusetts
Overflight Noise Study, 2004-Ongoing**



For the Logan International Airport (BOS) Boston Overflight Noise Study (BONS), L&B is providing peer review and strategic advice to the BOS Community Advisory Committee, Inc. (CAC), sponsored by Massport, the FAA, and the CAC. In this role, L&B works closely with representatives of 28 communities impacted by aircraft noise to identify and assess overflight procedures proposed for noise abatement. The BONS is designed to evaluate alternative departure and arrival routes in areas well outside the traditional 65 DNL noise contour. New measures such as departure procedures that follow precisely defined flight paths and continuous descent approach procedures from

higher altitudes or revised route locations are being developed through this process.

Assessments include cumulative and single-event noise levels, as well as four other metrics of interest to the public – number of events, altitude of overflight, time of operation, and identifiable periods of quiet (absence of overflight). Future phases of the study will include the development of a comprehensive runway use plan and ground noise mitigation actions.

Contact: Mr. Ralph Dormitzer
Boston Community Advisory Committee
111 Atlantic Avenue
Cohasset, MA 02025

Phone: (781) 383-9595
Fax: (781) 356-5846
E-mail: rdormitzer@aol.com

Project Completion: Ongoing
L&B Project Manager: Rob Adams
Other Key Staff: Vince Mestre, P.E.
Project Dollar Amount: \$3,296,895.00

Guangzhou Baiyun International Airport (CAN)
Guangzhou, China
**Noise Monitoring System Design, Specification, Acceptance Testing, 2013-
 Ongoing**



Guangzhou Baiyun International Airport (CAN) is the major international airport that serves southern China. CAN is operated by the Guangdong Airport Management Corporation (GMAC) Group. As operator of this facility, the management and mitigation of aircraft noise is a high priority. To assist in these responsibilities, GMAC intends to install a permanent Airport Noise Monitoring System (ANMS) at CAN. CAN requires a ANMS that must be a fully integrated system

that collects noise data and flight track data, provides a noise complaint entry system, correlates noise, flight and complaint data, provides near real-time internet access to flight tracks and noise data, and provides high quality report and graphics output.

L&B is providing assistance to GAMC and CAN including the following:

1. Produce existing and future noise contours
2. Develop basic system design
3. Select sites for permanent noise monitors
4. Develop technical specification
5. Provide tender and system installation support

In the first phase of the project, the team is designing the system requirements, evaluating potential locations for the permanent noise monitoring stations, and preparing the technical specifications for the system. This part of the project involved helping AOT staff understand the systems available.

For the second phase of the project, the team provided assistance during the tender period including review of the vendor proposals. After selection, the team will help supervise the installation, testing, and commissioning of the system.

Contact: Mr. Jia Ti Liu
 Project Manager
 Guangzhou Baiyun International Airport
 Phase II Expansion Construction Project Headquarters Office
 Administration Department, Room 423
 Guangzhou City, Guangdong Province
 Peoples Republic of China

Phone: +86 2036062987
 Email: liujiati@126.com

Project Completion: Ongoing
L&B Project Manager: Vince Mestre, P.E.
Other Key Staff: Alan Hass, P.E.
Project Dollar Amount: \$485,024

Suvarnabhumi International Airport (BKK)

Bangkok, Thailand

Noise Monitoring System Design, Specification, Acceptance Testing, Noise Office Support, 2007-2013



L&B is assisting Aurecon in providing noise consultancy services to the Airports of Thailand Public Co. Ltd. (AOT) for the new Suvarnabhumi International Airport (BKK) that opened in September 2006. BKK was intended as a replacement for the international airport at Don Muang and was required to install a permanent noise monitoring system and setup a noise office to deal with the noise issues surrounding the new airport.

L&B, in conjunction with MGA now part of L&B, is providing numerous services to AOT for the project. These include:

1. Overall system design
2. Tender and system installation support
3. Setup and train noise office staff and provide ongoing support

In the first phase of the project, the team is designing the system requirements, evaluating potential locations for the permanent noise monitoring stations, and preparing the technical specifications for the system. This part of the project involved helping AOT staff understand the systems available. The team led a technical tour for AOT staff that visited London (Gatwick) England, Edinburgh Scotland, and Seoul (Incheon) South Korea.

For the second phase of the project, the team provided assistance during the tender period including review of the vendor proposals. After selection, the team will help supervise the installation, testing, and commissioning of the system.

For the last phase of the project, the team will design the noise office layout, perform on-site training of AOT staff, setup various noise office policies and procedures, and prepare various training manuals. After the system is installed and operational, L&B will provide ongoing support to the AOT noise office staff including additional training and consultative services as required.

Contact: Mr. Colin Johnson
Project Manager
Aurecon
Bangkok, Thailand

Phone: +66 22604570
Fax: +66 22604570
Email: johnsonc@ap.aurecongroup.com

Project Completion: July 2013
L&B Project Manager: Alan Hass, P.E.
Other Key Staff: Vince Mestre, P.E., Diane Carter
Project Dollar Amount: \$563,119

**Baltimore/Washington International Thurgood Marshall Airport (BWI)
Baltimore, Maryland
Noise Program, Community Outreach Audit and Strategic Plan, 2007-2008**

L&B, as part of its acoustical on-call contract, was tasked with assessing how the public perceives BWI airport and, ultimately, recommend how the Maryland Aviation Administration (MAA) could enhance BWI's communication efforts for various airport programs, including its noise program. The scope of the work included conducting staff interviews and an audit of all existing outreach activities, materials and websites; coordinating a community survey; researching the competition; and developing a community outreach strategic plan.



Following a thorough analysis of MAA's airport programs and in particular its noise program, our team made several recommendations to enhance the noise program, including additional training for MAA staff, a specific response and follow-up protocol for handling complaints, and better use of the airport's existing communications tools, such as the website.

Additionally, our team recommended new outreach efforts including providing an electronic method for citizens to file their own complaints, which would allow the community the ability to access noise and flight track data via the web and reduce staff workload. Ultimately, the strategic plan was presented to senior officials at the MAA and an electronic method for logging noise complaints was implemented.

Contact: Ms. Ellen Sample
Manager-Noise, Real Estate, Land Use
Maryland Aviation Administration
991 Corporate Blvd.
Linthicum, MD 21090

Phone: (410) 859-7925
Fax: (410) 859-7288
Email: dsample@bwiairport.com

Project Completion: August 2008
L&B Project Manager: Alan Hass, P.E
Other Key Staff: Diane Carter
Project Dollar Amount: \$125,692

Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Key Project Staff Background

Key Project Staff Background



Landrum & Brown, Incorporated

EXHIBIT 4

14-1247

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Section 7 – Key Project Staff Background

L&B TEAM

The L&B Team will be composed of experienced professionals specifically chosen to provide acoustical noise services for FXE. L&B will serve as the **prime consultant** for this project and will report to FXE on all project issues. In that role, L&B will be responsible for any necessary coordination with other consultants, the FAA, other governmental agencies, and local jurisdictions (as directed by FXE). L&B will hold sole responsibility for the timely completion of tasks and the quality of work performed under each task.

Noise and land use compatibility issues are usually too sensitive and complex to entrust to individuals who do not make this type of work their highest priority. As such, the L&B Team is comprised of several firms and individuals that we feel are most qualified to meet the scope of work in the RFP. The following provides a brief overview of the subconsultant firm on the L&B Team.

- **The Jones Payne Group, Inc. (JPG)** is located in Dania Beach, Florida and will provide Noise Office Support for the Team. Diane Carter, Principal of JPG, will serve as the main point of contact for this task. In this role, Diane provides unsurpassed qualifications for the role having over 20 years' experience specializing in airport noise and environmental issues and mitigation planning and program implementation.

L&B TEAM PERSONNEL

Landrum & Brown's (L&B's) reputation for successfully completing projects that gain the approvals necessary and withstand legal scrutiny is well known throughout the aviation industry and the firms that comprise our Team are well respected for their expertise. A good example of this is our recent work for the Fort Lauderdale-Hollywood International Airport (FLL) and L&B's performance on the Environmental Impact Statement (EIS) for the new south runway. However, while team and firm accomplishments are important, individuals are what makes the L&B Team perfect for this project. The existing acoustical consulting firm for FXE has been assisting the airport for decades. That assistance has focused on one person. With all the changes occurring within the industry, it becomes hard for one person to maintain a high level of preparedness for all the different aspects of our industry.

To that end, our Team and our core technical staff provide you the most knowledgeable Team available. We do not propose to offer you a single person as the face of L&B, but rather a Team composed of the most highly experienced individuals that are experts in their area of expertise. In addition, our acoustical on-call experience includes service to some of the most controversial airports in the nation. This is knowledge and experience that no other firm can offer and can be applied to the issues facing FXE.

The individuals presented in the following sections are available for this assignment and will fill the key roles outlined in your Request for Proposal (RFP) for *Noise Abatement Consultant Services*. The individuals have been chosen for these roles based on their years of experience and their depth of understanding of the issues at stake, which are outlined in the paragraphs below. In addition, these individuals have been chosen for their individual experience. The L&B Team has proposed staff who have the experience required for this project and will not claim corporate experience that was a result of individuals no longer with the firm. Please refer to **Section 12 – Additional Attachments** for complete resumes of these individuals, as well as the resumes of additional members of the L&B Team who will assist these key personnel.

L&B and our Team members take seriously the task of proper staffing for on-call projects. This includes having the qualified personnel on the job, but also ensuring that the staff has the time and resources to devote to the project. As Vice President of the firm, **Rob Adams** commits the L&B Team to provide all necessary resources to complete the tasks and the project on time and within budget.

As the Project Manager for this assignment, **Alan Hass** will be available to the FXE staff as necessary for project coordination, communication as well as his acoustical expertise. The Deputy Project Manager, **Vince Mestre**, will also be available for project coordination and will bring his extensive acoustics and noise monitoring system expertise to this project. The other key individuals on the Team, will devote their time to active tasks until the task is complete. This management system ensures that you will always have access to the project through the Project Manager and Deputy Project Manager and that all tasks will be completed as quickly and efficiently as possible.

A complete Team organization chart, which highlights each team member's responsibility to this project, can be found at the end of this section.

