

THIS AGREEMENT, made and entered into this 17th day of August, 2010, is by and between the City of Fort Lauderdale, a Florida municipality, ("City"), whose address is 100 North Andrews Avenue, Fort Lauderdale, FL 33301-1016, and Harris Miller Miller & Hanson, Inc., a Massachusetts corporation authorized to transact business in the State of Florida, ("Contractor"), whose address and phone are 77 South Bedford Street, Burlington, MA 01803, Phone: 781-229-0707, Fax: 781-229-7939.

WHEREAS, the City issued Request for Proposal 605-10450 ("RFP"), and the Contractor submitted a proposal in response to the RFP; and

WHEREAS, on August 17, 2010, the City Commission of the City of Fort Lauderdale approved an agreement with Contractor for the goods or services described in the RFP (Pur-01, CAR No. 10-0914);

NOW, THEREFORE, for and in consideration of the mutual promises and covenants set forth herein and other good and valuable consideration, the City and the Contractor covenant and agree as follows:

1. The Contractor agrees to provide to the City airport noise abatement consultant services in accordance with and in strict compliance with the specifications, terms, conditions, and requirements set forth in the RFP and any and all addenda thereto beginning August 17, 2010 and ending August 16, 2013.

2. This contract form G-110 Rev. 01/10, the RFP, any and all addenda to the RFP, and the Contractor's proposal in response to the RFP are integral parts of this Contract, and are incorporated herein.

3. In the event of conflict between or among the contract documents, the order of priority shall be as follows:

- First, this contract form, G-110 Rev. 01/10;
- Second, any and all addenda to the City's RFP in reverse chronological order;
- Third, the RFP;
- Fourth, the Contractor's response to any addendum requiring a response;
- Fifth, the Contractor's response to the RFP.

4. The Company warrants that the goods and services supplied to the City pursuant to this Contract shall at all times fully conform to the specifications set forth in the RFP and be of the highest quality. In the event the City, in the City's sole discretion, determines that any product or service supplied pursuant to this Contract is defective or does not conform to the specifications set forth in the RFP the City reserves the right unilaterally to cancel an order or cancel this Contract upon written notice to the Contractor, and reduce commensurately any amount of money due the Contractor.

5. The City may cancel this Contract upon written notice to the Contractor in the event the Contractor fails to furnish the goods or perform the services as described in the RFP within 30 days following written notice to the Contractor.

6. The Contractor shall not present any invoice to the City that includes sales tax (85-8012514506C-7) or federal excise tax (59-6000319).

7. Contractor shall direct all invoices in duplicate for payment to Finance Department, City of Fort Lauderdale, 100 N. Andrews Avenue, 6th Floor, Fort Lauderdale, FL 33301. Any applicable discount MUST appear on the invoice.

8. Paragraph 5.08 of Part V of the City of Fort Lauderdale General Conditions is amended to provide as follows:

INDEMNITY/HOLD HARMLESS AGREEMENT: The Contractor agrees to protect, defend, indemnify, and hold harmless the City of Fort Lauderdale and its officers, employees and agents from and against any and all losses, penalties, damages, settlements, claims, cost, charges for other expenses, or liabilities including reasonable attorneys fees, arising directly out of the work agreed to or performed by Contractor under the terms of any agreement that may arise due to the bidding process. Without limiting the foregoing, any and all such claims, suits, or other actions relating to personal injury, death, damage to property, defects in materials or workmanship, actual or alleged violations of any applicable Statute, ordinance, administrative order, rule or regulation, or decree of any court shall be included in the indemnity hereunder.

IN WITNESS WHEREOF, the City and the Contractor execute this Contract as follows:

CITY OF FORT LAUDERDALE
By: [Signature]
Director of Procurement Services

Approved as to form:
[Signature]
Senior Assistant City Attorney

ATTEST:
By: [Signature]
Print Name: Linda Fitch
Vice President/Treasurer &
Secretary

CONTRACTOR
By: [Signature]
Print Name: Mary Ellen Eagan
President

(If not president of corporation please attach proof of authorization)

(Corporate Seal)

STATE OF Massachusetts
COUNTY OF Middlesex

The foregoing instrument was acknowledged before me this 4th day of October, 2010, by Mary Ellen Eagan as (title): President for Harris Miller Miller & Hanson, Inc., a Massachusetts

corporation authorized to transact business in the state of Florida.

(SEAL)

Margo Y. Olson
Notary Public, State of Massachusetts
(Signature of Notary Public)

(Print, Type, or Stamp Commissioned Name of
Notary Public)

Personally Known OR Produced Identification _____
Type of Identification Produced _____



MARGO Y. OLSON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
March 10, 2011

11/11/11
The above report

HARRIS MILLER MILLER & HANSON INC.

77 South Bedford Street
Burlington, MA 01803
T 781.229.0707
F 781.229.7939
www.hmmh.com

CONTRACT
COPY

April 19, 2010

City of Fort Lauderdale
Procurement Services Department
100 N. Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

Attention: Rick Andrews, Procurement Specialist

Subject: Proposal to Provide Airport Noise Abatement Consultant Services

Reference: HMMH Proposal No. P09-20081

Greetings:

Harris Miller Miller & Hanson (HMMH) is pleased to submit this proposal to provide airport noise abatement consultant services for the Fort Lauderdale Executive Airport (FXE). Our submittal includes one (1) original and six (6) copies of our proposal.

HMMH has provided the City of Fort Lauderdale with noise consultant services for FXE since 1984. We are proud to have assisted the City to establish and implement a comprehensive and highly successful noise program, including noise abatement, compatible land use, and continuing program measures. Our assistance has included the following major assignments:

- Noise elements of original 1986 Part 150 Study
- Noise elements of the 1986 Master Plan Update
- Noise elements of the 1996 Part 150 and Master Plan Updates
- Noise elements of the 2002 Part 150 and Master Plan Updates
- 2005 noise contour update and use restriction analysis
- Assistance with implementation of the original noise and operations monitoring system (1991)
- ANOMST™ upgrade and support services and "Y2K" transition (1995-2001)
- Noise analyses for the Environmental Assessment (EA) for initial establishment of the "I-95 turn" noise abatement departure flight track (1993-4)
- Overall responsibility for the EA for extending the hours of the I-95 turn and establishing a Standard Instrument Departure (2009-10)
- Comprehensive review of the noise program implementation, and recommendation of improved communication, monitoring, and reporting mechanisms (2008-9)
- Assistance related to review, assessments, and recommendations related to potential developments or changes in land use controls in the FXE environs
- Assistance in preparing and conducting a broad range of noise program related presentations
- Other diverse assistance related to noise program development, monitoring, enhancement, implementation, and communication, on an on-call, task-specific basis

Our 26 years of direct experience provide us with an understanding of the City's needs and objectives that no other consultant can possibly provide.

To augment HMMH's experience and capabilities, our proposal includes four subconsultants with directly relevant experience in key technical areas. HMMH has prior and ongoing relationships with these firms on a broad range of airport noise consulting assignments, in the same roles that we anticipate they will perform under this consulting agreement. The firms' capabilities complement each other, to ensure comprehensive coverage. They also overlap in some areas; we will work with the City in scoping each assignment, to ensure roles are distributed among firms in a manner that maximizes cost- and time-efficiency, and the technical excellence of the services delivered.

Air Traffic Experts (ATE) will provide assistance related to air traffic control assessments. ATE is providing this same assistance to HMMH for the ongoing EA for extending the hours of the I-95 turn. HMMH has a long-term working relationship with Mr. Bobby Price, one of the ATE principals, in his prior career in FAA air traffic control tower management at other south Florida airports.

Hanson Professional Services (Hanson) will provide assistance related to local noise measurements, airport planning, noise abatement procedure identification, and assessment; ANOMS upgrade recommendations, acceptance testing, and operation; and stakeholder communication. HMMH is currently collaborating with Hanson on essentially this same mix of services for Witham Field / Martin County Airport. We have a long-term relationship with Ms. Lisa Waters, who will lead Hanson's assistance, as well as with several other members of the firm's staff, through prior collaborations at other airports throughout the U.S.

Montgomery Consulting Group (MCG) will primarily provide assistance related to land use data collection, geographic information system (GIS) database development, public outreach coordination, and monitoring system assessment and operations. MCG currently is assisting HMMH with these same roles at Fort Lauderdale – Hollywood International Airport and Naples Municipal Airport. MCG is certified in Florida and Broward County as a Woman-Owned Business Enterprise (WBE).

Simat, Heliessen & Eichner (SH&E), an ICF International Company, will prepare assistance related to activity forecasts and fleet mixes required for noise analyses, financial analyses, and identification of industry developments that might affect future operations and noise exposure. HMMH and SH&E have a long-term working relationship. SH&E currently is assisting HMMH with these same roles at Naples Municipal Airport and Van Nuys (CA) Airport, and the firms have worked together on numerous similar assignments at Boston-Logan International, Hanscom Field (Bedford, MA), Los Angeles International, and Westchester County Airport (White Plains, NY).

Understanding of Services to Be Provided

We are pleased to share with the City pride in the FXE noise program's success and industry recognition. However, we also share with the City the recognition that a successful airport noise program is a *continuing process* that requires ongoing attention to maintain its effectiveness.

We understand the services to be provided relate to supporting that continuing process, including implementation, monitoring, evaluation, enhancement, extension, and communication of the noise program, to ensure it maintains its high standards of creativity, comprehensiveness, and effectiveness. This assistance requires a broad range of services in the following major areas, which the HMMH team will provide in a responsive, efficient, complete, and professionally excellent manner:

- Noise modeling, analysis, and reporting, including noise contour updates
- Permanent and portable noise monitoring studies
- Part 150 Noise Exposure Map and Noise Compatibility Planning Study updates
- Airport and airspace layout and operational data collection relevant to noise analyses
- Identification and assessment of aircraft and airport operational noise abatement measures
- Forecasting airport operations and fleet mixes, in a manner that is sensitive to noise-specific needs
- Land use data collection, mapping, and analysis with a focus on noise compatibility considerations
- Identification and assessment of compatible land use measures, with a particular focus on measures to prevent introduction of new, non-compatible uses
- Airport and airspace planning, airport and airspace operations, and air traffic control analyses to ensure the feasibility of proposed noise abatement measures under current airport, airspace, and air traffic control conditions, and the continued feasibility of existing and proposed measures under potentially changed conditions
- Financial analyses related to noise abatement, compatible land use, and ongoing program measures, to ensure that existing measures, enhancements, and potential new measures are justified from a benefit-cost perspective
- Noise and operations monitoring system design, specification, operation, use, and performance assessment, to maximize the permanent monitoring system's value and accuracy

- Reviews, assessments, and recommendations related to potential developments or changes in land use controls in the FXE environs
- Preparing and conducting noise program related presentations to all potential stakeholders, including, but not limited to: the Airport Advisory Board, City Commission, homeowners associations, neighborhood organizations, other municipalities, Broward County officials, airport tenants, pilots, aviation industry groups, business interests, etc.
- Noise analyses required to support and assess airport planning and layout projects
- Other diverse assistance related to noise program development, monitoring, enhancement, implementation, and communication, on an on-call, task-specific basis

Commitment to Perform According to the Requirements of the RFP

As an HMMH Senior Vice President, I am authorized to represent the firm. With my signature below, I attest to the firm's positive commitment to perform according to the RFP requirements.

On a more personal level, I have been pleased to lead a majority of HMMH's airport noise consulting assistance to the City for the past 26 years and look forward to the potential opportunity to continue as the principal-in-charge for services to the City over the term of this procurement.

Please do not hesitate to contact me with any questions. We would be pleased to present our qualifications in person, should you choose to conduct interviews.

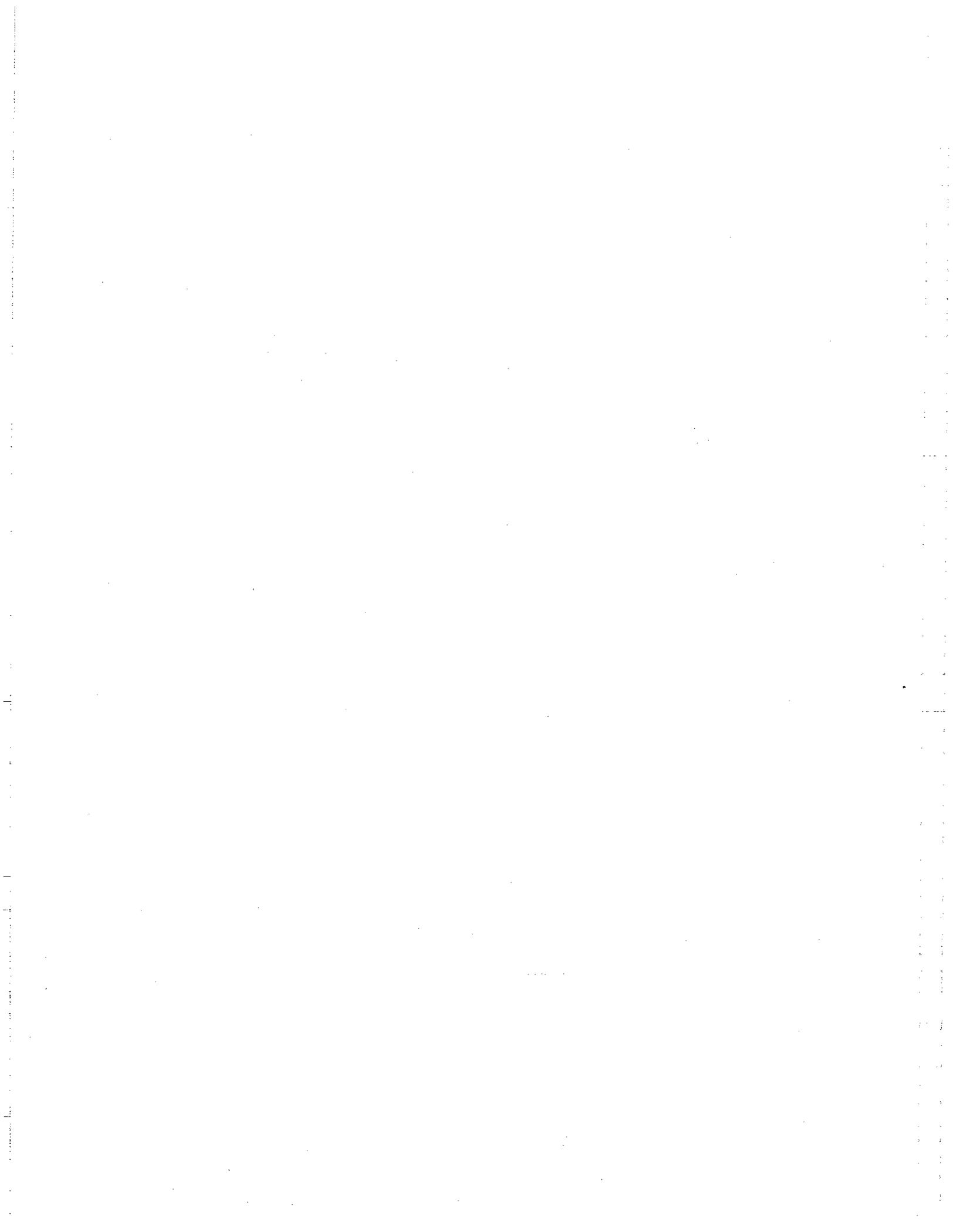
Sincerely,

HARRIS MILLER MILLER & HANSON INC.



Ted Baldwin
Senior Vice President

tbaldwin@hmmh.com



Proposal to Provide Airport Noise Abatement Consultant Services

Due Date: April 21, 2010

Submitted to:



City of Fort Lauderdale
100 N. Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

Submitted by:



HARRIS MILLER MILLER & HANSON INC.

Harris Miller Miller & Hanson Inc.

77 South Bedford Street

Burlington, MA 01803

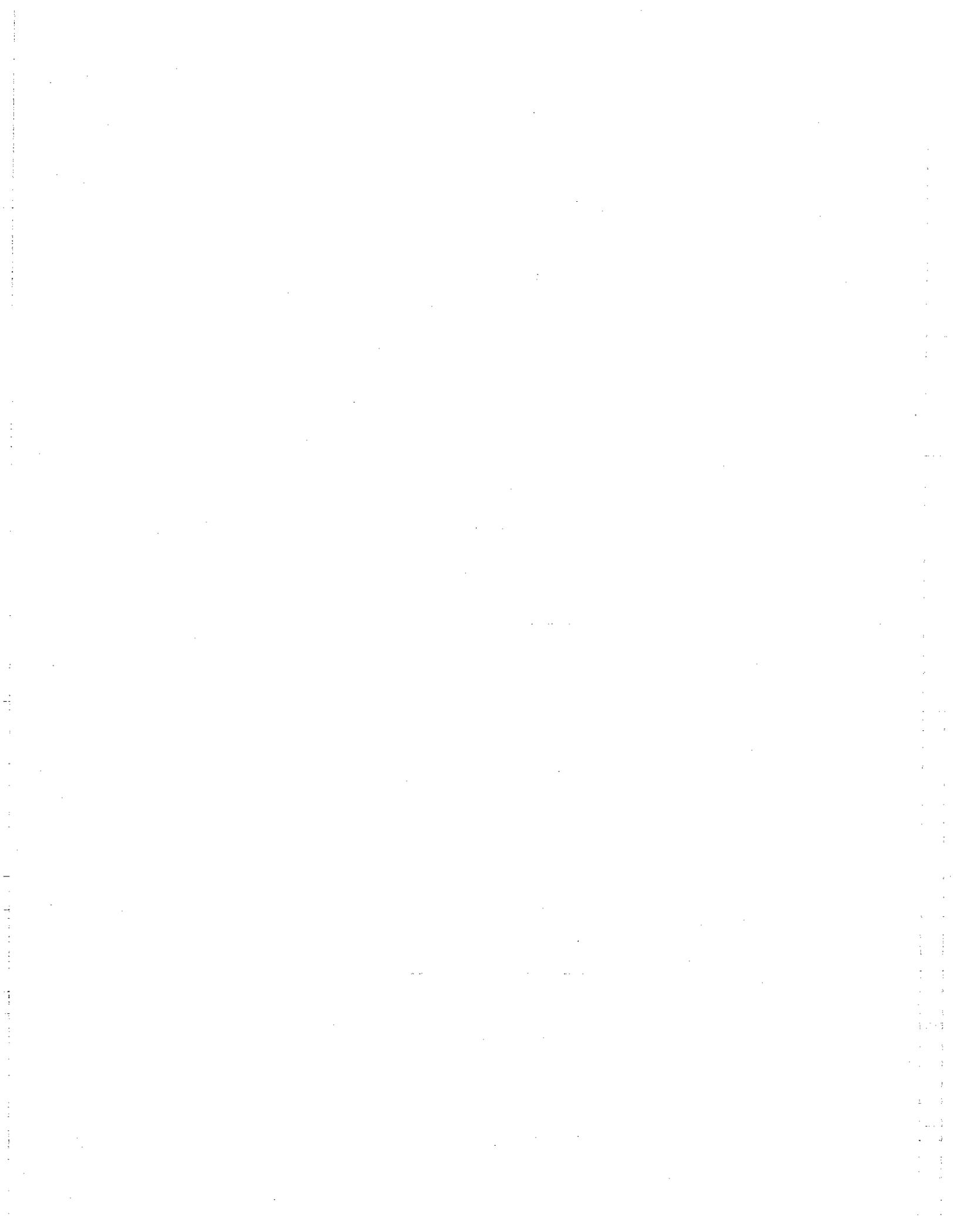
T 781.229.0707

F 781.229.7939

HMMH Proposal No. P09-20081

Contact: Ted Baldwin

tbaldwin@hmmh.com



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1 Introduction

Harris Miller Miller & Hanson Inc. (HMMH) is very pleased to submit this proposal to the City of Fort Lauderdale to provide airport noise abatement consultant services for the Fort Lauderdale Executive Airport (FXE). We have taken care to address the proposal submittal requirements defined in Part V of the Request for Proposals (RFP) in a responsive manner. The submission is indexed in the order specified in RFP §5.03. A copy of the Letter of Interest / Cover Letter (requested "Section 1") is bound into this document immediately following the cover. Sections 2 – 10 address the other submittal requirements in the order – and with the titles – specified in the RFP, with supporting materials provided in appendices, as appropriate:

- Section 2: Proposal Summary
- Section 3: Licenses, Professional Certificates, Memberships and Insurance
- Section 4: Company Profile
- Section 5: Joint Venture
- Section 6: Qualifications / Experience on Projects of Similar Scope
- Section 7: Key Project Staff Background
- Section 8: Task Area Descriptions
- Section 9: Project Work Plan
- Section 10: Hourly Billing Rates Proposal
- Section 11: Non-Collusion Statement and Bid Proposal / Signature Page

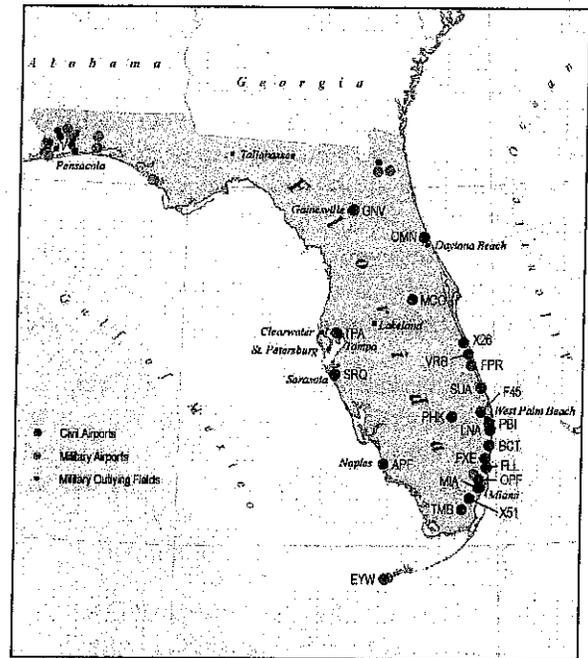
2 Proposal Summary

HMMH was formed in 1981, with the specific purpose of providing the highest possible caliber of noise consulting services to airports. In the intervening 29 years, we have worked at over 250 commercial, military, and general aviation facilities on six continents. We also have expanded into other transportation, commercial, and environmental noise sources – highway vehicles, subways, railroads, rail transit, snowmobiles, theme parks, construction, noise in National Parks, wind turbines, etc. – but aviation services are still our primary focus. HMMH also consults in several areas that complement our noise and vibration services, including: airport and airspace planning and modeling; air quality monitoring, modeling, analysis, and mitigation; and renewable energy feasibility studies, permitting, demonstration projects, and implementation support.

As such, the company specializes in all areas of noise and vibration measurement, analysis, software and hardware design, noise modeling and mitigation, sound insulation treatment, training courses, and other related services. We provide expert testimony in noise-related litigation, develop and conduct public involvement programs, assist in evaluating or meeting regulatory requirements, and sometimes develop them. We have served as the sole consultant supporting the Federal Interagency Committee on Aviation Noise (FICAN) for the last 14 years.

Because most noise problems involve the public, a cornerstone of our success is HMMH's ability to communicate difficult technical issues clearly and concisely. Accurate, objective, well-presented information reduces controversy and helps build credibility and trust.

Florida presents many unique aviation noise conditions, associated with factors such as climate effects on aircraft performance, housing types, citizen lifestyle and expectations, density of air traffic, and more. HMMH is a recognized leader in aviation noise in the state; since 1984, we have worked on several hundred projects at 44 Florida airports.



HMMH Aviation Clients in Florida

We are well known and respected by regulatory agencies. As just one example, the City of Gainesville recently retained HMMH, with Ted Baldwin as Project Manager, to assist in providing expert testimony on a controversial proposal for residential development close to Gainesville Regional. The City staff contacted the FAA's Orlando Airport District Office (ADO) for guidance on how to proceed. The ADO representatives recommended that the City hire an experienced consultant; when the City indicated they had hired Mr. Baldwin and HMMH, the ADO told them they had retained the most qualified assistance possible.

2.1 Interest in Assisting the City and Unique Qualifications

The RFP suggests using this section "to articulate why your firm is pursuing this work and how it is uniquely qualified to perform it."

The answer to both of these questions relates to HMMH's long-term involvement with, contributions to, and interest in the City's noise abatement and land use compatibility planning efforts at FXE.

The City has a long and successful history of noise abatement and compatibility planning and implementation at FXE. The City considers noise compatibility to be a continuous, high-priority process. For an airport of its size, the City devotes an unusually high level of effort to develop and implement its noise abatement and land use compatibility planning measures, monitor their effectiveness, and related communication with all stakeholders – including concerned citizens, local government officials, pilots, aircraft operators, airport businesses, etc.

HMMH has greatly enjoyed the opportunity to provide essentially continuous noise consulting support to the City since 1984. We are proud of our mutual accomplishments and are particularly interested in pursuing this work as an opportunity to continue to build on them.

We are pleased to say that the City of Fort Lauderdale was HMMH's first client in Florida. We appreciate the opportunity the City provided us to establish our reputation as a leading aviation noise consultant in the state, and particularly value our continuing role at FXE.

We take pride in our contributions to the City's innovative and effective noise program at FXE. Our prior experience assisting the City on its very successful noise efforts abatement and compatible land use efforts, and our performance on previous assignments are the strongest and most reliable basis on which the City can evaluate our qualifications for the current procurement.

The cover letter lists our major consulting assignments for the City. Clearly, our experience working with the City provides us with truly unique qualifications and experience.

Normally in proposals for airport noise consulting services, HMMH is proud to cite our experience working for the City and refers potential clients to FXE for references.

2.2 Subconsultants

Over the past 26 years, HMMH has largely provided consulting assistance to the City as a subcontractor to a general engineering aviation consultant to the airport. This is the first time that the City has sought noise-related services on a stand-alone basis. While HMMH could provide all the services identified in the RFP, this separate procurement offers us the opportunity to assemble a team that includes several other firms, to meet a number of objectives, including, but not limited to:

- Ensuring that the City has access to the highest possible caliber of assistance in the broadest possible spectrum of noise-related areas, including disciplines that might not be specifically anticipated at this time.
- Providing access to qualified firms with offices in Fort Lauderdale, Broward County, or adjacent counties, for cost efficiency and rapid response for local activities.
- Providing “depth on the bench” when circumstances require significant staff commitments in a short time frame.
- Including a highly-qualified disadvantaged (woman-owned) subconsultant.
- Providing fresh perspectives on all technical areas related to noise compatibility, balanced by HMMH's “institutional memory.”

Therefore, to augment HMMH's experience and capabilities, our proposal includes four subconsultants with relevant qualifications in key technical areas. HMMH has ongoing relationships with these firms on a broad range of airport noise consulting assignments, in the same roles we have identified for them under this consulting agreement. The firms' capabilities complement each other, to ensure comprehensive coverage. They also overlap in some areas; we will work with the City in scoping each assignment, to ensure roles are distributed among firms in a manner that maximizes cost- and time-efficiency, and the technical excellence of the services delivered.

This proposal clearly identifies these firms' anticipated roles and their relevant qualifications and experience, including their extensive prior working relationships with HMMH.

Air Traffic Experts (ATE) will provide assistance related to air traffic control assessments. ATE is providing this same assistance to HMMH for the ongoing EA for extending the hours of the I-95 turn. HMMH has a long-term working relationship with Mr. Bobby Price, one of the ATE principals, in his prior career in FAA air traffic control tower management at other south Florida airports.

Hanson Professional Services (Hanson) will provide assistance related to local noise measurements, airport planning, noise abatement procedure identification and assessment; ANOMS assessment, upgrade recommendations, upgrade monitoring, and operation, and stakeholder communication. HMMH is currently collaborating with Hanson on essentially this same mix of services for Witham Field / Martin County Airport. We have a long-standing relationship with Ms. Lisa Waters, who will lead Hanson's assistance, as well as with several other members of the firm's staff, through prior collaborations at airports throughout the U.S.

Montgomery Consulting Group (MCG) will provide assistance related to local land use data

collection, geographic information system (GIS) database development, public outreach coordination, and monitoring system assessment and operations. MCG currently is assisting HMMH with these same roles at Fort Lauderdale – Hollywood International Airport and Naples Municipal Airport. MCG is certified in Florida and Broward County as a Woman-Owned Business Enterprise (WBE).

Simat, Helliesen & Eichner (SH&E), an ICF International Company, will prepare assistance related to the development of activity forecasts and fleet mixes required for noise analyses, financial analyses, and identification of industry developments that might affect future operations and noise exposure.

SH&E currently is assisting HMMH with these same roles at Naples (FL) Municipal, Los Angeles International, and Van Nuys (CA) Airports. We have also worked together on numerous other similar assignments at Boston-Logan International, Hanscom Field (Bedford, MA), and Westchester County (White Plains) Airports.

2.3 Proposal Summary – Guide to Evaluation Criteria

Our proposal adheres to the instructions and requested order of information in the RFP. The table below addresses the City's evaluation criteria as it relates to the location of information in our proposal.

Reviewer's guide to evaluation criteria

Evaluation criteria	Relevant materials
Team and Staff Quality and Overall Experience	Cover letter and Sections 2, 3, 4, 6, and 7
Previous Experience on Projects of Similar Scope	Cover letter and Sections 2, 4, 6, and 7
Price Proposal	Section 10
Technical Approach/Resources	Cover letter and Sections 8 and 9
History of the Firm/Business References	Cover letter and Sections 4 and 6

3 Licenses, Professional Certifications, Memberships, and Insurance

HMMH encourages all employees to join and participate in activities sponsored by societies and organizations in fields related to their professions, both technical and administrative. Such participation -which we strongly encourage - provides professional growth opportunities for our staff and creates an opportunity to be part of a wider network of professionals. Our staff have served as board members or chairs of many of these organizations. HMMH also is a corporate member of various organizations through annual memberships. Listed below are professional societies with which we are affiliated.

- Acoustical Society of America (ASA)
- Airport Consultants Council (ACC)
- Airports Council International-NA (ACI-NA)
- Air and Waste Management Association (AWMA)
- Air Traffic Control Association (ATCA)
- Aircraft Owners and Pilots Association (AOPA)
- American Council of Engineering Companies (ACEC)
- American Association of Airport Executives (AAAE)
- America Railway Engineering and Maintenance (AREMA)
- American Meteorological Society (AMS)
- American Wind Energy Association (AWEA)
- American Public Transportation Association (APTA)
- American Planning Association (APA)
- American Society of Mechanical Engineers (ASME)
- American Physical Society (APS)
- AeroClub of Washington
- Association of California Airports (ACA)
- Clean Power Now
- Environmental Business Council of New England (EBC)
- Florida Airports Council (FAC)

- International Institute of Acoustics and Vibration (IIAV)
- Institute of Noise Control Engineering (INCE)
- National Contract Management Association (NCMA)
- National Air Traffic Controllers Association (NATCA)
- SAE Aerospace Committee A-21
- Sigma Gamma Epsilon (SGE)
- Society for Human Resource Management (SHRM)
- Society for Marketing Professional Services (SMPS)
- Society of Physics Students (SPS)
- Transportation Research Board (TRB)
- UC Berkeley Institute of Transportation Studies (ITS Berkeley)
- US High Speed Rail Association (USHSR)
- Women in Aviation International (WAI)
- Women's Transportation Society (WTS)

There are no professional licenses related to practice in the field of acoustics. While the RFP does not identify any requirement for engineering services or registrations under this procurement, HMMH has three registered Professional Engineers on staff (two in Florida), and one Board-certified Member of the Institute of Noise Control Engineering (INCE).

Our subconsultant firms also are members of various professional organizations and have registered Professional Engineers, pilots, and Certified Air Traffic Controllers on staff. We would be pleased to provide details upon request.

We have included certificates of insurance for all team members in Appendix A. Note: As a two-person company, ATE is not required to have workers compensation insurance.



4 Company Profile

This section includes the requested corporate information for HMMH and each subcontractor.

Name/Address	# Years in Business	Gross Revenue	# of Clients	Ownership	Project Office
Harris Miller Miller & Hanson Inc. <u>Headquarters and Project Office:</u> 77 South Bedford Street Burlington, MA 01803 T 781.229.0707 / F 781.229.7939 www.hmmh.com / tbaldwin@hmmh.com	29	\$9.2 million	Total Current: 137 Total Public Sector: 39	Privately owned. See list of owners in Appendix B.	National firm, work will primarily be conducted from headquarters office in Burlington, MA.
Air Traffic Experts, LLC <u>Headquarters and Project Office:</u> 8742 Estate Drive West Palm Beach, FL 33411 T 561.628.4381 / F 561.798.2878 specialistprice@yahoo.com	5	\$8,200	Total Current: 2 Total Public Sector: 0	Privately owned. Bobby Price, Manager and Larry Connor, Partner (same address and phone)	Regional firm, work will be conducted from offices in FL
Hanson Professional Services Inc. <u>Headquarters:</u> 1525 S. Sixth St. Springfield, IL 62703 T 217.788.2450 / F 217.788.2503 <u>Project Office:</u> 1601 Belvedere Rd, Ste 303 South West Palm Beach, FL 33406 T 561.471.9370 / F 561.471.9369 www.hanson-inc.com / LWaters@hanson-inc.com	56	\$22.4 million	Total Current: 373 Total Public Sector: 160	Privately owned by more than 300 people. See list of Board of Directors in Appendix B.	National firm, work will be conducted from offices in FL.
Montgomery Consulting Group, Inc. <u>Headquarters and Project Office:</u> 341 N. Maitland Avenue, Suite 340 Maitland, FL 32751 T 407.539.7030 F 407.539.7035 http://www.mcqi-us.com / montymcqi@aol.com	14	\$2.3 million	Total Current: 20 Total Public Sector: 19	Privately owned. Monty Gettys, President (sole owner, same address) T 407.539.7030 x15	Regional firm, work will be conducted from offices in FL.
Simat, Helliessen & Eichner, Inc. <u>Headquarters:</u> 90 Park Avenue, 37th Floor New York, NY 10016 T 212.656.9200 F 212.471.6000 <u>Project Office:</u> One Main Street, 5th Floor Cambridge, MA 02142 T 617.218.3500 F 617.218.3693 www.sh-e.com / pstumpp@sh-e.com	46	\$29.9 million	Total Current: 199 Total Public Sector: 48	100% of SH&E stock is held by a parent company: ICF International, Inc., 9300 Lee Highway, Fairfax, VA 22031 T 703-934-3000	International firm, work will be conducted from offices in Boston, MA.

Appendix B contains a list of owners or Board of Directors for HMMH and Hanson. Appendix B also contains each firm's Florida Department of State Business License and MCG's Disadvantaged Business Certificates.

4.1 Additional Information

The RFP states that this section may be used to provide "any additional information that the Proposer wishes to supply to augment its proposal (i.e. firm's technical, educational, and training accomplishments, awards and recognition)." Sections 6 and 7 of this proposal

provide extensive information on the HMMH team's corporate and staff qualifications. The breadth and depth of HMMH's experience alone over the past 29 years have resulted in the firm accumulating recognitions that are far too numerous to summarize here. Instead, we would like to highlight two very recent awards, which HMMH and Hanson shared in winning when

assisting another Florida general aviation airport client (Martin County, the owner and operator of Martin County Airport / Witham Field).

This project was the Martin County Airport / Witham Field Noise Abatement Departure Profile (NADP) Demonstration Project. The project won two awards in 2009:

- The Florida Airports Council (FAC) Noise Abatement & Community Affairs Committee 2009 "Noise Abatement Award," recognizing "an airport / aviation project that reduces the impact of operations on a neighboring community."
- The Florida Department of Transportation (FDOT) 2009 Florida Aviation Award for General Aviation Project recognizing "outstanding achievements in airport aesthetics, safety, and service."

"We are proud to receive industry recognition for our highly successful NADP demonstration project, which shows that citizens and airport users can work as a team to develop noise abatement procedures, and that our technical experts can show the procedures actually reduce noise,"

- Michael C. Moon, Airport Director, Martin County Airport / Witham Field

This project and its associated awards is just one example of the types of recognition that HMMH and its team members regularly receive in the course of serving clients. This example is particularly relevant to this procurement for at least the following reasons:

- The project is for another east coast Florida general aviation airport, with similar community, environmental, airspace, operational, fleet mix, and other noise-related characteristics.
- The project included involvement by two HMMH team members, demonstrating our prior working relationship.
- Similar to the City's approach to noise abatement at FXE, the project and its success reflected a high level of direct and

cooperative involvement by the full range of noise stakeholders; e.g., the airport owner, local fixed base operators, local pilots, citizens, etc.

- The project focused on maximizing noise abatement results through cooperative effort, which has been a consistent hallmark of the City's approach at FXE.
- The project was performed under a task-order-based consulting agreement, with a major noise-related focus.

The project is described in greater detail in Section 6.2.

5 Joint Venture

HMMH is not submitting this proposal as a joint venture.



6 Qualifications and Experience on Projects of Similar Scope

The HMMH team offers unmatched credentials related to the services that the City seeks. This section provides the materials requested in the RFP for prior projects of similar scope.

- **Section 6.1** summarizes our qualifications and experience in the four major task areas identified in RFP Part IV (“Technical Specifications / Scope of Services”).
- **Section 6.2** describes projects of a similar scope and presents a summary table that includes the requested contact and cost information for each project.
- **Section 6.3** lists work product samples that are provided in the CD enclosed with this submission, as requested in the RFP.
- **Section 6.4** presents subcontractor qualifications summaries.