Rob Adams – Officer-In-Charge (L&B) - As the Officer-In-Charge (OIC), for your Noise Abatement Consultant Services, Rob will be responsible for ensuring that the Team meets your strategic objectives in a timely fashion. As Vice President of L&B's Environmental Division, Rob has the ability to, and will commit the full staff and resources of the firm to successfully complete your important project and will ultimately be responsible for the project's completion. He is a nationally recognized expert in the field of National Environmental Policy Act (NEPA) compliance and has extensive experience in the preparation of airport planning and environmental studies at large, medium, and small airports around the country. Rob will be available as necessary for discussion and consultation with Team members and will be available to FXE when requested.

Alan Hass, P.E. – Project Manager/Technical Lead – Noise Mitigation & Measurements (L&B), will be responsible for ensuring the day-to-day management of all phases of the Noise Abatement Consultant Services. He will address all policy issues, major technical issues, coordination activities, and project quality control. Alan will ensure that all project team members respond directly and as quickly as possible to all questions and requests. Alan will be the primary contact for the L&B Team and as such, will ensure that all project efforts are successfully executed. As can

be seen from some of the testimonials from his clients, he is a Project Manager dedicated to serving his clients.

In addition, he will be responsible for coordinating acoustical issues for this project including noise mitigation, noise measurements, and other acoustical requirements. Alan specializes in airport environmental analysis, and has over 35 years of experience in environmental noise analysis and is a registered Professional Engineer in the states of Florida and Wisconsin. *A copy of his Florida license for Professional Engineer is included in Section 10.*

He currently manages L&B's Boston office and he is a nationally recognized sound insulation acoustical expert. Alan has had extensive experience managing on-call noise contracts for airports and he has been the Project Manager for nearly 20 years for the on-call acoustical services contract for the Miami-Dade Aviation Department, which has included Miami International Airport and several other general aviation airports. He has served as L&B's Project Manager on this work since 2007.

"Mr. Hass is a person the Miami-Dade County Aviation Department (MDAD) and I, someone who has been in the aircraft noise abatement field for 22 years, hold in the highest regards. Mr. Hass has been MDAD's Noise Consultant nearly 20 years. In this time frame he has never missed a deadline, cost for service has been reasonable, and the end product exemplary.

As a true professional in his field he has also gained the respect and trust of both of our County Manager appointed Aircraft Noise Abatement Task Forces. He accomplished this by taking the time and effort to work closely with them on highly technical and sensitive issues. It is safe to say that without Mr. Hass MDAD would not have accomplished as much for the community as we have".

**- Jeff Bunting,
Chief of Aircraft Noise and
Environmental Planning
Miami-Dade Aviation Department**

"Since the fall of 2009, I've had the great opportunity to work with Mr. Hass on the Noise Insulation Program (NIP) at Hartsfield-Jackson Atlanta International Airport. Our mission is to mitigate the impacts of aircraft noise on structures located in close proximity to the airport. During this time, he has provided preconstruction noise testing and design services and the services performed have been excellent. He, and his team, has delivered services very professionally, promptly and effectively. He has also gone above the call of duty to help our team members understand the testing services and has worked closely with our team to make sure everyone understands what he is recommending in acoustical improvements and why they are needed.

I have thoroughly enjoyed working with Mr. Hass and would highly recommend him to anyone".

**- R. Perry Jarrell, AIA,
Program Manager
H-JAIA NIP**

Throughout his career, he has also provided Part 150 and other noise contour analysis services to numerous general aviation airports. He has also provide His work as the Project Manager for the on-call acoustical services contract for the Maryland Aviation Administration which includes Baltimore-Washington International Thurgood Marshall Airport included work on the Development of a Community Outreach Strategic Plan.

He has been the Project Manager for the noise aspects of numerous Part 150 Studies, having recently completed the NEM Update in Hartford, Connecticut. Alan also has extensive experience in the design, specification and installation of permanent noise and operations monitoring system. He is presently managing the project for Suvarnabhumi International Airport in Bangkok, Thailand, Phuket International Airport in Phuket, Thailand and supporting Vince on the project for Guangzhou Baiyun International Airport in Guangzhou, China.

Alan has taught aviation course and has been appointed by the United Nations (UN) and the International Civil Aviation Organization (ICAO) as the Aviation Noise Consultant to the Government of Brazil. The purpose of that two-week assignment was to teach Brazilian government staff in the Civil Aviation Department (now National Civil Aviation Agency) about aviation noise.

Vince Mestre, P.E. – Deputy Project Manager/Technical Lead – Acoustics, Aviation Noise & Monitoring System (L&B), will assist Alan to ensure that all day-to-day management of all phases of the Noise Abatement Consultant Services are addressed. Vince will be the secondary point of contact for the L&B Team and as such, assist in the execution of all project efforts as well as be responsible for acoustical issues especially related to the noise monitoring system.

Vince has over 35 years' experience in noise control and acoustical engineering. He presently serves as the acoustical on-call consultant at John Wayne Airport, Long Beach Airport and Santa Monica Airport, as well as serving as the on-call consultant for the Oakland Community Forum. He was project manager for the noise demonstration testing program at John Wayne Airport in Orange County to evaluate departure procedures to meet the new safety standards at John Wayne Airport. This cooperative effort between the airlines, community, pilots, and the FAA has national implications on noise departure procedures. Vince completed the synthesis report for the Airport Cooperative Research Program of the National Academies entitled Effects of Aircraft Noise: Research Update on Selected Topics and also completed research studies for the Volpe DOT Research Center on updating the dose response relation between noise and the percent of population highly annoyed ('updates Schultz curve'). Vince is also the Co-chair of SAE A-21 Committee on aircraft noise and emissions, which is responsible for standards on aircraft noise modeling and measurement. Vince has published four articles in peer-reviewed journals including the Journal of the Acoustical Society of America and the Noise Control Engineering Journal in the just the last 3 years.

Rob Adams – Technical Lead – Public Involvement (L&B), will be primarily responsible for public involvement aspects of the on-call contract as well as acting as the OIC on this project.

Rob has developed and led public outreach tasks for all of his projects. His approach is to create an amenable yet structured process to facilitate dialogue about project issues, benefits, impacts (both positive and potentially negative), and to coordinate the interaction of the airport, the environmental review and regulatory agencies, the FAA, political and business interests, other interested parties, and the public. Each study presents different circumstances and scenarios under which a public outreach program should be designed and based on the level of local interest in a project, small focus groups may be appropriate to impart study information and obtain meaningful comment about the purpose and need, analyses, findings, and selected alternatives.

Suzie Kleymeyer, AICP – Technical Lead - Land Use & EIS Coordination (L&B), will assist Vince with all land use planning task and coordination with the findings of the EIS. Suzie was the Project Manager for the FAA EIS to expand Runway 9R/27L at FLL. Significant impacts were identified in three environmental categories for which mitigation was recommended: noise, compatible land use, and wetlands. Suzie developed a series of noise mitigation measures to address the impacts to noise-sensitive land uses within the 65 DNL noise contour with projected future operations on the expanded Runway 9R/27L. In coordination with the FAA and BCAD, a dynamic outreach program was implemented for public and Federal, state, and local agency participation. She was also the Project Manager for the Cincinnati/Northern Kentucky International Airport Part 150 Study and FAA EIS for a third north-south parallel runway and a runway extension, which were conducted concurrently.

Suzie has over 30 years of land use and airport planning experience with real-world knowledge of the workings and processes of the FAA and environmental review agencies. As an L&B Managing Director, she serves as a strategic/technical resource for airport environmental analyses, reviews and public participation under NEPA, Part 150 Noise Compatibility, and land use planning studies and is as a mentor for L&B professional and administrative staff.

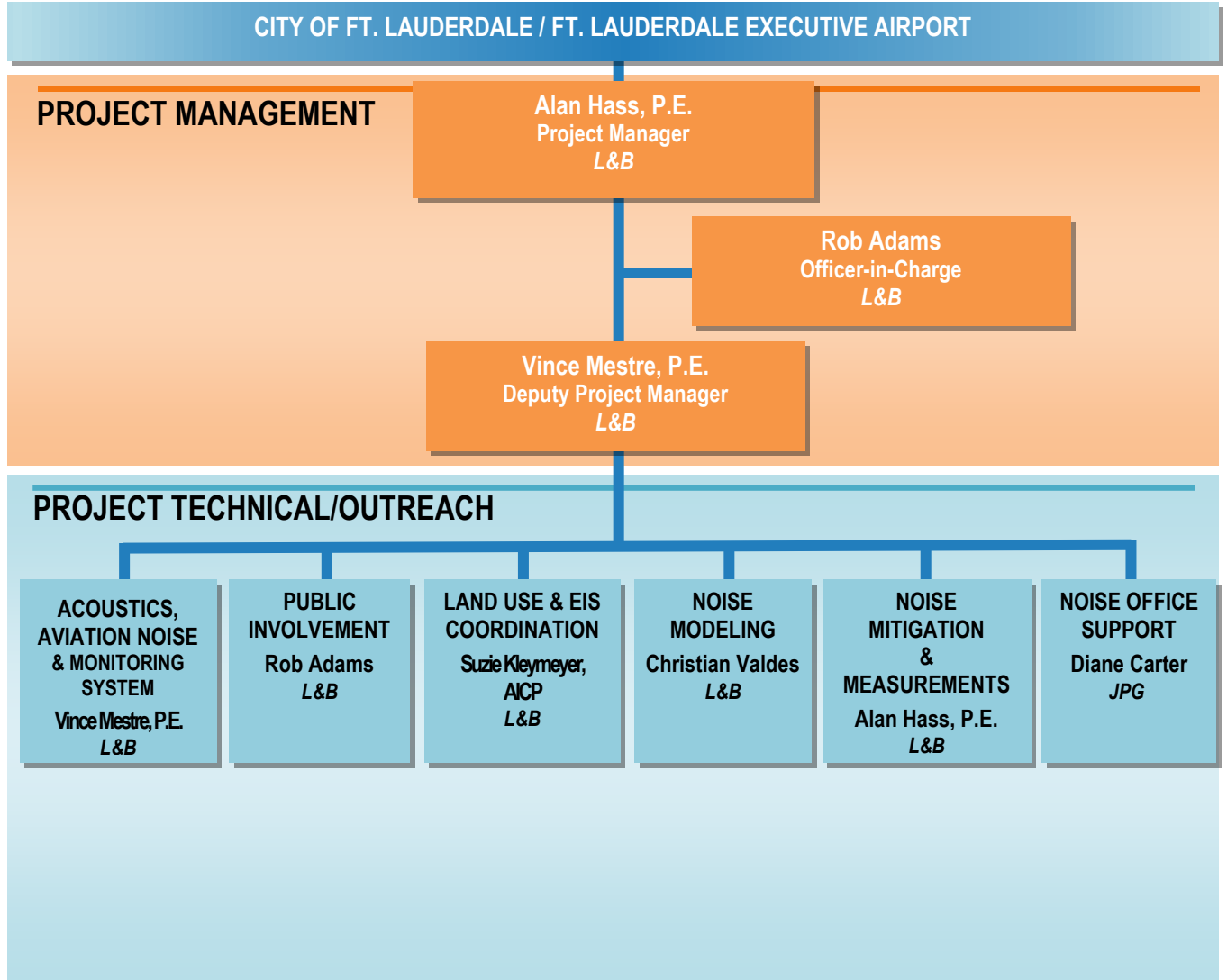
Christian Valdes – Technical Lead - Noise Modeling (L&B), will be responsible for coordinating the noise modeling and noise abatement procedures aspect of the contract. Christian has over 13 years of experience in civil airport noise management and airport noise assessments. He has extensive experience with airport noise modeling and contour development and has prepared noise contours as part of airport FAR Part 150 noise studies, EIRs, EISs, and Quarterly/Annual airport noise exposure maps. These projects have involved flight data collection in form of radar to verify operations by time of day, fleet mix, runway utilization, and flight path utilization. In addition to the collection of noise model input data, Christian has developed several scenarios per project to analyze the noise impacts of future conditions with changes in the number of operations and changes in runway utilization.

Christian also has considerable experience in airport Noise and Operations Monitoring Systems (NOMS). He has developed noise abatement procedure compliance reports, maintained system equipment and data integrity, and managed system enhancements and upgrades. He was the Project Manager during Oakland Airport's upgrade from the ANOMS 6 to ANOMS 8 platform and worked with the system vendor to resolve numerous data transfer, data accuracy, and system functionality and acceptance. He recently worked on the Long Beach Airport system upgrade and is currently working on system upgrades for John Wayne Airport and system installation at Bangkok International Airport. In addition to his knowledge of NOMS databases, he has optimized system noise-to-flight track correlation parameters and has used geocoded complaint addresses to produced noise complaint maps. Prior to joining L&B, Christian worked in the noise office at Oakland International Airport.

Diane Carter – Technical Lead – Noise Office Support (JPG), will report directly to the Project Manager. She will oversee the direct support of the noise office for FXE and will be the primary on-site contact for specific noise office requests. Diane resides in South Florida and is currently serving as the Program Director for the Fort Lauderdale-Hollywood International Airport Noise Mitigation Program. In this role, Diane provides support to the BCAD in the development and implementation of their sound insulation and sales assistance programs.

Diane has over 20 years' experience specializing in airport noise and environmental issues and mitigation planning and program implementation. Her experience at both air carrier and general aviation airports provides a broad range of expertise conducting specialized studies including Part 150 and implementation of recommended programs. She has assisted airport noise offices with the development and implementation of their noise programs and has extensive experience in the design, installation, and implementation of noise and flight tracking systems, and developing community and pilot relations programs. Additionally, she brings extensive experience in fostering communication with community groups and public agencies to develop an understanding of airport projects. She has extensive experience in the development and implementation of large-scale noise mitigation programs such as sound insulation of residential and public structures and voluntary land acquisition.

Diane also has a unique set of skills sets having served as the technical support manager for the ANOMS flight tracking software. In this role, she was responsible for the oversight of 25 airport clients ANOMS systems including providing daily support, development of specialized reports, staff training and software maintenance and optimization. Diane is also a former airport noise officer and brings the first hand experiences of the issues faced by airport noise staff.



Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Task Area Descriptions

Task Area Descriptions



Landrum & Brown, Incorporated

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Section 8 – Task Area Descriptions

This section responds to *Technical Specifications/Scope of Services* as presented Part IV of the RFP.

The Scope of Services as specified in the RFP defines two major tasks where Noise Abatement Consultant Services will be required. These are defined as follows:

- Task 1: Quarterly AAB Presentation
- Task 2: On-Call Planning Services, Technical Support, Study Updates, and Reports

Where possible, a detailed approach to each of the tasks are described below in more detail. Each task outlined below will detail our experience in that specific area and examples of program enhancements (where applicable).

TASK 1: QUARTERLY AAB PRESENTATION

L&B has provided administrative and technical support to noise offices, noise abatement committees and community groups that are dedicated to the reduction of aircraft noise in their neighborhoods. L&B has worked hand-in-hand to build and maintain coalitions of communities and citizens dedicated to enhance the quality of life for area residents. No other firm can offer the broad level of support that we provide to airports across the country.

In Chicago, L&B runs the Noise Office for the City of Chicago at both O'Hare International and Midway Airports. In Chicago, the O'Hare Noise Compatibility Commission (ONCC) and the Midway Noise Compatibility Commission (MNCC) are dedicated to reducing aircraft noise in the communities that surround O'Hare and Midway. Since 1996, both the ONCC and MNCC have worked together with the City of Chicago and surrounding suburban communities in order to create constructive dialogues on aircraft noise issues with the goal of reducing the aircraft noise impacts. L&B assists both the ONCC and MNCC by taking an active role at meetings and developing and implementing the commissions' work plans. In addition to monthly reports and technical analysis, L&B has assisted both commissions in creating web sites, annual reports, construction awareness brochures, informational videos, and various maps and graphics materials. In addition, we provide support at monthly commission meetings and individual committee meetings, as well as assisting with Work Plans each year. We have provided responses to community-based requests including noise-monitoring analysis in specific areas around O'Hare and runway use reports. The work plan developed by L&B in the early days of the two commissions has served as the basis for their annual work programs and is expected to continue to do so as they systematically accomplish each outlined objective.

Our designated Project Manager, Alan Hass, has been providing on-call acoustical services to the Miami-Dade Aviation Department (MDAD) for over 20 years. This Professional Services Agreement provides on-call acoustical consulting services to Miami International Airport (MIA) and four other general aviation airports under MDAD

control. His work for MDAD has also included work on two of their general aviation airports. Over the years, Alan has been tasked with supporting the needs of the Noise Abatement Task Force (NATF) at MIA. Initially, the NATF met monthly (now quarterly) and Alan has regularly met and presented information to the NATF.

Our Deputy Project Manager, Vince Mestre, provides regular assistance to the noise committees at John Wayne Airport, Long Beach, Santa Monica and Oakland. John Wayne Airport has one of the most complex and strict set of noise restrictions in the nation and includes single event noise limits for general aviation and air carrier operations, limits on annual passengers, and limits on hours of operations. For almost 30 years, Vince has provided bi-weekly review of air carrier compliance reports and the review of GA single event violations as needed. This work has included numerous presentations to the aviation committees of adjacent cities, public meetings, and meetings with the FAA.

At Long Beach Airport, Vince supports the Airport's Noise Ordinance that provides annual limits on air carrier operations based on a noise budget that accounts for number of operations, the noise level of each operation and the time of day of the operation. Vince provides the annual budget report to the City Council and assists the City in making decisions on air carrier use of the noise budget. He has made numerous presentations on LGB noise to the City Council, aviation groups, and community groups and has been providing this service to LGB for nearly 20 years.

Most notably is Vince's support to the Oakland International Airport's Community Noise Management Forum, better known as the Roundtable. As the Roundtable's technical consultant for acoustical, noise-related issues relative to aircraft operations, Vince attends meetings, prepares analyses, conducts studies, and provides advice to the Roundtable as required. At each meeting, Vince presents a "Noise News" presentation that addresses new legislation, potential legislation, aircraft noise technological advances, new research on aviation effects on people and new and emerging noise issues. Vince has been providing these on-call services at Oakland for almost 15 years.

Similar to the service we provide to other airports, L&B can provide any level of support to the Aviation Advisory Board (AAB) on a quarterly basis including administrative support. This support could include the following tasks:

- Act as secretary to the AAB, manage attendance and call or email Board members with meeting reminders
- Prepare agenda packages, including photo copying, creating PDF files and mailing to AAB members and general public
- Coordinate with FXE/City of Ft. Lauderdale outreach staff to place agenda package items on FXE website
- Coordinate creation of meeting collateral material including boards or posters
- Prepare PowerPoint presentations with general information
- Post signage and direct public to meeting location

- Greet attendees and staff sign-in table
- Take meeting minutes
- Provide summary minutes for review by AAB and FXE staff

Our role is not to change the assistance to the AAB, but to continue to support it with staff well versed in all areas of assistance.

TASK 2: ON-CALL PLANNING SERVICES, TECHNICAL SUPPORT, STUDY UPDATES, AND REPORTS

Task 2 calls for assistance on a variety of tasks. To support these various tasks, our team members are individuals that have years of experience and a depth of understanding in the various issues at stake. The L&B Team are leaders in their field in the following areas:

- ***Management of on-call contracts***
- ***Knowledge of acoustics and noise***
- ***Noise measurements***
- ***Noise mitigation***
- ***Noise monitoring system***
- ***Noise modeling***
- ***Public outreach***
- ***Compatible land use planning***
- ***Part 150 process***
- ***Air traffic planning***
- ***EA/EIS studies***

This expertise matches the required tasks listed in Task 2.

- ***Technical Support***

All of the staff listed in this proposal provide support to airports in the varied aspects of airport noise. Many of the staff have expertise in multiple task areas.

- ***Public Meeting Support/Provide Outreach Assistance***

All of the L&B and JPG staff have extensive expertise in the support of public meetings and outreach assistance. Rob Adams is a nationally respected figure in the area of airport public outreach. His experience on recent projects in Phoenix and at Seattle (see Section 6) are good examples of this service. Suzie Kley Meyer has extensive outreach experience for the EIS in Ft. Lauderdale and the Part 150 Study in St. Louis.

- **Conduct Portable Noise Monitoring**

L&B regularly conduct portable noise monitoring using portable noise monitoring equipment that is located in our Irvine CA office. Both Alan Hass and Vince Mestre regularly lead or perform these efforts. In fact, while with another firm, Alan Hass provided portable noise monitoring kits to staff at FXE and trained staff in the use of the database management software. This portable-based noise monitoring system pre-dated the present permanent noise monitoring system.

- **Provide Airspace/Air Traffic Planning Services**

L&B staff regularly undertake airspace and air traffic planning services. Rob Adam's work on the Boston Overflight Noise Study (see Section 6) is a good example of this work.