6.1 Qualifications and Experience in Task Areas Identified in RFP Part IV

HMMH is a recognized industry leader in each of the task areas identified in the RFP, and has previous experience collaborating with each of its team members in one or more of the areas. This section summarizes highlights of our qualifications and experience in the four identified areas; i.e., noise-related airport advisory committee support; noise and operations monitoring system design, specification, procurement, acceptance, and use assistance; stakeholder outreach; and on-call noise-related planning and technical support.

6.1.1 Noise-Related Airport Advisory Committee Support

Public involvement is a central element of nearly every HMMH aviation project. For example, HMMH has assisted over 70 airports with Part 150 studies and implementation. Every one of those studies has involved extensive public outreach. Advisory committee support is a specialized type of outreach in which HMMH is a recognized industry leader. HMMH has supported – *and in most cases continues to support* – airport noise advisory committees at

numerous airports across the country. In almost every instance, we provide this support as part of a comprehensive noise consulting arrangement, similar to that which the City seeks in this procurement.

“Ted and HMMH are valuable assets to the BCAD and Noise Abatement Committee (ANAC). It would be a loss to the citizens and to your noise abatement efforts if they were no longer available... I have come to appreciate the objective and informative technical assistance Ted and his team bring to the committee meetings...he is always patient and willing to offer any support that we need... I believe the stability offered by having Ted and his company continue in this role is particularly important in this time of change at the airport.”

– Debora Van Valkenburgh, City of Fort Lauderdale resident, former Fort Lauderdale - Hollywood International Airport Noise Abatement Committee (ANAC) member, and FXE Aviation Advisory Board Vice Chair

Our on-call consulting and advisory committee support experience includes, but is not limited to, the following 15 airports:

- Baltimore-Washington International (MD)
- Boston-Logan International (MA)
- Denver International (CO)
- Fort Lauderdale – Hollywood International (FL), including support (with current MCG and prior Hanson staff assistance) to the Airport Noise abatement Committee (ANAC)
- Hanscom Field / Bedford (MA), including support to the Massachusetts Port Authority for the Hanscom Field Advisory Commission
- Los Angeles International (including acting as moderator for the LAX / Community Noise Roundtable)
- Salt Lake City International (UT)
- Palm Beach International (FL), including support to the Citizens Committee on Aircraft Noise (CCAN)

- Oakland International (CA), including assisting the Port of Oakland with presentations to the Aviation Stakeholder Advisory Committee
- Raleigh-Durham International (NC)
- San Diego Lindbergh Field (CA)
- San Francisco International Airport (CA), including support to the Airport / Community Roundtable
- Westchester County (NY), including making presentations with SH&E to the Westchester County Airport Advisory Board
- Martin County Airport / Witham Field (Stuart, FL), including working with Hanson to provide support to the Airport Noise Advisory Committee (ANAC)
- Van Nuys Airport (CA), including a future role assisting to establish and moderate the Airport / Community Noise Roundtable, and prior presentations with SH&E to the existing Citizens Advisory Council

In addition, HMMH staff – Mr. Baldwin in particular – have been pleased to support the City in presentations to the FXE Airport Advisory Board (AAB) on numerous occasions over the past 26 years.

Section 6.1.3 discusses stakeholder outreach in a more general context.

6.1.2 Noise and Operations Monitoring System Assistance

HMMH has the most experience related to noise and operations monitoring systems (NOMS) of any other consulting firm. We were the first to provide NOMS consulting services to airports over 28 years ago and continue to provide similar services today.

Our capabilities are recognized across the country and throughout the world; HMMH staff have had lead roles at over 55 airports related to the design, specification, procurement, installation monitoring, acceptance training, and use of monitoring systems across the U.S. and overseas, as summarized below:

- Centennial, CO (2010)
- Baltimore-Washington International, MD (1984, 2008) (original and replacement)

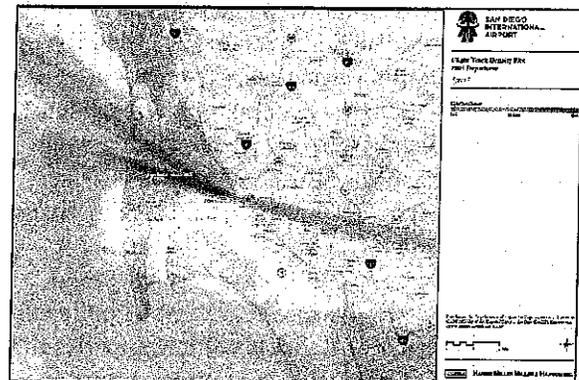
- Martin County / Witham Field, FL (2008)
- Reno-Tahoe, NV (2007)
- Denver International, CO (2007) (upgrade)
- East Hampton, NY (2007)
- Beijing, China (2005)
- Boston-Logan, MA (2004)
- L. G. Hanscom Field (Bedford), MA (2004)
- Indianapolis, IN (2003)
- Santa Clara, CA (2003) (three-airport system)
- Louisville, KY (2003)
- 10 South African Airports (2003)
- San Antonio, TX (2003)
- San Diego, CA (2002)
- Allentown, PA (2001) (two airport system)
- Anchorage, AK (2001)
- Raleigh Durham, NC (2001)
- San Francisco, CA (2001)
- Tampa, FL (2000)
- White Plains, NY (1981, 1993, 1999) (original, replacement, upgrade)
- Naples, FL (1998)
- Miami, FL (1997)
- Sacramento, CA (1997) (three airport system)
- Chicago Midway, IL (1995)
- Chicago O'Hare, IL (1995)
- John Wayne, CA (1995)
- Denver International, CO (1993)
- New Orleans, LA (1993)
- Palm Beach, FL (1993) (three airport system)
- Seattle-Tacoma, WA (1992)
- Fort Lauderdale-Hollywood, FL (1991)
- Fort Lauderdale Executive, FL (1990)
- Minneapolis-St. Paul, MN (1990)
- Nashville, TN (1990)
- Charlotte, NC (1988)
- Columbus, OH (1988)
- Denver-Stapleton, CO (1988)
- Salt Lake City, UT (1987)

HMMH installed and supported airport monitoring systems at over 30 airports in the U.S., Canada, the United Kingdom, and Europe, as part of a division that HMMH operated in the mid-1990s prior to Lochard acquiring the ANOMS™ business from HMMH, including the following:

- Birmingham, UK
- Chicago Midway, IL
- Chicago O'Hare, IL
- Civil Aviation Auth., UK
- Denver International, CO
- Edmonton, Canada
- Ft. Lauderdale Exec., FL
- Ft. Lauderdale Int'l, FL
- Gatwick, UK
- Heathrow, UK
- Long Beach, CA
- Miami, FL
- Milan, Italy
- Minneapolis, MN
- Naples, FL
- Nashville, TN
- New Orleans, LA
- Oakland, CA
- Orlando, FL
- North Palm Beach, FL
- Palm Beach Park, FL
- Palm Beach International, FL
- Portland, OR
- Sacramento Executive, CA
- Sacramento International, CA
- Sacramento Mather, CA
- San Diego, CA
- San Jose, CA
- Seattle-Tacoma, WA
- Stansted, UK
- Torrance, CA
- Warsaw, Poland
- Westchester, NY
- Winnipeg, Canada

In many areas, our specifications have driven industry-wide innovation. For example, HMMH's design for the new Denver International Airport (DIA) introduced a generation of systems that incorporate the highest levels of integration, noise event identification and flight track correlation. This system permits DIA to monitor compliance with demanding noise exposure standards that are legally binding to Denver.

HMMH has developed the software and hardware necessary to process radar from various sources worldwide. HMMH has also assisted numerous clients to obtain access from either the FAA or various flight track data providers. We have the in-house capabilities to perform detailed analysis of these data.



Flight Track Density Plot, 2004 Departures at San Diego International Airport

The ultimate value of a monitoring system depends as much on implementation as it does on design. HMMH pays continuous attention to implementation issues. *Our related experience includes recruiting, interviewing and selecting staff for airport noise office staffs, presenting courses on relevant technical issues, providing on-site and on-call noise abatement staff, noise monitoring system training and developing standard procedures for airport staff in use of the system.* We have provided these types of services at a number of airports, including:

- Anchorage (AK)
- Baltimore-Washington (MD)
- Beijing Capital (China)
- Boston-Logan (MA)
- Charlotte-Douglas (NC)
- Dallas-Love Field (TX)
- Fort Lauderdale International (FL)
- Fort Lauderdale Executive (FL)
- Palm Beach International (FL)
- Sacramento Executive (CA)
- Sacramento International (CA)
- Sacramento Mather (CA)
- San Diego (CA)
- San Francisco (CA)
- Westchester County (NY)

6.1.3 Stakeholder Outreach Experience

HMMH has a rich history in preparing and implementing community outreach plans. Hanson, MCG, and SH&E are frequent HMMH partners in these exercises.

The HMMH team understands that the success of a project often hinges on community understanding and acceptance. HMMH prepares a community outreach plan at the beginning of a project, and continues the public outreach until the project concludes. HMMH team members excel at presenting difficult technical issues clearly and concisely, to build public consensus. As discussed in Section 6.1.1, stakeholder outreach is a central element of nearly every HMMH aviation project. Stakeholder outreach can take many forms. This section provides the following examples that are representative of the diverse range of tools and approaches that the HMMH team can apply:

- Comprehensive notice, consultation, comment processing, website, public meeting, and other outreach support for the Van Nuys Airport (CA) Part 161 and California Environmental Quality Act Environmental Impact Report studies
- Fort Lauderdale – Hollywood International Airport Partnership for Quieter Skies Quarterly Noise Scorecard Program
- Use of “supplemental” noise metrics
- Use of specialized audio presentation tools
- Website applications
- Experienced public presenters
- Expert witness assistance

These examples are summarized below.

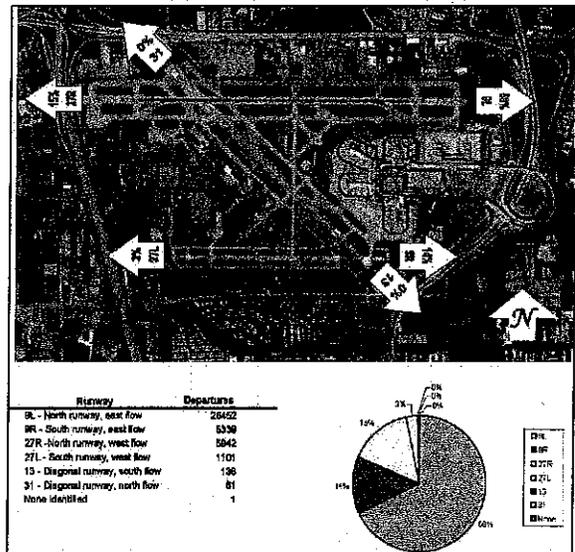
Van Nuys Part 161 and Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA)

HMMH and designed, developed and is implementing the public outreach program to include public meetings, draft media material, draft informational material, direct mailings, translations and interpreters to meet environmental justice requirements, draft public

notices and advertisements, media placement of legal notices and advertisements, as well as the public docket. The project’s public outreach program also includes responses to inquiries, project website updates, and attendance at airport Citizen Advisory Council monthly meetings. Arrangements included meeting all state and federal CEQA and NEPA requirements related to public outreach.

Fort Lauderdale – Hollywood International Partnership for Quieter Skies Program

Recently, HMMH worked with Broward County, the FAA, and air carrier operators to develop FLL’s Partnership for Quieter Skies program, a quarterly report that includes: fleet noise reports, high noise events, arrival and departure density plots, runway usage graphic and statistics, and an update of all noise-related projects ongoing at the airport. The process involved multiple meetings with air carriers and FLL’s Airport Noise Advisory Committee, to solicit their feedback, and -- more importantly -- their buy-in.



Runway Use Graphic Included in FLL Quarterly “Partnership for Quieter Skies” Reporting

The Broward County Aviation Department posts the PQS reports on the County’s website.

Item 7 in Section 6.3 presents a work product example of an entire quarterly PQS report.

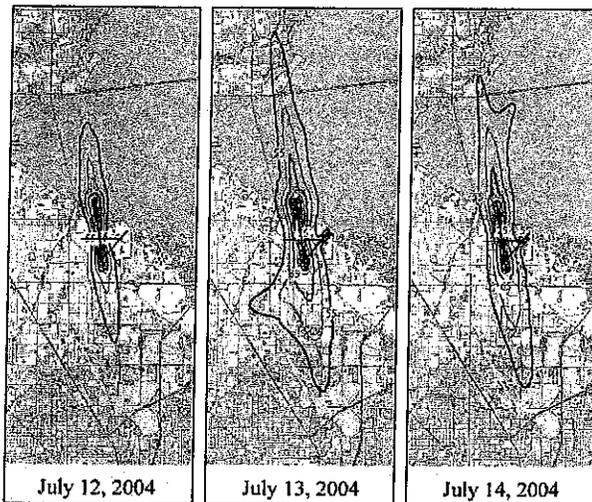
HMMH's success in communication is related to our continuing efforts to respond to citizen interests and to communicate noise issues in ways that relate to their day-to-day experience. The following two examples illustrate innovative techniques we have applied to address this issue.

Supplemental Noise Metrics

One common public criticism of noise studies is their reliance – at FAA direction – on use of cumulative exposure, in terms of the Day-Night Average Sound Level (DNL). Residents frequently point out that most noise concerns relate to unusually loud individual events, activity during a particular time of day or year, or other considerations that are masked by the annual average day DNL.

HMMH utilizes a broad range of “supplemental noise metrics” to depict the full range of citizen concerns in the most sensitive manner feasible. Such analyses typically include Maximum Sound Level (Lmax), Sound Exposure Level (SEL), Time Above a Threshold (TA), Number of Events Above a Threshold (NA), seasonal DNL contours, etc.

The following figure presents an example of a DNL-based application that improves the sensitivity of that metric even beyond seasonal – daily DNL contours, to reflect the variation that can be associated with major day-to-day wind or activity level differences.



Daily DNL Contours for St. Petersburg-Clearwater Airport

As a second example, the following figure presents an example of SEL-based analyses HMMH, MCG, and SH&E are undertaking for the ongoing Naples Municipal Airport (APF) Part 150 update, in this case for analysis of departure profile alternatives.

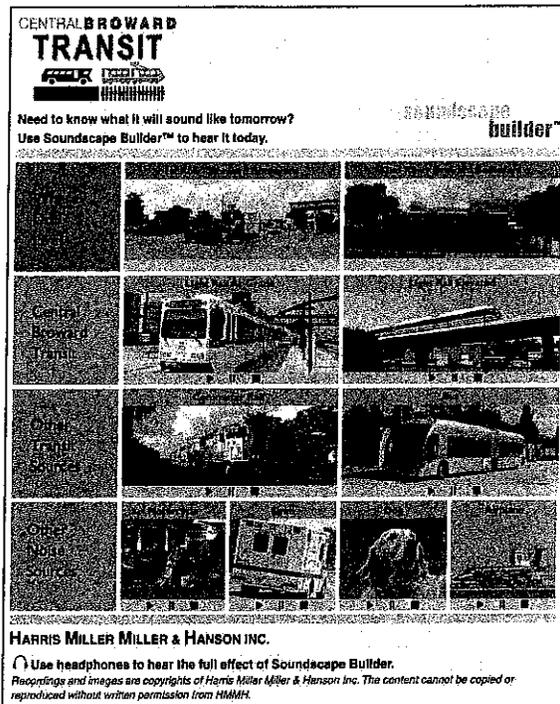


Comparison of SEL Contours for Lear 35 Standard and Close-In Noise Abatement Departure Procedures at APF

Public Outreach Tool – Virtual Soundscape™

HMMH has developed a tool – called “Virtual Soundscape™” – that permits citizens to actually hear and experience noise levels, rather than relying on graphs or charts.

Florida Department of Transportation recently used this HMMH tool in community outreach for the Broward County light rail proposal.



Broward Transit Soundscape kiosk menu

Virtual Soundscape gives listeners a realistic sense of how a planned facility or project will sound. HMMH has developed recordings and play-back technology so that listeners can hear what a proposed project will sound like. HMMH uses binaural (stereo in-ear microphone) recordings, acoustic models and specialized sound mixing software to create realistic synthesized stereo recordings. These recordings may be presented at meetings using HMMH’s wireless headphones, posted on a project web site, or distributed on CDs.

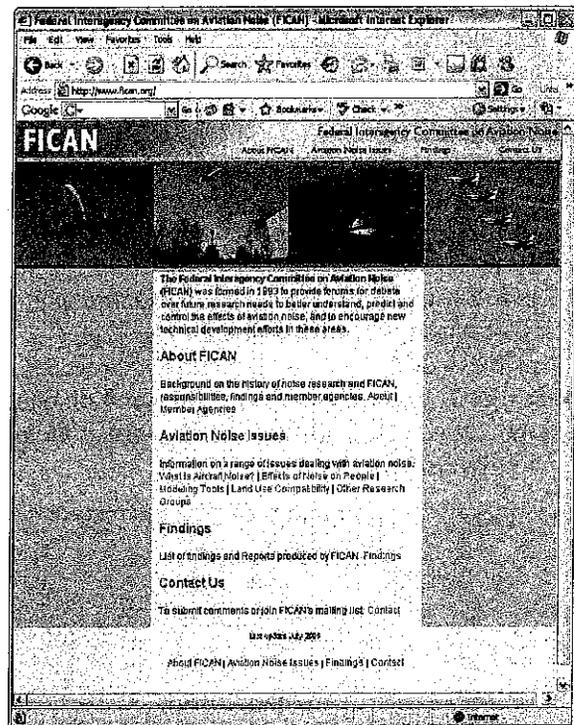
Website Applications

Website applications have become a staple of stakeholder outreach. HMMH regularly assists clients with diverse website-related services, ranging from design and development, through implementation, management, support, and hosting. The work product samples in Section 6.3 include a number of examples, including:

- Item #7, the previously cited FLL PQS quarterly noise scorecard that HMMH and MCG prepare for Broward County’s website.
- Item #10, the “FICAN” website that HMMH designed, constructed, and maintains under

for the “Federal Interagency Committee on Aviation Noise” committee that coordinates federal agency research into noise effects.

- Item #14, the “JPDO” website, which HMMH developed and maintains under its industry-wide role supporting the federal government’s “Joint Planning and Development Office” (JPDO) for the development of the “NEXTGEN” air transportation system.
- Item #29, the project-specific website that HMMH designed and established for the ground-breaking Van Nuys Airport (VNY) Part 161 study that was the first to address multiple potential use restrictions, and that has already led to successful implementation of a ban on Stage 1 and 2 aircraft operations.



FICAN website home page

Public Speaking

Since most noise problems involve the public, a key component of successful solutions is the ability to communicate difficult technical issues clearly and concisely. Clarity with technical accuracy is an HMMH trademark. Specific examples include:

- HMMH has administered FICAN's activities since its formal formation in 1994. These activities include: coordinating all meetings, public forums, and symposia; preparing meeting minutes, annual reports, and technical reports; and managing FICAN's web page.
- As a leader in the aviation industry, HMMH is routinely asked to give presentations at technical and professional society meetings, on a variety of related topics. In the last year alone, HMMH has made recent presentations to: the Transportation Research Board, the Florida Airports Council, the American Association of Airport Executives, and Airports Council - North America.

Expert Witness Testimony

Airport noise issues can sometimes require experienced expert witness services, for presentations to formal government boards (e.g., planning and zoning commissions and boards of appeal), and occasionally for support in litigation. HMMH's experts are widely recognized as leaders in providing expert-testimony assistance to airports.

The designated project manager, Mr. Baldwin is one of HMMH's most experienced expert witnesses. He has assisted the City of Fort Lauderdale in expert witness testimony to the planning and zoning hearings related to proposed developments in the FXE environs. In the unlikely event that the City requires expert support or testimony in litigation, he provides HMMH's highest level of related experience, including 12 legal proceedings, of which three of particular note were for Florida airports:

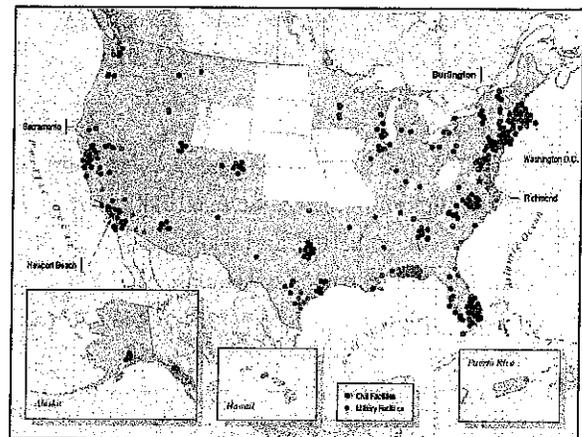
- In 1992 he assisted Broward County in defense of an inverse condemnation lawsuit against operations at FLL.
- In 2001-2003, he assisted the Naples Airport Authority in defending its nationally precedent-setting Stage 2 jet ban on in state and federal courts. MCG and SH&E also provided technical support in the litigation.
- In 2009, he was the lead technical witness in Martin County's successful defense of the

first class-action lawsuit brought against an airport in Florida. His testimony was a key factor in the court's denial of class certification status, ending the class action.

Similar to his prior presentations to City of Fort Lauderdale land use control bodies, in 2009 Mr. Baldwin provided expert testimony to the Gainesville planning and zoning commission, and city council, in support of a successful effort to limit development off the end of the noise-preferential runway, and to develop and adopt updated airport noise zones that control residential development in a tiered fashion out to the 55 DNL contour.

6.1.4 On-call noise-related planning and technical support

HMMH's aviation experience spans six continents: North and South America, Europe, Asia, Australia, and Africa. Much of our work is sole-source, justified by the nature of our specialty in acoustics, the quality of our staff, and our high standards of excellence. In the U.S., federal government clients have included the FAA, Air Force, Navy, NASA, National Park Service, and Department of Justice.



HMMH Aviation Projects in the U.S.

Our size and focus enable us to offer our clients capabilities, experience, and specialized tools and techniques that no other firm can match. We maintain state-of-the-art facilities for computer modeling and analysis, hardware and software systems for processing radar data, a complete reference library, and a fully equipped instrumentation lab.

A large percentage of HMMH's aviation consulting is under on-call "as-needed" arrangements similar to this procurement. An on-call arrangement provides the client with flexible, timely, and cost-effective access to HMMH assistance in a diverse range of areas, and the ability to respond to unanticipated needs as they arise. One of the hallmarks of HMMH's assistance to airports is establishment of a close partnership with the client; we see ourselves as an adjunct to staff. As we have demonstrated at FXE over the past quarter century, we are a full partner and approach every issue and challenge with a level of commitment that is equal to that of the airport staff.

Most importantly, HMMH is first and foremost an aviation noise consulting firm. HMMH was founded and continues to exist for the purpose of assisting clients with complex aviation noise issues such as those presented by this project at Fort Lauderdale Executive Airport.

HMMH assistance to airports under on-call arrangements has included:

- Noise measurement and noise modeling
- Part 150 and 161 studies/updates and implementation
- Land use compatibility planning
- EA, EIS, and Master Plan noise elements
- Assistance in noise office establishment
- Noise office staffing and training
- Stakeholder outreach assistance
- Training in acoustics and the FAA's Integrated Noise Model (INM)
- Litigation support
- Noise model improvement
- Environmental documentation
- Preparation of annual contours
- Radar flight data acquisition and analysis
- Comprehensive noise and operations monitoring system support
- Sound insulation program design, implementation, and management
- Noise barrier, ground runup enclosure, and "hush-house" analysis and design

- Expert witness services
- Noise expertise on non-aviation transportation modes

6.2 Qualifications and Experience on Projects of Similar Scope

The RFP calls for information on and references for a minimum of six projects with similar scopes over the past three years. Due to HMMH's industry leadership, we could list many multiples of that number. We have selected the following nine clients / airports, based on their recent nature, directly relevant services provided in all four identified task areas, and, in many cases, south Florida location, general aviation focus, and involvement of other proposed team members. The table in Section 6.2.1 provides the reference contacts and other information requested in the RFP for these clients and projects. Section 6.3 provides work product samples for each of these clients.

- **City of Fort Lauderdale / Fort Lauderdale Executive.** Clearly our 26 years of assistance to the City at FXE is the most directly relevant comparable experience that we can offer.
- **Broward County / Fort Lauderdale – Hollywood International.** HMMH, with ongoing MCG assistance (and with prior assistance from current Hanson staff while at another firm) has provided comprehensive airport noise consulting services to the Broward County Aviation Department since 1990 that are identical to the services the City seeks in this procurement.
- **Palm Beach County Department of Airports / Palm Beach International, Palm Beach Park (Lantana), and North Palm Beach County.** HMMH, with prior assistance from current Hanson staff (while at another firm), has provided comprehensive airport noise consulting services to the Palm Beach County Department of Airports since 1991 that are identical to the services the City seeks in this procurement.
- **Martin County / Witham Field.** HMMH has been assisting the County on a broad range of noise assignments for Witham Field since 2002. HMMH and Hanson are

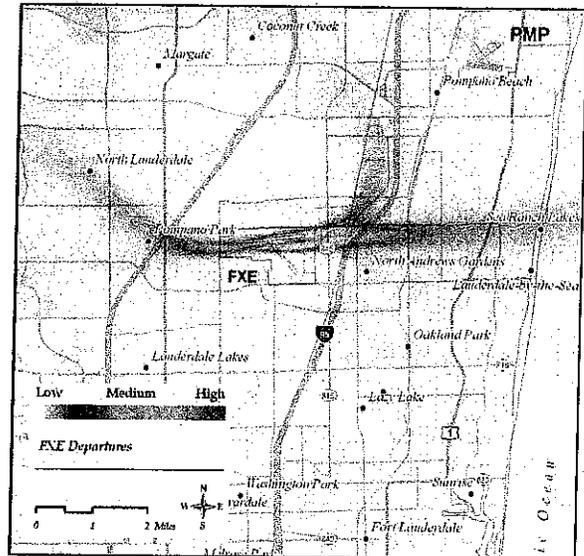
collaborating on providing comprehensive airport noise consulting services to the County that are identical to the services the City seeks in this procurement (through one of the County's general consultants).

- **Naples Airport Authority / Naples Municipal Airport.** HMMH has provided comprehensive noise consulting to the Authority since 1995, with MCG and SH&E as subconsultants since 2000.
- **City and County of Denver / Denver International Airport.** HMMH has continuously provided comprehensive airport noise consulting services to Denver since 1981 – starting at Stapleton International, before the new airport was contemplated. The range of services is identical to the services the City seeks in this procurement.
- **Los Angeles World Airports / Los Angeles International, Ontario International, and Van Nuys Airport.** HMMH provides a broad range of noise consulting to LAWA for all three of its airports. Van Nuys is a west coast general aviation airport with many noise-related parallels to FXE. SH&E is a subcontractor to HMMH at LAX and VNY.
- **Massachusetts Port Authority / Boston-Logan International Airport and L.G. Hanscom Field.** HMMH has continuously provided comprehensive airport noise consulting services to Massport since 1981. The range of services is identical to the services the City seeks in this procurement.
- **Westchester County New York / Westchester County Airport.** HMMH, often supported by SH&E, has provided a very broad range of noise consulting to the County since 1984 – essentially the same time frame as our support to FXE.

Comprehensive Aviation Noise Consulting, Fort Lauderdale Executive Airport, FL

HMMH is proud to have provided noise consulting services to the City of Fort Lauderdale, for Executive Airport (FXE) since 1984. The cover letter to this proposal and the Section 2 "Proposal Summary" summarize our prior experience and qualifications; they are not repeated here. Clearly this experience is the most directly relevant that we can offer.

HMMH currently is assisting the City to complete an Environmental Assessment on extension of the hours of the "I-95" turn, which is the cornerstone of the FXE noise abatement program. HMMH has been proud to support the City over the entire evolution of this highly effective measure, from conception, initial implementation, through several prior rounds of review and expanded application.



FXE Departure Flight Track Density Plot

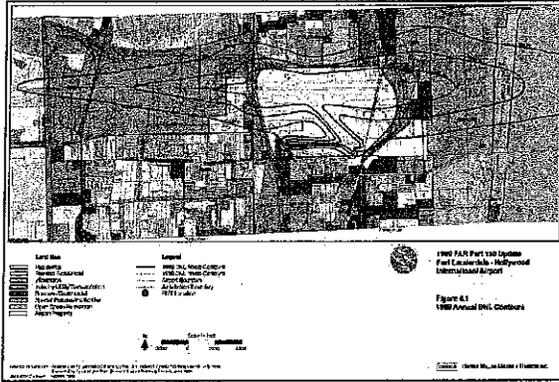
HMMH looks forward to this opportunity to assist the City with further noise program advances under this procurement.

Comprehensive Aviation Noise Consulting, Fort Lauderdale-Hollywood International Airport, FL

HMMH provides comprehensive airport noise-related consulting services to the Broward County Aviation Department (BCAD), primarily related to Fort Lauderdale – Hollywood International Airport (FLL). HMMH has provided provide these services to the BCAD in an uninterrupted fashion, since 1990. HMMH assistance to the BCAD has covered the full spectrum of projects that an airport may consider relate to noise compatibility, and noise elements of airport planning, design, and efforts.

MCG and current Hanson staff have assisted HMMH on Broward County projects. *Our work*

at FLL – combined with our FXE experience – provides us with local aviation noise experience that no other firm or group of firms can match.



Annual Contours for Fort Lauderdale – Hollywood International Airport

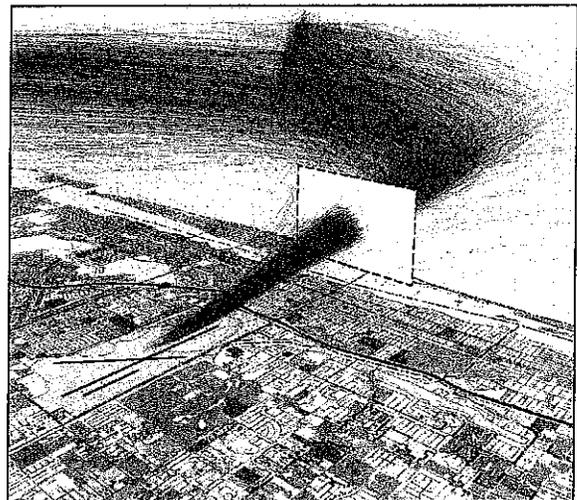
Major HMMH services to the BCAD have included the following:

- Two Part 150 studies
- Noise elements of an Master Plan Study
- Noise elements of Environmental Impact Study (EIS) for a runway extension
- Initial and ongoing implementation of the Airport Noise Abatement Committee
- Monitoring system design, specification, implementation, support, and use
- Design and establishment of noise office staffing and functions
- Noise office staff training
- Annual noise contours
- Ground run up control and noise barrier effectiveness analyses
- Sound insulation program design, implementation, and testing
- Implementation of an aviation easement and sales assistance program
- Litigation support

Comprehensive Aviation Noise Consulting, Palm Beach International Airport, North Palm Beach County Airport, and Palm Beach Park (Lantana) Airport, FL

HMMH has provided comprehensive airport noise-related consulting services to the Palm Beach County Department of Airports (DOA) since 1991, for all of its airports, including:

- 1992/3 and 2002 Part 150 Updates
- Noise elements of a Master Plan Update
- Noise elements of a Florida Development of Regional Impact Study and Environmental Impact Study (EIS) for a runway extension
- Design, specification, installation, support, and application of a comprehensive monitoring system
- Residential sound insulation program design and management
- Noise office staff training
- Preparation of annual noise contours
- Continuing assistance to the Citizens Committee on Aircraft Noise
- Expert support for litigation
- Stakeholder outreach
- Nationally recognized noise abatement departure profile (NADP) analyses
- Helicopter and light aircraft noise abatement procedure development and implementation.



The figure depicts an oblique view of flight tracks through an airspace "gate," which HMMH recently used to assist the public in visualizing the complexity of operations at PBI

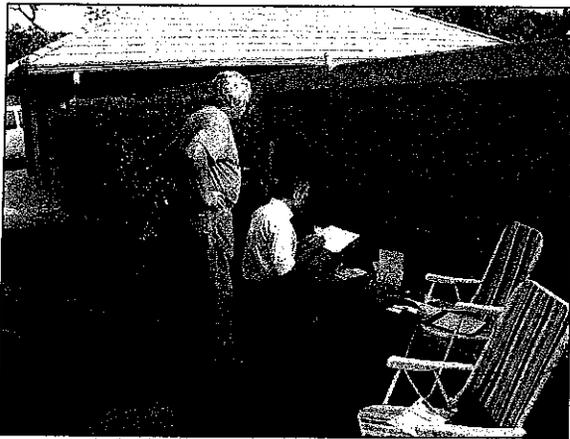
"We have been extremely pleased with HMMH's assistance since 1991, including the quality of the firm's technical analyses, its ability to assist in communication with the public, and its implementation-related focus."

- Bruce Pelly, Director, Department of Airports

**Comprehensive Aviation Noise Consulting,
Martin County Airport, Stuart, FL**

HMMH, usually working in collaboration with Hanson, has provided Martin County with a very broad spectrum of aviation noise consulting services. The two firms currently are collaborating providing comprehensive noise consulting services.

Section 4.1 discusses the awards that the two firms received with the County for their roles on the 2009 Noise Abatement Departure Profile (NADP) Demonstration Project, which is described in greater detail in work product sample #26 in Section 6.3



Portable noise measurements in a SUA neighbor's yard

Other recent and ongoing HMMH / Hanson noise assignments have included:

- A Part 150 Noise Exposure Map update
- Monitoring system design, specification, procurement, and acceptance testing
- Expert testimony support in litigation
- Noise analyses associated with airfield layout issues, including runway safety areas, runway protection zones, declared distances, and application of "EMAS" (engineered materials arresting system)
- Voluntary noise-based land acquisition program design and implementation
- Voluntary residential sound insulation program design and implementation
- Flight track data acquisition and analysis

- Environmental assessment of relocated helicopter facilities and routes

Our work at SUA is of particular relevance to the City's current procurement for noise abatement consultant services, because SUA is an east coast Florida general aviation airport with many operational, environmental, fleet mix, community, and other noise-related factors in common with FXE.

**Comprehensive Aviation Noise Consulting,
Naples Municipal Airport, Naples, FL**

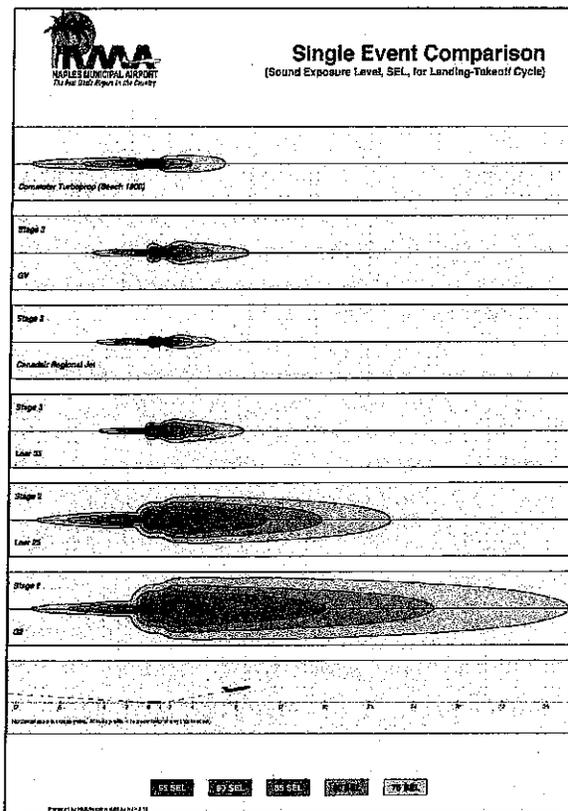
HMMH, with SH&E and MCG assistance, has provided a broad range of noise consulting services for Naples Municipal Airport (APF), including:

- 1996, 1998, 2000, and 2010 Part 150 studies
- Noise analysis for 1996 Master Plan
- Part 161 Study for restriction of Stage 2 general aviation jet operations
- Noise monitoring and complaint analysis software, a portable monitoring field kit, and associated staff training
- Stakeholder meetings related to ongoing noise program activities.
- Updated noise contours as one measure of noise program status
- Expert witness and other support in state and federal noise-related litigation

The series of Part 150 Updates and the Part 161 study set national precedent in two areas:

- FAA's first approval of a new airport noise restriction since passage of the Airport Noise and Capacity Act of 1990 and promulgation of Part 161 in 1991.
- FAA's first finding that an airport had successfully complied with Part 161 notice and consultation requirements (for extension of the restriction to include Stage 2 aircraft)

Prior to pursuing the use restriction options, HMMH assisted the Authority to design and implement non-restrictive measures to the maximum feasible extent, including noise abatement runway use, flight track, and runway procedures, and compatible land use measures.