- **Evaluate Noise Mitigation Options**

L&B is one of the leading firms in the US providing noise mitigation (sound insulation) services to airports. Alan has provided these services to over 40 programs throughout his career. In addition, Diane Carter from JPG is the Program Manager for the Noise Mitigation Program at FLL.

- **Review Statistical Reports**

Both Christian Valdes and Diane Carter are former Airport Noise Officers and are well versed in using the data out of Airport Noise Monitoring Systems. Additionally, Diane Carter provided technical support for a major monitoring system vender and knows the ANOMS system in use at FXE intimately. In addition, both Alan Hass and Vince Mestre, thru their on-call contracts regularly use data out of ANMS for their consulting work.

- **Prepare Annual Contours**

Both Vince Mestre and Christian Valdes are some of the most experience noise modelers in the US and regularly use the Integrated Noise Model (INM) for the production of airport noise contours. In addition, they are regularly involved with the development and testing of the Aviation Environmental Design Tool (AEDT).

- **Conduct EA/EIS Studies**

L&B staff regularly conduct EA and EIS studies for airports. Rob Adams and Suzie Kleymeyer are some of the most respected people in the US when it comes to environmental studies. Suzie Kleymeyer was the Project Manager for the new runway EIS at FLL (see Section 6).

- **Conduct Other Noise Studies**

L&B regularly conduct Part 150 studies for airports. Rob Adams, Alan Hass, Suzie Kleymeyer, and Vince Mestre all have lead Part 150 planning efforts for airports. Several of these studies are mentioned in Section 6.

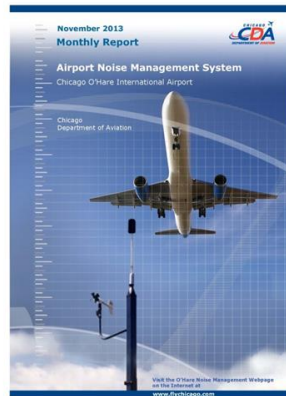
- **Compatible Land Use Planning**

Suzie Klymeyer is a leading expert in the area of compatible land use planning. Her work at Ft. Lauderdale, Rochester and St. Louis, as outlined in Section 6, are several examples of her work. Suzie was also a member of the nine-person FAA Southern Region Land Use Compatibility Task Force where she developed a land use control and planning guide for airports and communities that has been adopted for national guidance.

While L&B has provided acoustical on-call services to Miami, Oakland, Santa Monica, Orange County, Long Beach and other airports, the services available to FXE include the similar services that L&B provides to support the ONCC and MNCC in Chicago. Chicago is a good example of where L&B provides all the services required at FXE. Procedures and processes used in Chicago for the ONCC and MNCC will be reviewed to see if any can be applied to FXE and the AAB meetings.

ANOMS ASSISTANCE

One area of support or assistance to the ANOMS at FXE involves many sub-tasks including entry of noise complaints, noise monitoring terminal (NMT) siting or relocation, reviewing system parameters, developing new reports, assistance with development of specialized graphics per City or public requests, accessing data for use in other specialized studies and supporting special portable noise monitoring requests.



The L&B Team is well versed in this level of specialized ANOMS support for airports. As previously discussed, since 1996 we run under contract the ANOMS system for the City of Chicago at ORD and MDW. This two-airport system records over 150,000 flights per month and records over 400,000 monthly noise events from 54 noise monitors. With this, we bring a level of experience that no other consultant can offer – the day-to-day operation of an ANOMS system with

insight rarely found in the consulting world. In addition, we have two ex-airport noise officers on our Team with experience in running the specific ANOMS software. Again, we bring a level of experience and insight unsurpassed in the industry.

Diane Carter brings unsurpassed experience to filling the role of ANOMS support, having previously served as the technical support manager for the ANOMS flight tracking software. In this role, she was responsible for the oversight of 25 airport clients ANOMS systems including providing daily support, development of specialized reports, staff training and software maintenance and optimization.

Diane was also a former airport noise officer and with that brings the first-hand experiences of the issues faced by airport noise staff. Her responsibilities in this role have included facilitation of community noise committee meetings, technical support of the airport's noise monitoring systems, development of a comprehensive community and pilot education program, interaction with local, state and federal officials and agencies, grant writing and reports and, community outreach.

Previously, Diane has assisted BCAD with the review and optimization of the noise and flight tracking system. This optimization resulted in significantly increased agreement between measured and modeled noise levels at the county's permanent noise monitors. She also assisted BCAD staff with the upgrade of the noise monitoring system to ensure data integrity and system functionality as well as the development of specialized noise monitoring reports for dissemination to local officials and residents. She has also provided on-call acoustical support to the BCAD Noise Control Office by providing assistance in optimizing the noise and flight tracking system for FLL. This optimization resulted in significantly increased agreement between measured and modeled noise levels at the county's permanent noise monitors. Diane also assisted staff in the development of specialized noise monitoring reports for dissemination to local county officials and residents.

Christian Valdes also has considerable experience in airport ANOMS. As a former Noise Officer for Oakland International, he has developed noise abatement procedure compliance reports, maintained system equipment and data integrity, and managed system enhancements and upgrades. Christian was also the Project Manager during Oakland's upgrade from the ANOMS 6 to ANOMS 8 platform and worked with the system vendor to resolve numerous data transfer, data accuracy, and system functionality and acceptance. He recently worked on the Long Beach Airport system upgrade and is currently working on system upgrades for John Wayne Airport and system installation at Bangkok International Airport. In addition to his knowledge of NOMS databases, he has optimized system noise-to-flight track correlation parameters and has used geocoded complaint addresses to produced noise complaint maps.

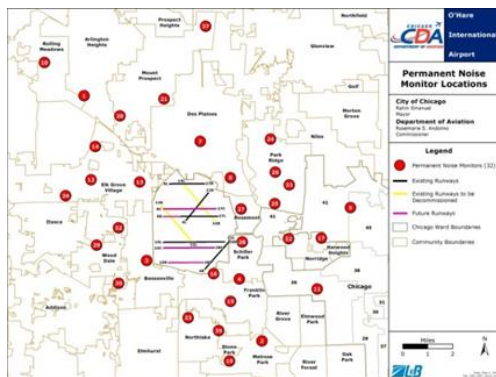
Noise Complaint Entry

The selected consulting team will continue to assist FXE staff with the complaint data entry into the ANOMS system. With two former Airport Noise Officers on the team as Technical Leads, as well as direct experience in running the Noise Office for the City of Chicago at O'Hare we have experienced staff to undertake this task. Typical tasks would be to obtain noise complaint calls from voice mail and enter the noise complaint info (name, address, date, time and nature of the complaint) into the ANOMS system/software. The noise complaint is then researched to determine the flight that causes the complaint and provide that information, along with the noise levels, to BCAD staff. Presently noise complaints are at a fairly low level with generally only about 20 complaints per month in the winter and five per month in the summer. However, with the impending opening of the new runway, the number of noise complaints and the workload to process them is expected to increase dramatically. The Team should be ready to handle this expected increase, as the results will be necessary for airport staff to respond to the public in a timely manner.

Noise Monitoring Terminal Siting/Relocation

Generally, ANOMS assistance the daily or normal operations of the system at FXE. However, the need for occasional tasks do occur. The siting of new noise monitoring terminals (NMTs), the need to relocate an NMT or the requirement to evaluate the effectiveness of each NMT may be potential task required in the future. Vince Mestre and Alan Hass recently completed a full top to bottom evaluation of NMTs at Vancouver (see YVR project profile in Section 4). In addition, Vince and Alan have completed siting studies for new NMTs at Albuquerque, Guangzhou, China; Phuket, Thailand and Bangkok, Thailand.

Noise Monitoring System Tuning



Noise Monitoring System tuning is done periodically on a system after installation. The system tuning refers to optimizing the noise monitoring system parameters to segregate noise events from ambient noise through proper setting of sound level and duration thresholds for each noise monitor, and evaluating and setting the system parameters used to determine how noise events are associated with specific flights. Even when these parameters are initially set in an optimal way, they may need to be changed as the fleet mix

changes or ambient noise levels change as a result of changes in the environment around a noise monitoring site. L&B has done acceptance testing, system auditing and/or system tuning at a wide variety of airports including Long Beach, John Wayne, Seattle, Honolulu, Dallas-Ft. Worth, Oakland, Santa Monica, Albuquerque, Vancouver and Bangkok.

Airports with noise monitoring systems provide a variety of reports to disseminate the information collected. The information contained in these reports are not the result of a large scale technical analysis, but rather just a reporting of information that is already gathered by FXE thru its ANOMS. The L&B Team also brings to FXE various software and reporting tools that can be used to supplement existing data and tools to create quarterly reports that include much more data, are easier to read and interpret by the general public, make better use of technology and graphics, and overall have a much more pleasing and professional look to the reports. In addition, our extensive experience with airport noise monitoring system and support of airport noise offices gives us a unique perspective in tailoring noise reports to a specific airport’s needs.

Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Project Work Plan

Project Work Plan



Landrum & Brown, Incorporated

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Section 9 – Project Work Plan

L&B will serve as the **prime consultant** for this project and will report to FXE staff on all project issues. In that role, L&B will be responsible for any necessary coordination with other consultants, the FAA, other governmental agencies, and local jurisdictions. L&B will hold sole responsibility for the timely completion of tasks and the quality of work performed under each task.

The RFP asks the proposer to “Provide a detailed project implementation plan that includes ... A Gantt chart ...” This is a difficult request to fulfill for an on-call contract given that a portion of the contract is for work tasks (Task 2) that are generally undefined at this time. Task 1 calls for attendance at quarterly AAB meetings and the schedule presented on the following page revolves around collecting and developing informational material for the AAB meeting. This also includes attendance at the AAB meetings and providing a summary document after the meetings. A rough project schedule is included on the following page.

As part of the project, L&B will maintain the program budget and schedule in accordance with project goals and City project reporting requirements. Cost containment strategies will be explored in all areas should the L&B Team be selected. For the development of the budgets for the administrative and technical side of the AAB meetings, budgets will be set for all Team members. Given that these tasks, and the information provided, is repetitive, a hard budget will be set for all Team members that will not be exceeded.

For the technical expertise provided directly by L&B staff we propose to go with our Team of highly experienced individuals. We prefer to not focus on one person who cannot possibly be an expert in all areas. That person would spend too much time and budget getting up to speed on the required topic. Rather using our core technical staff we would be able to provide you the most knowledgeable personnel that are experts in their area of expertise. That results in less preparation time and a lower budget.

Lastly, the requirements in the RFP call for a Project Work Plan in addition to the Gantt chart. This includes a table of staff assignments, labor hours, task description and description of the deliverables. Without specific tasks, this task is difficult to fulfill.

TASKS	MONTH																								
	Mid Aug. 2014	End Aug. 2014	Mid Sep. 2014	End Sep. 2014	Mid Oct. 2014	End Oct. 2014	Mid Nov. 2014	End Nov. 2014	Mid Dec. 2014	End Dec. 2014	Mid Jan. 2015	End Jan. 2015	Mid Feb. 2015	End Feb. 2015	Mid Mar. 2015	End Mar. 2015	Mid Apr. 2015	End Apr. 2015	Mid May 2015	End May 2015	Mid Jun. 2015	End Jun. 2015	Mid Jul. 2015	End Jul. 2015	
TASK #1 - QUARTERLY AAB PRESENTATION																									
1.1: Collect Background Data for Presentation Preparation																									
1.2: Prepare Draft Presentation Material																									
1.3: Submit Draft Presentation Material for FXE review																									
1.4: Prepare Final Presentation Material																									
1.5: Present at Quarterly AAB Meeting						*						*						*						*	
1.6: Take Meeting Summary Minutes Related to Noise Issues																									
1.7: Provide Meeting Summary Minutes to FXE Staff																									
1.8: FXE Staff Coordination and Communication																									
TASK #2 - ON-CALL PLANNING SERVICES, TECHNICAL SUPPORT, STUDY UPDATES AND REPORTS																									
2.1: Provide Additional Support (as required)	Schedule unknown at this time and is dependent upon final scope of work for each additional support task																								
(*) Attend AAB Meeting																									

Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Licenses, Professional Certificates,
Memberships and Insurance



Landrum & Brown, Incorporated

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State of Florida

Department of State

I certify from the records of this office that LANDRUM & BROWN, INCORPORATED is an Ohio corporation authorized to transact business in the State of Florida, qualified on August 20, 1984.

The document number of this corporation is P03090.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on March 28, 2014, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-fifth day of June, 2014*



Ken DeFoner
Secretary of State

Authentication ID: CU5773417159

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certauthver.html>

State of Florida

Board of Professional Engineers

Attests that

Alan Gregory Hass, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201533039

P.E. Lic. No:

64871

**CERTIFICATE OF LIABILITY INSURANCE**DATE (MM/DD/YYYY)
1/24/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Arthur J. Gallagher Risk Management Services, Inc. 1 W. 4th Street, Suite 1300 Cincinnati, OH 45202	CONTACT NAME: PHONE (A/C, No, Ext): (513) 977-3100 FAX (A/C, No): E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
INSURED Landrum & Brown, Incorporated Landrum & Brown Worldwide Services, Inc. c/o Dennis Peters 11279 Cornell Park Drive Cincinnati, OH 45242	INSURER A : Chubb Indemnity Insurance Company	NAIC # 12777
	INSURER B : Beazley Insurance Company, Inc.	11442
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> contractual liab.	X		35786142	1/23/2014	1/23/2015	EACH OCCURRENCE \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	X		74968374	1/23/2014	1/23/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
							BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (PER ACCIDENT) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$			79839506	1/23/2014	1/23/2015	EACH OCCURRENCE \$ 9,000,000
							AGGREGATE \$ 9,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N <input type="checkbox"/> If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		71709699	1/23/2014	1/23/2015	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER
							E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Professional Liab.			V11CQ814PNPM	1/23/2014	1/23/2015	\$50,000 Deductible 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RLI# R0803502R1 & RLI# 20050422-0-AV-01EB Additional Insured: Broward County Project Title: AirportPlanning Consultant Services for Broward Co. Owned Airports. 30 day notice of cancellation applies.

CERTIFICATE HOLDER**CANCELLATION**

Broward County
 2200 SW 45th St., Ste 101
 Dania Beach, FL 33312

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Thomas R. Dietz

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Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Joint Venture



Landrum & Brown, Incorporated

EXHIBIT 4

14-1247

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Section 11 – Joint Venture

Landrum & Brown is submitting as the prime consultant for this proposal and will not be submitting as a joint venture.

Contract No. 545-11443

FXE

FORT LAUDERDALE EXECUTIVE AIRPORT

PROPOSAL

CITY OF FORT LAUDERDALE
FORT LAUDERDALE, FLORIDA



Additional Attachments

Additional Attachments



Landrum & Brown, Incorporated

EXHIBIT 4

14-1247

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Education

Bachelor of Urban Planning - University of Cincinnati.

Overview

Mr. Adams is the Executive Vice President of Landrum & Brown's Environmental Division, but also serves as Project Officer and/or Project Manager. Mr. Adams is responsible for the management of Environmental Impact Statements (EISs), Environmental Assessments (EAs), FAR Part 150 studies, and related environmental and noise studies. Throughout his career, he has sought and obtained ever increasing roles of responsibility within the airport projects he was assigned. His primary role now is as the Officer in Charge for airport environmental and noise studies and as a strategic/technical resource for other types of airport projects. Mr. Adams is a valuable resource for the Landrum & Brown Environmental Practice and serves as a mentor for the staff. In addition, he has provided industry training through formal noise abatement and modeling courses, speaking at conferences, and teaching courses at local universities. Mr. Adams is dedicated to the continued improvement of the noise assessment field, community outreach, and the effective management of airport projects.

**Part 150/Noise
Abatement Planning**

Mr. Adams has managed Part 150 studies, Noise Exposure Map (NEM) updates, and stand alone noise assessments at a number of airports across the country. Currently, he is managing a Part 150 Studies at Seattle Tacoma International Airport. He recently completed simultaneous Part 150 Studies at Port Columbus International and Rickenbacker International airports. Previous Part 150 assignments included managing the Harrisburg International Airport Part 150 Study; Philadelphia International Airport, where his responsibilities included the day-to-day management of the project; T. F. Green Airport, where he coordinated the public outreach efforts and prepared the technical noise analysis; and NEM updates at Toledo Express and Port Columbus International Airports.

In addition to Part 150 assignments, Mr. Adams has provided support to noise offices, including Chicago O'Hare, Cincinnati, T.F. Green, and Port Columbus. In this role, he has directed the preparation of specialized noise assessments, quarterly noise reports, annual noise contours, assessment of noise monitor and flight tracking systems, supporting sound insulation and acquisition programs, conducting noise measurement programs, and developing noise abatement communication materials.

**Environmental Impact
Statements /
Environmental
Assessments**

In addition to his Part 150 experience, Mr. Adams has served in various roles for a number of EISs/EAs. He successfully managed an EIS project at Port Columbus International Airport for a replacement runway and is currently managing the EIS/EIR at Marin County Airport for a runway extension. Previous assignments have included managing a Supplemental EIS at Indianapolis International, serving as a technical/strategic resource for an EIS at Fort Lauderdale-Hollywood International Airport, and managing the noise tasks of EISs for Cincinnati/Northern Kentucky International Airport and T.F. Green Airport. Mr. Adams has also managed dozens of successful EA projects for airports, including recent projects at Houston Inter-continental, Fort-Lauderdale, and Kansas City International Airports.

Community Experience

Over the last ten years, Mr. Adams has been involved in a variety of non-airport, community planning projects. Through these experiences, he has assisted in the development and implementation of large scale public outreach efforts, researched funding and siting criteria for the use of Personal Rapid Transit and light rail, volunteered as an expert for local land use planning efforts, and has worked with communities to identify potential economic development actions. He sits on his Village's Planning Commission where this year will serve as the Chairperson.

Representative Projects

Bob Hope Airport, CA

- Noise Contour Updates
- GIS Land Use Database
- Noise Impact Analysis

Chicago Midway Airport, IL

- Noise Impact Assessment
- Noise Contour Modeling
- Land Use Inventory

Chicago O'Hare International Airport, IL

- Airport Layout Plan Update
- Line-of-Sight Analysis
- Annual Noise Contour Updates

Cincinnati/Northern Kentucky International Airport, KY

- Part 150 Study Updates
- Environmental Impact Statement
- Annual Noise Contour Updates
- Quarterly Noise Monitoring Reports

Charlotte Douglas International Airport, NC

- Written Re-evaluation of 1999 Final EIS
- Amended Record of Decision, 2006

Detroit Metropolitan Wayne County Airport, MI

- Environmental Assessment for 4L/22R Offset ILS
- Environmental Analysis
- GIS Parcel Database

FAA – Western Pacific Region

- Environmental Assessment – Albuquerque ARTCC
- Environmental Assessment – Los Angeles ARTCC

Fort Lauderdale/Hollywood International Airport, FL

- Environmental Impact Statement

Fort Wayne Airport, IN

- Supplemental Environmental Assessment

Four Corner-Post, NV

- Airspace Environmental Assessment

Harrisburg International Airport, PA

- Part 150 Study

Indianapolis International Airport, IN

- Noise Exposure Map Updates
- 2001 Supplemental Environmental Impact Statement
- 1999 Supplemental Environmental Impact Statement
- Part 150 Study Update

Los Angeles International Airport, CA

- Master Plan
- Environmental Impact Statement

Marin County Airport, CA

- Environmental Impact Statement/ Environmental Impact Report

Nashville International Airport, TN

- Noise Exposure Map Update
- GIS Land Use Database
- Part 150 Study Update

Northwest 2000, AZ

- Airspace Environmental Assessment

Philadelphia International Airport, PA

- Part 150 Study

Phoenix Sky Harbor International Airport AZ

- Noise Exposure Map Updates

Port Columbus International Airport, OH

- Part 150 Study Update
- Environmental Impact Statement
- Noise Exposure Map Update
- Environmental Assessments

Rickenbacker International Airport, OH

- Part 150 Study Updates
- Environmental Assessments

Seattle-Tacoma International Airport, Seattle, WA

- Part 150 Study Updates

T. F. Green Airport, Providence, RI

- Master Plan/Environmental Impact Statement
- Part 150 Study Update
- Environmental Impact Statement

Toledo Express Airport, OH

- Supplemental Part 150 Study
- Environmental Assessment
- Noise Exposure Map Updates
- Part 150 Study Update
- Environmental Impact Statement