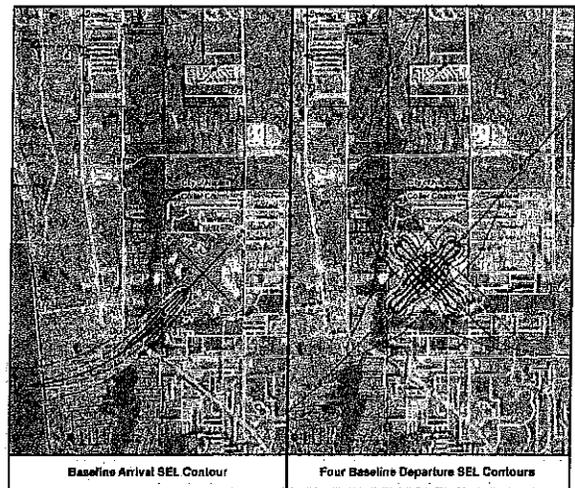
APF single event noise contour figure demonstrating significance of Stage 2 general aviation jet operations airport

Once again, our team experience at APF is particularly relevant to the City's procurement, because it is a Florida general aviation airport with many noise-related factors similar to FXE.

HMMH, MCG, and SH&E currently are conducting a *fourth* Part 150 Update for APF.

An interesting issue of concern that has been identified in the study is the noise associate with the "Piaggio Avanti," a twin turboprop that is not relatively noisy, but that produces an annoying whine. The Avanti has become an issue of concern at many Florida general aviation airports; our Naples experience will be of value in assisting them. We anticipate that the Piaggio is likely to be a focus of increasing community concerns at FXE as well.

The public interest in the Avanti turboprop shows that noise issues persist, even at an airport that has gone to the extreme of banning the noisiest jets.



Piaggio Avanti single event contours at APF

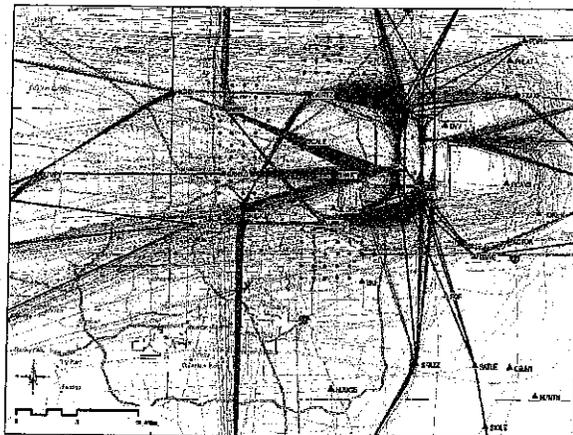
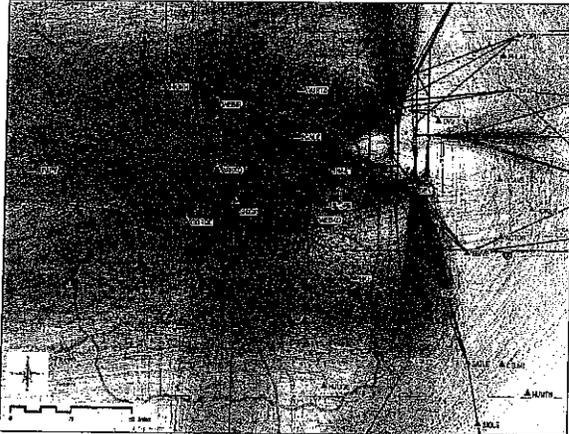
Comprehensive Aviation Noise Consulting, Denver International Airport, Denver, CO

HMMH has provided consulting assistance to the City and County of Denver related to a broad range of issues at Stapleton and Denver International Airports since 1988, including:

- Multiple Part 150 studies
- Noise analyses for the site selection, design, and environmental review of the new airport
- Monitoring system design, specification, procurement, acceptance, implementation, support, and application at both airports
- Automatic preparation of daily contours
- Compatible land use planning assistance
- Stakeholder outreach

Much of our assistance at the new airport relates to the fact that Denver must comply with an Intergovernmental Agreement that defines annual average Noise Exposure Performance Standards at 102 points around the airport. Exceedence of these levels by more than two decibels in a year results in fines of \$500,000 per occurrence. The noise exposure levels must be computed with "ARTSMAP"® which uses radar data to model the actual flight path and climb profile for every aircraft taking off or landing at the airport. Novel mitigation measures, that HMMH developed with DIA, the FAA, and major carriers, have successfully eliminated multi-million dollar penalties.

Recently, FAA considered applying RNAV departure procedures at DIA. HMMH worked with DIA and FAA staff to assess the expected noise associated with the proposed procedures developed by FAA using TARGETS software. HMMH used aircraft performance characteristics to modify an 82-day sample of radar data so individual aircraft would “fly” the new RNAV procedures in ARTSMAP.



Top: actual radar data that represents the existing flight paths; Bottom: modified flight tracks that HMMH prepared to represent the FAA's proposed RNAV procedures.

The figures above compare an 82-day sample of radar data. The top figure shows the actual radar data that represents the existing flight paths. The bottom figure shows modified flight tracks that HMMH prepared to represent the FAA's proposed RNAV procedures. Initial analysis indicated that the FAA's proposal would create NEPS violations. HMMH suggested two changes to the proposed procedures that would likely eliminate the NEPS violations.

We anticipate that FAA implementation of RNAV procedures is likely to concentrate operations in a manner that raises noise issues at many airports; our experience with them at DEN and other airports provides us with exceptional experience related to anticipating and avoiding potential concerns.

Comprehensive Aviation Noise Consulting of the Los Angeles World Airports, CA

HMMH, with SH&E assistance, is assisting LAWA with a broad range of aviation noise consulting matters at Los Angeles International (LAX), Ontario International (ONT), and Van Nuys Airport (VNY), including:

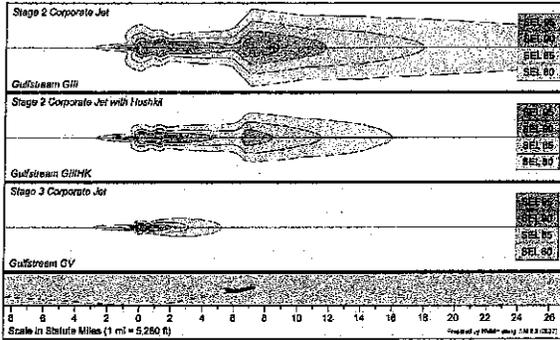
- Automated quarterly noise contours at all three airports
- Part 161 studies at LAX and VNY
- Part 150 Noise Exposure Map development
- Moderating and supporting the LAX / Community Noise Roundtable

Our work at VNY is most relevant to the FXE situation; it centers on a precedent-setting Part 161 study – the first to simultaneously address multiple restrictions (a total of nine), several of which would limit noisier operations.

Based on our multi-year study, in July 2006, the Los Angeles Board of Airport Commissioners directed LAWA staff and HMMH to prepare an EIR, under the California Environmental Quality Act, for a seven-year phaseout of noisier aircraft under a Part 161 provision that exempts (“grandfathers”) rules proposed before October 2, 1990.

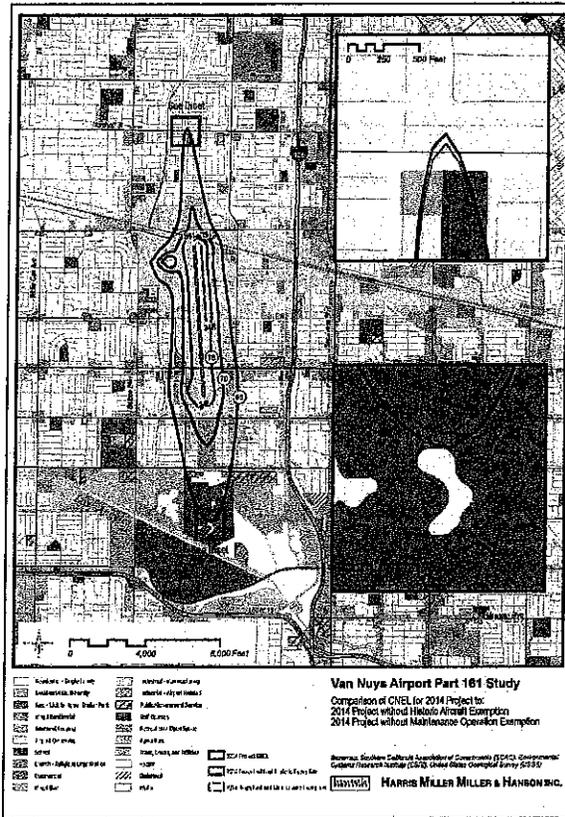
In March 2009, FAA notified LAWA that a version of the phaseout that exempted Stage 3 and 4 aircraft would be grandfathered, since it was based on a June 1990 Board resolution initiating the phaseout proposal, and therefore met the Part 161 grandfather deadline. On May 4, 2009, the Board approved this version of the phaseout and recommended the Los Angeles City Council take steps necessary to adopt it as a City ordinance. The City Council subsequently approved the ordinance; Mayor Villaraigosa signed it; and it went into effect on April 15.

The phaseout is the first new airport use restriction in the U.S. since HMMH, MCG, and SH&E assisted Naples to ban Stage 2 jets in November 2000.



Van Nuys Airport Single Event Contour Comparisons for Three Gulfstream Corporate Jets: Stage 2, Stage 2 Hushkitted to Stage 3, and True Stage 3

For the EIR, HMMH, with SH&E assistance in preparing the base case and forecast fleet mixes, prepared CNEL contours based on monitoring system outputs, conducted GIS-based land use and population analyses, and compared INM output to measured results.

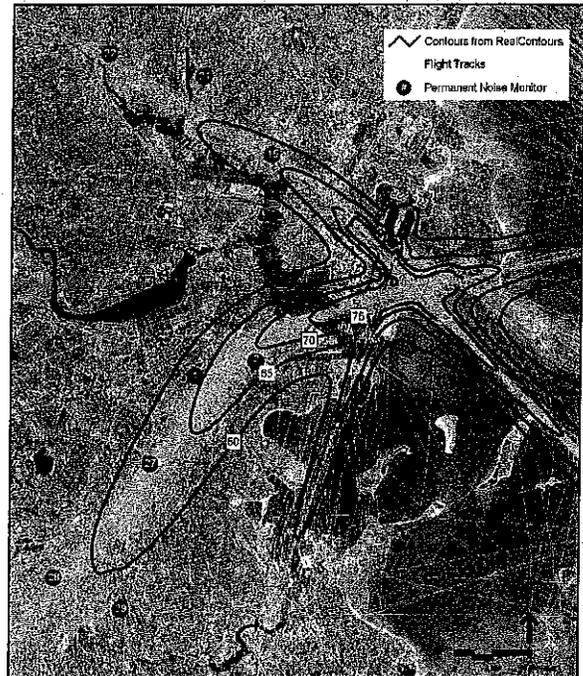


GIS-Based Land Use Analysis for VNY

Comprehensive Aviation Noise Consulting, for Boston-Logan International and Hanscom Field, for the Massachusetts Port Authority

HMMH has provided a comprehensive range of noise consulting services to Massport for both its airports since 1982. Much of the work was done in collaboration with SH&E. Major assignments have included.

- Environmental studies for a diverse range of airside and landside improvements at Logan
- Innovative Integrated Noise Model enhancements (with FAA approval) to better account for start-of-takeoff-roll noise, over-the-water noise propagation and other specialized acoustical issues
- Monitoring system design, specification, procurement, acceptance, and application
- Sound insulation program acoustical design
- Diverse stakeholder outreach assistance



Noise Contours Associated with a Specific Sample of Operations at Boston-Logan, Developed Using HMMH's Automated RealContours Software

HMMH's work for Hanscom Field (BED), New England's premier full-service general aviation airport and reliever for Logan, is particularly relevant to FXE. BED is located in the middle of four noise-sensitive communities, and

adjacent to Minute Man National Historic Park, which is listed by activists as an “endangered” national park. HMMH’s services include:

- Evaluating benefits of a weight-based surcharge on nighttime operations
- Preparation of noise exposure contours and supplemental noise metrics
- Review of MPA noise computations and annual noise reports
- Preparation of noise analysis sections of Generic Environmental Impact Reports
- Noise measurements
- Noise berm design and testing
- Continuing assistance to the Hanscom Field Noise Workgroup
- Examination of changes in noise reduction resulting from tree cutting
- Noise analyses for Environmental Status and Planning Reports (ESPRs). Work sample # 4 in Section 6.3 is an ESPR example.

One special aspect of our Massport experience is that Mr. Baldwin started his career in the noise abatement office. His Massport experience provides him with a clear perspective of the issues that City and FXE staff members face as the day-to-day front line on noise issues.

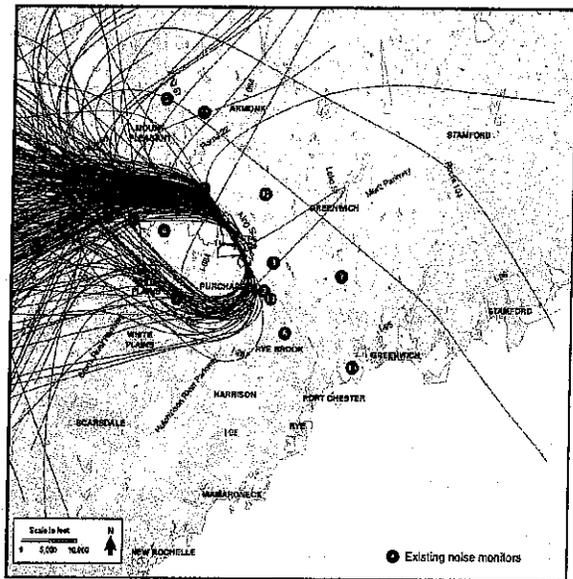
Comprehensive Aviation Noise Consulting, Westchester County Airport, NY

HMMH, frequently working with SH&E, has provided comprehensive airport noise-related consulting services to Westchester County, New York, the operator of Westchester County Airport (HPN), since 1991. HMMH has provided the County with a diverse range of assistance, including:

- Preparation of updated existing and forecast conditions noise contours
- Review of a federal Draft Environmental Impact Study (DEIS) on airspace changes potentially affecting the HPN environs
- Design, specification, installation, and support of a replacement noise and operations monitoring system
- Staff training in monitoring system use
- Noise monitor site selection and installation

- Provision (and training in use of) portable noise monitoring field kits
- Design and implementation of an extensive public participation program to obtain citizen input into review of existing and potential permanent monitoring locations
- Extensive stakeholder outreach

HPN is primarily a general aviation facility with many operational, fleet mix, and community issues in common with FXE.



Flight Tracks and Noise Monitor Locations at HPN

6.2.1 Reference Contacts and Other information requested in the RFP for Projects of Similar Scope

Part V, Section 6 of the RFP called for providing specific reference contact information, dates of service, budget, and other information for the cited projects of similar scope. That information is provided in a consolidated fashion in the following table.¹ We invite the City to contact any past client for testimonials on our performance.

¹ We have included the requested project information for our work at FXE to comply with the RFP requirements. We realize this information is available to the City independently.

Qualifications and Experience on Projects of Similar Scope

Project Summary Table

Project Name/Location	Client Contact Information	Contract Start/End	Project Dollar Amount	Project Report See Section 6.3	Team Members
Comprehensive Aviation Noise Consulting, Fort Lauderdale Executive Airport City of Fort Lauderdale, FL	Clara Bennett, Airport Manager 6000 NW 21 st Ave., Ste. 200 Fort Lauderdale, FL 33309 T 954.828.4955 / F 954.938.4974 cbennett@fortlauderdale.gov	Multiple projects, 1984-present	Approximately \$600,000 to date	See Note.	HMMH and ATE
On-call Acoustical Consulting, Fort Lauderdale-Hollywood International Airport	Winston Cannicle, Noise Control / Environmental Officer Broward County Aviation Department, 100 Aviation Blvd Fort Lauderdale, FL 33315 T 954.359.6181 / F 954.359.1335 wcannicle@broward.org	Multiple projects, 1990-present	Approximately \$1,300,000 to date	Section 6.3, items 7, 8, and 9.	HMMH and MCG
Comprehensive Aviation Noise Consulting, Palm Beach County Dept. of Airports Palm Beach, FL	Casandra Davis, Noise Abatement Officer Palm Beach International Airport West Palm Beach, FL 33406 T 561.471.7467 / F 561.471.7427 cdavis@pbia.org	Multiple projects, 1991-present	Approximately \$1,200,000 to date	Section 6.3, items 20, 21, 22, and 23.	HMMH
Comprehensive Aviation Noise Consulting, Martin County Airport / Witham Field, Martin County, Stuart, FL	Michael Moon, Airport Director 2011 SE Airport Road Stuart, FL 34996 T 772.221.2374 / F 772.221.2381 mmoon@martin.fl.us	Multiple projects, 2008-present	Approximately \$300,000 to date	Section 6.3, items 24, 25, 26, and 27.	HMMH and Hanson
Comprehensive Aviation Noise Consulting, Naples Municipal Airport, City of Naples Airport Authority, FL	Ted Soliday, Executive Director 160 Aviation Drive North Naples, FL 34104 T 239.643.0733 / F 239.643.4084 tsoliday@flvnaples.com	Multiple projects, 1996-present	Approximately \$1,000,000 to date	Section 6.3, items 1, 2, and 3.	HMMH, MCG, and SH&E
Comprehensive Aviation Noise Consulting, Denver International Airport, City and County of Denver, CO	Mike McKee, Airport Noise Officer 8500 Pena Blvd., Airport Noise Office, 6 th Fl Denver, CO 80249 T 303.342.2361 / F 303.342.4023 mike.mckee@diadenver.net	Multiple projects, 1988-present	Approximately \$1,900,000 to date	Section 6.3, items 5 and 6.	HMMH
Comprehensive Aviation Noise Consulting, for Three Airports Operated by Los Angeles World Airports	Scott Tatro, Environmental Affairs Officer, Noise Management Division, 7301 World Way West Los Angeles, CA 90045 T 310.646.6499 / F 310.646.6500 statro@lawa.org	2005-present	Approximately \$5,800,000 to date	Section 6.3, items 16, 17, 18, 19, 28, and 29.	HMMH and SH&E
Comprehensive Aviation Noise Consulting, Boston-Logan International and L.G. Hanscom Field, Boston and Bedford, MA	Frank Iacovino, Noise Abatement Officer, Massachusetts Port Authority, One Harborside Drive East Boston, MA 02128-2909 T 617.561.1841 F 617.561.1606 fiacovino@massport.com	1981-present	Approximately \$2,300,000 to date	Section 6.3, item 4.	HMMH and SH&E
Comprehensive Aviation Noise Consulting, Westchester County Department of Transportation, White Plains, NY	John Inserra, Noise Abatement Officer, Westchester County Airport, 240 Airport Rd. Ste. 202 White Plains, NY 10604 T 914.995.4861 / F 914.995.3980 jhi1@westchestergov.com	1984-present	Approximately \$300,000 to date	Section 6.3, items 12 and 13.	HMMH and SH&E

Note: HMMH has prepared dozens of reports and presentations for the City of Fort Lauderdale during the course of providing airport noise consulting assistance over the past 26 years. Those work products represent the most directly relevant work examples; clearly no other firm could cite examples with such explicit relevance. We have not provided those documents, because the City has them in its possession.

6.3 Work Product Samples

Part V, Section 6 of the RFP requests that proposing firms provide examples of work products that we have prepared for other clients for whom we provide airport noise abatement consultant services. In order to provide a broad range of examples that are simultaneously accessible to all reviewers in a convenient manner, we have provided the materials on a CD contained in each copy of our proposal.

The CD contains a summary document titled "Description of Work Product Examples," that identifies and summarizes these materials, and includes hypertext links to the files contained on the CD.

The materials include examples of websites, public presentations, and reports that HMMH has prepared for a number of airport clients. In many cases, other members of HMMH's project team for this proposal have collaborated with us in preparing the materials.

HMMH has prepared dozens of similar reports and presentations for the City of Fort Lauderdale during the course of providing airport noise consulting assistance over the past 26 years. Those work products represent the most directly relevant work examples; clearly no other firm could cite examples with such explicit relevance. We have not provided those documents, because the City has them in its possession.

The following list identifies the files contained on the CD, provides a brief summary of the contents, and highlights the relevance to this procurement. In most cases, the work product samples are for airports at which HMMH has served (and in most cases *continues* to serve) as the noise abatement consultant, under arrangements similar to those the City is seeking in this procurement. The other samples are from work that represents HMMH involvement at higher industry-wide levels. The files also include links to websites that HMMH maintains for several of these clients.

1. ACRP_Noise_Programs_Outside_65_DNL.pdf. This report is an example of industry-wide research that HMMH undertakes for federal agencies. In this case, it reviewed actions currently used by airports to address noise outside the 65 DNL contour. HMMH is likely to assist the City to address issues outside the 65 DNL contour under any of the four task areas.
2. APF_FAA_Preliminary_Review_Draft_NEM_Update.pdf. This report is an up-to-date example of a very thorough HMMH noise exposure analysis, in this case a Part 150 Noise Exposure Map for Naples Municipal Airport (APF), a primarily general aviation facility in Florida with many operational, fleet mix, community, and other noise-relevant characteristics similar to FXE. The report is an example of the type of detailed noise analysis and documentation that HMMH might conduct under the on-call task (#4). Chapter 3 presents a sample of a noise measurement report that HMMH might prepare for the City under the noise monitoring task (#2).
3. APF_TAC_Noise_Abatement_Options.pdf. This file is a presentation summarizing detailed analyses of aircraft departure procedures, altitudes, and flight paths, of the type that the HMMH team might perform under the on-call task (#4). The presentation is from the ongoing Part 150 update for APF, a primarily general aviation facility in Florida with many fleet mix, environmental, operational, community, and other noise-relevant characteristics similar to FXE.
4. BED_2000_Environmental_Status_and_Planning_Report.pdf. This report is an example of a detailed annual report for which HMMH prepared the noise element, in this case for L.G. Hanscom Field (BED) in Bedford, MA, a general aviation airport at which HMMH is the noise consultant. It presents analyses and documentation similar to those the City might request under any of the four task areas.
5. DEN_ANOMS8_Upgrade_Specifications.pdf. This report is a recent example of a detailed technical specification, including acceptance testing, for an ANOMS upgrade at Denver International Airport (DEN) similar to the type of assistance the City might require under the noise monitoring task, should an extensive upgrade or replacement be contemplated (#2).

6. DEN_RNAV_Noise_Effects.pdf. This report, also for DEN, is an example of the type of specialized noise analysis and documentation the HMMH team might conduct under the on-call task (#4).
7. FLL_4th_quarter_2009_Partnership_for_Quieter_Skies_report.pdf. This report is an example of a regular report that HMMH prepares, with MCG assistance, on a quarterly basis under our acoustical consulting contract with Broward County, for Fort Lauderdale – Hollywood International Airport (FLL). It is a type of report the HMMH team might provide under the quarterly AAB task (#1).
8. FLL_ANAC_FAA_Reauthorization.pdf. This report is an example of the type of topical presentation that HMMH prepares for quarterly meetings of the FLL Airport Noise Abatement Committee (ANAC). It is a type of presentation the HMMH team might provide under the AAB task (#1).
9. FLL_ANAC_Noise_101_Basic_Terminology.pdf. This report is another example of the type of topical presentation HMMH prepares for quarterly meetings of the FLL ANAC, and is an example of a type of presentation the HMMH team might provide under the quarterly AAB task (#1).
10. Federal Interagency Committee on Aviation Noise (FICAN).htm. This website, which HMMH constructs and maintains under its role as the coordinating consultant for “FICAN,” the committee that coordinates federal agency research into noise effects. The website includes links to HMMH-prepared research studies and reports. It is an example of types of support the HMMH team might provide under the outreach and on-call tasks (#3 and #4).
11. Federal Interagency Committee on Aviation Noise (FICAN)_files. This folder contains files used with the preceding item.
12. HPN_1st_Airspace_EIS_Comment_Memorandum.pdf. The report is an example of the type of detailed noise analysis and documentation that HMMH might conduct under the on-call task (#4) related to FAA airspace redesign activities, that might affect established noise abatement procedures at FXE, as they did at Westchester County Airport (HPN), another airport (primarily general aviation) at which HMMH has been the noise consultant for 26 years.
13. HPN_2nd_Airspace_EIS_Comment_Memorandum.pdf. Another HPN example related to the very controversial FAA airspace redesign.
14. Joint Planning and Development Office (JPDO).htm. This website, which HMMH constructed and maintains under its role supporting the federal government’s “Joint Planning and Development Office” (JPDO) for the development of the “NEXTGEN” air transportation system. It is an example of type of support the HMMH team might provide under the outreach task (#3).
15. Joint Planning and Development Office (JPDO)_files. This folder contains files used with the preceding item.
16. LAX_Roundtable_ACRP_DNL_65.pdf. This report is an example of the type of topical presentation HMMH prepares for bi-monthly meetings of the Los Angeles International Airport (LAX) / Community Noise Roundtable that HMMH moderates and supports for Los Angeles World Airports (LAWA). It is an example of a type of presentation the HMMH team might provide under the quarterly AAB task (#1).
17. LAX_Roundtable_Noise_101_Basic_Terminology.pdf. Another example of the type of topical presentation that HMMH prepares for LAX / Community Noise Roundtable meetings, and an example of a type of presentation the HMMH team might provide under the quarterly AAB task (#1).
18. LAX_Roundtable_Part_36_Stage_Classification.pdf. A third example of the type of topical presentation that HMMH prepares for LAX / Community Noise Roundtable meetings, and an example of a type of presentation the HMMH team might provide under the quarterly AAB task (#1).
19. LAX_Roundtable_US_China_Aviation_Symposium.pdf. A fourth example of the type of topical presentation that HMMH prepares for LAX / Community Noise Roundtable meetings, and an example of a

- type of presentation the HMMH team might provide under the quarterly AAB task (#1).
20. PBC_DOA_Helicopter_Operator_Forums.pdf. HMMH has provided noise consulting services for 20 years for the four airports operated by the Palm Beach County Department of Airports (DOA), under arrangements similar to the current City procurement for FXE. This report is an example of a special study HMMH prepared for the DOA, to promote awareness of and compliance with helicopter noise abatement procedures. It is similar to the types of services the HMMH team might provide under the outreach and on-call tasks (#3 and #4). *(Note that it includes information on FXE helicopter procedures.)*
 21. PBI_2007_Annual_Report.pdf. This report, also for the Palm Beach County DOA, is an example of a detailed annual report which HMMH prepares for Palm Beach International Airport (PBI). It presents analyses and documentation similar to those the city might request under any of the four task areas.
 22. PBI_CCAN_2007_Annual_Report_Presentation.pdf. This file is an example of a summary presentation made to the PBI Citizens' Committee on Aircraft Noise" (CCAN) (on the preceding report), and is an example of a type of presentation the HMMH team might provide under the quarterly AAB task area (#1).
 23. PBI_CCAN_Fanning_Assessment.pdf. This file is another example of a summary presentation made to the PBI CCAN on the implementation and benefits of a noise abatement procedure, and is an example of an analysis and type of presentation the HMMH team might provide under the quarterly AAB and on-call tasks (#1 and #4).
 24. SUA_2009_FAC_Noise_Abatement_and_Community_Affairs_Award.pdf. This is one of the two awards which were presented (in part) to HMMH and Hanson, for their roles in the Martin County Airport / Witham Field (SUA) Noise Abatement Departure Profile (NADP) Demonstration Project, as discussed in Section 4.1.
 25. SUA_2009_FDOT_Award_for_NADP_Demonstration.pdf. The second of the two awards which were presented, in part, to HMMH and Hanson, for their roles in the SUA NADP Demonstration Project, as discussed in Section 4.1.
 26. SUA_ANAC_NADP_Results.pdf. This file is an example of a summary presentation made to the SUA Airport Noise Advisory Committee (ANAC) on the NADP demonstration project, and is an example of a analysis and type of presentation the HMMH team might provide under the quarterly AAB and on-call tasks (#1 and #4)
 27. SUA_NOMS_RFP.pdf. This report is an example of a recent noise and operations monitoring system specification including acceptance testing, for SUA, similar to the type of assistance the City might require under the noise monitoring task (#2).
 28. VNY_Noisier_Aircraft_Phaseout_EIR_Noise_Technical_Report.pdf. This report is an up-to-date example of a very thorough HMMH noise exposure analysis, in this case a state "Environmental Impact Report" (EIR) for Van Nuys (CA) Airport (VNY), related to a proposed noise abatement rule, of the type the City may request the HMMH team to prepare under the on-call task (#4). VNY is a general aviation facility with operational, fleet mix, community, and other noise characteristics similar to FXE. SH&E was a subcontractor to HMMH on this project.
 29. WWW_VANNUYSPART161_COM.htm. This link is to a project-specific website of the type on which the HMMH team might provide support to the City under the outreach task (#3).
 30. WWW_VANNUYSPART161_COM_files. This folder contains files used with the preceding item.

6.4 Subconsultant Qualifications and Experience

To augment HMMH's experience and capabilities, our proposal includes four subconsultants with directly relevant experience in key technical areas. Short descriptions of each firm are provided below.

Air Traffic Experts (ATE)

ATE was founded four years ago to provide exceptional independent consultation that requires extensive corporate knowledge of air traffic control operations, rules, airspace and procedures, noise alternatives, and developing air traffic control scenarios.

ATE has provided services regarding aircraft accidents, provided an air traffic evaluation for a company trying to obtain rights to build a new baseball stadium for Boston Red Sox spring training games, completed air traffic evaluation for a client in Las Vegas wishing to build close to the airport, and completed an air traffic evaluation for the City of Fort Lauderdale to determine if feasible to extend hours of noise procedures now in effect.

Mr. Bobby Price's experience is extensive and includes several years as an Air Traffic Controller (FLL, MIA, and ATL), one year as ATC Automation Specialist (MIA), seven years as an Operational Supervisor (MIA), ten years as an Assistant Air Traffic Manager (PBI), and twelve years as an Operations Manager (MIA). For ten years he served as FAA Technical Advisor to the Palm Beach County Citizens Committee against Airport Noise.

ATE will provide assistance related to air traffic control assessments. ATE is providing this same assistance to HMMH for the ongoing EA for extending the hours of the I-95 turn.

Hanson Professional Services (Hanson)

Hanson has provided airport planning, design and construction services for more than 40 years, completing more than 900 assignments for aviation clients at locations throughout the United States. Their aviation staff of more than 50 engineers, planners, surveyors, scientists, and technicians have completed projects in such specialized areas as airport master and layout planning; land use planning; noise and environmental analysis; terminal, hangar, and support structures planning and design; pavement evaluation and design; civil and structural design; and construction services.

Hanson has provided specialized noise and environmental planning and consulting services to general aviation and commercial service airports through-out Florida. Their West Palm Beach and Fort Lauderdale staff have managed and/or participated in more than 50 noise/environmental projects including:

- Part 150 Noise Studies
- Noise assessments
- Environmental assessments, mitigation plans
- Noise assessments/impact reports
- Land-use plans
- Public involvement programs
- Land acquisition and relocation services
- Noise and operations monitoring system procurement installation and management
- Voluntary acquisition program administration
- Sound insulation program administration

Hanson will provide assistance related to local noise measurements, airport planning, noise abatement procedure identification and assessment; ANOMS assessment, upgrade recommendations, upgrade monitoring, and operation; and stakeholder communication.

Montgomery Consulting Group (MCG)

MCG specializes in aviation planning, including airport development planning, encompassing aviation and non-aviation land uses, airport economic development planning, airport environs planning, land use analysis and conceptual site layout for highest and best economic use, facility planning, long-term land use planning and zoning for airport environs using geographic information systems, air cargo planning, MRO planning, general aviation planning, aviation research, cost estimating, DBE support services, and environmental overviews.

MCG staff is quite experienced at consulting for general aviation airports, reliever airports, and international hub airports. The staff is proud of providing quality deliverables that can be counted on to be accurate, timely, and professionally presented.

MCG's recent relevant experience includes:

- Aircraft Noise and Operations Monitoring System (ANOMS) Analysis - Fort Lauderdale-Hollywood International Airport
- Part 150 Study, Land Use/ GIS/ and Plan Production Support - Fort Lauderdale-Hollywood International Airport
- Noise Monitor Assessment - Fort Lauderdale-Hollywood International Airport
- Property Turnover Characteristics in Projected Noise Impacted Area - Fort Lauderdale-Hollywood International Airport
- Guiding Land Use Principles - Fort Lauderdale-Hollywood International Airport
- Environs Plan - Fort Lauderdale-Hollywood International Airport
- Master Plan Update - North Perry Airport
- Master Plan Update - Phase II - Airport Layout Plan Development - Fort Lauderdale-Hollywood International Airport
- Master Plan Update - Phase I - Strategic Economic Development and Land Use - Fort Lauderdale-Hollywood International Airport
- Update Airport Layout Plan - Venice Municipal Airport

MCG will primarily provide assistance related to local land use data collection, geographic information system (GIS) database development, stakeholder outreach and monitoring system assessment and operations. MCG is a certified Woman-Owned Business Enterprise (WBE).

Simat, Helliesen & Eichner (SH&E)

For 46 years, Simat Helliesen & Eichner Inc. (SH&E) has been dedicated to serving the air transportation industry, providing aviation expertise to airports, airlines, governments, international agencies, manufacturers, and financial institutions. The company's core capabilities include airport market analysis, forecasting, air service marketing, economic impact studies and financial planning; cost-benefit analysis of environmental regulations; air cargo studies; airline strategy, fleet and route planning, operations and revenue management; aircraft appraisals, maintenance management, and asset management; safety and security audits; airport privatization; airline mergers,

alliances and financial due diligence. With a staff of more than 100 professionals, SH&E has full service offices in New York, Boston, Washington, D.C., and London, as well as a network of associates world-wide.

With a staff of more than 100 professionals, SH&E has performed more than 6,000 assignments, serving hundreds of airports, airlines, government agencies, and the financial community in all parts of the world. On a yearly basis SH&E performs over 200 projects worldwide and is committed to providing expert and impartial advice. The company's continuous growth has been due in large part to a high level of repeat business from an established client base, testifying to a high degree of customer satisfaction.

The firm's expertise stems from its staff experience, its research efforts, and the quality of the firm's proprietary databases, methodologies, and analytic support. In order to offer clients the highest level of service, SH&E professionals represent all segments of the aviation industry, as well as financial institutions, government organizations, and the academic community.

SH&E has extensive experience with aircraft noise-related issues, having prepared the forecasts and economic analysis for Part 161 studies at Mineta San Jose International, San Francisco International, Portsmouth International Airport, Bob Hope Burbank Airport, Naples Municipal Airport, Van Nuys Airport, and Los Angeles Airport. SH&E has also prepared the detailed aircraft operations forecasts for Part 150 studies and other noise studies at Palm Beach International, San Diego International, Boston Logan International, Hanscom Field and Westchester County Airport. SH&E has partnered with HMMH in all but one of these assignments.

SH&E will prepare assistance related to development of activity forecasts and fleet mixes required for noise analyses, financial analyses, and identification of industry developments that might affect future operations and noise exposure.

Qualifications and Experience on Projects of Similar Scope

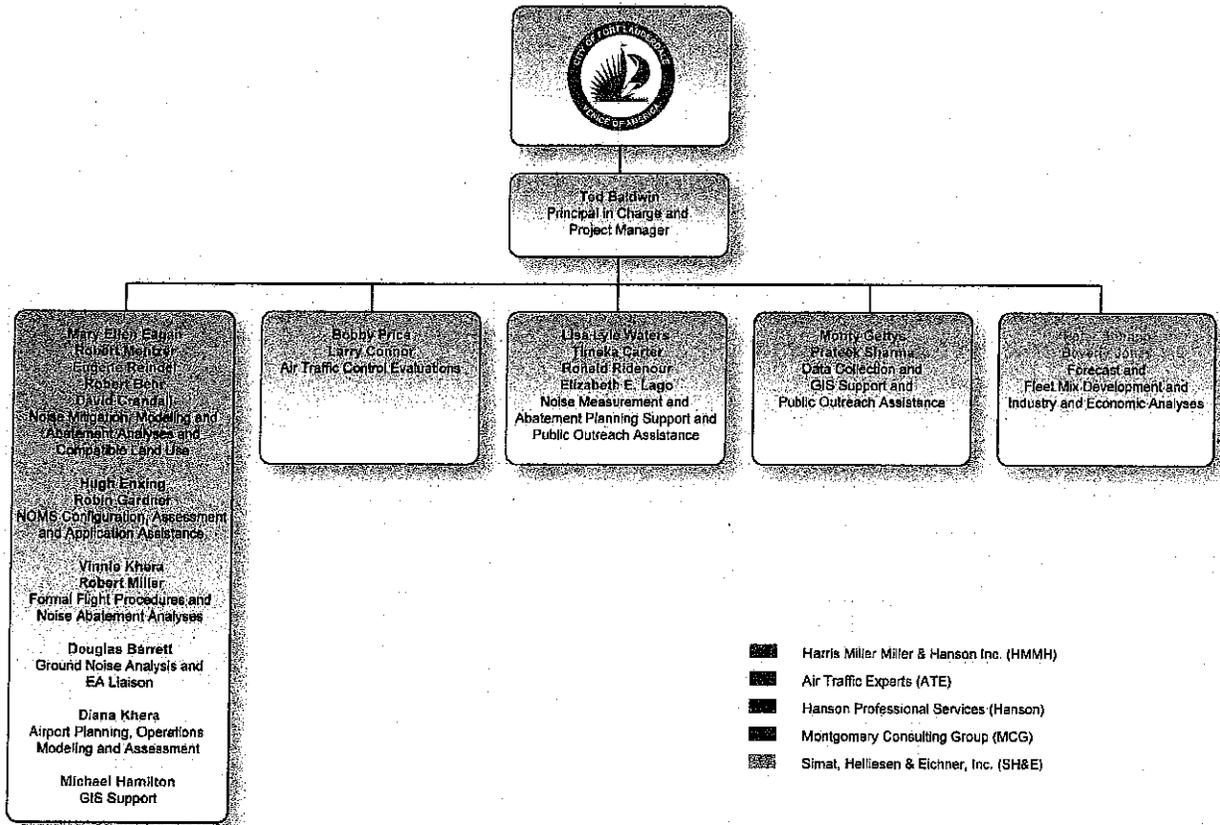


7 Key Project Staff Background

Taken as a whole, the HMMH Team offers unsurpassed qualifications. The success of the project, however, will result from the collective contributions and utilization of highly-qualified *individuals*. We have carefully considered the City needs at FXE and have assembled a team with the direct project experience, technical

knowledge, project management skills, and available work capacity to provide successful, on-schedule projects under this contract. Following the key staff organizational chart we have described each individual's qualifications by firm. *Appendix C provides full resumes for all identified project staff.*

Team Organizational Structure



Ted Baldwin, Principal in Charge and Project Manager

Ted Baldwin has 33 years of experience in airport noise, including 26 years at HMMH. He has managed or been Principal-in-Charge of HMMH assistance to the City of Fort Lauderdale and Fort Lauderdale Executive Airport since 1984.

No other consultant can offer his familiarity with FXE's noise abatement and compatible land use measures, background to their development, and

local issues of concern. He has repeatedly demonstrated his ability to interact effectively with all members of the FXE airport "public," including aviation, residential, government, and other interests. His FXE experience includes:

- The 1986, 1996, and 2002 Part 150 Studies
- Noise elements of the 1986, 1996, and 2002 Master Plan Updates
- 2005 contour update and fleet mix analysis
- Assistance in implementation of the original noise and operations monitoring system (1991)

- Noise analyses for the Environmental Assessment (EA) for initial establishment of the "I-95 turn" noise abatement departure flight track (1993-4)
- Comprehensive review of the noise program implementation and recommendation of improved communication, monitoring, and reporting mechanisms (2008-9)
- Overall responsibility for the EA for extending the hours of the I-95 turn and establishing a Standard Instrument Departure (2009-10)
- Assistance related to review, assessments, and recommendations related to potential developments or changes in land use controls in the FXE environs
- Numerous presentations to the AAB, City Council, City boards, homeowner associations and other community groups, airport users and other aviation interests, and other stakeholder outreach assistance
- Other diverse assistance related to noise program development, monitoring, enhancement, implementation, and communication, on an on-call basis

Mr. Baldwin has led major noise studies at over 60 airports in the U.S. and abroad, including Part 150 studies and program implementation at over 35 airports – representing more than one airport in eight involved in the Part 150 program nationally, and at nine airports in Florida alone.

Through his Part 150 work, he has received an FAA award for "Recognition for Achievement and Excellence" for his "ability to deal objectively with the controversial issue of airport noise," "reflect sensitivity and balance in representing both the pro and con of the noise issue," and "successfully develop noise control programs that are consistent with aviation and community goals."

Mr. Baldwin's consulting qualifications cover a broad range of other airport planning and environmental areas, including: state and federal environmental impact studies, noise elements of Airport Master Plan studies, the design and use of permanent noise and operations monitoring systems, noise measurement and modeling, expert testimony and other related activities.

Mr. Baldwin's prior experience in several responsible staff positions at Massport, operator of Boston-Logan International and L.G. Hanscom Field (Bedford, MA), including noise officer, complement his consulting capabilities.

Perhaps the most meaningful evidence of Mr. Baldwin's qualifications and experience, and the quality of the service he provides to airports comes from stakeholder testimonials. His active involvement on projects at both Fort Lauderdale – Hollywood International (FLL) and FXE has provided him with high visibility in the City among citizens active on noise issues. The introduction to Section 6 included one such testimonial from a Fort Lauderdale resident. The following testimonial is from a second:

"I have been on the Noise Abatement Committee (ANAC) for over 17 years. I have seen many consultants come and go and by far the best for FLL is HMMH and Ted Baldwin.

"With Ted's help, the ANAC has made major progress in recent years. Ted has always acted in a totally factual and unbiased manner. We always know Ted will tell us the truth."

Bud Johnson, City of Fort Lauderdale resident and FLL ANAC member

Mary Ellen Eagan, Noise Abatement, Compatible Land Use, and Noise Abatement Analyses

As President of HMMH, Ms. Eagan can assure the Department that appropriate resources of the company will be available to conduct this project in a cost-effective and timely manner.

Mary Ellen Eagan specializes in aviation noise analysis. Her experience includes 14 CFR Part 150 studies, state and federal environmental evaluations, comprehensive field measurements and state-of-the-art noise modeling. She also provides on-call noise consulting at a number of airports, assisting them with responding to day-to-day noise issues.

Ms. Eagan serves as consultant to the Federal Interagency Committee on Aviation Noise (FICAN). Ms. Eagan is principal author of all of FICAN's findings and annual reports to date and is the lead investigator for FICAN's study of the effects of aircraft noise on children's learning. Ms. Eagan's recent work on the use of supplemental noise metrics to communicate aircraft noise effects has been widely praised. She received the Transportation Research Board's "Harter Rupert Award for Best Paper in Transportation Noise" at the January 2007 TRB Annual Meeting, *Using Supplemental Metrics to Communicate Aircraft Noise Exposure*.

"In an award-winning paper presented at the annual meeting of the Transportation Research Board in Washington D.C., Mary Ellen Eagan, president of the acoustical consulting firm Harris Miller Miller & Hanson Inc. proposed an idea so innovative and simple that it has the potential to bring about a sea-change in how airport noise issues are discussed with communities and policy makers and in courtrooms"

- *Airport Noise Report*, January 26, 2007

"The industry has always needed ways to make the scientific findings about aircraft noise more understandable to the public and to courts. My hat is off to Mary Ellen for taking the time to think this through and try some objective approaches to mapping noise effects."

- Burr Stewart, Strategic Planning Manager, Port of Seattle

Robert Miller, Formal Flight Procedures and Noise Abatement Analyses

Mr. Miller's consulting activities include managing major projects at Los Angeles, Philadelphia, Logan, and Denver, as well as occasional tasks at several smaller airports. He serves as an expert witness on aviation noise. He is a former Air Force pilot and holds a commercial pilot's license. Mr. Miller managed

the recently completed Part 150 studies at Portland Jetport (ME) and Denver International Airport. His current work for Los Angeles World Airports includes project management of a Part 161 study at Los Angeles International, and overall project direction for the contract that also includes a second 161 study at Van Nuys. His task at Denver involves evaluation of proposed RNAV procedures and their effects on critical noise exposure points west of the airport.

Doug Barrett, Ground Noise Analysis / EA Liaison

Since joining HMMH in 1986, Mr. Barrett has been active in a wide variety of airport ground noise studies throughout North America. His experience in these projects ranges from commuter airline facilities to major air carrier hubs and has involved assessment and abatement of noise sources including engine run-ups, takeoff roll, thrust reverse, taxi and gate operations, auxiliary power units, and ground power units. In addition to being an experienced project manager, Mr. Barrett has an exceptional technical background including comprehensive field data collection, development of noise model inputs, and verification of modeling results.

Mr. Barrett currently is managing HMMH's assistance to the City for preparation of an EA for extension of the hours of the I-95 turn procedure.

Other recent projects include broader aircraft ground noise studies at Port Columbus International, Chicago - O'Hare International, and Anchorage International Airports.

Eugene Reindel, Noise Mitigation and Abatement Analyses

As a Vice President and Manager of HMMH's Sacramento Office, Gene Reindel manages a wide range of noise consulting projects and provides technical support on aviation-related noise studies and noise measurement programs. He also leads HMMH's sound insulation practice. His professional experience includes 14 CFR Part 150 noise/land use compatibility

studies, 14 CFR Part 36 aircraft noise certification measurements, aircraft ground noise studies including low-frequency noise and ground run-up enclosures, and modeling of aircraft operations noise. He is often involved in preparing for and carrying out major field measurement programs and advising on the acquisition and analysis of data. Because of his experience and education, Mr. Reindel is a training leader at HMMH and teaches courses in acoustics, sound measurements, and the FAA's Integrated Noise Model (INM).

Robert Mentzer, Noise Modeling

Mr. Robert Mentzer specializes in environmental noise analyses for airports. He manages HMMH's Aviation Noise Modeling Center for Excellence. Mr. Mentzer is nationally recognized as one of the most experienced users of the FAA's Integrated Noise Model (INM). The FAA has acknowledged that he is the most active contributor to the INM's design review process. He assists in the preparation and presentation of HMMH's INM course, which over 400 students have attended worldwide. Mr. Mentzer has led the preparation of noise contours for over 50 airports, including noise elements of Part 150 Land Use Compatibility Planning Studies, Part 161 Noise and Access Restriction Studies, Environmental Assessments, Environmental Impact Statements, Airport Master Plan Studies, and other studies concerning airport noise.

As the leader of HMMH's "aircraft noise modeling center of excellence," Mr. Mentzer has assisted on essentially every FXE noise contour analysis over the past 15 years, in both quality control and direct modeling roles.

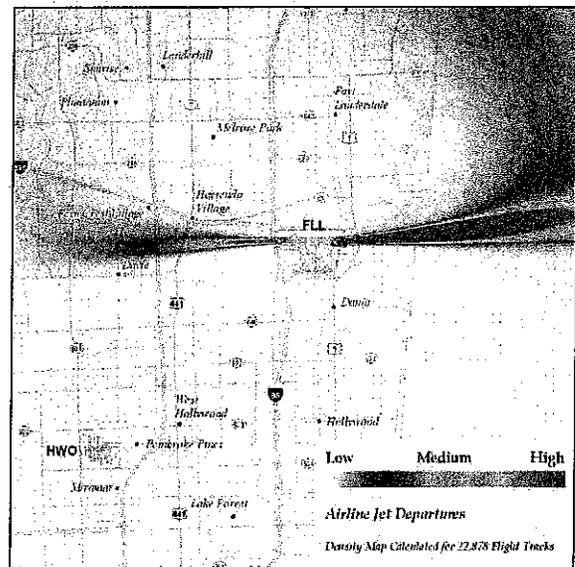
Hugh Enxing, Noise and Operations Monitoring System Configuration, Assessment, and Application Assistance

Mr. Enxing, while at HMMH from 1995 to 2000, architected the reengineering of ANOMS into ANOMS 6 to stabilize the product, make it more robust and supportable, and bring it into Y2K compliance. Mr. Enxing has rejoined HMMH in 2005 to provide system design and

integration of noise contour and flight analysis software products.

Prior to joining HMMH, Mr. Enxing was a freelance consultant developing database-enabled web applications. Mr. Enxing has also provided Lochard Corp. with various support services for ANOMS, and integration of new radar system interfaces with live, animated web presentations.

Mr. Enxing brings the City unparalleled experience and capabilities related to the inner workings of ANOMS and its data acquisition components, ensuring the highest possible accuracy in the application and interpretation of the system's output. His experience includes assisting with FXE ANOMS support, upgrades, and applications since 1995.



Flight Track Density Graphic for FLL Fly Quiet Report

Robin Gardner, Noise and Operations Monitoring System Configuration, Assessment, and Application Assistance

Robin Gardner joined HMMH in 2007. She has four years of experience performing noise measurements, analysis, and community outreach. Ms. Gardner is an experienced user of noise and operations monitoring systems, including Lochard Corporation's ANOMS™. Before joining HMMH, Robin led the Seattle/Tacoma International Airport's upgrade

from GEMS to ANOMS 8. Her tasks at SEA as a noise abatement officer included scoping, testing, and implementing ANOMS 8.

Ms. Gardner's consulting assignments involve optimization of routine ANOMS tasks to enhance noise office performance. She currently leads the production of Fly Quiet Reports for both Fort Lauderdale International and Oakland International Airports. These reports require gathering ANOMS and radar data, performing quality assurance checks, and processing the data into quality charts and graphs.

Vinnie Khera, Airspace Procedures

Mr. Khera has worked with federal, state, and local governments and community groups to find balanced solutions to issues involving the effects of new capacity enhancing technologies and policies on the environment. Mr. Khera is also an expert witness in airfield and airspace operations with hands-on experience with modeling tools such as the Total Airspace and Airport Modeler (TAAM), Terminal Area Route Generation Evaluation and Traffic Simulation (TARGETS) and the Sector Design and Analysis Tool (SDAT).

Mr. Khera brings a strong air traffic technology perspective and a deep understanding of the evolving National Airspace System structure complemented with his environmental planning background. He has vast experience in the application of various analytic and programmatic solutions to help medium to large scale organizations establish a management approach for successful programs. His in-depth working knowledge of Air Traffic Organization (ATO), Joint Planning & Development Office (JPDO), and Office of Management & Budget (OMB) requirements provides multifaceted solutions to programmatic issues.

Diana Khera, Airport Planning, and Operations Modeling and Assessment

Ms. Khera is the Director of Airport and Airspace Planning at HMMH. Ms. Khera specializes in working with FAA, NASA, the military, and a variety of non-federal aviation

stakeholders on issues relating to aviation capacity expansion, ATM technology implementation, and aviation related environmental protection topics. Ms. Khera has expertise in airfield and airspace operations of both complex commercial airports as well as smaller GA airports. Ms. Khera is one of the veteran users of the Total Airspace and Airport Modeler (TAAM) and has been an active TAAM user group participant and has been influential in working with the developers of TAAM to constantly better and upgrade the tool to suit the complex needs of airport design.

Ms. Khera led and participated in numerous airport expansion projects where she worked with state and regional governments, airport owners, airport tenants, local communities, and opponents of airport expansion plans that would satisfy often conflicting interests of various stakeholders. She has in-depth understanding of the evolving National Airspace System structure. She conducted comparative case studies of the effectiveness of the Free Flight technologies, and participated in drafting of a Concept of Operations for the New York Integrated Complex and the Consolidated Sun Coast TRACON.

Bob Behr, Aircraft Noise and Performance Analyses

Bob Behr specializes in acquisition and analysis of environmental noise and vibration data for airports. His professional experience includes extensive field measurements of noise and vibration with a variety of metrics and instrumentation, and analysis of collected noise and vibration data, including modeling of noise levels using the INM.

Mr. Behr has led noise measurement and modeling studies at the Martin County, Vero Beach, and Fort Pierce airports in Florida, working with Hanson staff in all three locales.

David Crandall, Aircraft Noise and Performance Analyses

David Crandall has participated in a variety of aircraft noise related projects ranging from

preparing environmental assessments / environmental impact statements (EA/EIS), 14 CFR Part 150 studies, residential sound insulation/field testing, and airport noise monitoring system analysis. He manages major elements of complex projects including aircraft noise modeling, radar data analyses, and airline fleet analyses. He contributes to public meetings and participates in documenting and presenting project results. Mr. Crandall is an experienced user of the Federal Aviation Administration's (FAA) airport noise models, the Integrated Noise Model (INM) and the Area Equivalent Method (AEM), and airspace noise model, the Noise Integrated Routing System (NIRS).

Mike Hamilton, GIS Support

Mr. Hamilton's experience at HMMH encompasses a wide variety of transportation noise-related GIS, CAD, and graphics applications, including noise contour creation and overlay, noise sensitive mapping, land use mapping, noise barrier mapping, and noise mitigation mapping. Mr. Hamilton brings to HMMH nearly 10 years of experience in environmental, transportation and land development consulting practice utilizing GIS applications. In this capacity, he utilized GIS to support environmental compliance and development projects. Mr. Hamilton's experience also includes the organization, collection, and creation of spatial data to meet project requirements, develop database queries based on geographic references, and produce thematic maps as output.

HMMH has 40 technical staff upon whom Mr. Baldwin can call depending on specific services desired by the City and the timing of specific projects. Our key subconsultant staff members provide additional "depth-on-the-bench."

Air Traffic Experts staff will provide air traffic control evaluations.

As a manager for Air Traffic Experts for the past four years, **Bobby Price** has provided services through FOIA Request regarding aircraft

accidents, provided an air traffic evaluation for a company trying to obtain rights to build a new baseball stadium for Boston Red Sox spring training games, completed air traffic evaluation for a client in Las Vegas wishing to build close to the airport, and completed air traffic evaluation for the city of Ft. Lauderdale to determine if feasible to extend hours of noise procedures now in effect. Prior to managing ATE, Mr. Price spent several years as an Air Traffic Controller (FLL, MIA, ATL), one year as ATC Automation Specialist (MIA), seven years as an Operational Supervisor (MIA), ten years as an Assistant Air Traffic Manager (PBI), and twelve years as an Operations Manager (MIA). Mr. Price also served ten years as FAA Technical Advisor to the Palm Beach County Citizens Committee against Airport Noise.

Hanson Professional Services staff will provide noise measurement and abatement planning support and public outreach assistance

Lisa Lyle Waters, Senior Aviation Planner / Senior Project Manager, holds a B.S. degree in Aviation Management and an A.S. degree in Flight Technology from Florida Institute of Technology. She is an instrument trained commercial pilot. Mrs. Waters was an owner of The MEA Group, Inc. – a Florida based DBE airport planning and engineering firm until selling the company to Hanson Professional Services Inc. in 2007. Mrs. Waters leads the firm's Florida aviation group, from the firm's West Palm Beach office.

Mrs. Waters is a senior aviation planner and project manager, specializes in aviation noise studies, airport noise abatement and mitigation program development and implementation, environmental and master planning, and community involvement program development and facilitation. She has served in both the private and public sectors, acting as Assistant Director of Noise Abatement & Technical Services for the Palm Beach County Department of Airports from 1990 through 2000.

Her experience includes managing and conducting airport and aviation master plans and

Part 150 noise/land use compatibility studies involving extensive community participation, detailed technical analysis, and implementation programs.

Timeka Carter, Aviation Planner, has been with Hanson since 2007. Prior to that, she was a planner with The MEA Group, Inc. Ms. Carter's experience includes assisting senior staff and project managers with the conduct and coordination of aviation planning studies including airport master plans, Part 150 studies, environmental assessments, sound insulation and land acquisition programs, community involvement and other noise-related projects.

Ms. Carter is trained in Geographic Information Systems (GIS 9.0) and the FAA's Integrated Noise. Ms. Carter provides high level technical support for noise operations monitoring systems (ANOMS version 8.8) at air carrier and general aviation airports including Fort Lauderdale-Hollywood International Airport and Martin County Airport / Witham Field. Ms. Carter works from the firm's West Palm Beach, Fla. and Shreveport, La. Offices.

Ronald Ridenour, Jr., Project Coordinator, has been with Hanson since 2007. Prior to that he was a project manager with The MEA Group (since 1995). Ron is a project coordinator and assistant design manager, primarily serving the aviation market. His experience includes project management and coordination services for design and construction projects, roadway technical designs, custom database application development, GIS application mapping, stormwater management, regulatory agency permitting, resident construction inspection, real property acquisitions and land surveys.

Elizabeth E. Lago, Aviation Designer, has over 20 years experience in civil engineering emphasizing public sector infrastructure projects primarily on aviation projects as project engineer, and CADD/land development design and drafting. She holds a B.S. degree in Civil Engineering from the University of Yucatan and an A.A. degree from International Fine Arts College. She is a registered Civil Engineer in Mexico and is fluent in Spanish and English.

Ms. Lago's project experience encompasses plan preparation and engineering services. She was project engineer for aviation projects developed as part of the general engineering consultant's agreement for Broward County Aviation, which includes providing services for Fort Lauderdale-Hollywood International Airport and North Perry General Aviation Airport in addition to general engineering consultant agreement contracts for Pompano Beach Airpark and St. Lucie County International Airport.

Montgomery Consulting Group staff will provide data collection and GIS support and public outreach assistance

Monty Gettys has over 26 years experience in aviation planning for air carrier and general aviation airports. She has extensive planning experiences including master plan and airport layout plan development, feasibility studies, aviation forecasting, demand/capacity and alternative analyses, and capital improvement program development at general aviation and air carrier airports. Ms. Gettys has significant recent and relevant experience with on- and off airport land use compatibility planning, environmental assessments, public outreach, airport economic development, airport business planning, and cost consulting expertise for airside and landside projects.

Prateek Sharma is an Aviation Planner with over five years experience in land use and impact analysis, GIS, urban planning, architecture asset management systems and noise monitoring. Since joining Montgomery Consulting Group as an aviation planner in 2004, Mr. Sharma has been responsible for noise monitoring at Fort Lauderdale – Hollywood International Airport and has ongoing responsibilities to assist BCAD's noise officer.

SH&E staff will provide forecast and fleet mix development and industry and economic analyses.

Peter Stumpp, Vice President, will lead tasks involving fleet mix development, forecasting, and industry trend analyses. In his 21 years at SH&E, Mr. Stumpp has specialized in

forecasting, market analysis, cargo, and noise studies. He regularly assists HMMH in preparing forecasts for airport noise studies, including Part 150 and Part 161 studies. He currently is assisting HMMH with the fleet mix development, forecasting, and industry trend analyses for noise studies at Los Angeles (CA) International Airport, Naples (FL) Municipal Airport, and Van Nuys (CA) Airport. Mr. Stumpp also worked with HMMH at Westchester County Airport, preparing forecasts and industry analyses to meet New York State Environmental Quality Review Act (SEQRA) requirements related to potential revisions to the HPN Terminal Capacity Agreement.

Other recent experience includes analyzing competition between legacy and low-cost airlines to forecast passenger demand at a major US airport, estimating the economic impact of a proposed runway extension project at a Canadian airport, analyzing the outlook for international cargo traffic at a major US gateway airport, and forecasting the demand for all cargo operations at a joint use airport in Texas. Other assignments have included assessing the feasibility of an airport and intermodal cargo center in Louisiana, evaluating US and European operations of an international ground handling firm, preparing a strategic plan for a leading airport equipment manufacturer, evaluating alternative US hub site locations for DHL Airways, forecasting freight traffic and cargo facility requirements at Chicago O'Hare and Boston Logan airports, and analyzing the demand for specific types of freighter aircraft.

Beverly Jones, Vice President, will assist with fleet mix, forecasting and industry trend analyses. Ms. Jones has more than 23 years at SH&E analyzing the economics of the air transportation industry. Like Mr. Stumpp, she regularly assists HMMH with fleet mix development, forecasting, and industry trend analyses for airport noise studies, including a current assignment for a precedent-setting Part 161 noise study at Van Nuys (CA) Airport, where the HMMH/SH&E team is considering a dozen alternative use restrictions.

She has directed forecasting and economic analyses for a number of major, high profile studies at airports in the US and throughout the world. Her areas of expertise include market demand analysis, aviation activity forecasting, airport system planning, and air service marketing. She has prepared numerous airport activity forecasts for airports ranging from large hubs to reliever and GA airports.

8 Task Area Descriptions

The HMMH team understands that the City may request services for a broad range of noise-related assignments under the four general categories in RFP Part IV. That RFP section identifies a number of specific tasks that those services might include, but not be limited to. As requested in RFP Part V §5.03, this section discusses an overall approach to specific tasks.

We understand that the City will identify specific tasks for the selected Airport Noise Abatement Consultant to perform, and require the Consultant to prepare detailed scope of work and budget proposals on a task-by-task basis. The following descriptions provide concise descriptions of the HMMH team's overall approach, and highlight examples of similar services that we have provided to other clients.

8.1 Task Area 1: Quarterly AAB Presentation

As discussed in Section 6.1.1, HMMH team members assist numerous airports throughout the U.S. with ongoing airport advisory committees on noise-related issues. These committees have a variety of names, such as "Airport / Community Noise Roundtable," "Airport Noise Advisory Committee," "Airport Noise Abatement committee," "Citizens Advisory Committee," "Citizens Committee on Aircraft Noise," "Noise Compatibility Committee," "Technical Advisory Committee." In Florida alone, HMMH, assisted by Hanson, MCG, and SH&E are assisting noise committees at Fort-Lauderdale Hollywood International, Naples Municipal, Palm Beach International, Martin County Airport / Witham Field, and have recently assisted at Palm Beach County Park (Lantana). Outside Florida, HMMH currently supports noise advisory committees at over a half-dozen additional airports.

We enthusiastically endorse the City's interest in developing and conducting noise quarterly presentations to the Aviation Advisory Board. While Ted Baldwin has assisted FXE staff to make such presentations on a project-specific basis in the past, we support the concept of

making a noise-related presentation a regular agenda item.

The RFP specifically identifies two ongoing services under this task area:

- Develop presentation and prepare for quarterly meeting.
- Attend quarterly meeting, conduct presentation, and answer questions.

The HMMH team proposes to conduct the following tasks to address these requirements.

- Task 1. Develop Initial List of Topics and Presentation Plan
- Task 2. Develop Presentation and Prepare for Ongoing Quarterly Meetings
- Task 3. Attend Quarterly Meetings, Conduct Presentations, and Answer Questions

These tasks are discussed more fully below:

Task 1. Develop Initial List of Topics and Presentation Plan

As a starting point, we recommend that the first two AAB presentations be focused on working with the City, FXE staff, and the AAB to develop a list of topics to present over the first year to 18 months. Following that initial period, we assume the list of topics would evolve based on discussions at ongoing meetings and on issues of interest that arise. We also recommend working with the AAB to identify specific objectives for the presentations, so that they are more than simply briefings. Rather, we suggest that they be part of a noise-related AAB "work program," aimed at identifying and working in a collaborative manner toward achieving improvements in the FXE noise program, though improved AAD understanding of and involvement in the noise program.

We recommend that Ted Baldwin of HMMH and Lisa Waters of Hanson prepare a draft presentation for the first AAB meeting. The first step in drafting the presentation would be a telephone conference call with FXE and City staff as relevant, to identify items of interest to

the AAB, issues of relevance to the FXE situation, noise-related issues discussed at previous AAB meetings, and likely upcoming issues of potential concern.

The presentation also would take into account topics that team members have presented to other airport advisory groups that are relevant to the current and anticipated situation at FXE, which those other groups found of value, and which could take advantage of previously prepared materials.

Mr. Baldwin and Ms. Waters would draft the presentation, submit it to the City / FXE for review and comment, and finalize it. They would attend the meeting, make the presentation, answer questions, and guide the discussion related to development of a list of preferred topics.

Following the presentation, Mr. Baldwin and Ms. Waters would develop a memorandum that summarized the topics identified in the discussion. The memorandum will recommend a schedule for making future presentations, based on levels of interest expressed in the first meeting, the timeliness of issues identified, ready accessibility of information required for preparing the presentations, and other relevant priorities. It will identify research that might be required to prepare the presentations. Finally, the memorandum will recommend the appropriate presenter for each topic.

Mr. Baldwin and Ms. Waters would attend the second AAB meeting to present the memorandum, answer questions, and obtain feedback. Following the meeting, they would refine the presentation plan to take into account feedback and suggestions received.

Task 2. Develop Presentations and Prepare for Ongoing Quarterly Meetings

Based on the results of the presentation plan developed in Task 1, the project team members will prepare the presentations in the order identified. The presentations will be in PowerPoint format. The assigned team member will prepare the draft, review it with HMMH,

then submit it to FXE and City staff for review and comment, then revise and finalize the presentation based on FXE and City staff input.

Task 3. Attend Quarterly Meetings, Conduct Presentations, and Answer Questions

We anticipate that an HMMH staff member, most often the Principal-in-Charge, Ted Baldwin, will attend each AAB meeting. He will likely make a majority of the presentations. However, when appropriate for the topic, he will be assisted by – or, with City approval, substituted for – another HMMH team member, who has particular knowledge, experience, or other qualifications related to a particular topic.

For budgeting purposes, we assume that half of all presentations will require a second attendee. For example, we anticipate that:

Lisa Waters of Hanson Professional Services might assist in presentations that draw on her prior experience as a Director of Noise Abatement and Community Affairs and Technical Services for the Palm Beach County Department of Airports, or her extensive experience assisting airports in Florida to develop and implement noise abatement and compatible land use programs, and evaluate and report on noise program activities and progress.

Bobby Price of ATE might provide presentations on air traffic control or airspace design factors that affect establishment or implementation of noise abatement procedures

Doug Barrett of HMMH, who leads the firm's surface transportation group that addresses aircraft ground noise sources, such as taxiing and maintenance runups, might address issues related to the effects and mitigation of ground noise sources.

Mary Ellen Eagan of HMMH might report on advancements in understanding of aircraft noise metrics and effects, through her role as the lead consultant for the Federal Interagency Committee on Aircraft Noise (FICAN) through which federal research and standards setting in these areas are coordinated.

Peter Stumpp of SH&E might report on aircraft technology, aviation industry performance trends, and world, U.S., and local economic issues as they relate to aircraft noise.

The work product samples discussed in Section 6.3 provide numerous examples of presentations made to other committees, including:

Presentations to the Fort Lauderdale – Hollywood International Airport (FLL) Airport Noise Abatement Committee (ANAC)

FLL_ANAC_FAA_Reauthorization.pdf: A summary of noise-related provisions of the U.S. Congress' draft aviation funding reauthorization.

FLL_ANAC_Noise_101_Basic_Terminology.pdf: An introduction to basic airport noise terminology.

FLL_ANAC_Noise_102_Noise_Effects.pdf: A summary of noise effects on human activity, annoyance, health and land use compatibility

Presentations to the Los Angeles International (LAX) Airport / Community Noise Roundtable

LAX_Roundtable_ACRP_DNL_65.pdf: A summary of the study that HMMH completed for the Transportation Research Board (TRB) Aerospace Cooperative Research Board (TRB) on airport noise programs that address exposure outside of 65 decibels (dB) Day – Night Average Sound Level (DNL).

LAX_Roundtable_Noise_101_Basic_Terminology.pdf: An introduction to basic airport noise terminology used in California – which differs from the rest of the U.S.

LAX_Roundtable_Part_36_Stage_Classification.pdf: A summary of the development and meaning of the various Part 36 “Stage” classifications that define the noise emission levels that aircraft must meet to be “type certified” for operation in the U.S.

LAX_Roundtable_US_China_Aviation_Symposium.pdf: A summary of issues discussed at this international symposium as they might affect LAX aircraft operations and noise levels.

Presentation to the Naples Municipal Airport (APF) Technical Advisory Committee (TAC)

APF_TAC_Noise_Abatement_Options.pdf: A presentation on noise abatement flight track and departure procedure options, undertaken in a Part 150 noise abatement study that HMMH, MCG, and SH&E are conducting for the airport.

Presentations to the Palm Beach International Airport (PBI) Citizens Committee on Aircraft Noise (CCAN)

PBI_CCAN_2007_Annual_Report_Presentation.pdf: A summary of the results presented in the comprehensive annual noise program that HMMH assists the Palm Beach County Department of Airports to prepare for PBI.

PBI_CCAN_fanning_assessment.pdf: A summary of an assessment that HMMH conducted for the DOA on the prior and reinitiated use of multiple departure headings (fanning) and the associated noise impacts.

Presentation to the Martin County Airport / Witham Field (SUA) Airport Noise Advisory Committee (ANAC)

SUA_ANAC_NADP_Results.pdf: A presentation by HMMH and Hanson on the Noise Abatement Departure Profile (NADP) demonstration that the firms conducted with ANAC involvement, for which the airport won awards from both the Florida Department of Transportation (FDOT) and the Florida Airports Council (FAC).

8.2 Task Area 2: Noise Monitoring Terminals and Equipment

As discussed in Section 6.1.2, HMMH team members have exceptional experience related to the assessment and operation of existing noise and operations monitoring system (NOMS) installations, and the design, specification, procurement, installation monitoring, and acceptance testing of new or upgraded systems.

HMMH has direct experience with these services at FXE that no other firm can provide, since the firm has been directly involved with the FXE ANOMS installation since its

inception. In fact, Ted Baldwin was directly responsible for the system's installation. He recommended the City obtain the system to address a pressing noise issue in 1991, and arranged for the City to be the "beta" installation for the ANOMS product, at a very favorable price. HMMH subsequently bought the ANOMS business and from 1995-2001 provided support services through the "Y2K" transition. HMMH and MCG support Broward County's ANOMS installation at FLL, and Hanson staff members have extensive ANOMS installation and operations support experience.

The RFP identified two potential categories of assistance under this task area:

- Develop technical specifications and recommendations for noise monitoring terminals and systems, including acceptance testing.
- Conduct noise monitoring services, as necessary.

Based on our understanding of the City's needs at FXE, we have identified assistance that team members might be most likely to provide in three categories:

- Short term: Assist in assessing the condition of the permanent noise monitor installations, needs for hardware replacement and refurbishment, and developing an action plan to implement the recommendations.
- Long-term: Potentially assist with the development of specifications for a replacement NOMS installation.
- Ongoing: Assist FXE in ANOMS operation and application on an as-needed basis.

These task areas are discussed more fully below.

Assist in assessing the condition of the permanent noise monitor installations, hardware replacement and refurbishment needs, and developing an action plan to implement the recommendations.

The FXE ANOMS includes six permanent remote noise monitoring terminal (RMT) installations. These RMT installations have been in continuous operation for nearly two

decades. Three primary factors justify a detailed assessment of the RMT installations:

- Local phone companies are changing arrangements and charges related to data transfer. The existing hardware may not be compatible with future arrangements.
- The ANOMS vendor may cease supporting the FXE noise monitors.
- It has been several years since the City assessed the RMT locations and coverage.

In light of these issues, the HMMH team recommends the following related actions:

- Identify and assess hardware options for replacing the existing noise monitors that are compatible with the ANOMS software, address current and potential future communications mechanisms, are likely to be manufactured and supported into the foreseeable future, and meet the City's current and future measurement needs.
- Assess the RMT installations to identify other potential refurbishment or upgrade requirements.
- Identify and assess options for the City to replace the noise monitors and address refurbishment requirements, including phasing and funding considerations.
- Assess RMT installations in terms of overall geographical coverage and in terms of local siting issues, such as access, security, and background noise levels.

The HMMH team proposes to conduct the following tasks to address these requirements.

Task 1. Conduct Site Reviews of All RMTs

Prateek Sharma of MCG, who is actively involved in the FLL ANOMS support task, will visit all existing RMT installations to conduct an on-site assessment of their physical condition. He will start this field work by meeting with FXE staff to obtain information they may have about the physical condition of each RMT, any past or ongoing performance issues, and any other items that are relevant to site assessments. Ted Baldwin will participate via phone.

In conducting the site assessments, Mr. Sharma will take photographs of the installations to document their condition and highlight any issues of concern.

Mr. Sharma will prepare a memorandum assessing the results of his assessment, including relevant photographs and notes as appropriate to identify issues of concern.

Task 2. Identify Hardware Options Available for Replacement of Noise Monitors

Mr. Baldwin, assisted by Robin Gardner of HMMH and by HMMH instrument lab staff, will identify and assess RMT hardware available in the marketplace that can be considered for potential use in the FXE ANOMS. The assessment will consider the following factors:

- Compatibility with current and potential future communications mechanisms, taking into account likely industry trends toward internet-based communications and any advances foreseen by the ANOMS vendor (now Lochard / Brüel and Kjær).
- Compatibility with the FXE ANOMS software, again taking into account any advances anticipated or planned by the ANOMS vendor.
- Likelihood that the units will be manufactured and supported into the foreseeable future, and that meet the City's current and potential future noise measurement needs.
- Additional capabilities offered by the RMTs that might be of value to the City and that are compatible with current or potential future ANOMS capabilities.
- Price, reliability, other user experiences.
- Issues of concern to the City.

HMMH will prepare a brief memorandum summarizing the results of these assessments.

Task 3. Assess Current RMT Installation Locations and Overall Geographic Coverage

Mr. Baldwin, assisted by Hanson staff will assess the current RMT installations in terms of

local siting issues, such as access, security, and background noise levels, to determine if problems have developed that make any existing sites unsuitable.

They also will consider the of overall geographical coverage of the existing sites, to determine if there are reasons to consider adding or relocating monitors to best address the FXE noise program needs.

HMMH and Hanson will prepare a brief memorandum to summarize the results of the assessments and site investigations, and present recommendations for sites to consider.

Task 4. Develop and Present Action Plan

HMMH and Hanson will prepare a final memorandum that suggests an overall action plan for the City to consider that addresses the items identified in the preceding tasks, including recommendations in the following areas:

- Refurbishment of existing RMT installations.
- Replacement of the noise monitor hardware at the existing RMT locations.
- New or relocated RMT installation locations.
- Phasing options and recommendations related to RMT refurbishment, monitor replacement, and addition of new RMTs.
- Funding options (e.g., to take advantage of potential FAA or FDOT funding assistance).
- Other issues that the City identifies for consideration or that the HMMH team identifies in the course of this assignment.

Potentially assist with development of specifications for a replacement NOMS.