Tri-Cities Airport, TN

- Master Plan Environmental Overview

Tucson International Airport, Tucson, AZ

- Part 150 Study Updates

Education	Bachelor of Science – Engineering Science (Civil) University of Wisconsin - Milwaukee
Overview	Mr. Hass specializes in airport environmental analysis and has over 36 years of experience in the environmental noise field and is a registered Professional Engineer in the State of Wisconsin and Florida. He has extensive experience in the noise aspects of Environmental Assessments (EAs), Environmental Impact Statements (EISs), Airport Master Plans and with FAR Part 150 Noise/Land Use Compatibility Studies. At L&B Mr. Hass is also responsible for all of the firms Sound Insulation Acoustical Support Services and is an industry leader in the management and technical analysis of sound insulation studies. (The list of his extensive sound insulation experience is presented on a separate resume).
Noise Analyses for EIS's, EA's, & Master Plans, Sound Insulation Studies	
Part 150 Study Experience	He has been the Project Manager for the noise aspects of numerous Part 150 Studies. Several of his previous responsibilities include the Part 150 Studies in Hartford (CT), Juneau (AK), Akron-Canton (OH) and Oshkosh (WI) among others. The experience at Oshkosh was especially noteworthy as it had to take into account the "busiest airport in the world" status during the week of the EAA AirVenture Convention during the summer.
Noise Aspects of EIS's	Mr. Hass was also responsible for the noise analysis of controversial EISs for new runways in Philadelphia (PA), Raleigh (NC) and Greensboro (NC). The Greensboro EIS was extremely controversial and studied the impact of a new runway that was to support the new regional hub for FedEx. This EIS placed a major emphasis on supplemental noise metrics and impacts outside the 65 DNL contour due in fact to the huge increase in projected nighttime operations.
On-Call Acoustical Services	For the Miami-Dade Aviation Department, he has been the Project Manager for nearly 20 years for the on-call acoustical services contract, which included Miami International Airport and other six airports. His work has included acoustical services related to planning a new engine test cell facility, upgrading the existing engine runup area, design of a new noise barrier, noise contour updates and a detailed noise analysis for aircraft runway use procedures at Miami International. Mr. Hass is also the Project Manager for the on-call acoustical services contract for the Maryland Aviation Administration which includes Baltimore-Washington International Thurgood Marshall Airport. He has recently completed work on the Development of a Community Outreach Strategic Plan.
Noise and Operations Monitoring Systems	Mr. Hass also has extensive experience in the design, specification and installation of permanent noise and operations monitoring system. He is presently managing the project for Suvarnabhumi International Airport in Bangkok, Thailand, Phuket International Airport in Phuket, Thailand and for Guangzhou Baiyun International Airport in Guangzhou, China.
Appointed UN/ICAO Noise Consultant to Brazilian Government	Mr. Hass has been appointed by the United Nations (UN) and the International Civil Aviation Organization (ICAO) as the Aviation Noise Consultant to the Government of Brazil. The purpose of this two-week assignment was to teach Brazilian government staff in the Civil Aviation Department (now National Civil Aviation Agency) about aviation noise.
Other International Projects	Mr. Hass also has extensive experience with noise studies at airports across the globe. Most noteworthy was a study he managed for the Airports Company of South Africa (ACSA) that evaluated procedures and noise levels at all 10 international airport in South Africa. This study also performed a full noise contour update and a design of a permanent noise and operations monitoring system for the airports in Johannesburg and Cape Town.
	Most recently he was one of the Principal Investigators evaluating the noise from NATO Air Base (NAB) Geilenkirchen in Germany. AWACS aircraft operate from this NAB which are the home base to NATO's only aircraft. Noise from these aircraft were causing cross border issues between Germany and the Netherlands and L&B was contracted to perform a full comprehensive study at the NAB.



Representative Projects

Akron-Canton Regional Airport (CAK), OH

- Part 150 Study

Airports Company South Africa (ACSA) Development and Implementation of Noise Analysis Standards

- Develop noise exposure at 10 international airports run by ACSA
- Design of permanent noise monitoring system for O.R. Tambo International Airport, Johannesburg (JNB)
- Design of permanent noise monitoring system for Cape Town International Airport (CPT)

Baltimore-Washington International Thurgood Marshall Airport (BWI), MD

- Annual On-Call Services
- Development of Community Outreach Strategic Plan

Belfast International Airport (BFS), Northern Ireland, United Kingdom

- Noise Contour Update

Bradley International Airport (BDL), Hartford, CT

- Part 150 Study
- Part 150 NEM Update
- Environmental Assessment

Cardiff International Airport (CWL), Wales, United Kingdom

- Noise Contour Update

Destin Airport (DTS), FL

- Noise Barrier Design Review

East Hampton Airport (HTO), NY

- Environmental Assessment

Erie International Airport (ERI), PA

- Environmental Assessment

Fort Lauderdale Executive Airport (FXE), FL

- Design and Implementation of Portable Noise Monitoring System

Gerald R. Ford International Airport (GRR), Grand Rapids, MI

- Part 150 NEM Update

Guangzhou Baiyun International Airport (CAN), Guangzhou, China

- Design and Implementation of Permanent Noise Monitoring System

Hartford-Brainard Airport (HFD), CT

- Part 150 Study

Juneau International Airport (JNU), AK

- Part 150 Study
- Environmental Assessment

Kendall-Tamiami Executive Airport (TMB), Miami, FL

- Noise Contour Update

Louis Armstrong International Airport (MSY), New Orleans, LA

- Design and Implementation of Portable Noise Monitoring and Database Management System

Madrid-Barajas International Airport (MAD), Spain

- Evaluation of Noise and Operations Monitoring System
- Noise Contour Update

Miami International Airport (MIA), FL

- Annual On-Call Services
- Environmental Assessment
- Noise Barrier Design
- Design and Implementation of Portable Noise Monitoring
- Design and Implementation of Permanent Noise and Operations Monitoring System
- Noise Contour Updates
- Upgrades to Engine Run-Up Area

Midway Airport (MDW), Chicago, IL

- Design of Permanent Noise and Operations Monitoring System

Montgomery County Airpark (GAI), Gaithersburg, MD

- Part 150 Study

Naples Municipal Airport (APF), FL

- Design and Implementation of Portable Noise Monitoring

NATO Air Base Geilenkirchen (GKE), Germany

- Comprehensive Noise Assessment, Noise Abatement and Land Use Mitigation Study

O'Hare International Airport (ORD), Chicago, IL

- Design of Permanent Noise and Operations Monitoring System

Opa-Locka Executive Airport (OPF), Miami, FL

- Annual On-Call Services
- Environmental Assessment
- Noise Contour Updates

Phuket International Airport (HKT), Phuket, Thailand

- NMT Site Selection
- System Acceptance Testing
- Noise Office Staff Training

Piedmont Triad International Airport (GSO), Greensboro, NC

- Environmental Impact Statement

Potomac Consolidate TRACON, Washington DC

- Environmental Impact Statement

Princeton Airport (PCT), NJ

- Environmental Assessment

Raleigh-Durham International Airport (RDU), NC

- Environmental Assessment
- Master Plan Update
- Annual On-Call Services
- Design of Permanent Noise and Operations Monitoring System

Ramón Villeda Morales International Airport (SAP), San Pedro Sula, Honduras

- Noise Contour Update

Roanoke Regional Airport (ROA), VA

- Part 150 Study

San Jose International Airport (SJO), Costa Rica

- Environmental Assessment

Suvarnabhumi International Airport (BKK), Bangkok, Thailand

- Design and Implementation of Permanent Noise Monitoring System
- Noise Office Support

Syracuse-Hancock

- International Airport (SYR), NY
- Environmental Assessment
- Noise Barrier Design

Toncontín International Airport (TGU), Tegucigalpa, Honduras

- Noise Contour Update

United Nations Development Program/International Civil Aviation Organization

- Instruct Brazilian government staff in the military-controlled Civil Aviation Department (now civilian-controlled National Civil Aviation Agency) about aviation noise

Wittman Regional Airport (OSH), Oshkosh, WI

- Part 150 Study



Education

Bachelor of Science, Civil Engineering,
University of California at Irvine

Master of Science, Mechanical Engineering,
University of California at Irvine

Professional Registration

Registered Professional Engineer in the State of California
(Mechanical #18786)

Acoustical Society of America

Society of Automotive Engineers A-21 Subcommittee (Co-chair)

Overview

Mr. Mestre has over 35 years' experience in noise control and acoustical engineering. Included in this experience are project management, program analysis, client coordination, and extensive computer modeling of environmental impacts for use in noise and acoustical analyses. He was project manager for the noise demonstration testing program at John Wayne Airport in Orange County to evaluate departure procedures to meet the new safety standards at John Wayne Airport. This cooperative effort between the airlines, community, pilots, and the FAA has national implications on noise departure procedures. Mr. Mestre completed the synthesis report for the Airport Cooperative Research Program of the National Academies entitled *Effects of Aircraft Noise: Research Update on Selected Topics* and also completed research studies for the Volpe DOT Research Center on updating the dose response relation between noise and the percent of population highly annoyed ('updates Schultz curve'). Mr. Mestre is the Co-chair of SAE A-21 Committee on aircraft noise and emissions which is responsible for standards on aircraft noise modeling and measurement.

**Part 150/Noise
Abatement Planning**

Mr. Mestre has completed noise studies as part of Environmental Analyses (EA), Environmental Impact Statements (EIS), Environmental Impact Reports (EIR), and Federal Air Regulation Part 150 Noise Compatibility Studies at more than two-dozen airports across the United States. Included in these are aircraft ground run-up studies at Vancouver International Airport, Santa Monica Municipal Airport, and the C-17 facilities at Long Beach. Mr. Mestre has provided consulting services to the government of Taiwan on the development of a national noise policy, and to the privatized Spanish airports authority (AENA) on the development of corporate wide noise policies. Mr. Mestre is responsible for the design and specification of noise monitoring systems in Bangkok, Honolulu, Seattle, Santa Monica, Albuquerque, and John Wayne Airports. He has done environmental noise work in New Zealand, Canada, Taiwan and Europe.

Community Noise Assessments

Vince Mestre has been responsible for the preparation of the Noise Elements of the General Plan for the Cities of Santa Monica, Culver City, Laguna Beach, Newport Beach, and Irvine. Policy components included the development of goals, policies, and implementation programs for both the development of noise control programs and updates of the noise ordinance. Sources of noise within these communities that were measured and modeled included freeways, arterial roadways, railroads, civilian and military airports, helicopter operations, industrial and commercial centers and recreational activities.

*Representative Projects***Oakland Airport Community Noise Management Forum**

- Current participant for the Oakland International Airport Noise Environmental Management Office
- Forum to address community concerns
- Forum consists of representatives of airport staff, airlines, FAA, and local communities

Honolulu International Airport

- Noise assessment for Airport Master Plan
- Phase II Noise Compatibility Program Update

City of San Leandro

- Noise analysis/sound insulation program for the City
- Homes eligible for Oakland Airport's Sound Insulation Program.

Colorado Springs Airport

- Two Season Noise Monitoring Program
- Compliance determination with limits imposed on aircraft

San Francisco International Airport

- Noise analysis for runway alternatives
- Evaluated effects of alternative airfield layouts on aircraft altitude profiles and community noise exposure
- Evaluated noise abatement departure procedures for key aircraft

El Toro Airport System Master Plan

- Conducted noise assessment for the conversion of the military air station to civilian use.
- Addressed all NEPA and CEQA components required for noise
- Public presentations and workshops
- Assessed multiple aviation and non-aviation alternatives

Noise Research Studies For DOT Volpe Research Center

- Conducted updated studies on the dose response relationship between DNL and population highly annoyed (updated Schultz Curve) in 2011.
- Provided research report on alternative and supplemental metrics as part of research into adequacy of DNL as and airport planning metric.

Long Beach Municipal Airport

- Noise Budget Calculations and Noise Budget Reports for years 2003 through 2011
- Noise monitoring system upgrade specifications

Hilo International Airport

- Noise mitigation at Keaukaha Subdivision Project
- Homes eligible to participate in the Airport's Sound Insulation Program
- FAR Part 150 NEM Update

San Antonio International Airport

- Principal-in-Charge of the noise assessment for the runway reconstruction and lengthening
- Noise measurement survey
- Computer modeling and assessment of various noise mitigation strategies

New Orleans International Airport

- Noise analysis for FAR Part 150 Noise Exposure and Land Use Compatibility Study
- Noise measurement survey
- Computer modeling and assessment of various noise mitigation strategies

Seattle Tacoma International Airport

- Noise Monitoring System Enhancement Plan
- Developed plan for the enhancement of the noise monitoring system at Seattle-Tacoma International Airport to meet present and future needs
- FAR part 150 Noise/Land Use Compatibility Study 2011

Southern California Association of Governments (SCAG)

- Noise assessment for the Alternative Airport Site Selection Study
- Evaluated alternative sites for new 20 million passenger regional airport
- Generate noise contours and land use impact comparisons for alternative sites
- Determined noise impacts at existing airports if new regional facility was not constructed

Publications

A first-principles model for estimating the prevalence of annoyance with aircraft noise exposure, Sanford Fidell, Vincent Mestre, Paul Schomer, Bernard Berry, Truls Gjestland, Michel Vallet, Timothy Reid, Journal of the Acoustical Society of America, J. 130 (2), August 2011.

Role of a community tolerance value in predictions of the prevalence of annoyance due to road and rail noise, Sanford Fidell, Vincent Mestre, Paul Schomer, Bernard Berry, Truls Gjestland, Michel Vallet, Timothy Reid, Journal of the Acoustical Society of America, 131 (4), April 2012.

A new method for predicting the annoyance of transportation noise, Sanford Fidell, Vincent Mestre, Paul Schomer, Noise News International, December 2011

A potential role for noise complaints as a predictor of the prevalence of annoyance with aircraft noise, Sanford Fidell, Vincent Mestre, and Matthew Sneddon, Noise Control Eng. J. (accepted for publication, March 2012)

RNAV Departure Procedures Produce Unexpected Results At John Wayne Airport: Implications For Noise Modeling, Vincent E. Mestre, Invited Paper, InterNoise 2011, Osaka, Japan, September 2011.

Some implications of identifying community-specific tolerance for transportation noise exposure, Vincent E. Mestre, Invited Paper, InterNoise 2011, Osaka, Japan, September 2011.

Comparison of potential day/night average sound level (DNL) replacement metrics, Vincent E. Mestre, Invited Paper, InterNoise 2011, Osaka, Japan, September 2011.

A novel approach to predicting the prevalence of annoyance due to transportation noise, Truls Gjestland, Sanford Fidell Vincent Mestre, and Paul Schomer, Invited Paper, InterNoise 2011, Osaka, Japan, September 2011.

Effects of Aircraft Noise: Research Update on Selected Topics, ACRP Synthesis 9, Transportation Research Board of the National Academies, 2008.

Airport Noise Computational Models - Using Aircraft Trajectory Data to Assess Approach Profiles Including New Generation Continuous Descent Approach, Vincent Mestre, John Gulding, John-Paul Clarke, Eric Dinges, Internoise 2005.

Determining the Effects of Alternative Departure Cutback Altitudes and Power Settings: A Case Study, John Wayne Airport, 1994 National Conference on Noise Control Engineering, May 1994

John Wayne Airport: An Example of Noise Control, The Methods and The Results, 1989 International Conference on Noise Control Engineering, December 1989

Santa Monica Airport Noise Control Program - A New Concept in Airport Noise Ordinances, 1984 International Conference on Noise Control Engineering, 1984.

Comparison of Noise Measurements Along Arterial Roadways With the FHWA Highway Traffic Noise Prediction Model, 1982 National Conference Environmental and Occupational Noise Proceedings, September 1982.

Publications

A Monitoring System for Long Term Aircraft Noise Measurements, Sound and Vibration, February 1982.

Handbook of Environmental Impact Analysis, co-authored Noise Chapter with D.C. Wooten, McGraw-Hill, 1980.

Anechoic Chamber for Transportation Noise Research, with D.C. Wooten, University of California, Irvine, June 1977.

The California General Plan Noise Elements, with D.C Wooten, Inter-Noise 74 Proceedings, Washington, D.C., October 1974.

Education

Master of Community Planning – University of Cincinnati
Bachelor of Arts, Geography and Political Science – West Virginia University
AICP – American Institute of Certified Planners, Certification No. 098973

Overview

Ms. Kleymeyer has over 30 years of airport and land use planning experience that includes proposal development, project management, technical analyses/review, and the development and execution of public outreach and participation programs under the National Environmental Policy Act (NEPA), Part 150 Noise Compatibility, and airport/community land use studies. As a Managing Director, she is a strategic/technical resource for L&B's environmental projects and land use studies and serves as a mentor for the firm's professional and administrative staff.

Her client base includes the Airports Division at FAA Headquarters in Washington, the Southern and Great Lakes Regional offices, and the Airports District Offices in Orlando, Memphis, Detroit, Chicago, and Atlanta. Her long-standing airport clients include Charlotte Douglas-CLT, Chicago Rockford-RFD, Cincinnati/Northern Kentucky-CVG, Fort Lauderdale-Hollywood-FLL, Lambert—St. Louis International Airport-STL, Miami-MIA, and Pago Pago (American Samoa)-PPG.

**Large Hub
Environmental Projects****and****Project Management**

As the Project Manager for the FAA EIS at FLL, Ms. Kleymeyer led a consultant team through all technical analyses, agency coordination, and public outreach for the expansion of Runway 9R/27L from 5,300 feet to 8,000 feet. The runway was extended to the east on a 60-foot-high man-made embankment bridging over U.S. 1 and the Florida East Coast Railway. The environmental analyses identified significant impacts for noise, compatible land use, and wetlands; the mitigation requirements were outlined in the FAA Record of Decision. A dynamic outreach program was implemented for public and Federal, state, and local agency participation under Vision 100 streamlining (*Vision 100 Century of Aviation Reauthorization Act* Public Law 108-176, 12/12/2003).

At CVG, Ms. Kleymeyer was the Project Manager for the FAA EIS for the third north-south parallel runway and crosswind runway extension and a Part 150 Study, which was conducted concurrently with the EIS. The Part 150 analyses addressed noise abatement actions and land use management programs designed to mitigate the noise impacts from the operations on the new runway and extended runway and continuing the airport's successful public outreach activities.

Ms. Kleymeyer managed the consultant team for the Part 150 Study Update at STL to address the shrinking noise contour, a result of reduced aircraft operations. A dynamic public outreach program consisted of small group meetings with city councils, planning organizations, and interested citizens allowing for the exchange of information and productive question and answer sessions. The primary focus of the study was the effect of a shrinking contour on the implementation of the airport's sound insulation mitigation program and potential land use and economic development issues associated with the airport Master Plan Update.

Ms. Kleymeyer also contributed to the land use inventory and analyses for the *Airport Property Land Use & Development Strategy* for Indianapolis Airport Authority and managed the outreach activities with local and regional planners. This Study provided a broad regional assessment for development and/or redevelopment of available Airport Authority land over a 30-year time horizon.

Land Use Compatibility

Ms. Kleymeyer participated on the five-member FAA Southern Region Land Use Compatibility Task Force to develop a land use control and planning guide for airports and communities and the planning and development of the FAA's revised Advisory Circular 150-5050.4 on *Citizen Participation in Airport Planning*.

**Professional
Contributions**

Other professional contributions include Chair and Vice Chair of the ACC Environmental Committee, the ACC NEPA Training Workshop and the American Planning Association Transportation Division Airport Committee. She is a guest-lecturer on airport environmental and land use issues at Cincinnati-area universities and participates as a speaker and panelist at professional conferences.

She was elected to serve three terms on her local city council representing the constituents of Edgewood, Kentucky. She is also active with the Northern Kentucky Area Planning Council. Ms. Kleymeyer has been with L&B since 1994.