It is possible that during the term of this consulting contract circumstances might arise that would lead the City to consider replacement of the ANOMS installation. Such a replacement would be very costly and disruptive. We do not believe it is required or justified at this time. However, should that situation arise, it would require the performance of a more thorough system design, specification, procurement, installation monitoring and acceptance process.

As discussed in Section 6.1.2, the HMMH team can provide the City unmatched qualifications and experience in this area, in which HMMH is recognized throughout the industry as the leader.

Because of the limited likelihood of this situation arising, and uncertainty regarding the specific assistance that might be required, we have not prepared a detailed scope. However, as discussed in Section 6.3, we have provided a work product example for a similar project on which HMMH and Hanson recently teamed; i.e., a NOMS design, specification, procurement, installation monitoring and acceptance process for Martin County Airport (work product sample "SUA_NOMS_RFP.pdf").

The two firms collaborated on the system design, HMMH took the lead in development of the specifications, Hanson will take the lead in day-to-day acceptance testing, and HMMH will provide high-level final acceptance support.

Potentially provide FXE staff with ongoing assistance in ANOMS operation and application on an as-needed basis.

FXE staff members are highly proficient ANOMS users. However, it is possible that demands on their time, special project needs, or other circumstances might make it necessary for them to seek assistance with some level of day-to-day or project-specific support. HMMH could provide this support in a highly cost-effective manner remotely, through a secure Internet or "VPN" link.

In addition, both Hanson and MCG staff have extensive experience supporting ANOMS operations, including current Hanson support to Martin County Airport, and current MCG support (through HMMH) to FLL's noise office.

Due to the highly speculative nature of this assistance, a specific scope cannot be suggested and no work product samples can be offered.

8.3 Task Area 3: Outreach Programs

As discussed in Section 6.1.3, HMMH team members have extensive experience – often

working together – to assist clients to develop outreach programs that meet specific needs.

The RFP specifically identifies three potential categories of outreach assistance the City might seek under this task area:

- Develop outreach programs.
- Conduct portable noise monitoring services for residents, if necessary.
- Assist with preparation for public meetings.

The discussion in Section 6.1.3 provided detailed examples of the types and scopes of efforts that might be undertaken under the first and third bullets. For conciseness, those prior discussions are not repeated here. Due to the speculative nature of these categories of assistance, specific scopes cannot be suggested.

The second bullet is discussed below.

Conduct noise monitoring services with portable noise monitor for residents, if necessary.

FXE staff members are trained and experienced in conducting portable noise measurements. However, the RFP identifies assistance with portable noise measurements to be an area of potential assistance. We assume this assistance was identified to address situations where FXE staff are overcommitted or where a measurement program requires more staff and portable noise monitoring equipment than FXE can muster locally. In that case, the HMMH team would assist with personnel and equipment.

We anticipate that Hanson staff would take the lead in local measurements, using staff from their Fort Lauderdale or West Palm Beach offices, with additional assistance from MCG staff from their Maitland or Fort Lauderdale offices, if needed. For measurements requiring special training or equipment from the HMMH instrumentation lab, an HMMH staff member would lead the measurements, with Hanson and MCG assistance as required, to minimize travel expense.

Due to the speculative nature of this assistance, a specific scope cannot be suggested at this time.

However, two of our provided work samples provide examples of the types of measurement efforts that we have undertaken for similar clients. The samples describe the measurement programs' objectives, execution, and results:

APF_FAA_Preliminary_Review_Draft_NEM_Update.pdf Chapter 3 of this draft Part 150 Noise Exposure Map for Naples Municipal Airport (APF) presents a detailed description of an extensive noise measurement effort that HMMH undertook to develop baseline information. It provides a clear and complete example of the measurement program design, execution, and results, in graphical and tabular form, and includes interpretation of the results and a description of terminology,

SUA_ANAC_NADP_Results.pdf This file is an example of a summary presentation made to the SUA Airport Noise Advisory Committee (ANAC) on the NADP demonstration project, which included a focused noise monitoring effort, with a more limited scope than the preceding Naples example.

8.4 Task Area 4: On-Call Noise-Related Planning, Technical Support, Study Updates, and Reports

The RFP identifies a range of potential on-call planning services, technical support, study updates, and reports that the City might request the HMMH team to conduct on an "on-call" basis. As discussed in Section 6.1.4, the HMMH team has extensive prior experience providing on-call assistance of this type, often working together.

In addition, HMMH has provided these types of services to the City for FXE multiple times over the past 26 years. As a result, the City and FXE staff members have extensive familiarity with the quality of HMMH work scopes and products.

Due to the speculative nature of this on-call assistance, specific scopes cannot be suggested at this time.



9 Project Work Plan

This section addresses the four project implementation plan requirements specified in RFP Part V, Section 9:

- A schedule (“GANTT” chart) showing beginning and end dates of all tasks in Part VI – Technical Specification / Scope of Services
- A table listing vendor staff assignments and proposed labor hours for all tasks
- A brief description of each task and its work products
- A description of each deliverable

These implementation plan items are presented in order in Sections 9.1, 9.2, 9.3, and 9.4.

RFP Part VI, “Technical Specification / Scope of Services,” identifies four potential task areas. The introduction to that section of the RFP notes that the task areas describe the range of services that the City might request the consultant to provide. We understand from the RFP that the City will identify the specific services that they require under each task area, and that the selected consultant will work with City and FXE staff to develop detailed scopes and budgets on a task-by-task basis.

The descriptions of Task Areas 1 and 2 in the RFP; i.e., “Quarterly AAB Presentation,” and “Noise Monitoring Terminals and Equipment,” included sufficient detail for the HMMH team to prepare the preliminary scopes of work presented in Section 8 of this submission. The following implementation plan discussions address those preliminary task proposals. Task Areas 3 and 4 identified in Part IV of the RFP; i.e., “Outreach Programs,” and “On Call Planning Services, Technical Support, Study Updates, and Reports,” involve on-call services, for which it is premature to prepare proposals.

9.1 Schedule

The following charts present the requested schedule information for Task Areas 1 and 2 in the RFP; i.e., “Quarterly AAB Presentation,” and “Noise Monitoring Terminals and Equipment.”

Task Area 1: First Year Quarterly AAB Presentations												
Months from Notice-to-Proceed:	1	2	3	4	5	6	7	8	9	10	11	12
1. Prepare for and Attend First Two AAB Meetings												
Kick-off conference call	●											
Draft present'n on potent'l topics		□										
Final present'n on potent'l topics			■									
Finalize topics based on 1 st mtg.				●	□	■						
Attend First Two AAB meetings				▲				▲				
2. Prepare for Third and Fourth AAB Meetings												
Draft presentation plan								●	□		●	□
Final presentation plan								●	■		●	■
3. Attend 3rd and 4th AAB Mtgs.												
										▲		▲

Task Area 2: Noise Monitoring Terminals and Equipment				
Months from Notice-to-Proceed:	1	2	3	4
Task 1. Conduct Site Reviews of All RMTs				
Kick-off conference call	●			
Site visits		◆	◆	
Interim memorandum			□	
Task 2. Identify Hardware Options for RMT Replacement				
Kick-off conference call		●		
Interim memorandum			□	
Task 3. Assess Current RMT Locations and Geographic Coverage				
Kick-off conference call			●	
Interim memorandum				□
Task 4. Develop and Present Action Plan				
Final memorandum				■

- Telephone conference call with City / FXE staff: ●
- Field work: ◆
- Draft deliverable: □
- Final deliverable: ■
- Meeting: ▲

9.2 Vendor Staff Assignments

The following two tables present the requested vendor staff assignment information for Task Areas 1 and 2 in the RFP; i.e., "Quarterly AAB Presentation," and "Noise Monitoring Terminals and Equipment."

The first table covers the first year of Quarterly AAB Presentations, and includes the initial effort associated with initiating the identification of topics for succeeding meetings respectively. For purposes of this initial AAB involvement, we assume that only HMMH and Hanson staff will be involved. As discussed in Section 8.1, we assume that later AAB presentation topics may involve other team members.

Task Area 1: First Year of Quarterly AAB Presentations							
	Principal	Project Manager	Senior Consult.	Consult.	Graphics / Project Support	Admin. Support	Total
Task 1. Develop Initial List of Topics and Presentation Plan (First Two AAB Meetings)							
HMMH	8	56		6	3	2	75
Hanson	24		8		2	1	35
Total	32	56	8	6	5	3	110
Task 2. Develop Presentations and Prepare for Third and Fourth AAB Meetings							
HMMH		8	4		4	2	18
Hanson	6		4		2	1	13
Total	6	24	4	0	6	3	31
Task 3. Attend 3rd and 4th Quarterly Meetings, Conduct Presentations, Answer Questions							
HMMH		40			4	2	46
Hanson	6		4		2	1	13
Total	6	40	4	0	6	3	59
TOTAL	44	104	20	6	17	9	200

Task Area 2: Noise Monitoring Terminals and Equipment							
	Principal	Project Manager	Senior Consult.	Consult.	Graphics / Project Support	Admin. Support	Total
Task 1. Conduct Site Reviews of All RMTs							
HMMH	4	4			2	2	12
MCG			2		40	6	48
Total	4	4	2	0	42	8	60
Task 2. Identify Hardware Options for RMT Replacement							
HMMH		4		12	2	2	20
Total	0	4	0	12	2	2	20
Task 3. Assess Current RMT Locations and Geographic Coverage							
HMMH		10		8	4	2	24
Hanson	4			4	2	1	11
Total	0	10	0	12	6	3	35
Task 4. Develop and Present Action Plan							
HMMH		12		16	4	2	34
Hanson	4			4	2	1	11
Total	4	12	0	20	6	3	45
TOTAL	12	30	2	44	56	16	160

9.3 Task Description and Work Products

Sections 8.1 and 8.2 provide the detailed task and work product descriptions.

9.4 Description of Deliverables

Sections 8.1 and 8.2 describe the task deliverables.

10 Hourly Labor Billing Rates Proposal

**REQUEST FOR PROPOSAL (RFP) 605-10450
AIRPORT NOISE ABATEMENT CONSULTANT SERVICES**

BID SHEET

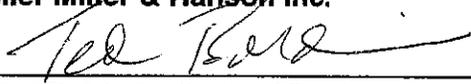
Proposer **MUST** enter an Hourly Labor Billing Rate in column (A) for each Labor Category itemized in the Labor Category column then multiply those rates by the hours in the Estimated Hours column (B) then enter the extended amount in the Total Proposed Amount column (C), $A \times B = C$. Enter the totals from column (C), including \$10,000.00 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	\$225	150	\$33,750
Project Manager	\$275	150	\$41,250
Senior Consultant	\$150	80	\$12,000
Consultant	\$120	80	\$9,600
Graphics/Project Support	\$100	60	\$6,000
Administrative Support	\$90	60	\$5,400
Allowance for Expenses	Not Applicable	Not Applicable	\$10,000
(D) GRAND TOTAL PROPOSED AMOUNT: \$118,000			

Insert the completed Bid Sheet in Section 10 of your proposal response in accordance with Part V – Proposal Submittal Requirements of this RFP.

PROPOSERS COMPANY NAME: Harris Miller Miller & Hanson Inc.

AUTHORIZED NAME AND SIGNATURE:


Ted Baldwin, Senior Vice President



11 Non-Collusion Statement and Bid Proposal/Signature Page

This section contains non-collusion statements for each team member and our Bid/Proposal Signature Page.



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).

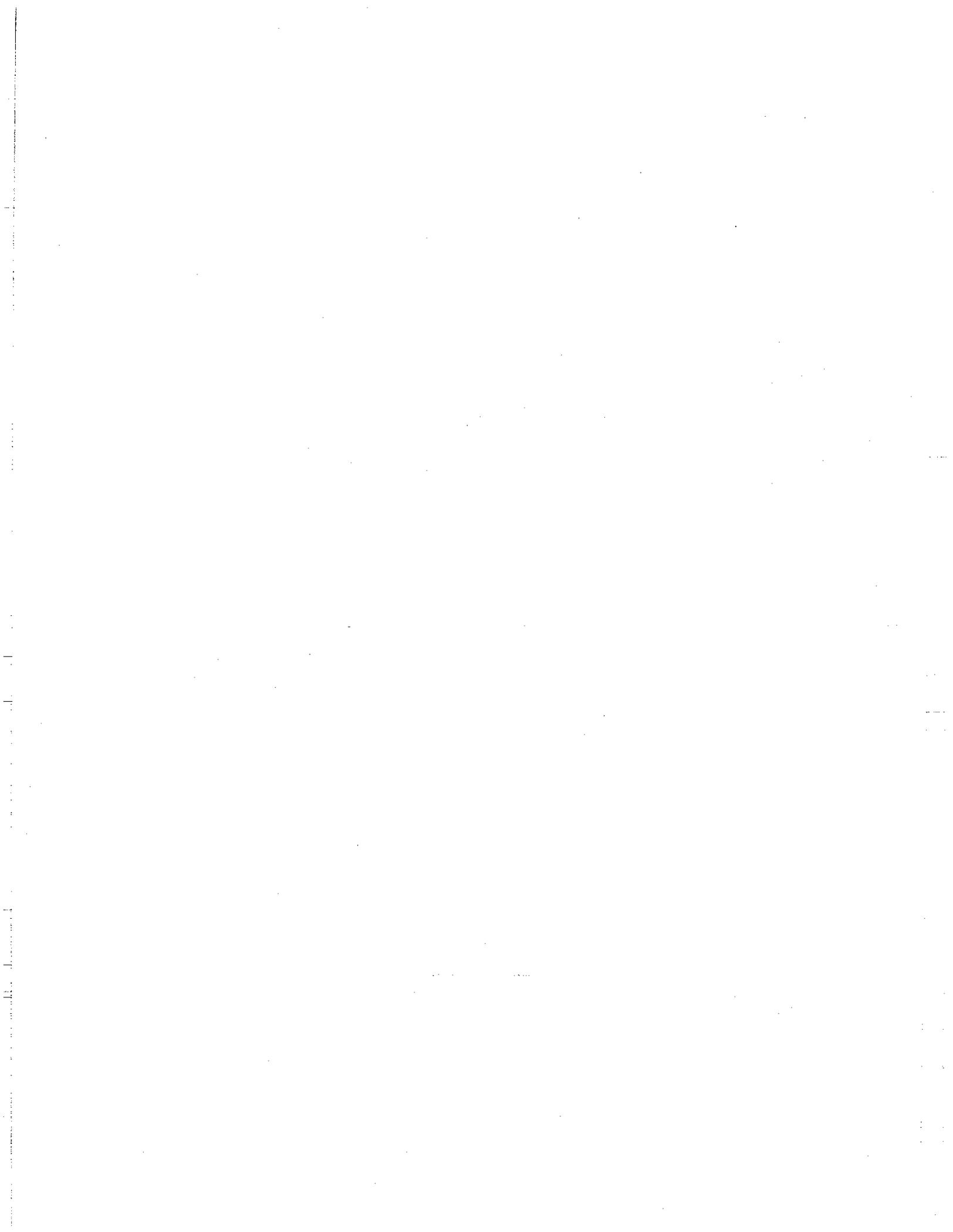
3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

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.

 **NAME**
Linda A. Fitch, Vice President/Treasurer
on behalf of Harris Miller Miller & Hanson Inc.

RELATIONSHIPS
NONE

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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<u>NAME</u>	<u>RELATIONSHIPS</u>
<u>Bobby D. Pinner</u>	<u>NONE</u>
<u>Raymond Plonnet</u>	<u>NONE</u>
_____	_____
_____	_____

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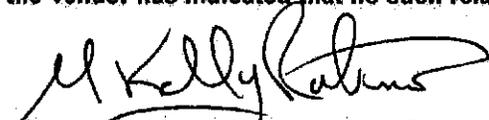
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<u>NAME</u>	<u>RELATIONSHIPS</u>
_____	_____
_____	_____
_____	_____
_____	_____

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.



Hanson Professional Services Inc.

Kelly Rubino, P.E., CBC

Principal, Aviation Services





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<u>NAME</u>	<u>RELATIONSHIPS</u>
 _____	_____
DEBORAH NEEHAN, COO	_____
_____	_____
_____	_____

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.



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: Linda A. Fitch (signature) April 14, 2010 (date)

Name (printed) Linda A. Fitch Title: Vice President/Treasurer

Company: (Legal Registration) Harris Miller Miller & Hanson Inc.

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/doc/>).

Address: 77 South Bedford Street

City Burlington State: MA Zip 01803

Telephone No. (781) 229-0707 FAX No. (781) 229-7939 Email: lfitch@hmmh.com

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

Payment Terms (section 1.03): net 30 days Total Bid Discount (section 1.04): N/A

Does your firm qualify for MBE or WBE status (section 1.08): MBE WBE N/A

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

<u>Addendum No.</u>	<u>Date Issued</u>
1	3/25/10

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.

Variances: HMMH has reviewed the City's General Terms & Conditions and has identified only one potential concern, **regarding the broadness of the indemnification language. To be fully and unquestionably insurable, our liability would need to be limited to direct damages caused by the HMMH team's negligence, and to exclude indirect and consequential damages, which are implied by the current language.**

revised 2-10-10 We have assumed that no Special Conditions apply since none were included with the RFP, and therefore there will be no requirement for bid or performance bonds for the resulting service contract.

*Ted Baldwin
781-229-0700
X3123
tbaldwin@hmmh.com*



Appendix A Certificates of Insurance



ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID SC
HARRI-1

DATE (MM/DD/YYYY)
07/02/09

PRODUCER McLaughlin Insurance Agency 828 Lynn Fells Parkway Melrose MA 02176 Phone: 781-665-2775 Fax: 781-665-0295		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED Harris Miller Miller & Hanson Inc. 77 South Bedford Street Burlington MA 01803		INSURERS AFFORDING COVERAGE	NAIC #
		INSURER A: OneBeacon Insurance Grp A XIV	
		INSURER B: Chubb Group of Ins. Co. A++ XV	
		INSURER C:	
		INSURER D:	
		INSURER E:	

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR	710019765-0002	05/15/09	05/15/10	EACH OCCURRENCE	\$ 1,000,000
					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500,000
					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
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					
A	AUTOMOBILE LIABILITY <input 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	710019765-0002	05/15/09	05/15/10	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
					BODILY INJURY (Per person)	\$
					BODILY INJURY (Per accident)	\$
					PROPERTY DAMAGE (Per accident)	\$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT	\$
					OTHER THAN AUTO ONLY:	EA ACC \$ AGG \$
A	EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$10,000	710019765-0002	05/15/09	05/15/10	EACH OCCURRENCE	\$ 5,000,000
					AGGREGATE	\$ 5,000,000
						\$
						\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	406017590-0002 INCLUDES USL&H	05/15/09	05/15/10	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS	OTH-ER
					E.L. EACH ACCIDENT	\$ 500,000
					E.L. DISEASE - EA EMPLOYEE	\$ 500,000
					E.L. DISEASE - POLICY LIMIT	\$ 500,000
B	Professional Liab.	R/06804-5150 RETRO 6/83	05/15/09	05/15/10	Clms.Made	\$3MM/\$3MM
A	Valuable Paper	710019765	05/15/09	05/15/10	Ded.\$500	\$50,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Additional Insureds are listed as follows for if required by written contract with named insured:

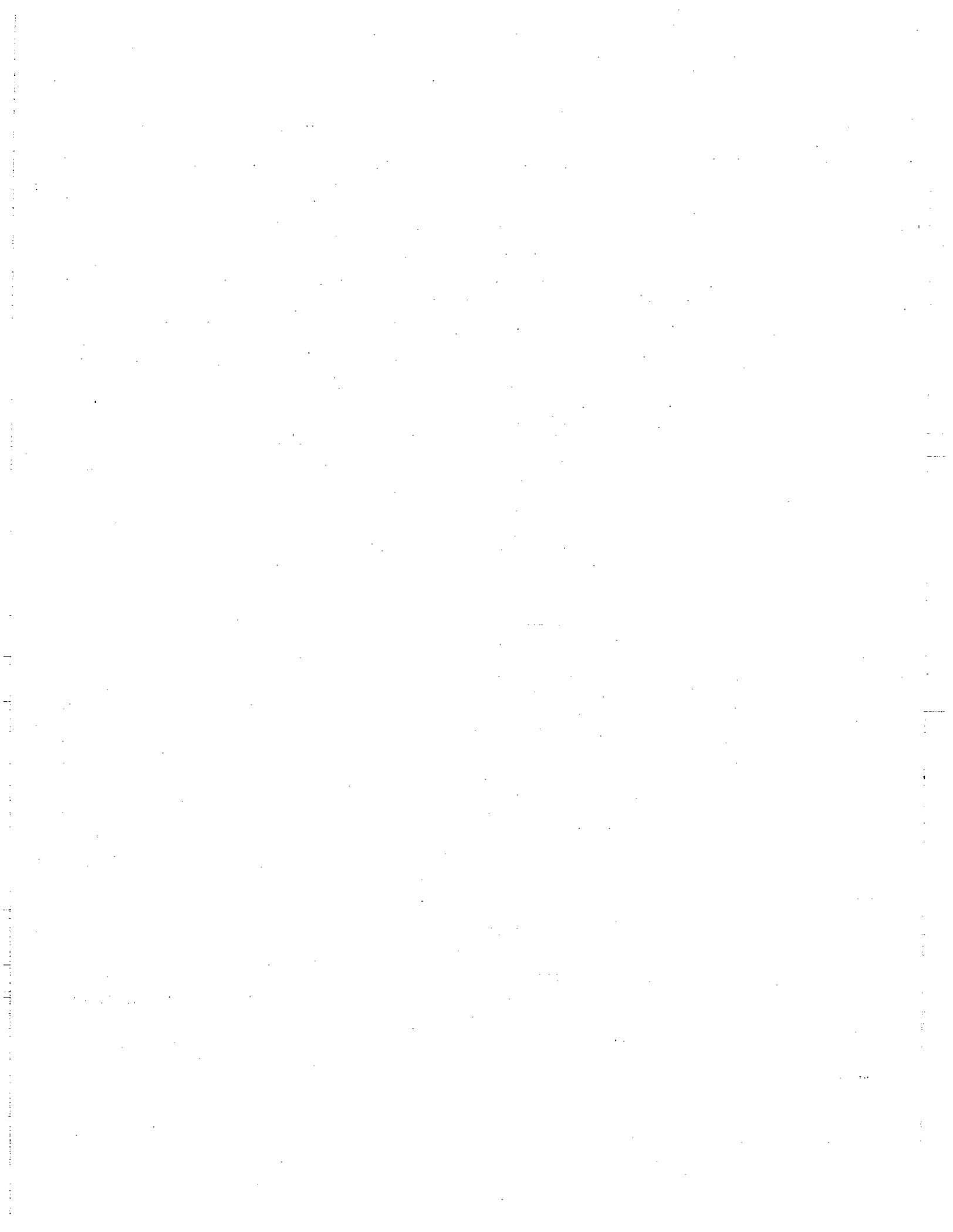
CERTIFICATE HOLDER

09/10 SAMPLE CERT

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

John McLaughlin



ACORDTM

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
08/31/2009

PRODUCER 229.247.6500 FAX 229.247.6507 Blanton and Griffin Insurance Agency 2314 N. Patterson Street P. O. Box 1689 Valdosta, GA 31603-1689		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED Air Traffic Experts, LLC 8742 Estate Drive West Palm Beach, FL 33411		INSURERS AFFORDING COVERAGE	NAIC #
		INSURER A: Auto-Owners Insurance Co	
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
A	X	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC	082382-48766689-09	09/03/2009	09/03/2010	EACH OCCURRENCE	\$ 500,000
		DAMAGE TO RENTED PREMISES (Ea occurrence)				\$ 300,000	
		MED EXP (Any one person)				\$ 10,000	
		PERSONAL & ADV INJURY				\$ 500,000	
		GENERAL AGGREGATE				\$ 1,000,000	
		PRODUCTS - COMP/OP AGG				\$ 1,000,000	
A	X	AUTOMOBILE LIABILITY <input 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	082382-48766689-09	09/03/2009	09/03/2010	COMBINED SINGLE LIMIT (Ea accident)	\$ 500,000
		BODILY INJURY (Per person)				\$	
		BODILY INJURY (Per accident)				\$	
		PROPERTY DAMAGE (Per accident)				\$	
		AUTO ONLY - EA ACCIDENT				\$	
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	\$
		<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				AGGREGATE	\$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below				WC STATUTORY LIMITS	OTHER
		<input type="checkbox"/> Y <input type="checkbox"/> N				E.L. EACH ACCIDENT	\$
		OTHER				E.L. DISEASE - EA EMPLOYEE	\$
						E.L. DISEASE - POLICY LIMIT	\$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
***10 day notice for non-payment of premium; the certificate holders are named as additional insureds with respect to the insured's performance under subcontract 299850.005**

CERTIFICATE HOLDER

City of Fort Lauderdale and Harris Miller Miller & Hanson Inc. (HMMH)
77 South Bedford Street
Burlington, MA 01803

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL ***30** DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.
 AUTHORIZED REPRESENTATIVE
Jack Henry/KAY *Jack Henry*

IMPORTANT

If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

This Certificate of Insurance does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/19/2010

PRODUCER (217)528-7533 FAX (217)528-1041
R. W. Troxell & Company
 214 South Grand Ave West
 P.O. Box 3757
 Springfield, IL 62708

INSURED **Hanson Professional Services, Inc.**
 1525 South 6th St
 Springfield, IL 62703-0000

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Cincinnati Insurance Company	10677
INSURER B:	Cincinnati Casualty Company	28665
INSURER C:		
INSURER D:		
INSURER E:		

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L TR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	CPP0870038	01/01/2010	01/01/2011	EACH OCCURRENCE	\$ 1,000,000
					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
					MED EXP (Any one person)	\$ 5,000
					PERSONAL & ADV INJURY	\$ 1,000,000
					GENERAL AGGREGATE	\$ 2,000,000
					PRODUCTS - COM/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	CPA0870038	01/01/2010	01/01/2011	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
					BODILY INJURY (Per person)	\$
					BODILY INJURY (Per accident)	\$
					PROPERTY DAMAGE (Per accident)	\$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT	\$
					OTHER THAN AUTO ONLY: EA ACC	\$
					AGG	\$
	EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$ 0				EACH OCCURRENCE	\$
					AGGREGATE	\$
						\$
						\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC2114904	01/01/2010	01/01/2011	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	OTHER
					E.L. EACH ACCIDENT	\$ 1,000,000
					E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
B	OTHER New Jersey & Alaska Workers Compensation	WC1920351	01/01/2010	01/01/2011		\$1,000,000 Each Accident \$1,000,000 Each Employee \$1,000,000 Policy Limit

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 Project: RFQ 606-10451-Fort Lauderdale Executive Airport, Master Drainage Study & Plan
 Hanson project 10A0032/STB Care, Custody and Control Exclusion Removed.
 City of Fort Lauderdale and its employees are additional insureds in respects to the general liability and auto liability for the above captioned project per written contract subject to the terms and conditions of the policy. Waiver of Subrogation applies to the General Liability and Auto Liability.

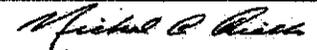
CERTIFICATE HOLDER

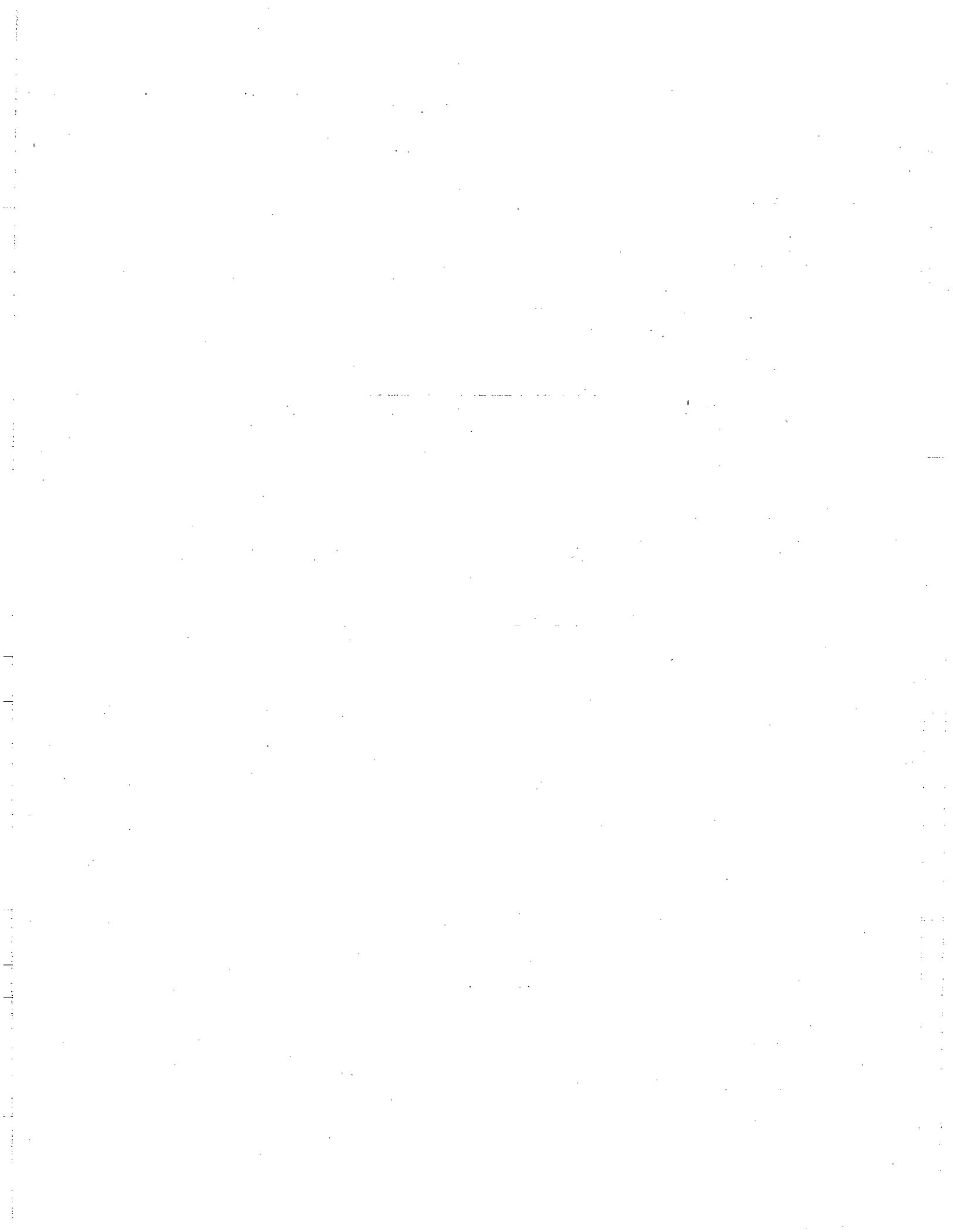
City of Fort Lauderdale
 City Hall, Dept. of Procurement Services
 100 N. Andrews Avenue
 Room 619
 Fort Lauderdale, FL 33301

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
 Michael Aiello/LORI





ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID LJ
MONTG-1

DATE (MM/DD/YYYY)
11/11/09

PRODUCER
Cooper, Simms, Nelson & Mosley
271 West Canton Avenue
P.O. Box 1480
Winter Park FL 32790-1480
Phone: 407-644-8689 Fax: 407-644-9934

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

Montgomery Consulting Group,
Inc.
341 N. Maitland Avenue, #340
Maitland FL 32751

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Hartford Ins Co of Southeast	38261
INSURER B:	Hartford Underwriters Ins. Co.	30104
INSURER C:	Travelers Casualty & Surety Co	
INSURER D:		
INSURER E:		

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

INSR ADD'L LTR	INSRC	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A		GENERAL LIABILITY	21SBABL9885	06/01/09	06/01/10	EACH OCCURRENCE
		<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				\$ 1,000,000
		CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				DAMAGE TO RENTED PREMISES (Ea occurrence)
						\$ 300,000
						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
GEN'L AGGREGATE LIMIT APPLIES PER:						
		<input type="checkbox"/> POLICY	<input type="checkbox"/> PRO-JECT	<input type="checkbox"/> LOC		
B		AUTOMOBILE LIABILITY	21UECUV4005	06/17/09	06/17/10	COMBINED SINGLE LIMIT (Ea accident)
		<input checked="" type="checkbox"/> ANY AUTO				\$ 1,000,000
		<input type="checkbox"/> ALL OWNED AUTOS				
		<input type="checkbox"/> SCHEDULED AUTOS				
		<input type="checkbox"/> HIRED AUTOS				BODILY INJURY (Per person)
		<input type="checkbox"/> NON-OWNED AUTOS				\$
						BODILY INJURY (Per accident)
						\$
						PROPERTY DAMAGE (Per accident)
						\$
GARAGE LIABILITY						
		<input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT
						\$
						OTHER THAN AUTO ONLY: EA ACC
						\$
						AGG
						\$
A		EXCESS/UMBRELLA LIABILITY	21SBABL9885	06/01/09	06/01/10	EACH OCCURRENCE
		<input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				\$ 2,000,000
		<input type="checkbox"/> DEDUCTIBLE				AGGREGATE
		<input checked="" type="checkbox"/> RETENTION \$ 10,000				\$ 2,000,000
						\$
						\$
						\$
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	1ACRUB391D789309	11/01/09	11/01/10	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE
		OTHER				E.L. DISEASE - POLICY LIMIT
						\$ 500,000
						\$ 500,000
						\$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Automobile liability coverage includes hired automobiles. Physical damage coverage is provided for hired vehicles up to a limit of \$50,000 with a deductible of \$500.

CERTIFICATE HOLDER

FORIN-1

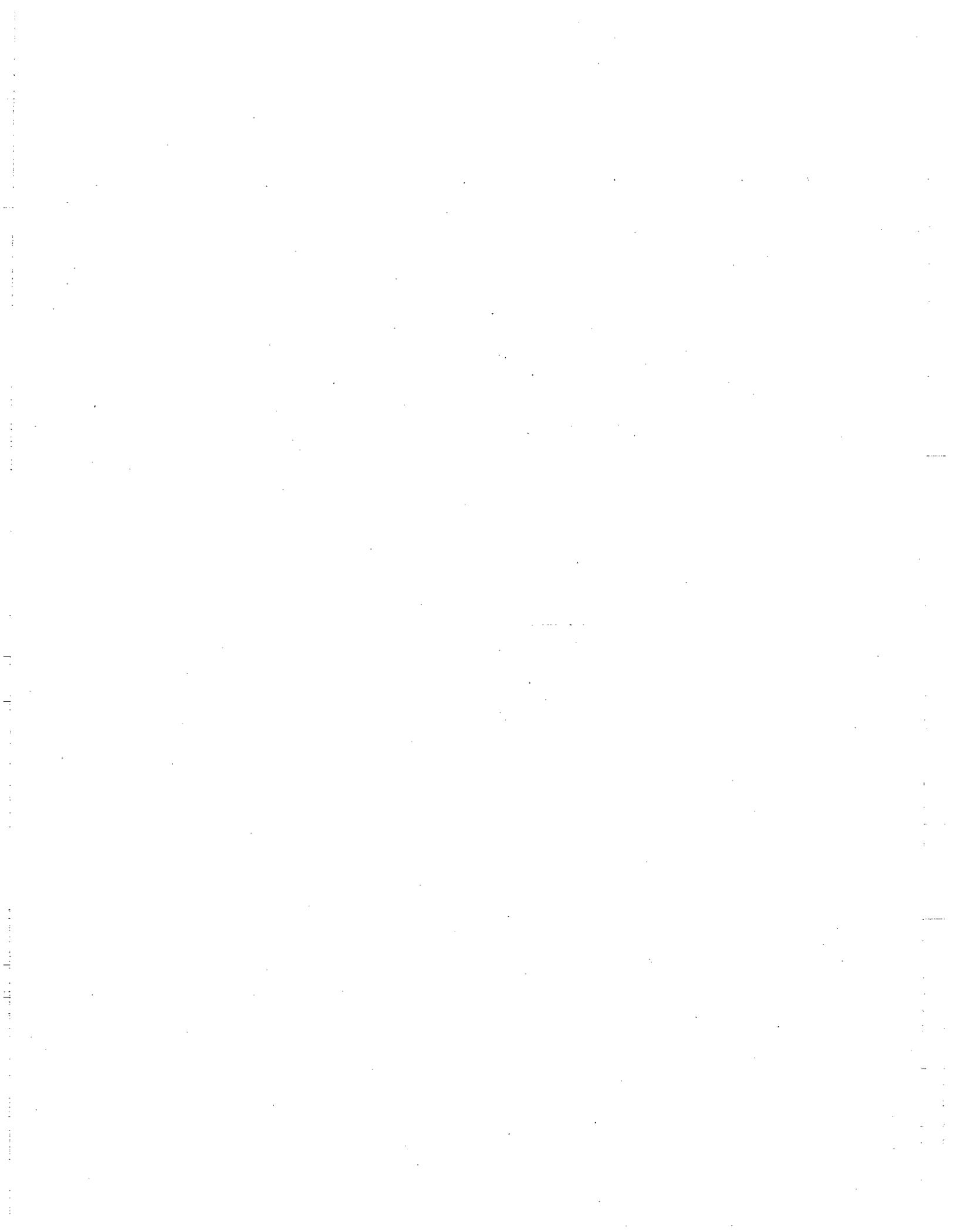
For Information Purposes Only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES

AUTHORIZED REPRESENTATIVE

Stephen A. Simms



ACORD

CERTIFICATE OF INSURANCE

ISSUE DATE (06/25/09)

PRODUCER

Aon Risk Services Northeast, Inc.
199 Water Street
New York, New York 10038

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

- COMPANY A Great Northern Insurance Company
COMPANY B Federal Insurance Company
COMPANY C Steadfast Insurance Company
COMPANY D
COMPANY E

INSURED

ICF International, Inc.
9300 Lee Highway
Fairfax, VA 22031-1207 USA

COVERAGES

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.