Representative Projects

Charlotte Douglas International Airport

- Environmental Impact Statement New Runway and Runway Extension
- 14 CFR Part 150 Study Update
- Master Plan Update
- Written Re-Evaluation of the Environmental Impact Statement for the New Runway and Runway Extension

Chicago O'Hare International Airport

- 14 CFR Part 150 Public Hearing/Workshop
- World Gateway Program Hearing/Workshop

Chicago Rockford International Airport

- 14 CFR Part 150 Study Update (2004)
- 14 CFR Part 150 Study Update (2009)
- 14 CFR Part 150 Noise Exposure Map Update (2013)

Cincinnati/Northern Kentucky International Airport

- Master Plan Update (1996)
- Environmental Impact Statement for the Runway 9/27 Extension
- Environmental Impact Statement for a New Third Parallel Runway and Extension to Runway 9/27
- 14 CFR Part 150 Study Update (2000)
- Environmental Assessments:
 - o Aircraft Fire and Rescue Facility
 - o On-Airport Extension to Loomis Road
 - o 14 CFR Part 150 Air Traffic Actions
- Environmental Reviews for a CATEX Determination:
 - o Parking Expansion and Realignment
 - o Glycol Pretreatment and Storage Facility
 - o Employee Parking Lot Expansion and Relocation of Employee Parking
- Master Plan Update (2004)
- 14 CFR Part 150 Study Update (2007)

Dayton International Airport

- Implementation of Tower Order
- Master Plan Strategic Planning and Public Coordination
- Environmental Reviews for a CATEX Determination:
 - o New Five-Level Parking Structure, Expansion of Long-Term Economy Parking Lot, Realignment of Terminal Drive, and Relocation of Rental Car Maintenance and Storage Facilities
 - o Terminal Gate Redevelopment
 - o Acquisition of Amateur Trapshooting Association and General Motors/Delphi Automotive Systems Properties
 - o Construction of Southern On-Airport Perimeter Road
 - o Modification of Runway 36 Runway Safety Area

Airport Consultants Council (ACC)

- NEPA Training Workshop – Chair, 2004
- Environmental Committee, Vice Chair, 2004-05
- Environmental Committee, Chair, 2005-06
- Environmental Committee, Participating Member

Edgewood City Council (Kentucky): elected to three consecutive terms (1992, 1995, and 1998)

Dayton International Airport (cont'd)

- Environmental Assessment: Replacement Air Traffic Control Tower

Fort Lauderdale-Hollywood International Airport

- Environmental Impact Statement for the Expansion of Runway 9R/27L
- FAA Air Traffic Environmental Assessment for Runway 13/31

Indianapolis International Airport

- Airport Property Land Use and Development Strategy

Lambert—St. Louis International Airport

- 14 CFR Part 150 Study Update
- Master Plan Update
- On-Call Environmental Analysis

Maryland Aviation Administration

- On-Call Environmental

Miami International Airport

- Environmental Assessment: Airport City at MIA

New Orleans International Airport

- Land Use Compatibility/Development Study (Noise Land Inventory and Reuse Plan)

Pago Pago International Airport

- 14 CFR Part 150 Study

Phoenix Goodyear Airport

- Environmental Assessment: New Full-Length Parallel Taxiway and North Landside Corporate Development Area

Pittsburgh International Airport

- 14 CFR Part 150 Study Update
- Environmental Assessment

Greater Rochester International Airport

- Master Plan Update: Airport Collateral Land Development Alternatives

Rickenbacker International Airport

- 14 CFR Part 150 Study Update
- Environmental Assessment: Air Traffic

Seattle-Tacoma International Airport

- 14 CFR Part 150 Study Update

West Virginia Regional Airport

- Environmental Impact Statement for the Development of the West Virginia Regional Airport (FAA stopped EIS after Finding of Insufficient Purpose and Need)

FAA Headquarters - Airport Compatibility Planning Committee

FAA Southern Region Land Use Compatibility Task Force – 1999 & 2012

American Planning Association (APA)

- Transportation Division, Airport Committee

Professional Contributions



Education

Bachelor of Science, Aviation Science, San Jose State University
Master of Arts, Geographic Information Science, San Jose State University
Master of Business Administration, California State University Fullerton
Fluent in Spanish

Overview

Mr. Valdes has over 13 years of experience in civil airport noise management and airport noise assessments. These assignments have included the management of airport sound insulation programs, strategic planning during airport projects to minimize noise impacts on nearby communities, the management of airport noise monitoring systems, the coordination of aviation projects in cooperation with airport staff, FAA, TSA, airport tenants, consultants and contracts. His current assignments include project management, airport operational data analysis, noise event analysis and the preparation of airport noise contours, computer model validation. This also includes the measurement of impacted land use and population as part of annoyance, speech interference and sleep disturbance analysis.

**Noise Assessments
Environmental Impact
Reports**

Mr. Valdes has prepared noise assessments as part of Airport Master Plans, FAR Part 150 Studies, Environmental Impact Reports (EIR), Environmental Impact Statements (EIS), Quarterly Airport Noise Exposure Maps and single-event and flight procedure noise studies, which include aircraft fleet mix identification, air traffic routing analysis, on-site noise measurements, Integrated Noise Model (INM) modeling, and GIS analysis.

Additionally, Mr. Valdes has conducted aircraft noise event measurement analysis as part of residential sound attenuation programs and residential development planning. These assignments included pre and post construction testing and aircraft overflight identification and noise measurement.

**Noise and Operations
Monitoring Systems**

Mr. Valdes has considerable experience in airport Noise and Operations Monitoring Systems (NOMS). He has developed noise abatement procedure compliance reports, maintained system equipment and data integrity, and managed system enhancements and upgrades. Mr. Valdes was the Project Manager during Oakland Airport's upgrade from the ANOMS 6 to ANOMS 8 platform and worked with the system vendor to resolve numerous data transfer, data accuracy, and system functionality and acceptance. He recently worked on the Long Beach Airport system upgrade and is currently working on system upgrades for John Wayne Airport and system installation at Bangkok International Airport. In addition to his knowledge of NOMS databases, he has optimized system noise-to-flight track correlation parameters and has used geocoded complaint addresses to produced noise complaint maps.

Mr. Valdes combines his knowledge of noise modeling, flight data, and geographic statistical data with his experience and education to produce comprehensive analysis and maps.

<p>Representative Projects</p>	<p>Airports Authority of Thailand (AOT)</p> <ul style="list-style-type: none"> - Noise Monitoring System procurement, installation, and training - Noise Office development and implementation - Flight procedure monitoring and reporting 	<p>John Wayne Airport</p> <ul style="list-style-type: none"> - Quarterly and Annual noise exposure maps - Computer modeling and assessment of RNAV procedures - Noise Monitoring System Upgrade - Land Use and Population analysis
	<p>Boca Raton Airport</p> <ul style="list-style-type: none"> - Noise analysis for FAR Part 150 Study Update - Noise exposure maps of various noise abatement procedure flight tracks 	<p>Kodiak Airport</p> <ul style="list-style-type: none"> - Noise analysis for EIS - Noise exposure maps for numerous project alternatives - Noise modeling of sensitive noise receptors
	<p>Charles M. Schulz - Sonoma County Airport</p> <ul style="list-style-type: none"> - Noise Assessments for Master Plan Update EA & EIR - Single Event Analysis 	<p>Long Beach Municipal Airport</p> <ul style="list-style-type: none"> - Noise Budget Calculations and Noise Budget Reports for years 2003 through 2008 - Noise monitoring system upgrade and acceptance testing - Noise Complaint Mapping
	<p>City of San Leandro</p> <ul style="list-style-type: none"> - Noise analysis on sound insulation program for the City - Pre and Post construction noise measurements 	<p>Oakland Airport Community Noise Management Forum</p> <ul style="list-style-type: none"> - Special noise studies on noise abatement procedure performance - Forum consists of representatives of airport staff, airlines, FAA, and local communities - Noise Complaint Mapping
	<p>Hilo International Airport</p> <ul style="list-style-type: none"> - Noise mitigation at Keaukaha Subdivision Project - Pre and Post construction noise measurements 	<p>Seattle Tacoma International Airport</p> <ul style="list-style-type: none"> - Noise Monitoring System Enhancement Plan - Optimization of noise monitor settings - FAR Part 150 Update - Noise Complaint Mapping
	<p>Honolulu International Airport</p> <ul style="list-style-type: none"> - Noise assessment for Airport Master Plan - FAR Part 150, Phase II Noise Compatibility Program Update 	<p>Williams Gateway Airport</p> <ul style="list-style-type: none"> - Noise modeling of aircraft operations over prospective residential development - On-site noise measurements and flight correlation - Strategic planning for residential development approval
	<p>Phoenix Sky Harbor NEM Update</p> <ul style="list-style-type: none"> - Noise modeling for current and future year conditions - Temporary Noise Measurement Program - Community Outreach 	

Diane Bryant Carter Principal

Northeast Missouri State University, 1985-1988

Florida State University, 1984-1985

Diane Bryant Carter joined Jones Payne in 2011 as a Principal. Ms. Carter has over 20 years' experience specializing in airport noise and environmental issues and mitigation planning and program implementation. Her experience at both air carrier and general aviation airports provides a broad range of expertise conducting specialized studies including Part 150 and implementation of recommended programs.

Ms. Carter focuses on the assisting airport noise offices with the development and implementation of their noise programs. She has extensive experience in the design, installation, and implementation of noise and flight tracking systems, and developing community and pilot relations programs. Additionally, she brings extensive experience in fostering communication with community groups and public agencies to develop an understanding of airport projects. She has extensive experience in the development and implementation of large-scale noise mitigation programs such as sound insulation of residential and public structures and voluntary land acquisition.

Currently, Ms. Carter is serving as the Program Director for the Fort Lauderdale-Hollywood International Airport Noise Mitigation Program. In this role, Ms. Carter provides support to the Broward County Aviation Department (BCAD) in the development and implementation of their sound insulation and sales assistance programs. She has also provided on-call acoustical support to the BCAD Noise Control Office by providing assistance in optimizing the noise and flight tracking system for FLL. This optimization resulted in significantly increased agreement between measured and modeled noise levels at the county's permanent noise monitors. Ms. Carter also assisted staff in the development of specialized noise monitoring reports for dissemination to local county officials and residents.

Ms. Carter served as the technical support manager for the ANOMS flight tracking software. In this role, she was responsible for the oversight of 25 airport clients ANOMS systems including providing daily support, development of specialized reports, staff training and software maintenance and optimization.

As a former airport noise officer, Ms. Carter brings the first hand experiences of the issues faced by airport noise staff. Her responsibilities in this role have included facilitation of community noise committee meetings, technical support of the airport's noise monitoring systems, development of a comprehensive community and pilot education program, interaction with local, state and federal officials and agencies, grant writing and reports and, community outreach.



Relevant Projects

Noise Office & NOMS Programs

- Palm Beach Int'l Airport
- Fort Lauderdale-Hollywood Int'l Airport
- Baltimore-Washington Int'l Airport
- Boca Raton Airport
- T. F. Green Airport
- Chicago-O'hare Int'l Airport
- Bangkok Int'l Airport
- ANOMS Technical Support Manager

Noise Mitigation Programs

- Palm Beach Int'l Airport
- Fort Lauderdale-Hollywood International Airport
- T. F. Green Airport
- Boca Raton Airport
- St. Lucie County Airport
- London Heathrow Airport
- London Gatwick Airport
- London Stansted Airport
- Harrisburg Int'l Airport

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