Table with columns: CO LTR, TYPE OF INSURANCE, POLICY NUMBER, POLICY EFFECTIVE DATE, POLICY EXPIRATION DATE, LIMITS. Rows include General Liability, Automobile Liability, Excess Liability, Workers Compensation, and Professional Liability.

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Certificate is for evidence of coverage only.

CERTIFICATE HOLDER

FOR INFORMATION PURPOSES ONLY
ICF International, Inc.
9300 Lee Highway
Fairfax, VA 22031-1207 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Northeast, Inc



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
06/26/09

PRODUCER 1-804-000-0000
 Arthur J. Gallagher Risk Management Services, Inc.
 4860 Cox Road, Suite 200
 Glen Allen, VA 23059
 CAROLYN O VARNIER 804-916-6846
 INSURED
 ICF INCORPORATED, LLC
 9300 LEE HIGHWAY
 FAIRFAX, VA 22031

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: LM INS CORP	33600
INSURER B:	
INSURER C:	
INSURER D:	
INSURER E:	

COVERAGES

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. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
		GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
		AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$
		EXCESS / UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below OTHER	WC5-231-508381-019	06/25/09	06/25/10	<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

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

ICF INTERNATIONAL, INC.
 FOR INFORMATIONAL PURPOSES ONLY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Carolyn O. Varnier

Appendix B Firm Owners



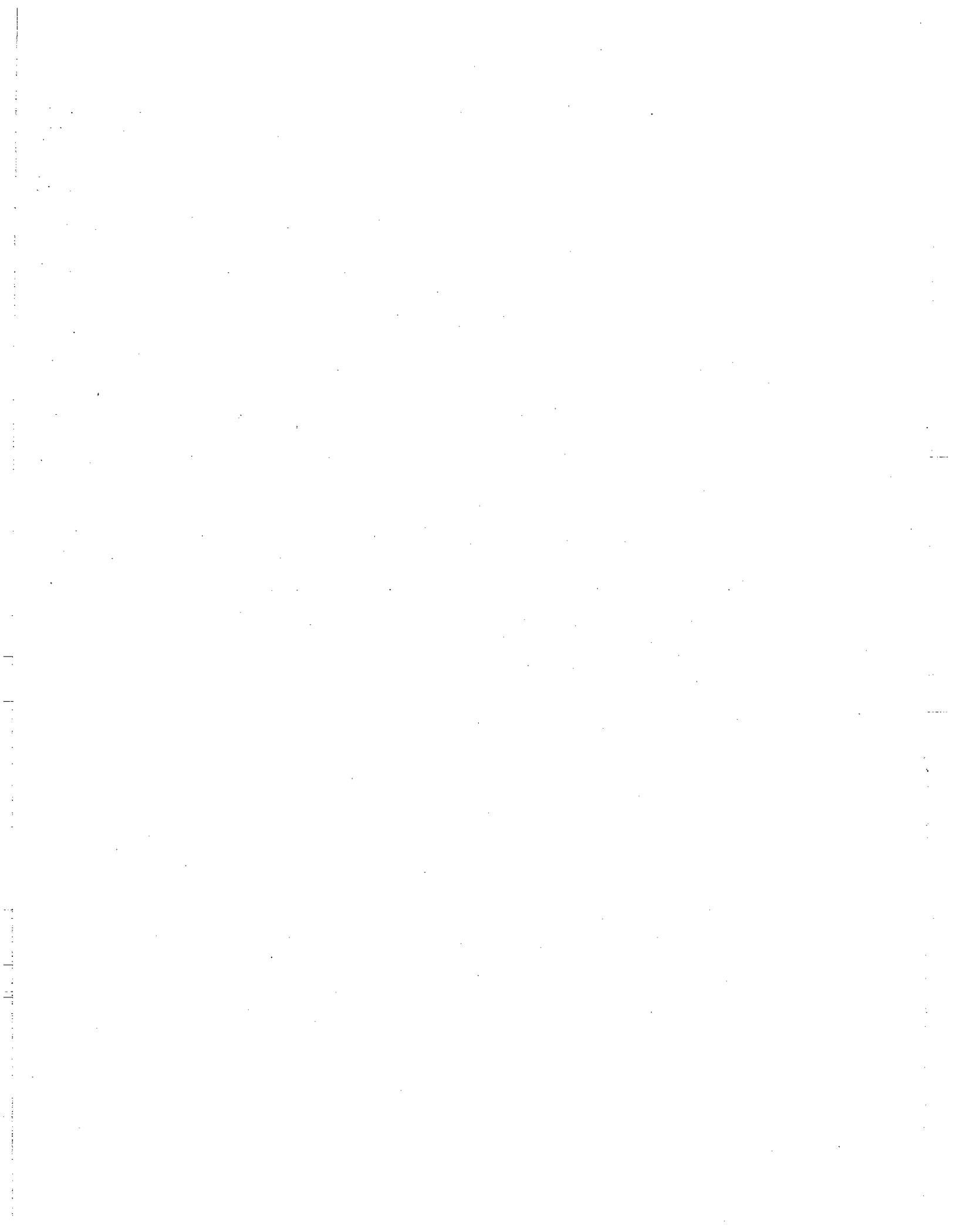
HARRIS MILLER MILLER & HANSON INC.

77 South Bedford Street
 Burlington, Massachusetts 01803
 T 781.229.0707
 F 781.229.7939
 www.hmmh.com

LIST OF CORPORATE OFFICERS AND STOCKHOLDERS AS OF 1 NOVEMBER 2009

NAME	ADDRESS	TITLE	% OWNERSHIP
Mary Ellen Eagan (1) (2)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	President	7%
Nicholas P. Miller (1) (2)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Senior Vice President	12%
Robert L. Miller (1) (2)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Senior Vice President	13%
Christopher W. Menge (1)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Senior Vice President/ Principal Consultant	9%
Edward M. Baldwin III (1) (2)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Senior Vice President/ Principal Consultant	11%
Linda A. Fitch (1)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Vice President/ Treasurer/Secretary	10%
Douglas E. Barrett (1) (2)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Vice President/ Principal Consultant	6%
Lance D. Meister (1)	77 South Bedford Street Burlington, MA 01803 T (781) 229-0707	Vice President/ Principal Consultant	5%
Eugene M. Reindel (1)	8880 Cal Center Drive, Suite 430 Sacramento, CA 95826 T (916) 368-0707	Vice President/ Principal Consultant	4%
Diana Wasiuk (2)	1776 I Street NW, Suite 925 Washington, DC 20006 T (202) 756.1340	Director, Airport & Airspace Planning	1%
Richard Orton (2)		Outside Director	0%
William J. Rizzo, Jr. (2)		Outside Director	0%
22 Other Employee Stockholders in varying amounts			22%

(1) Denotes Officer
 (2) Denotes Director



HANSON PROFESSIONAL SERVICES INC.

Board of Directors

Eugene R. Wilkinson, Chairman
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext.

Sergio A. Pecori, Chief Executive Officer
President
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext.252

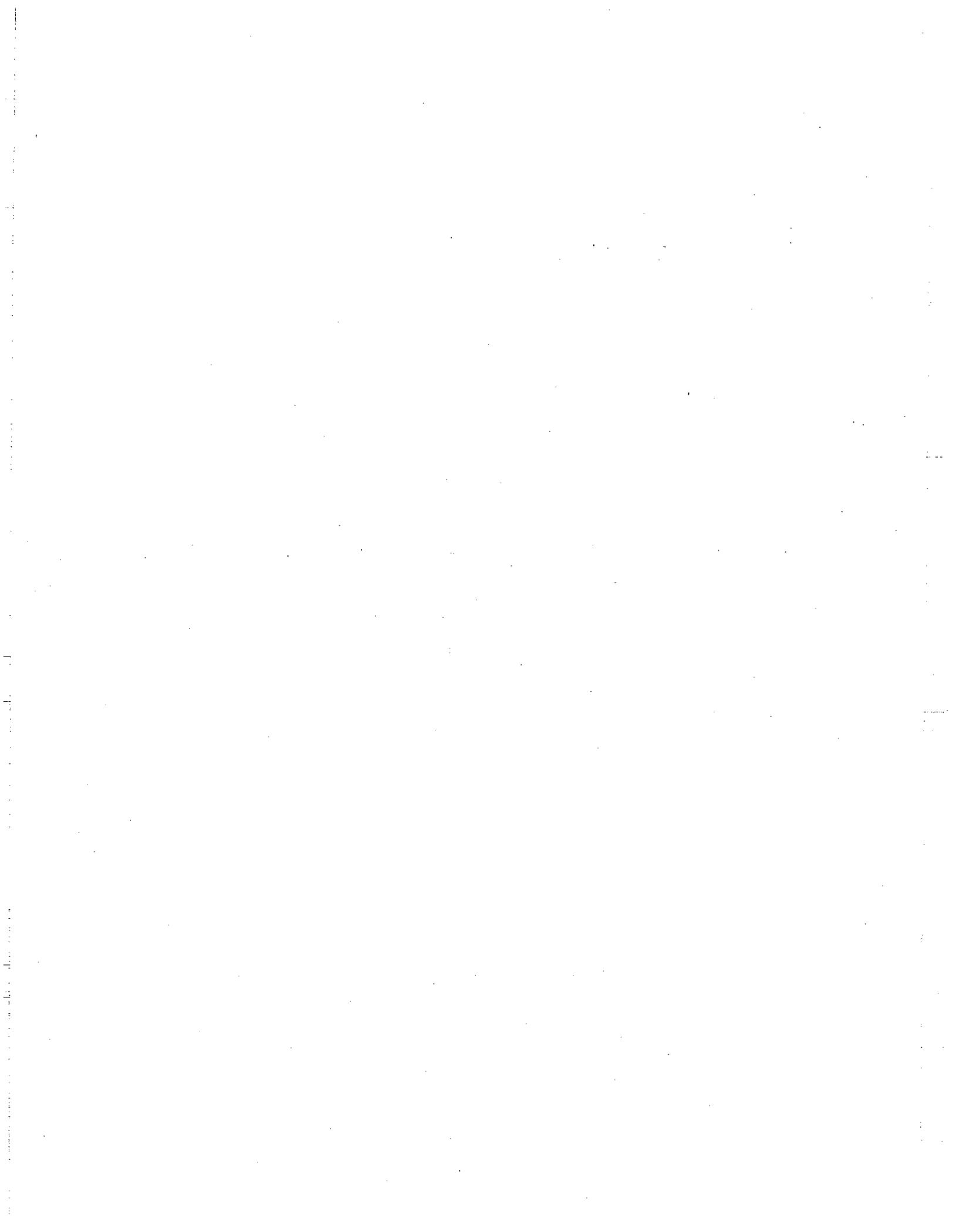
John P. Coombe, Chief Operating Officer
Executive Vice President
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext. 273

Robert W. Cusick, Chief Technical Officer
Executive Vice President
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext. 306

Jo Ellen Keim, Chief Financial Officer
Senior Vice President
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext. 252

John W. McCree
Senior Civil Engineer
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext. 374

Thomas A. Rechner
Project Architect
1525 S. Sixth Street
Springfield, IL 62703
(217) 788-2450, Ext. 322



State of Florida

Department of State

I certify from the records of this office that HARRIS MILLER MILLER & HANSON, INC. is a corporation organized under the laws of Massachusetts, authorized to transact business in the State of Florida, qualified on January 9, 1985.

The document number of this corporation is P04611.

I further certify that said corporation has paid all fees due this office through December 31, 2005, that its most recent annual report was filed on February 2, 2005, and its status is active.

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

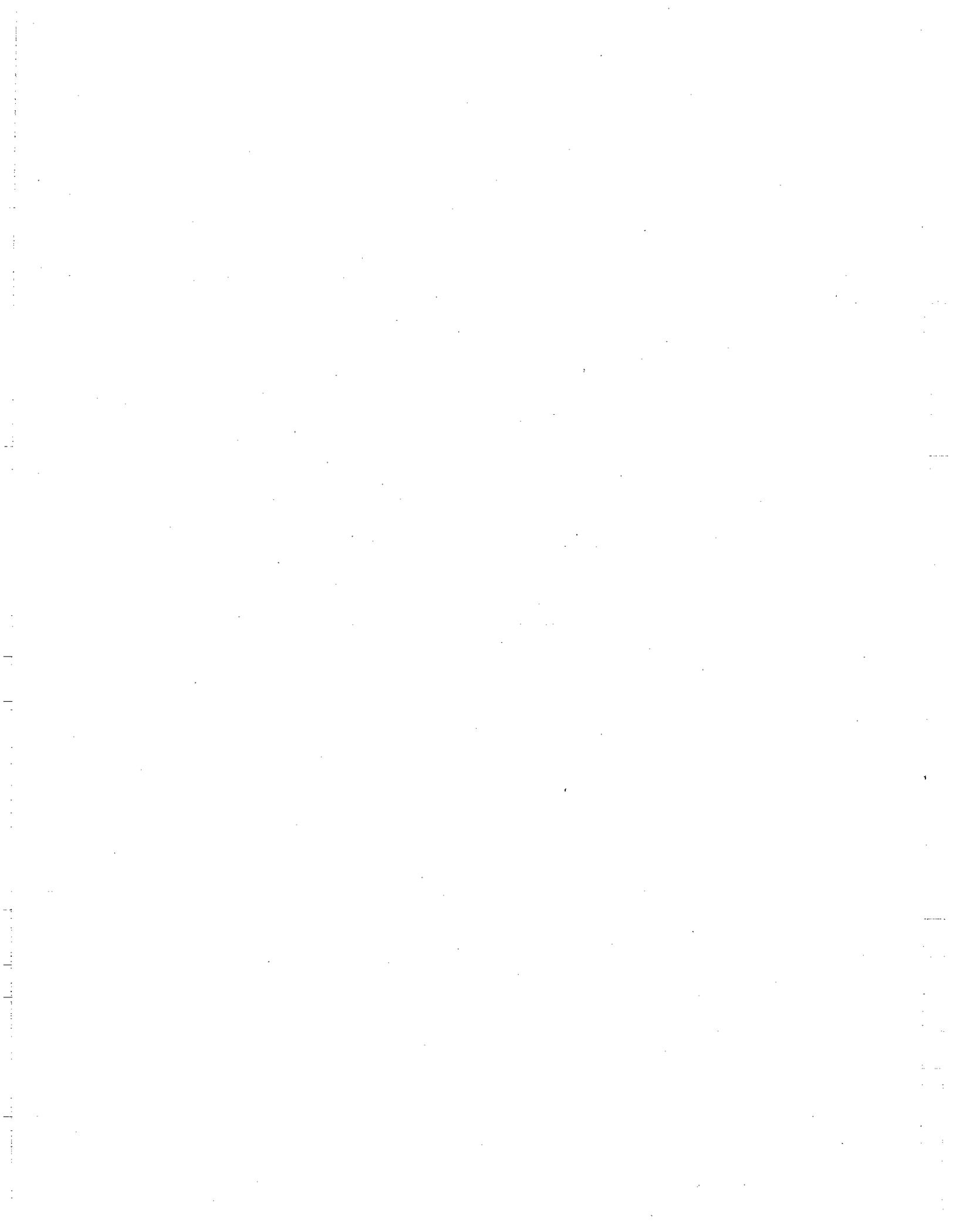
*Given under my hand and the Great Seal of
Florida, at Tallahassee, the Capital, this the
Twenty Third day of August, 2005*

Glenda E. Hood
Secretary of State



Authentication ID: 200058878702-082305-P04611

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.
www.sunbiz.org/auth.html



State of Florida

Department of State

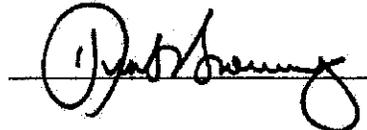
I certify from the records of this office that AIR TRAFFIC EXPERTS, LLC is a limited liability company organized under the laws of the State of Florida, filed on July 14, 2008, effective July 10, 2008.

The document number of this limited liability company is L08000068070.

I further certify that said limited liability company has paid all fees due this office through December 31, 2010, that its most recent annual report was filed on March 30, 2010, and its status is active.

I further certify that said limited liability company has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of
Florida, at Tallahassee, the Capital, this the First
day of April, 2010*



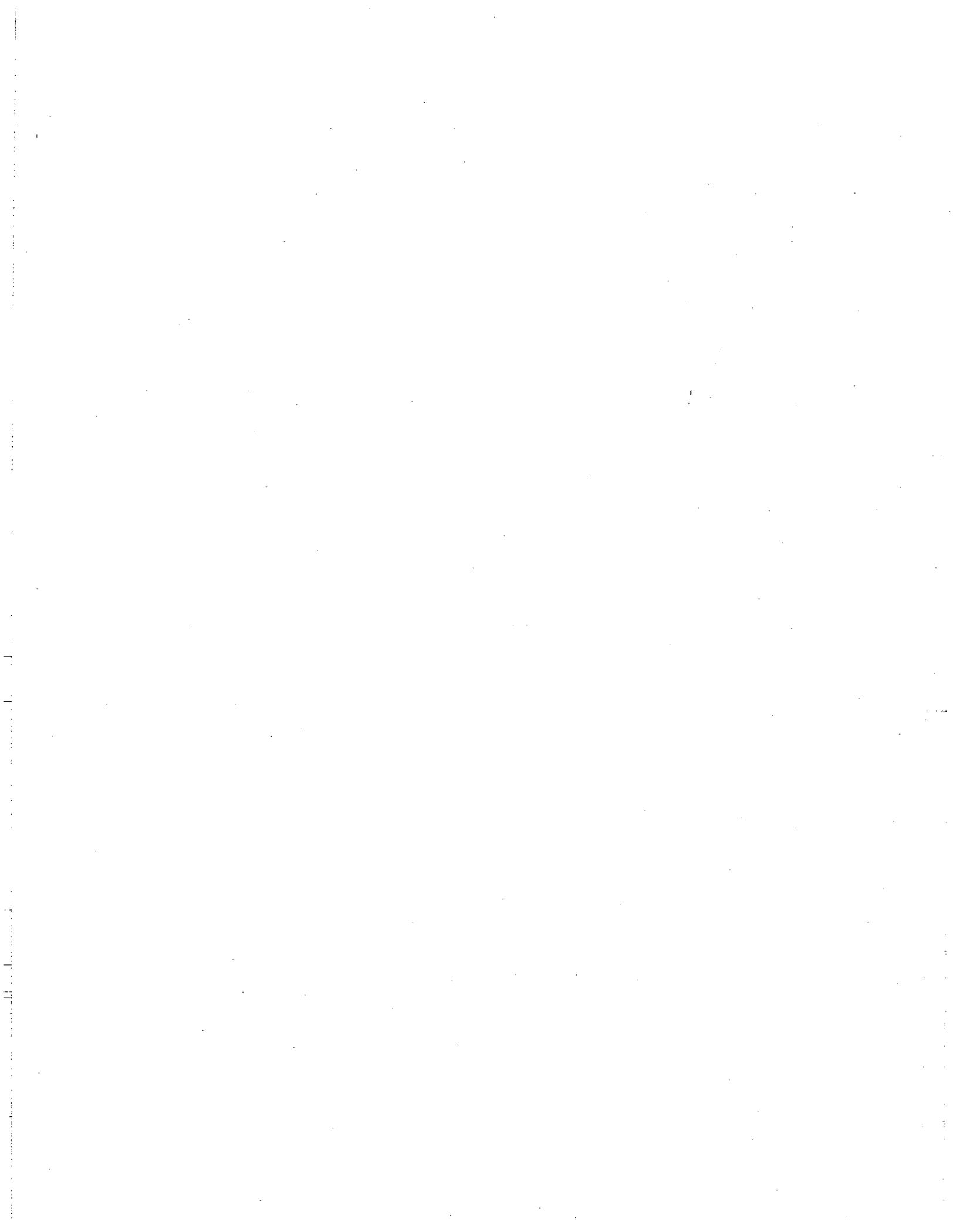
Secretary of State



Authentication ID: 400173754414-040110-L08000068070

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



State of Florida

Board of Professional Engineers

Hanson Professional Services Inc.

Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer duly licensed under Chapter 471, Florida Statutes.

Expiration: 28-Feb-11

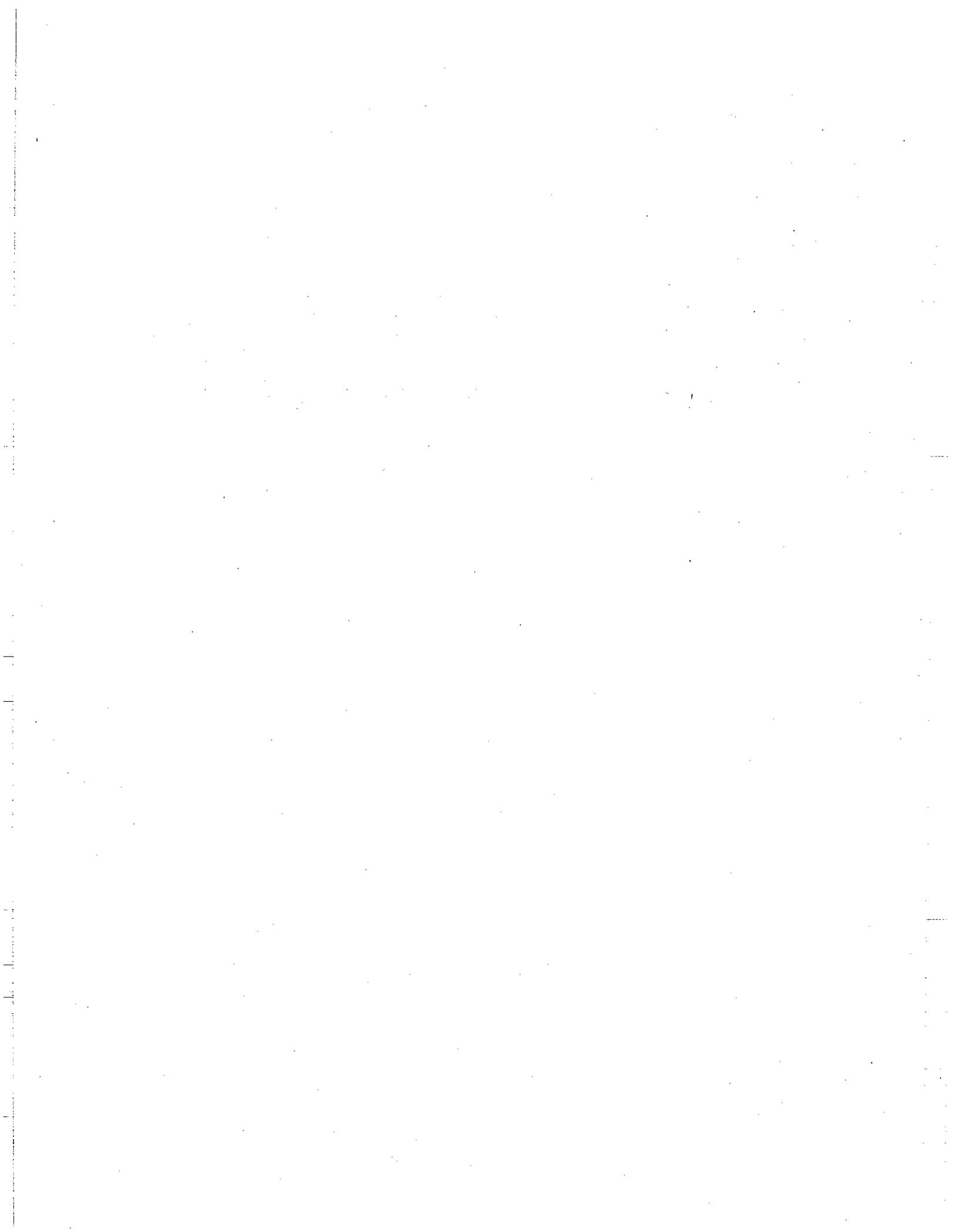
Certificate of Authorization

CA No.

Audit No: 22820110605

DISPLAY AS REQUIRED BY LAW

7961



State of Florida

Department of State

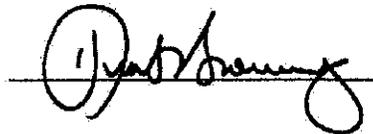
I certify from the records of this office that MONTGOMERY CONSULTING GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on April 27, 1995.

The document number of this corporation is P95000033296.

I further certify that said corporation has paid all fees due this office through December 31, 2010, that its most recent annual report was filed on February 18, 2010, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the Great Seal of
Florida, at Tallahassee, the Capital, this the
Nineteenth day of February, 2010*



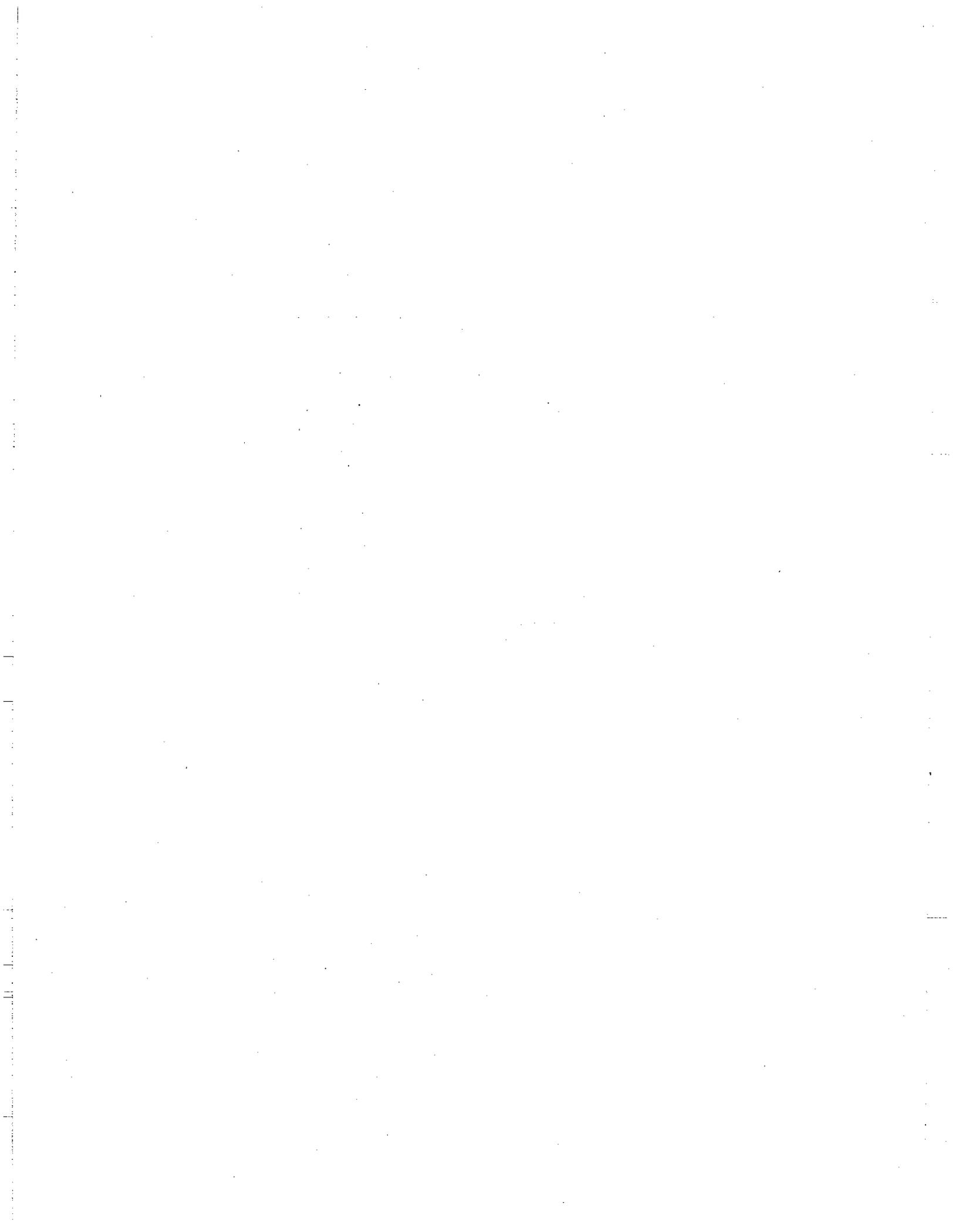
Secretary of State



Authentication ID: 400169597654-021910-P95000033296

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State of Florida

Department of State

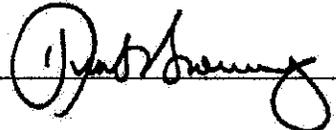
I certify from the records of this office that SIMAT, HELLIESEN & EICHNER, INC. is a corporation organized under the laws of Delaware, authorized to transact business in the State of Florida, qualified on January 30, 2006.

The document number of this corporation is F06000000754.

I further certify that said corporation has paid all fees due this office through December 31, 2009, that its most recent annual report was filed on June 15, 2009, 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
Florida, at Tallahassee, the Capital, this the
Twenty Third day of March, 2010*

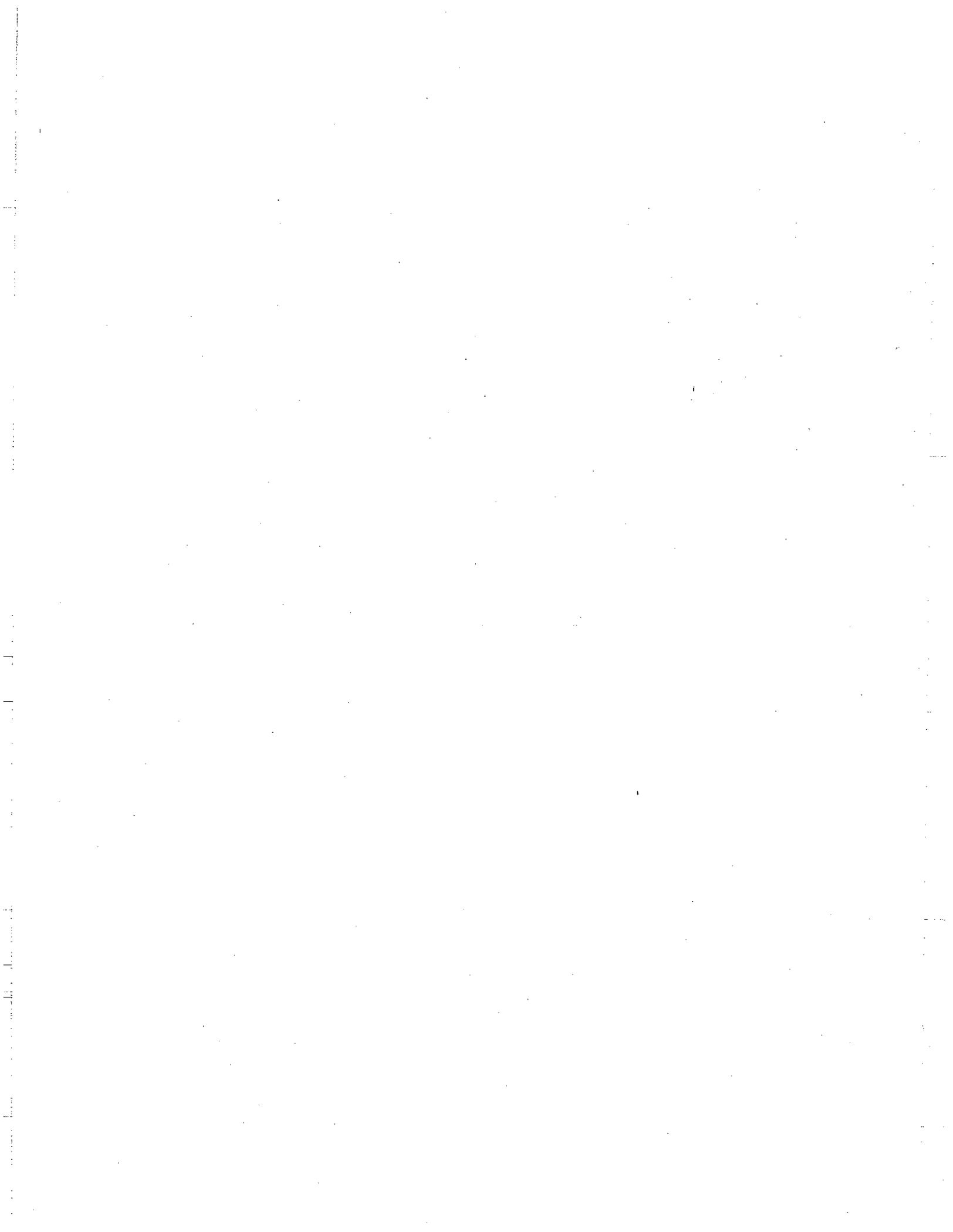


Secretary of State



Authentication ID: 000172888870-032310-F06000000754

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





Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE C. KOPELOUSOS
SECRETARY

September 7, 2007

Certified Mail – Return Receipt Requested

Montgomery Consulting Group, Inc.
Ms. Monty Gettys
157 E. New England Avenue,
Suite 340
Winter Park FL 32789

ANNIVERSARY DATE- Annually on July 16

Dear Ms. Gettys:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the **Florida Unified Certification Program [UCP]** as a **Disadvantaged Business Enterprise [DBE]** in accordance with Part 49 Section 26, Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**. Failure to do so will result in immediate action to decertify the firm.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. **Prime contractors and consultants should verify your firms DBE certification status, and identify the only work area(s) for which the firm is DBE eligible, through this Directory.**

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at <http://www.bipincwebapps.com/biznetflorida/> or through The Department' website at www.dot.state.fl.us/equalopportunityoffice, then select "DBE Directory."

DBE certification is **NOT** a/ guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida s a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

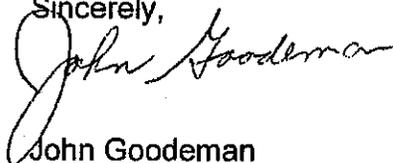
If, at any time, there is a material change in the firm, including, but not limited to, ownership, officers, Directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of the firm, you must notify this office, in writing, within (30) days. Notification should include supporting documentation. You will receive timely instruction from this office as to how you should proceed, if necessary.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS:	FDOT Specialty Code & Description
541620	950-Environmental Consulting
541690	963-Economic Consulting
541613	300-Marketing Consulting
541618	300-Other Management Consulting
541614	300-Process, Distribution and Logistical Consulting
541690	300-Other Scientific and Technical Consulting and Aviation Planning

Questions and concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879.

Sincerely,



John Goodeman
DBE Certification Manager



Office of Equal Opportunity

Small Business Development Division

Government Center Annex

115 S. Andrews Avenue, Room A640 · Fort Lauderdale, Florida 33301 · 954-357-6400 · FAX 954-357-6010

May 20, 2008

Monty Gettys

Montgomery Consulting Group, Inc.

2881 Oakland Park Blvd. Ste. 111

Ft. Lauderdale, FL 33306

Dear Monty Gettys:

The Broward County Small Business Development Division is pleased to award your company certification as a: **Community Disadvantaged Business Enterprise** and **Small Business Enterprise**. Your firm is now eligible to participate in these Small Business Development programs. Due to the fact that your Broward County Business Tax Receipt is not yet 1 year old, you may bid on Sheltered Market Projects beginning on 4/17/2009.

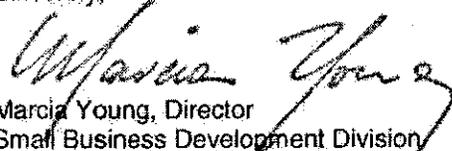
Now that your firm is certified, learn the secrets of How to do Business with Broward County by attending our monthly workshop held every third Thursday of the month. For specific time and location, please visit our website at <http://www.broward.org/smallbusiness/welcome>.

In order to participate in Broward County projects, you must obtain a vendor registration number with the Broward County Purchasing Division. To obtain a vendor registration number go to, <http://www.broward.org/purchasing>. To review current Broward County Government bid opportunities visit: <http://www.broward.org/purchasing/currentsolicitations.htm>. Bid opportunities over \$30,000 will be advertised to vendors via e-mail. Please keep both the Purchasing Division and the Small Business Development Division apprised of your current e-mail address.

You are certified to participate in the following category(s): **Licensed professional services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Small Business Development Division Directory, located on the internet at: <https://www.broward.org/smallbusiness>. Click on "Small Business Directory".

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,



Marcia Young, Director
Small Business Development Division

Cert Agency: BC-CDBE SBE*

CERTIFICATION EXPIRATION DATE: 4/28/2011

BROWARD
COUNTY
FLORIDA

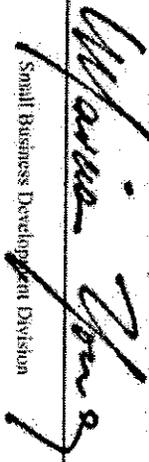
Small Business
Development Division

Governmental Center Annex
115 S. Andrews Avenue, Room A640 • Fort Lauderdale, Florida 33301 • 954-357-6400 • FAX 954-357-6010

This Certificate is Granted to:
Montgomery Consulting Group, Inc.

The requirements have been met for certification for:
Community Disadvantaged Business Enterprise
Small Business Enterprise

As set forth in the Business Opportunity Act of 2004 and/or The Community Disadvantaged Business Enterprise Act of 2007, The Small Business Development Division must be notified within 30 days of any material changes in the business which may affect ownership and control. Failure to do so may result in the revocation of this certificate and/or imposition of other sanctions.


Small Business Development Division

BC-CDBE SBE* Certificate Expires: 4/28/2011

Broward County Board of County Commissioners
Josephus Eggelston, Jr. • Sue Gunzburger • Kristin D. Jacobs • Ken Keechil • Ilene Lieberman • Stacy Ritter • John E. Rodstrom, Jr.
Diana Wasserman-Rubin • Lois Wexler
www.broward.org/smallbusiness

Appendix C Resumes





HARRIS MILLER MILLER & HANSON INC.

Ted Baldwin Senior Vice President

Experience

HMMH, 1984-present
Bolt Beranek and Newman Inc., 1981-4
Massachusetts Port Authority, 1977-81

Education

M.C.R.P., Harvard University,
Cambridge, MA, 1977, Department
Scholar
B.S., Engineering, Cornell University,
Ithaca, NY, 1975, Honors Graduate

Affiliations

Federal Aviation Administration
Certificate of Appreciation, 1989
Member, American Association of
Airport Executives, 1981-present
Member, Institute of Noise Control
Engineering, 2004-present
Associate Member, Acoustical Society
of America, 1985-present

Ted Baldwin specializes in airport environmental analysis. His professional experience includes 14 CFR Part 150 noise compatibility studies, Part 161 use restriction studies, state and federal environmental impact assessments, noise elements of Airport Master Plan studies, the design and use of permanent noise and operations monitoring systems, noise measurement and modeling, and expert testimony.

In 1989, Mr. Baldwin received the first "Federal Aviation Administration Certificate of Appreciation" awarded by the New England Region to a non-FAA employee. The certificate recognized his "ability to deal objectively with the controversial issue of airport noise," his "sensitivity and balance in representing both the pro and con of the noise issue," and his efforts "to promote aviation safety, understanding, goodwill, and recognition of the FAA and its mission

In 2008, he was the technical lead on a project team assisting Martin County Airport / Witham Field (Stuart, Florida) in a "noise abatement departure profile demonstration project" that won the first "Noise Abatement Award" presented by the Florida Airports Council "to recognize a project that reduces the impact of operations on a neighboring community using operational measures." The Florida Department of Transportation subsequently presented HMMH the "2009 General Aviation Airport Project" award "in recognition of outstanding achievements in airport aesthetics, safety and service in the State of Florida," for the firm's role in the demonstration.

Before entering consulting, Mr. Baldwin held several responsible staff positions at the Massachusetts Port Authority (Massport), operator of Boston-Logan International and L.G. Hanscom Field (Bedford, MA). Through his Massport experience he gained an understanding of an airport operator's perspective on planning, operational and environmental issues.

Representative Projects

14 CFR Part 150 Studies

- Witham Field / Martin County Airport, Stuart, FL (2010), Project Manager
- Naples Municipal, Naples, FL (1997, 1998, 2000, 2010), Project Manager
- Burlington International Airport, VT (1989, 2008), Principal-in-Charge
- Fresno Yosemite International, Fresno, CA (2006), Principal-in-Charge
- Lehigh Valley Internat'l, Allentown, PA (1991, 2004), Project Manager
- Manchester Airport, Manchester, NH (2004), Principal-in-Charge
- Scottsdale Airport, AZ (2004), Part 161 assistance, Project Manager
- St. Lucie County International, Fort Pierce, FL (2004), Project Manager
- Piedmont Triad International, Greensboro, NC (2004), Project Manager
- Vero Beach Municipal, Vero Beach, FL (2004), Project Manager
- Fort Lauderdale Executive, FL (1985, 1997, 2002), Project Manager
- Tampa International, Tampa, FL (2000), HMMH Project Manager
- Salt Lake City International, UT (1986, 1998), Project Manager
- Chattanooga Municipal Airport, TN (1994), Project Manager
- Fort Lauderdale Internat'l, Fort Lauderdale, FL (1994), Project Manager
- Palm Beach International, West Palm Beach, FL (1994), Project Manager
- Youngstown Airport, Youngstown, OH (1994), Project Manager

Ted Baldwin, Senior Vice President

The FAA's New England Region Office awarded Mr. Baldwin with the first "Certificate of Appreciation for a non-FAA individual who has most significantly helped to promote recognition of the FAA."

The Regional Administrator noted that Mr. Baldwin "demonstrated [his] ability to deal effectively with the controversial issue of airport noise," "reflected a sensitivity and balance in representing both the pro and con of the noise issue," and "successfully developed noise control programs that are consistent with aviation and community goals."

- Brunswick Municipal Airport, GA (1992), Project Manager
- Capital City Airport, Lansing, MI (1992), Project Manager
- Gulfport-Biloxi Municipal, Gulfport, MS (1991), Project Manager
- Mobile Regional, Mobile, AL (1990), Project Manager
- Sikorsky Memorial, Bridgeport, CT (1989), Project Manager
- Middle Georgia Regional, Macon, GA (1989), Project Manager
- Jackson-Evers International, Jackson, MS (1989), Project Manager
- Danbury Municipal, Danbury, CT (1987), Project Manager
- Nantucket Memorial, MA (1987), Noise Abatement Analysis
- Groton-New London, Groton, CT (1985), Assistant Project Manager
- Boston Logan International (map only), MA (1984), Project Manager
- T.F. Green State, Providence, RI (1982), Assistant Project Manager

14 CFR Part 161 and Related Studies

- Multi-Element Part 161 Study, Van Nuys Airport, CA (2010), Project Manager
- FAA Part 161 Grandfather Application for Stage 1 and 2 Phaseout, Van Nuys Airport, CA (2010), Project Manager
- FAA Part 161 Grandfather Application for Extension Existing Terminal Capacity Agreement, Westchester County Airport, NY (2003) Noise Element
- Stage 2 Jet Use Restriction Study, Naples Municipal Airport, FL (2001), Project Manager

Airport Noise and Operations Monitoring Systems

- Centennial Airport, Arapahoe County, CO (2010), Senior Advisor
- Witham Field / Martin County Airport, Stuart, FL (2009), Project Manager
- Denver International Airport, Denver, CO (2008), Project Manager
- East Hampton Airport, NY (2006), Assistant Project Manager
- Reno-Tahoe International, Reno, NV (2006), Assistant Project Manager
- San Francisco International, CA (2004), Assistant Project Manager
- Airports Company South Africa (nine airports) (2003), Project Manager
- Boston Logan Internat'l and Hanscom Field, MA (2003), Project Manager
- Indianapolis International, Indianapolis, IN (2003), Project Manager
- Lehigh Valley International, Allentown, PA (2003), Project Manager
- Louisville International, Louisville, KY (2003), Project Manager
- Raleigh Durham International, Raleigh, NC (2003), Project Manager
- San Antonio International, TX (2003), Assistant Project Manager
- Tampa International, Tampa, FL (2001) Project Manager
- Naples Municipal, Naples, FL (1997), Project Manager
- North Palm Beach County, FL (1997), Project Manager
- Palm Beach County Park, Lantana, FL (1997), Project Manager
- Palm Beach International, West Palm Beach, FL (1997), Project Manager
- Chicago O'Hare and Midway, Chicago, IL (1995), Project Manager
- Fort Lauderdale International, FL (1995), Project Manager
- Denver International, Denver, CO (1995), Project Manager
- John Wayne-Orange County, CA (1995), Assistant Project Manager
- Louis Armstrong Internat'l, New Orleans, LA (1995), Project Manager
- Westchester County, White Plains, NY (1995), Project Manager

Ted Baldwin, Senior Vice President

- Minneapolis-St. Paul, Minneapolis, MN (1993), Project Manager
- Salt Lake City International, Salt Lake City, UT (1993), Project Manager
- Port Columbus International, Columbus, OH (1992), Project Manager
- Denver Stapleton, Denver, CO (1988), Project Manager
- Baltimore-Washington International, MD (1986), Project Manager

Airport Master Plan Noise Analyses

- Fort Lauderdale Executive, FL (1985, 1997, 2002), Project Manager
- Tampa International, Tampa, FL (2000), Project Manager
- Salt Lake City International, UT (1998), Manager of Noise Element
- Sikorsky Memorial, Bridgeport, CT (1995), Project Manager
- Fort Lauderdale International, FL (1994), Project Manager
- North Central State, Pawtucket, RI (1987), Project Manager
- Salt Lake City Municipal 2, Salt Lake City, UT (1987), Project Manager
- Danbury Municipal, Danbury, CT (1983), Project Manager

Environmental Assessments or Impact Studies

- Displaced Runway Thresholds, Naples Municipal Airport, FL (2010), Noise Element
- Noise Abatement Departure Flight Track EA, Fort Lauderdale Executive, FL, (2010), Principal-in-Charge
- California Environmental Quality Act (CEQA) Environmental Impact Report (EIR) for Stage 1 and 2 Phaseout, Van Nuys Airport, CA (2010), Noise Element Project Manager
- Runway Extension EA, Lehigh Valley International, Allentown, PA (2007)
- Runway Extension EIS Noise Element, Fort Lauderdale International, FL (2003), Project Manager
- Runway Extension EIS Noise Element, Palm Beach International, West Palm Beach, FL (1998), Principal-in-Charge
- Runway Extension EIS Noise Element, Sikorsky Memorial, Bridgeport, CT (1998), Project Manager
- Parallel Runway EA, Salt Lake City International, UT (1992), Project Manager
- Runway Strengthening EA Noise Element, Myrtle Beach International, SC (1998), Project Manager

Other Noise Exposure, Abatement, and Land Use Compatibility Studies

- Noise abatement Profile Demonstration Study, Witham Field, Stuart, FL (2007), Project Manager
- Airport Layout Plan Amendment Noise Analyses, Witham Field, Stuart, FL (2007), Project Manager
- Helicopter Facility Relocation Noise Analyses, Witham Field, Stuart, FL (2006), Principal-in-Charge
- Noise Abatement Study, Hyannis, MA (1998), Project Manager
- Noise Exposure Update, Dallas Love Field, Dallas, TX (1983, 1984, 1985, 1986), Project Manager
- Evaluation of Reinstitution of Night Landings, Westchester County Airport, White Plains, NY (1982), Project Manager
- ANCLUC Study, Hanscom Field, Bedford, MA (1980), Project Manager

Expert Testimony and Litigation Support

- Telnack et al. vs. Martin County (FL) (2009)
- Crowder vs. Chesapeake Airport Authority (2009)
- Osipovs vs. Chesapeake Airport Authority (2007)
- Naples (FL) Airport Authority vs. Federal Aviation Administration (2003)
- NBAA and GAMA vs. City of Naples (FL) Airport Authority (2001)
- Aircraft Owners and Pilots Assoc'n et al. vs. City of Chicago et al. (1995)
- Wakefield/Austin vs. Broward County (FL) (1992)
- Stark vs. City of Atlanta (GA) (1988)
- Sarasota-Manatee Airport Authority vs. Manatee County (FL) (1986)
- Katsos et al. vs. Salt Lake City International Airport Authority (1986)
- Gratkie et al. vs. Allegheny County (PA) Department of Aviation (1983)
- Nat'l Business Aircraft Assoc'n et al. vs. Westchester County (NY) (1982)

Representative Publications and Presentations

- "Martin County Airport / Witham Field Noise Abatement Departure Procedure (NADP) Demonstration," Florida Airports Council Environmental and Noise Conference, Daytona Beach, FL (January 2009)
- "Survey of Helicopter Noise Abatement Procedures," Florida Airports Council Environmental and Noise Conference, Daytona Beach, FL (January 2009)
- "What Do Users Say About Their Monitoring Systems?" Florida Airports Council Environmental and Noise Conference, Jacksonville, FL (January 2007)
- "The Naples Stage 2 Ban," Airports Council International - North America Annual Conference; Toronto, Canada (September 2005)
- "Emerging Aircraft Noise Issues," FAA/Airport Consultants Council National Management Conference Environmental Workshop; Washington, D.C. (July 2000)
- "Political Acoustics: The Changing Dynamics of Aircraft Noise," Florida Airport System Planning Process meetings; Fort Myers and Fort Lauderdale, FL (February 2000)
- "The Anatomy of a Successful Project," Airport Consultants Council Annual meeting; Palm Springs, CA (November 1997)
- "Hot Topics in Aviation Noise: A Selective List;" Florida Airport Managers Association Noise Abatement and Community Affairs Annual Seminar; Orlando, FL (October 1997)
- "The Evolution of Airport Noise Monitoring Systems: Recent Achievements and Further Needs," NOISE-CON 93; Williamsburg, VA (May 1993)
- "Limitations of Ldn in the Assessment of Airport Noise," American Society for Testing and Materials, Noise Subcommittee E-33-96; Bal Harbour, FL (October 1987)
- "Airport Noise Annoyance at Three Joint Air Carrier and General Aviation Airports," Journal of the Acoustical Society of America, Vol. 77, No. 3, March 1985, page 1054 (with Fidell, et al.)



HARRIS MILLER MILLER & HANSON INC.

Mary Ellen Eagan

President

Experience

HMMH, 1984-present

Education

B.S., Operations Research, Cornell University, Ithaca, NY 1984
M.B.A., Simmons College, Boston, MA 2002, *magna cum laude*

Affiliations

Member, Institute of Noise Control Engineering
Chair, Transportation Research Board Committee on Effects of Aviation on the Environment (AV030)
Joint Planning and Development Office (JPDO) Airports Working Group and Environmental Working Group (Policy Standing Committee)
Chair, Airport Consultants Council (ACC) Environmental Committee
Vice-Chair, Airports Council International North America (ACI-NA) Noise Working Group
UC Berkeley Institute of Transportation Studies Aviation Noise & Air Quality Symposium Program Committee

Ms. Eagan's consulting practice focuses on the environmental impacts of aviation, with a particular emphasis on noise. Her experience includes FAR Part 150 studies, state and federal environmental evaluations, and on-call noise consulting at a number of airports.

Ms. Eagan serves as consultant to the Federal Interagency Committee on Aviation Noise (FICAN). Ms. Eagan is familiar with federal aviation noise research conducted throughout FICAN member agencies, especially as it relates to the effects of noise on people. Ms. Eagan is principal author of all of FICAN's findings and reports to date and is the lead investigator for FICAN's study of the effects of aircraft noise on children's learning. Ms. Eagan developed HMMH's Integrated Noise Model (INM) and other aviation training courses. She has taught the course throughout the U.S. and around the world.

Ms. Eagan chairs the Transportation Research Board's Committee on the Effects of Aviation on the Environment, as well as the Airport Consultants Council Environmental Committee; she co-chairs the Airport Council International – North America Environmental Committee's Noise Working Group; and is a member of the FAA's Joint Planning and Development Office (JPDO) Airports Integrated Product Team and Environmental Policy Working Group. She also and serves on the University of California's Aviation Environmental Symposium Program Committee.

Ms. Eagan became HMMH's third President in July 2004. Notably, Ms. Eagan is the first non-founder in that role. Widely known throughout the aviation industry, Ms. Eagan also has participated in rail and highway noise projects since joining HMMH in 1984. She holds a BS in Engineering from Cornell University and an MBA from Simmons College.

Ms. Eagan's current assignments include:

- T.F. Green Airport, Providence, RI Airport Expansion EIS
- FICAN Support: Committee organization, evaluation of research objectives, preparation of FICAN statements
- Development of Fly Quiet Program at Portland International Airport
- On-call consulting to the Palm Beach County Department of Airports

Representative Projects

Environmental Assessments, Environmental Impact Studies

- T.F. Green, Providence, RI (2005-present), *Principal in Charge*
- New Bedford Regional, New Bedford, MA (2005), *Principal in Charge*
- Baltimore-Washington International, Baltimore, MD (2002), *Project Manager*

14 CFR Part 150 Studies

- Baltimore-Washington International, Baltimore, MD (2004-2007), *Principal in Charge*
- Burlington International, Burlington, VT (2006-2007), *Principal in Charge*

Mary Ellen Eagan President

- Palm Beach International, West Palm Beach, FL (1991-1993 and 2000-2002), *Project Manager*
- Naples Municipal, Naples, FL (1994-1996 and 1998), *Project Manager*

“The industry has always needed ways to make the scientific findings about aircraft noise more understandable to the public and to courts. My hat is off to Mary Ellen for taking the time to think this through and try some objective approaches to mapping noise effects.”

– Burr Stewart, Port of Seattle

- Specialized Noise Analyses / On-call Noise and Acoustics Consulting*
- HMMH INM Training (1996-present), *Lead Instructor*
 - Support to the Federal Interagency Committee on Aviation Noise (FICAN) (1994-present), *Project Manager*
 - Study on the Effects of Aircraft Noise on Children’s Learning (2001-2004), *Project Manager*
 - On-call noise consulting, Maryland Aviation Administration (1998-present), *Principal in Charge*
 - On-call noise consulting, Palm Beach County Department of Airports (1999- present), *Project Manager*
 - Development of Fly Quiet Program, Ft. Lauderdale International Airport (2006 -2007), *Principal in Charge*
 - On-call noise consulting, Rhode Island Airport Corporation (2005-present), *Project Manager*

Representative Publications and Presentations

- *TRB Airport Cooperative Research Program (ACRP) Synthesis 16: Compilation of Noise Programs in Areas Outside DNL 65*, August 2009.
- *Transportation Research Record: Journal of the Transportation Research Board*, “Supplemental Metrics to Communicate Aircraft Noise Effects”, Volume 2011, 2007.
- *Critical Issues in Aviation and the Environment 2005*, Transportation Research Board Circular, E-C089 (November 2006)
- *Relation Between Aircraft Noise Reduction in Schools and Standardized Test Scores*, Federal Interagency Committee on Aviation Noise, (February, 2004)



HARRIS MILLER MILLER & HANSON INC.

Robert Miller Senior Vice President

Experience

HMMH, 1981-present
Bolt Beranek & Newman Inc., Senior
Technical Staff, 1972-1981
U.S. Air Force, F-102 pilot, 1967-1972

Education

B.A., Mathematics, Carleton College,
Northfield, MN; 1967
Graduate courses, Computer Science
and Architectural Acoustics,
Northeastern and Harvard Universities,
Boston, MA 1973 to 1975

Affiliations

Member, Acoustical Society of America,
1976-present
Member, Institute of Noise Control
Engineering, 1978-present

A co founder and Chairman of the Board of Harris Miller Miller & Hanson Inc., provides guidance on corporate development and new technologies, and consults directly for HMMH's aviation clients. Mr. Miller manages major projects at Los Angeles, Logan, Denver, and Philadelphia International Airports as well as at several smaller facilities. He has been a consultant to the Federal Interagency Committee on Aviation Noise (FICAN), has served as a member of the FAA's Design Review Group guiding development of the Integrated Noise Model, and has organized and serves as an expert witness on aviation noise. His system-related projects have included design, production, and installation of state-of-the-art radar data acquisition and analysis systems for a number of commercial and military airports throughout the U.S.

Mr. Miller's current projects include managing noise-related tasks on two streamlined Environmental Impact Statements (EISs) for a runway extension and a capacity enhancement program at Philadelphia, and he is managing the noise portions of another major EIS for a new airport to serve Las Vegas. For Los Angeles World Airports, Mr. Miller is Project Director of two 14 CFR Part 161 use restriction studies – one at Los Angeles International and one at Van Nuys; he manages the project at LAX.

Mr. Miller's recent past work has included the noise portions of a controversial EIS for a new unidirectional runway at Logan International Airport in Boston and a related follow-on project to further assess the noise and air quality effects from a proposed centerfield taxiway. Also at Logan, he evaluated and developed recommendations for improving a Flight Management System (FMS) Radio Navigation (RNAV) departure procedure, and he investigated terrain effects on aircraft noise, receiving FAA approval for unique terrain adjustments that resulted in an expanded residential sound insulation program for nearby homes overlooking the airport. For Denver International, Mr. Miller helped develop and assess the benefits of a voluntary runway use program for hushkitted aircraft departing off of its most noise-sensitive runway, and at Portland, Maine, he conducted a 14 CFR Part 150 noise compatibility study and also developed a noise abatement program for a new helipad atop the Maine Medical Center.

Representative Projects

14 CFR Part 150 and 161 Studies

- Part 161 Studies, Los Angeles International and Van Nuys, Los Angeles, CA (2004-ongoing), *LAX Project Manager; overall Project Director*
- Part 150 Noise Compatibility Update, Portland International Jetport, Portland, ME (2002-2004), *Project Manager*
- Part 150 Noise Compatibility Study, Denver International, Denver, CO (2001-2002), *Project Manager*
- Part 150 Noise Compatibility Study, University Park Airport, State College, PA (2001-2002), *Project Manager*
- Feasibility and Programming Study of a 14 CFR Part 150 Noise Compatibility Model for the FAA's Office of Environment and Energy, Washington, D.C. (1995), *Project Manager*

Robert Miller, Senior Vice President

Regarding the streamlined EIS for Runway 17-35 at PHL managed by Mr. Miller:

"HMMH prepared excellent presentations and materials, and staffed the meetings with knowledgeable experts that related well to the public. ...Their attention to detail and ease in addressing audiences ranging from several hundred to one, in a calm, rational manner was instrumental in making FAA's public outreach successful.

"During the project, the only challenge was related to noise impacts. The FAA was so confident in HMMH's work that not only did we provide the requested information, but we also allowed HMMH to assist the challenger in understanding and recreating the noise results. As expected HMMH's work stood up to the challenge and the issue quickly disappeared."

Susan L. McDonald,
Environmental Protection
Specialist, Harrisburg ADO,
January 23, 2006

- Part 150 Noise Compatibility Program, Westover Metropolitan Airport and Air Reserve Base, Chicopee, MA (1994), *Project Manager*
- Part 150 Noise Compatibility Study, DeKalb Peachtree, Volumes I-III", Decatur, GA (1993), *Project Manager*

Environmental Assessments/Impact Statements

- EIS for a new airport near Las Vegas, Ivanpah Valley, NV, (2005-ongoing), *Project Director*
- EA for a runway extension, Portland International Airport, Portland, OR (2007-present), *Project Advisor*
- Two EIS for Philadelphia International Airport, Philadelphia, PA – an extension to Runway 17-35 (2003-2005), and a Capacity Enhancement Program (2003-ongoing), *Project Manager*
- EIS for the O'Hare Modernization Program, Chicago, IL (2004-2006), *Project Director*
- EA for the Cleveland-Detroit Airspace Redesign (OH, MI, and Canada) (2005), *Project Director*
- EIS/EIR and litigation support for airside improvements, including a new unidirectional runway, Logan International, Boston, MA (1995-2002), *Project Manager*

Other Airport Noise Studies

- Analysis of Proposed Intersection Takeoffs on Denver International Airport's Runway 34L, Denver, CO (2004), *Project Manager*
- Installation of radar data processing software with automated reporting of potential noise rule violations, Logan International, Boston, MA (2002-2003), *Project Manager*
- Annual noise analyses for Logan Airport in compliance with Massachusetts Environmental Policy Act, Massport, Boston, MA (1990-ongoing), *Project Manager and Director*
- Preparation of testimony in "Town of Hull v. Massachusetts Port Authority", Ropes & Gray, Boston, MA (2002), *Expert Witness*
- Aircraft noise study for Westchester County Airport, Westchester, NY (2001-2002), *Project Manager*
- Analysis of Noise Exposure Benefits Resulting from Reduced Use of Runway 25 by Hushkitted Stage 3 Aircraft, Denver International, Denver, CO (2001), *Project Manager*
- Effects of Terrain on Aircraft Noise in East Boston, Logan international, Boston, MA (2000), *Project Manager*
- Aircraft Noise Exposure Assessment at Madrid-Barajas International Airport, Aeropuertos Españoles y Navegación Aérea, Madrid, Spain (1997), *Project Manager*
- Flight Track Monitoring Program, Logan International, Boston, MA (1996), *Project Manager*
- Noise Analyses of Alternatives to the High Density Rule at Kennedy, LaGuardia, National, and O'Hare Airports", for the Federal Aviation Administration, Washington, D.C. (1995), *Project Manager*



HARRIS MILLER MILLER & HANSON INC.

Douglas Barrett

Vice President and Principal Consultant

Experience

HMMH, 1986-1989
HMMH, 1991-present

Education

M.A., Environmental Studies, Brown University, Providence, RI, 1991
B.A., with Distinction, Physics, Cornell University, Ithaca, NY, 1986

Affiliations

Member, Transportation Research Board Committee on Transportation-Related Noise and Vibration (ADC40)
Member, Institute of Noise Control Engineering, 1999-present

Since joining HMMH in 1986, Mr. Barrett has been active in a wide variety of airport ground noise studies throughout North America. His experience in these projects ranges from commuter airline facilities to major air carrier hubs and has involved assessment and abatement of noise sources including engine run-ups, takeoff roll, thrust reverse, taxi and gate operations, auxiliary power units, and ground power units. In addition to being an experienced project manager, Mr. Barrett has an exceptional technical background including comprehensive field data collection, development of noise model inputs, and verification of modeling results.

Recently Mr. Barrett completed a project at Port Columbus International Airport that progressed from initial planning and site selection through substantial completion of a dedicated run-up ramp/barrier system in one year. Other recent projects include broader aircraft ground noise studies at Chicago's O'Hare International Airport and at Anchorage International Airport.

Representative Projects

Aviation Projects

- 13th Avenue Noise Wall/Berm Design Study, Port Columbus International, Columbus, OH (2009), *Project Manager*
- I-95 Departure Turn Environmental Assessment, Ft. Lauderdale Executive Airport, Ft. Lauderdale, FL, (2007-2009), *Project Manager*
- Capacity Enhancement Program EIS, Philadelphia International Airport, Philadelphia, PA (2006-2008), *Task Manager: Aircraft Ground Noise and Roadway Traffic Noise*
- Airport Improvement Program EIS, T.F. Green Airport, Warwick, RI, (2006-2009), *Task Manager: Aircraft Ground Noise and Roadway Traffic Noise*
- 14 CFR Part 161 Study, Los Angeles International, Los Angeles, CA (2005-2009), *Assistant Project Manager*
- 14 CFR Part 150 Study, Piedmont Triad International, Greensboro, NC (2004-2005), *HMMH Project Manager*
- Regional Jet and Turboprop Rerouting Proposal Environmental Assessment, Boston-Logan International, Boston, MA (2004-2005), *Project Manager*
- Ground Run-up Noise Barrier Evaluation, Port Columbus International, Columbus, OH (2004-2005), *Project Manager*
- Modernization Program EIS, O'Hare International, Chicago, IL (2004), *Ground Noise Analysis*
- Evaluation of Ground Operations Noise, Nantucket Memorial, Nantucket, CT (2003), *Project Manager*
- Analysis of Acoustical Effects of Hangar Placement, General Mitchell International, Milwaukee, WI (2002-2003), *Project Manager*
- Ground-noise Analysis, Pease International Tradeport, Portsmouth, ME (2002-2003), *Project Manager*
- Investigation of Ground-noise Issues (APU and General Ramp Noise, Run-ups), Palm Beach International, Palm Beach, FL (2002), *Project*

Eugene Reindel, Vice President

“Most important to me has been the ability to call Mr. Reindel at anytime throughout the process and get answers to important questions as they arise.”

Mr. Bert Ganoung, Manager, Aircraft Noise Abatement, San Francisco International Airport

“Mr. Reindel presents noise information that is easily understood and that no other acoustical expert with whom my firm has worked has communicated this information as well.”

Mr. Michael Hotaling, Vice President, C&S Engineers, Inc.

- Ted Stevens Anchorage International, Anchorage, AK (2004), *Project Manager*
- Reid-Hillview, East San Jose, CA, (2002-present), *Project Manager*
- San Antonio International, San Antonio, TX, (2002-present), *Project Manager*
- San Diego International, San Diego, CA, 2002-2004, *Assistant Project Manager*
- San Francisco International, San Francisco, CA, (2000-2007), *Project Manager*

Airport Sound Insulation Programs

- Cleveland Hopkins International, Cleveland, OH (2007-present), *Principal in Charge*
- Buffalo International, Buffalo, NY (2006-present), *Principal in Charge*
- Tulsa International, Tulsa, OK, (2006-present), *Principal in Charge*
- Los Angeles International, Inglewood, CA (2004-present), *Principal in Charge*
- Boston's Logan International, Boston, MA, (2004-present), *Principal in Charge*
- Ted Stevens Anchorage International, Anchorage, AK (2004-present), *Principal in Charge*
- Tampa International, Tampa, FL, (2004) *Assistant Project Manager*

Airport Ground Noise Studies

- Low-Frequency Noise Study, San Francisco International, San Francisco, CA (2000-2003), *Project Manager*
- Ground Engine Run-up Enclosure Study, Seattle-Tacoma International, Seattle, WA (2001), *Assistant Project Manager*
- Ground Engine Run-up Enclosure Acceptance Noise Test, Portland Int'l, (2001), *Noise Measurements*
- North Taxiway Extension Noise Study, San Diego International, San Diego, CA (1999-2001), *Project Manager*

Airport Environmental Studies

- Runway Extension EA, Portland International, Portland, OR, (2007-present), *Project Manager*
- New Ivanpah Airport EIS, Ivanpah Valley, NV (2006-present), *Technical Lead for Noise Measurement Program*
- Modernization Program EIS, Chicago O'Hare, Chicago, IL, (2003-2005), *Project Manager*
- Runway Extension EA, Eagle County Airport, Eagle, CO, (2003-2005), *Project Manager*

Helicopter Noise Studies

- University of California Helipad Noise Study, Los Angeles, CA (2009), *Principal in Charge*
- University of California Hospital Helipad EIR, San Francisco CA (2007-2009), *Principal in Charge*
- San Francisco General Hospital Helipad EIR, San Francisco, CA (2004-present), *Project Manager*
- Mohler Residential Helipad, Livermore, CA (2004), *Project Manager*



HARRIS MILLER MILLER & HANSON INC.

Robert Mentzer, Jr. Senior Scientist

Experience

HMMH, 1994-present
Sigma Research Corporation, 1988-1992

Education

B.S., Meteorology, University of Massachusetts, Lowell, 1989

Affiliations

Member, Air & Waste Management Association, 1995-present
Member, Sigma Gamma Epsilon (National Honor Society for the Earth Sciences), 1989-present
Member, FAA Aviation Environmental Design Tool (AEDT) Design Review Group, 2004 - present
Member, FAA Integrated Noise Model (INM) Design Review Group, 1996 - present

Robert Mentzer specializes in airport environmental noise analyses for airports. He manages HMMH's Aviation Noise Modeling Center for Excellence.

Mr. Mentzer is nationally recognized as one of the most experienced users of the Federal Aviation Administration (FAA) Integrated Noise Model (INM). The FAA has acknowledged that he is the most active contributor to the INM's design review process. He assists in the preparation and presentation of HMMH's INM course, which over 400 students have attended worldwide.

He is experienced in the use of HMMH's proprietary software packages, PREFLIGHT, ARTSMAP and RealContours™, that the firm uses to process data from the FAA's Automated Radar Terminal Service (ARTS) system and to compute noise contours directly from radar data. He also is a highly skilled user of the FAA's Helicopter Noise Model (HNM) and the Department of Defense's NOISEMAP.

Mr. Mentzer has led the preparation of noise contours for over 50 airports, including noise elements of Part 150 Land Use Compatibility Planning Studies, Part 161 Noise and Access Restriction Studies, Environmental Assessments, Environmental Impact Statements, Airport Master Plan Studies, and other studies concerning airport noise.

As a consultant with Sigma Research Corporation (now EarthTech), Mr. Mentzer worked with most of the current Environmental Protection Agency (EPA) Guideline models. He was involved in several power plant permitting projects and dispersion modeling studies.

Representative Projects

14 CFR Part 150 and 161 Studies

- 14 CFR Part 150 Study, Piedmont-Triad International, Greensboro, NC (Start year-2002), *Lead Noise Modeler*
- 14 CFR Part 150 Study, Denver International, Denver, CO (Start year-2002), *Lead Technical Analyst*
- 14 CFR Part 150 Study, Boca Raton Airport, Boca Raton, FL (start year-2001), *Noise Modeling*
- 14 CFR Part 161 Stage 2 Jet Use Restriction Study, Naples Municipal, Naples, FL (Start year-2001), *Noise modeling*
- 14 CFR Part 150 Study, Naples Municipal, Naples, FL (Start year-2000), *Noise modeling*
- 14 CFR Part 150 Study, Tampa International, Tampa, FL (Start year-2000), *Noise Modeling*
- 14 CFR Part 150 Study, Juneau International, Juneau, AK (start year-1999), *Lead Technical Analyst*
- 14 CFR Part 150 Study, Martin State, Baltimore, MD (Start year-1999), *Noise modeling*
- 14 CFR Part 150 Study, Baltimore/Washington International, Baltimore, MD (start year-1998), *Noise modeling*

Robert Mentzer, Senior Scientist

Master Plan and Environmental Assessment or Impact Studies

Mr Mentzer has been instrumental in the development of the annual noise contours and report for Massport for over ten years. Recently he led the switch from Massport's process of developing noise contours to utilizing the RealContours™/RealProfiles™ system from HMMH. This system allows Massport to utilize its investment in radar tracking to fully support noise contour development by modeling every radar track captured by the Massport system.

- T.F. Green Airport Improvement Program EIS, Providence, RI (Start year - 2004), *Project Manager & Lead Technical Analyst*
- Capacity Enhancement Program EIS, Philadelphia International, Philadelphia, PA (Start year - 2004), *Lead Technical Analyst*
- I-95 Turn EA, Fort Lauderdale Executive, Fort Lauderdale, FL (start year-2008), *Lead Technical Analyst*
- Runway 17-35 Extension EIS, Philadelphia International, Philadelphia, PA (2004-2006), *Lead Technical Analyst*
- EA noise contours, Piedmont Triad International, Greensboro, NC (2006), *Lead Technical Analyst*
- Final EA for Proposed Rerouting of Aircraft within Boston Consolidated TRACON Airspace, MA (2004-2005), *Lead Technical Analyst*
- Runway Extension EIS, Fort Lauderdale International, Fort Lauderdale, FL (2002), *Noise modeling*
- Operational Noise Mitigation Procedures EA, Miami International, Miami, FL (start year-2002), *Lead Technical Analyst*

Helicopter Noise Analyses

- Helicopter Noise Analysis, Martin County Airport, FL (2006)
- Helicopter Noise Analysis, Martin State Airport, MD (2001)
- Helipad Noise Study, Redding Medical Center, Redding, CA (2001)
- Helipad Noise Study, McConnell Foundation, CA (1999)
- 14 CFR Part 150 Study, including helicopter flights, Martin State Airport, Baltimore, MD (1999), *Noise contour preparation*

Other Airport Noise Exposure, Abatement and Land Use Compatibility Studies

- Noise Office technical support, Boston-Logan International, Boston, MA (1998-present), *Noise Modeling & Technical support*
- Existing and Future Noise Contours and Evaluation of a Runway Extension, Kendall-Tamiami Executive Airport, Miami-Dade County, FL (2004-2005), *Project Manager*
- Environmental Data Report, Boston-Logan International, Boston, MA (2004-2008), *Project Manager*
- Noise Abatement Study, Barnstable Municipal Airport, City, MA (1998), *Noise Modeling*
- Noise Contour Preparation and Analysis, Westchester County, White Plains, NY (2001), *Noise Modeling*
- Annual Noise Contours, Boston-Logan International, Boston, MA (1995-2008), *Noise Modeling*
- Annual Noise Contours, Palm Beach International, West Palm Beach, FL (1995-2004), *Noise Modeling*
- Annual Noise Contours, Fort Lauderdale-Hollywood International, Fort Lauderdale, FL (1995 - 2000), *Noise Modeling*
- Annual Noise Contours, Raleigh-Durham International, Raleigh, NC (1999-2001, 2005), *Noise Modeling*



HARRIS MILLER MILLER & HANSON INC.

Hugh Enxing Product Development Manager

Hugh Enxing has provided new direction for the company in software standards and practices. Mr. Enxing has also brought deep experience in the areas of product management, project management, team leadership and software architecture to HMMH. His primary focus over the past few years has been on the architecture and design of InFLIGHT, a state of the art software product for flight track monitoring, and on the enhancement of HMMH's RealContours software, a pre-processor for the FAA's Integrated Noise Model (INM).

Mr. Enxing, while at HMMH from 1995 to 2000, re-architected the Airport Noise and Operations Monitoring System (ANOMS) to stabilize the product, make it robust and supportable, and bring it into Y2K compliance. Prior to joining HMMH, Mr. Enxing was a freelance consultant developing database-enabled web applications as well as integrating new radar system interfaces with live, animated web presentations.

Representative Projects

InFLIGHT Product Development

- Architected and designed a state-of-the-art software product for Flight Track Monitoring.
- Developed advanced visualization capabilities with Air Traffic Density plots and 4D flight track displays.
- Installed and supported InFLIGHT at:
 - Nashville International
 - Minneapolis International

RealContours Product Development, Installation and Support

- Enhanced and stabilized RealContours software.
- Architect of HMMH's next generation of RealContours technology for Web-enabled deployment and AEDT integration.
- Provided installation and support services for RealContours at:
 - San Diego International
 - Sacramento International
 - Denver International
 - Miami International

Other Project Experience (prior to joining HMMH)

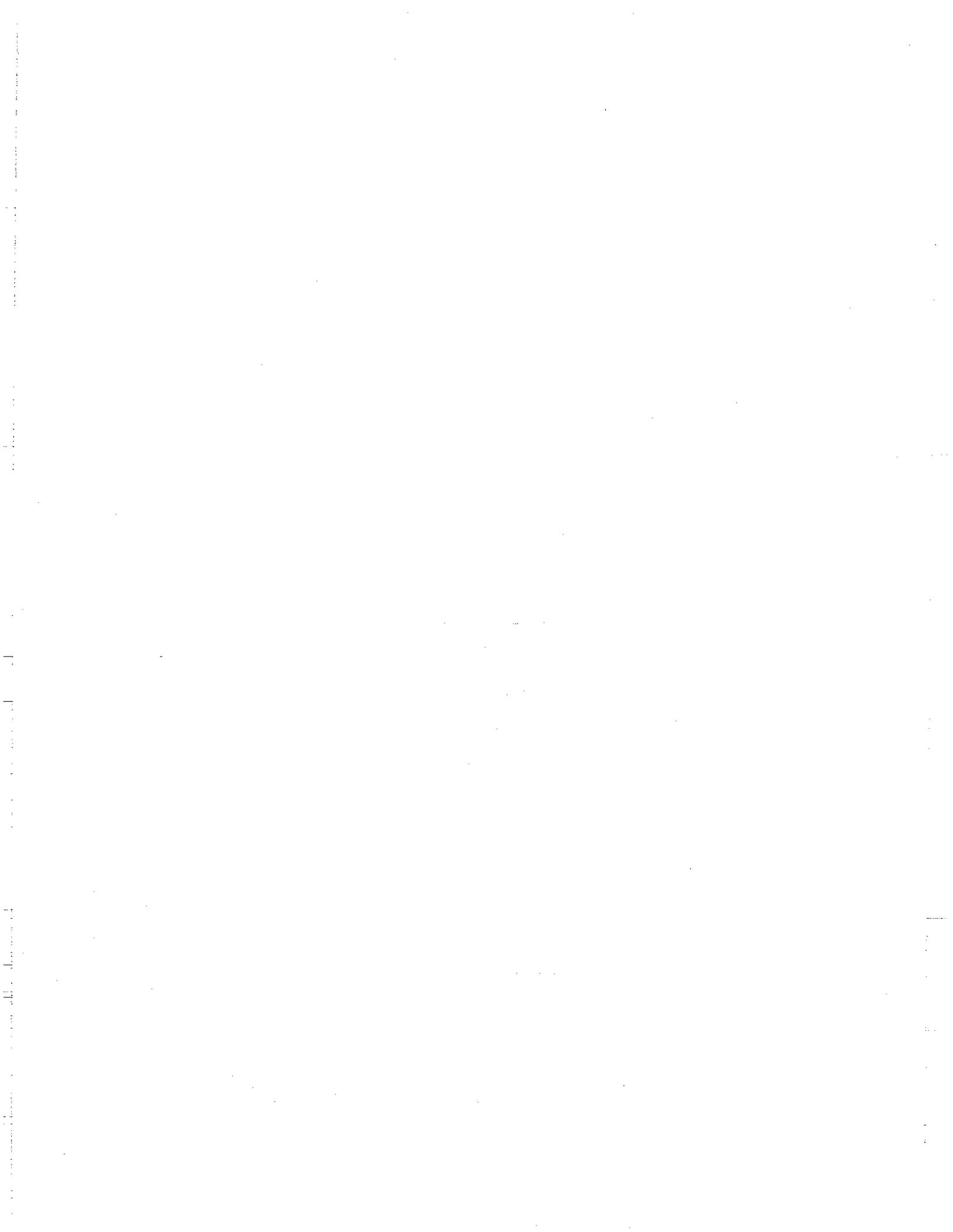
- Lochard's Flight Track Display, Stoneham, MA, 2002-2004, *Software Architect/Developer*; Public web site animating actual flight paths in the vicinity of an airport
- Rannoch (ERA) WebScene Flight Track Display, Nashua, NH, 2004, *Software Architect/Developer*; Public web site animating actual flight paths
- BAA, Radar and Noise Data Archival System (DAS), London, UK, 2001, *Project Manager, Team Leader, Architect*; Develop a robust, fault-tolerant data collection system for radar and noise data at Heathrow, Gatwick and Stansted airports

Experience

HMMH, 2004-present
Rannoch (ERA), 2004
Lochard, Corp, 2002-2004
BAA, 2001
KPMG, 2000-2001
HMMH, 1995-2000

Education

B.S.E.E., University of Lowell, Lowell, MA, 1981
Real-World Java Conference, 2007
Introduction to C++ Programming, December 1992 Semaphore Training
Windows NT Professional Developers Conference, July 1992
IEEE Seminar - March & April 1989, Instructor, 3D Computer Graphics
University of Massachusetts, Spring 1984, Courses in CAD/CAM and VLSI Design
GenRad Internal Management Development Program, 1984





HARRIS MILLER MILLER & HANSON INC.

Robin Gardner Consultant

Experience

HMMH, 2007-present
Seattle-Tacoma International Airport,
Noise Abatement Office, 2004-2006

Education

Masters of Public Administration,
Aviation Management concentration,
Southern Illinois University, Carbondale,
IL, 2002

B.A., Political Science, Loyola
University, Chicago, IL, 1985

Affiliations

Board Director & Member, Association
of California Airports, 2008-present
Member, American Association of
Airport Executives, 2000-present
Member, Women's Transportation
Seminar, 2003-present
Member, Aircraft Owners & Pilots
Association, 1991-present

Robin Gardner joined HMMH in 2007. She provides noise and vibration measurement and analysis support. Ms. Gardner has five years' experience performing noise measurements, analysis, and community outreach. Ms. Gardner is an experienced user of ANOMS - airport noise operations management system, and WebTrak/SkyTrak - a passive flight track radar antenna and near-real-time website, permanent and portable noise monitors, FAA's Integrated Noise Model (INM), Real Contours, and GEMS- global environment monitoring system.

Prior to joining HMMH, Ms. Gardner worked as a Noise Program Manager at the Port of Seattle where her primary responsibility was community outreach. She managed Noise Mitigation Programs, provided data collection and statistical analysis, and provided contract administration. She assisted in developing and writing land-use policies.

Representative Projects

- Noise and Operation Monitoring System for San Antonio International Airport, County of San Antonio (2009-present), *Testing, Assistant Project Manager*
- Sound Insulation Program for Los Angeles International Airport, City of Inglewood (2009-present), *Noise analyst, Project Manager*
- Noise and Operation Monitoring System, Reid-Hillview Airport, Santa Clara County Roads and Airports Department (2009-present), *Testing, Assistant Project Manager*
- Noise Land Inventory, Map, & Reuse Plan, Baltimore-Washington International Airport (2008-present) *Report Author, Project Manager*
- Noise and Operation Monitoring System for Reno-Tahoe International Airport, Reno Airport Authority (2008-present), *Testing and training, and Noise Monitor siting and installation, Assistant Project Manager*
- 14 CFR Part 150 Noise Study, San Diego International Airport, San Diego County Regional Airport Authority (2008-present), *Noise measurements, modeling*
- Beijing Capital International Airport Noise and Operations Monitoring System, Beijing, China (2008-present), *Noise and Operation Monitoring System training development*
- Quieter Homes Sound Insulation Program for San Diego International Airport, San Diego County Regional Airport Authority (2007-present), *Noise measurements and analysis, Project Manager*
- Transportation Research Board's Airport Cooperative Research Program (ACRP) Synthesis 16: Compilation of Noise Programs in Areas Outside DNL 65 Report (2008-2009), *Researcher and Analyst, Assistant Project Manager*
- On-call Noise Consultant and Quarterly Title 21 Reports, Port of Oakland/Oakland International, Oakland, CA (2007-present), *Report developer, Assistant Project Manager*
- Partnership for Quieter Skies Quarterly Reports and on-call noise consulting, Broward County/Fort Lauderdale-Hollywood International (2007-present), *Report coordinator and Assistant Project Manager*
- Bellingham International Airport Noise Contour Update, Bellingham, WA (2008-2009), *Noise measurements, Assistant Project Manager*

Robin Gardner, Consultant

"Ms. Gardner has always displayed a high degree of integrity, responsibility and ambition. Her most important contribution is her in-depth of knowledge of state-of-the-art NOMS (Noise and Operations Monitoring System). Her coordination with sub-contractors and me enabled the project field work to proceed efficiently and successfully. Also, her emphasis on technical accuracy ensures that she continually delivers high quality reports."

Winston B. Cannicle
BCAD Noise Information Officer

- Portland International Airport Fly Quiet Report, Portland, OR (2008-2009), *Report Developer*
- Noise Zone Contour Update, Palm Beach County, Palm Beach International Airport, Palm Beach, FL (2008), *Report coordinator*
- Transportation Research Board's Airport Cooperative Research Program (ACRP) Compatible Land-Use Planning Report (2007-2009), *Researcher*
- Capacity Enhancement Program Draft EIS, Philadelphia International, Philadelphia, PA (2007), *Assistant editor*
- Airport Noise Zone Update, Baltimore/Washington International, Baltimore, MD (2007), *Report coordinator*
- Fort Lauderdale International Airport RMT analysis, Fort Lauderdale, FL (2007), *Field Study, Noise Analyst and Assistant Project Manager*
- SkyTrak- a passive-reading aircraft antenna for use via a public website WebTrak, Seattle/Tacoma International Noise Abatement Office, Seattle, WA (2005), *Project Manager (Prior to joining HMMH)*
- ANOMS 8 scoping, testing, training, and project implementation, Seattle/Tacoma International Airport Noise Abatement Office, Seattle, WA (2005-2006), *Project Manager (Prior to joining HMMH)*

Representative Publications and Presentations

- California Title 21 Noise Report for Port of Oakland/Oakland International Airport (2007, 2008, 2009)
- Partnership for Quieter Skies for Broward County/Fort Lauderdale-Hollywood International Airport (2007, 2008, 2009)
- Synthesis 16: Compilation of Noise Programs in Areas Outside DNL 65 Report, Transportation Research Board's Airport Cooperative Research Program (ACRP) (2009)
- Compatible Land-Use Planning Report, Transportation Research Board's Airport Cooperative Research Program (ACRP) (2009)
- The Federal Aviation Administration's Public Involvement Guidance for Airports Compared to Robert Kendall's RAISE Framework for Community Relations Campaigns; Master's Research Paper, Southern Illinois University, (July 2002) *Prior to joining HMMH*
- An Examination of the 1993 Government Performance & Results Act: A Study of the Illinois Metropolitan Planning Organizations Presented Paper at the 30th National Conference of Minority Public Administrators, (February, 2001) *Prior to joining HMMH*
- Fly Quiet Report for Seattle-Tacoma International Airport, Noise Abatement Office; Approved by Citizen & Government Committee, Published via website and Seattle library system; Quarterly & Annual Reports (for 2004, 2005 & 2006) *Prior to joining HMMH*



HARRIS MILLER MILLER & HANSON INC.

Vinayak (Vinnie) Khera Principal Consultant

Experience

HMMH, 2006-present
Crown Consulting, 2002-2006
Landrum & Brown, 2001-2002
Center of Aviation & Aerospace
Research, 1999-2001

Education

MBA (aviation emphasis), Embry-Riddle
Aeronautical University, FL, Ongoing
B.S., Aircraft Engineering (minor in
Aviation Business Administration),
Embry-Riddle Aeronautical University,
FL, 1999
M.S., Environmental Engineering, Delhi
University, New Delhi, India, 1995
B.A., Business Economics, Delhi
University, New Delhi, India, 1994

Affiliations

Member, Airport Consultants Council
Member, Airports Council International
Member, American Association of
Airport Executives

Mr. Khera is a leading expert in the use of the Total Airspace and Airport Modeler (TAAM), having conducted airfield and airspace studies for a number of large and medium size commercial airports, civil aviation authorities, air carriers, and the federal government. He is one of a handful of simulation specialists capable of applying TAAM to design airfield and airspace options, while concurrently validating the design using ATModel, a real-time, ATC radar simulation tool. As a leading TAAM expert, Mr. Khera has served as the Chairman of the TAAM User Group on several occasions and has had considerable input into and influence over the development of the industry accepted TAAM Best Practices Guidance.

Mr. Khera has participated in a wide variety of aviation related studies covering issues related to: airspace and airport modeling, environmental planning, staffing requirements, airline financial management, international airline management, air cargo, and economics of airline service. Mr. Khera specializes in the application of the TAAM to capacity, safety, and benefit-cost analyses. His simulation efforts include studies of efficiency, and environmental impacts of expanding and redesigning existing airfield and airspace systems. The diversity of these studies enables Mr. Khera to fully utilize his expertise in the fields of airport and airspace planning, environmental planning and simulation.

Mr. Khera is currently the Lead Simulation Specialist supporting FAA's Philadelphia Capacity Enhancement Project (CEP) EIS and the Ivanpah Airport EIS.

Representative Projects

Projects

- **Philadelphia International Airport:** HMMH is conducting airport and airspace modeling of the existing runway configuration and three potential airport development alternatives, two of which were carried forward for environmental analysis as part of the EIS. Mr. Khera serves as the lead simulation analyst in the modeling and analysis of the airfield as well as airspace using the Total Airport and Airspace Model (TAAM). He has run over 1500 simulations for the Philadelphia airspace/airfield re-design effort. He participates in client meetings with the FAA, and assists with documenting the analysis methods in an operations report that serves as technical back-up to the EIS.
- **Joint Planning & Development Office (JPDO):** Under a contract with the FAA, HMMH provides support to the Policy Division of the Joint Planning and Development Office, a group of eight federal agencies tasked with designing the Next Generation Air Transportation System (NextGen). Mr. Khera manages HMMH's staff members and serves in the role of a Senior Policy Analyst reporting directly to the JPDO's Policy Director. In the position, he collaborates weekly with the Director on issues ranging from congressional funding requests to policy implications of technology implementation on the airline industry and on the environment.

Vinayak Khera, Principal Consultant

- **Southern California Association of Governments:** Mr. Khera was the chief airport and simulation analyst on a multi-airport capacity study of the Southern California Region – a study assessing the capacity of the region’s airports and airspace to accommodate projected demand in light of planned infrastructure investments. Mr. Khera completed a TAAM baseline model of airfield and airspace operations in the Southern California Basin and gathered information on proposed infrastructure improvements in preparation to build the airspace and airfield structure for the 2010, 2020, and 2030 study years. He developed and performed detailed analysis on over 2000 simulations over a span of two years.

- **Miami International Airport:** Mr. Khera served as chief simulation analyst on a study of the impact of a new fourth runway scheduled to open in 2003 at Miami International Airport. The study sought to establish the most efficient way of using the new runway while maintaining ground operations efficiency during arrival, departure, and mixed traffic banks. Using the TAAM, Mr. Khera created a calibrated baseline model representing current ground operations at MIA, and built and evaluated a six runway usage scenarios. The evaluations centered on comparisons of acceptance and departure rates, taxi times, and delay.

- **Chicago O’Hare International Airport:** Mr. Khera was lead TAAM simulation specialist in the ground capacity simulation analysis of the proposed move of Delta and Northwest Airlines to the New Terminal 6. The study focused on examining the impacts of the move on taxiway movement and in particular, on existing congestion and bottlenecks. Mr. Khera built the airfield operations and using projected schedules and operations, simulated the circulation of aircraft from both carriers. To investigate congestion reduction, he participated in development of three design options to eliminate ground traffic conflicts. Mr. Khera analyzed the impact of these options on airport delay and helped to author the report examining relocation impacts.

- **Sun Coast TRACON Redesign:** Mr. Khera served as a TAAM simulation analyst in the Sun Coast TRACON redesign – a project to combine four TRACONs into one consolidated facility. As part of this project, he also modeled a new runway at Orlando Airport to gauge operational impacts on the surrounding airspace. He used TAAM to create a working airspace model of the Central Florida Airspace and Orlando Airport. He then simulated airspace alternatives to evaluate sector loading and throughput.

- **Detroit Metropolitan Wayne County Airport:** Mr. Khera conducted ground simulation studies of a plan to build a new Northwest Airline terminal at Detroit Metropolitan Wayne County Airport. The study examined the capacity of the existing runway and taxiway systems to accommodate the new terminal, developed taxiway alternatives to serve the new terminal, and analyzed the efficiency of the alternatives. Mr. Khera built the airfield operations, and using projected schedules and operations, simulated the circulation of aircraft to and from the new terminal. He also helped to evaluate alternatives proposed to accommodate the new terminal, generating taxiway time and delay statistics.

- **NAR Environmental Projects:** Mr. Khera currently manages

Vinayak Khera, Principal Consultant

environmental planning efforts in support of the FAA's National Airspace redesign project at Orlando, Miami, and Houston. He is organizing and coordinating the activities of five companies evaluating the impacts of proposed new and extended runways. One of the management mechanisms that he has developed is project web portal that gives project participants access to project status, research documents, and meeting minutes. The portal operates through a system of access rights that ensure security.





HARRIS MILLER MILLER & HANSON INC.

Diana Khera

Director, Airport and Airspace Planning

Experience

HMMH, 2007-present
Crown Consulting Inc., 2001-2007

Education

M.B.A, Masters of Business
Administration in Aviation,
Embry-Riddle Aeronautical University,
FL, 2000
B.A., Aviation Business Administration,
Embry-Riddle Aeronautical University,
FL, 1998

Affiliations

Member, Women in Aviation
International (WIAI), 1998-present
Member, Airport Consultants Council
(ACC), 2001-present
Member, Airports Council International
(ACI), 2001-present
Member, American Association of
Airport Executives (AAAE),
2001-present
Member, Air Traffic Control Association
(ATAC), 2001-present
Member, Aircraft Owners & Pilots
Association (AOPA), 1992-present

Ms. Khera is the Director of Airfield and Airspace Planning Group for HMMH. She is responsible for all aspects of management including developing program frameworks, schedules, budgets, resource allocation plans, quality control functions, and training materials. Ms. Khera also develops and maintains client relationships with both federal and private project sponsors.

Ms. Khera specializes in working with FAA, NASA, the military, and a variety of non-federal aviation stakeholders on issues relating to aviation capacity expansion, ATM technology implementation, and aviation related environmental protection topics. Ms. Khera has expertise in airfield and airspace operations of both complex commercial airports as well as smaller GA airports. Ms. Khera is one of the veteran users of the Total Airspace and Airport Modeler (TAAM) and has in, varying capacities both as a TAAM modeler and a manager, participated in most noteworthy TAAM studies in the U.S. Ms. Khera has been an active TAAM user group participant and has been influential in working with the developers of TAAM to constantly better and upgrade the tool to suit the complex needs of airport design.

Ms. Khera led and participated in numerous airport expansion projects where she worked with state and regional governments, airport owners and operators, airport tenants, local communities, and anti-airport development groups towards developing airport expansion plans that would satisfy often conflicting interests of various stakeholders. Ms. Khera has an in-depth understanding of the evolving National Airspace System structure. She conducted comparative case studies of the effectiveness of the Free Flight technologies, and participated in drafting of a Concept of Operations for the New York Integrated Complex and the Consolidated Sun Coast TRACON.

Ms. Khera is also participating in the recent efforts of the FAA and other Federal Agencies to modernize the Air Traffic System. Ms. Khera is the Senior Aviation Policy Subject Matter Expert for NextGen and contributes to several Joint Planning and Development Office (JPDO) divisions tasked with developing an organizational structure for the JPDO and establishing fundamental operating processes and procedures. She helped the JPDO to define roles and responsibilities of each of the JPDO Divisions and the interactions between the divisions and other federal and public entities. Ms. Khera also acted as the prime support to the Airports and Environmental Working Groups and facilitated development of the Airports Roadmap and Transition Plan, as well as Policy and R&D agendas.

Representative Projects

- **Philadelphia International Airport:** HMMH is conducting airport and airspace modeling of the existing runway configuration and three potential airport development alternatives, two of which were carried forward for environmental analysis as part of the EIS. Ms. Khera manages the simulation task while providing subject matter expertise and quality control in the modeling and analysis of the airfield as well as airspace using the Total Airport and Airspace Model (TAAM). She participates in client meetings with the FAA, and assists with

Diana Khera, Director, Airport and Airspace Planning

documenting the analysis methods in an operations report that serves as technical back-up to the EIS.

- **FAA's Commercial Space Division (AST):** The goals of this study are to provide the Volpe Center and the FAA Office of the Associate Administrator Commercial Space Transportation (AST) with technical support in researching and scoping existing noise models and their applicability to the commercial space industry. If no such models exist, this project will scope the process for developing an appropriate model. This project will support the Volpe Center and AST's efforts to update the environmental guide provided to commercial space applicants.
- **Ivanpah International Airport:** HMMH is conducting the noise analysis for this EIS on a new airport to supplement McCarran International Airport in Las Vegas. Prior to joining HMMH, Ms. Khera had her own role on the project, representing the EIS team at monthly meetings of an airspace committee whose members included planning staff from Clark County (the project's sponsor), the County's own consulting team, and the FAA regarding all airspace issues associated with the new facility.
- **Southern California Association of Governments (SCAG):** Ms. Wasiuk directed a TAAM-based Regional Airspace and Planning Study focused on providing the basis for decisions on region-wide airport investment policies to allocate projected demand effectively across airports in the Los Angeles Basin. She developed the study methodology including the approach to (1) build and apply models of current airspace operations and operations forecasted for years 2010, 2020, and 2030, and (2) assess the ability of the system - given specific airport investments and the injection of new technologies and procedures - to accommodate forecasted demand. Central to the methodology were procedures guiding the interaction between simulation analyses and airport demand allocation activities. Ms. Wasiuk managed implementation of the methodology - overseeing a team of simulation, air traffic, airport investment, and simulation experts. Her management responsibilities encompassed developing project budgets, the WBS, overseeing project resources, deliverables and scheduling.
- **Miami International Airport's New Runway Analysis:** Ms. Wasiuk managed Crown's efforts in conducting a runway analysis to evaluate the operational efficiency of runway configurations following the commission of a fourth runway (8/26). The study sought to establish the most efficient way of using the new runway while maintaining ground operational efficiency during arrival, departure, and mixed traffic banks. Ms. Wasiuk led development and implementation of the study methodology, which involved: (1) creating a baseline model representing current ground operations at MIA; and (2) building and evaluating runway usage scenarios aimed at establishing the most efficient ways of utilizing the new runway, using the baseline model as a point of reference. She oversaw development of the baseline model, the building and analysis of six alternatives created for efficiency analysis, while acting as the principal liaison with the air traffic control design team representing the FAA. Ms. Wasiuk also performed all project planning, resource and performance oversight in addition she managed preparation of the report

detailing the findings of the runway analysis.

- **Chicago O'Hare Modernization Program:** Ms. Wasiuk managed a team of TAAM simulation experts conducting capacity analyses to shape plans incorporating a new runway with plans to relocate and extend exiting runways. Ms. Wasiuk led Crown's simulation efforts of the ground environment, TRACON airspace, and first tier center airspace. Her technical management role included oversight of (1) the building baseline airport and airspace infrastructure, (2) developing alternative procedures based on proposed runway configurations, (3) formulating baseline and alternative rule bases for ground and airspace movements, using 24-hour traffic timetables, and (4) identifying ground movement and airspace metrics to analyzing the impact of the alternatives. Her resource and performance management role involved developing and tracking budgets, allocating resources, and monitoring technical and schedule performance.
- **New York Integrated Control Complex:** Ms. Wasiuk helped to develop the Concept of Operation and the Business Case/Staff Study for the New York Integrated Control Complex. For the Concept of Operations, she helped to define air traffic operations for the facility and delineated its air traffic support systems and system maintenance mechanisms – conducting research through interviews and interaction with a host of planning, operations, and stakeholder groups. She helped to author the “Integrated Air Traffic Environment” which provides a high-level blueprint of the future airspace, the operational environment, and traffic handling. For the Staff Study/Business Case, she evaluated traffic, airspace, and facility data to assess needed capabilities and capability shortfalls in the New York Area as well as the economic viability of the integrated facility.
- **Sun Coast TRACON Redesign:** Ms. Wasiuk assisted in developing the airspace for options to consolidate four TRACONs in Central Florida. She worked with Airspace Design Teams to ensure an accurate baseline and to identify alternatives, designed to maximize facility and airspace use while minimizing noise impacts. Ms. Wasiuk developed models of alternatives and ran simulations for the baseline, 2008 and 2015. Besides focusing on airspace changes, she also simulated across the three time frames an option to build a fourth runway at Orlando Airport – applying metrics of Throughput, Delay, Fuel Costs, Workload and Safety to yield estimates of comparative costs, benefits, and technical risk.
- **Free Flight Case Studies:** Ms. Wasiuk conducted comparative case studies of the effectiveness of technologies and procedures used in locations where the Free Flight tools are deployed. The studies combined the insights of operational experts with analyses of air traffic operational metrics to gauge the consequences of employing Free Flight technologies and procedures. To strengthen these tools and procedures, Ms. Wasiuk helped the Free Flight organization incorporate risk assessment and management approaches more fully into its' planning and operations. She assisted the organization in (a) integrating and documenting existing risk assessment practices; (b) proposing new practices for the office to weave into the fabric of ongoing planning and management; and (c) devising a system for recording and addressing risks identified over the course of the

Diana Khera, Director, Airport and Airspace Planning

Free Flight Program.



HARRIS MILLER MILLER & HANSON INC.

Robert Behr

Senior Consultant

Experience

HMMH, 1999-present
United States Air Force, 1968-1994

Education

B.S., Aeronautical Engineering, United States Air Force Academy, CO, 1968
M.S., Aeronautical Engineering, Air Force Institute of Technology, Wright-Patterson AFB, OH, 1977

Affiliations

Associate, Institute of Noise Control Engineering, 2000-present
Member, Northwest Chapter, American Association of Airport Executives, 2004-present

Robert Behr specializes in the acquisition and analysis of environmental noise and vibration data for airports and heliports. His professional experience includes extensive field measurements of noise and vibration with a variety of metrics and instrumentation, and analysis of collected noise and vibration data, including modeling of noise levels, with the FAA Integrated Noise Model.

He has measured and analyzed both fixed-wing and rotary-wing aircraft for noise projects including Environmental Assessments, Master Plans and private individual studies. His fixed-wing experience includes major airports as well as the smaller General Aviation airports. His rotary-wing experience includes measuring and analyzing noise levels associated with a private helipad and with determining affects and alternatives for helicopter commuting to a small resort airport. He has worked extensively with the public in conducting noise measurements at private residences and bringing about a better understanding of noise terminology.

Prior to joining Harris Miller Miller & Hanson Inc. (HMMH), Mr. Behr served over 25 years in the United States Air Force in different positions. He has over 4,000 flying hours as a navigator and directed support programs for a large military installation.

Representative Projects

- Payette Landing, Long Valley Airport Noise Analysis, Millemann Pittenger McMahan & Pemberton LLP, McCall, ID (2009) *Project Manager*
- Helipad Noise Analysis, Atlantic Health Overlook Hospital, Summit, NJ (2009) *Assistant Project Manager and Noise Modeling Technician*
- McClellan-Palomar Airport Scenarios and Noise Contours, Wadell Engineering Corporation, Carlsbad, CA (2008) *Assistant Project Manager and Noise Modeling Technician*
- Helipad Noise Analysis, University of California Los Angeles Medical Center, Los Angeles, CA (2008) *Assistant Project Manager and Noise Modeling Technician*
- 14 CFR Part 150 Study, San Diego International Airport, San Diego, CA (2007-ongoing), *Project Coordinator and Noise Measurement and Modeling Oversight*
- Helipad Noise Analysis, University of California San Francisco Hospital, San Francisco, CA (2007-2009), *Project Manager*
- Land Use Compatibility Plan, Ontario International Airport, Ontario, CA (2009-ongoing), *Project Manager*
- 14 CFR Part 161 Study, Van Nuys Airport, Los Angeles World Airports, Los Angeles, CA (2005-ongoing), *Assistant Project Manager*
- Helipad Noise Analysis, San Francisco General Hospital, San Francisco, CA (2004-2007), *Assistant Project Manager*
- Comprehensive Land Use Plan for San Diego County Airports, San Diego, CA (2004-2008), *Project Manager*
- Sound Insulation Program, Anchorage International Airport, Anchorage, AK (2004-ongoing), *Assistant Project Manager*
- Sound Insulation Program, San Diego International Airport, San Diego,

Robert Behr, Senior Consultant

Bob Behr provided measurement plans and procedures for a week-long ground noise study at Mather Airport with only two days notice. The plan was successfully implemented, valuable data collected, and presentation/report to client and community was right on target

- CA (2002-ongoing), *Acoustical Measurements Technician*
- 14 CFR Part 150 Study, Fresno Yosemite International Airport, Fresno, CA (2004-2007), *Noise Modeling Technician*
- Residential Sound Attenuation Program, Monterey Peninsula Airport, Monterey, CA (2004-2007), *Assistant Project Manager*
- System Capacity Noise Analyses for Sacramento County Airport System, Sacramento, CA (2004-2005), *Assistant Project Manager*
- Helipad Noise Analysis, for private helipad facility, Livermore, CA (2004), *Assistant Project Manager*
- 14 CFR Part 150 Study, Vero Beach Municipal Airport, Vero Beach, FL (2002-2003), *Noise Measurement and Modeling Technician*
- Arrival and Departure Analyses, Mather Airport, Sacramento, CA (2002-2004), *Assistant Project Manager*
- Low Frequency Noise Study, San Francisco International Airport, San Francisco, CA (2002), *Noise Measurement Technician*
- Noise Mitigation, Aurora State Airport, Aurora, OR (2001-02), *Assistant Project Manager*
- Duck Pond Vineyards Helicopter Noise Analysis, Sunol, CA (2001-2002), *Assistant Project Manager*
- Noise Exposure Study, Freidman Memorial Airport, Sun Valley, ID (2001, 2005), *Noise Modeling Technician*
- Airport Alternatives Noise Analysis, Anchorage International, AK (2001-2002), *Noise Modeling Technician*
- 14 CFR Part 150 Study, Reid-Hillview Airport, CA (2001-2002), *Assistant Project Manager*
- Ground Noise Study Measurements and Analysis, Mather Airport, Sacramento, CA (2001), *Assistant Project Manager*
- City-by-City Noise Measurements, San Francisco Bay Area, CA (2001), *Assistant Project Manager*
- Airport Master Plan, Sacramento International, Sacramento, CA (2000-03), *Noise Measurements and Modeling Technician*
- Ground Noise Study, Anchorage International Airport, Anchorage, AK (2000-2001), *Noise Measurement Technician*
- Solano County Travis Air Force Base Airport Land Use Plan, CA (2000-2001), *Noise Measurement Technician*
- Litigation Support, Clark County, Las Vegas International Airport, NV (1999-2002), *Noise Modeling Technician*
- Stage 2 Business Jet Hushkit Noise Certification Measurements, Buttonwillow, CA, (1999-2000), *Noise Measurement Technician*



HARRIS MILLER MILLER & HANSON INC.

David Crandall Senior Consultant

Experience

HMMH, 1998-present

Education

B.S., Aeronautical Engineering,
Clarkson University, Potsdam, NY,
1998, Honors Graduate

Affiliations

Senior Member, American Institute of
Aeronautics and Astronautics
1994-present
SAE Aerospace Committee A-21
Aircraft Noise Measurement and Aircraft
Noise/Aviation Emission Modeling
2007-present

David Crandall has participated in a variety of aircraft noise related projects ranging from preparing environmental assessments/environmental impact statements (EA/EIS), 14 CFR Part 150 studies, residential sound insulation/field testing, and airport noise monitoring system analysis. He manages major elements of complex projects including aircraft noise modeling, radar data analyses, and airline fleet analyses. He contributes to public meetings and participates in documenting and presenting project results. Mr. Crandall is an experienced user of the Federal Aviation Administration's (FAA) airport noise models, the Integrated Noise Model (INM) and the Area Equivalent Method (AEM), and airspace noise model, the Noise Integrated Routing System (NIRS). He teaches HMMH's INM training course.

Before joining HMMH, Mr. Crandall studied aircraft design and performance. Notable projects include investigating noise generation from turbulent jet streams, research into the successful elements of foreign high-speed rail systems, design of wide-body passenger aircraft, and the design and demonstration of an unmanned aerial vehicle.

Representative Projects

Environmental Assessments/Impact Statements

- Southern Nevada Supplemental Airport Environmental Impact Statement, Ivanpah Valley Airport, Clark County, NV (present), *Noise Modeling Technical Lead*
- Charted Visual Flight Procedure Approaches EA, Ted Stevens Anchorage International, Anchorage, AK (2005), *Assistant Project Manager*
- Cleveland-Detroit Airspace Redesign EA (MI, OH, Canada) (2005), *Technical Lead*
- Omaha Airspace Redesign EA (NE, MO, IA) (2005) *Assistant Project Manager*
- New Entrant Operations Specification for Eos Airlines Inc. (formerly Atlantic Express Inc, New York, NY (2005), *Assistant Project Manager*
- Runway Extension EA, Erie International, Erie, PA (2005), *Project Manager*
- Instrument Landing System EA, Leesburg Executive, Leesburg, VA (2005-2007), *Assistant Project Manager*
- Airport Improvements Project EIS/EIR, New Bedford Regional, New Bedford, MA (2003-2009), *Project Manager*
- Potomac Consolidated TRACON Airspace Redesign EIS (MD, VA) (2003), *Project Manager*
- Runway Extension EA/EIR, Pittsfield Municipal, Pittsfield, MA (2001-2003), *Project Manager*
- New Runway EIS, Piedmont Triad International, Greensboro, NC (2001), *Consultant*
- Runway Extension EA, Turners Falls Municipal, Turner Falls, MA (2001-2002), *Project Manager*
- Runway Departure EA, Bradley International, Windsor Locks, CT (2000), *Assistant Project Manager*

David Crandall, Senior Consultant

Other Airport Noise Studies

Of the Potomac EIS, the client writes, "David continues to impress me and the FAA folks... His professional approach has gone a long way toward keeping the client highly satisfied with our Team's performance."

- Annual Noise Contours, Louisville International Airport, Louisville, KY (2008 - present), *Assistant Project Manager*
- Noise Zone Update, Baltimore/Washington International, Baltimore, MD (2006 - 2007), *Project Manager*
- 14 CFR Part 150, Baltimore/Washington International, Baltimore, MD (2006 - 2007), *Assistant Project Manager*
- 14 CFR Part 150, Bradley International, Windsor Locks, CT (2004), *Assistant Project Manager*
- 14 CFR Part 150 Study, Burlington International, Burlington, VT (2006-2008), *Project Manager*
- 14 CFR Part 150 Study, Charlotte-Douglas International, Charlotte, NC (2002-present), *Project Manager*
- Master Plan Update, Lawrence Municipal, Lawrence, MA (2004), *Project Manager*
- Sound Insulation Program, Pittsburgh International, Pittsburg, PA (2001), *Technical Lead - Measurements*
- Monthly Radar Analysis and Annual DNL Contour Preparation, Raleigh-Durham International, Raleigh, NC (1998-present), *Project Manager*
- Master Plan, Syracuse Hancock International, Syracuse, NY (2004), *Project Manager*
- Noise Contour Preparation for Cape Town and Johannesburg Airports, Airports Company South Africa, South Africa (2002), *Project title or role*
- Noise Impact Study, San Pedro Sula and Tegucigalpa Airports, Honduras (2000), *Technical Lead - Modeling*



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Michael Hamilton

Geographic Information Specialist

Michael Hamilton's experience at HMMH encompasses a wide array of environmental and transportation noise-related GIS and CAD analysis. Utilizing graphics applications to build and support the decision making process, his responsibilities include noise contour creation, overlay, manipulation, environmental noise impacts, Census data analysis including environmental justice and population impacts, noise sensitive mapping, land use mapping and analysis, noise barrier and noise mitigation mapping.

Experience

HMMH, 2004-present
VHB, Inc., 2001-2003
Sasaki Associates, Inc., 1984-2001

Education

B.S., Geographic Information Systems &
Cartography, Salem State College,
Salem, MA, 2001, Honors Graduate
A.S., Survey and Highway Engineering
Technology, Northeastern University,
Boston, MA, 1996

Mr. Hamilton brings to HMMH more than a decade of experience in environmental, transportation, architectural, landscape and land development consulting practice utilizing GIS and CAD applications. In this capacity, he utilized GIS to support environmental compliance for private and public development projects. Mr. Hamilton's experience also includes the organization, collection, and creation of spatial data used to streamline existing workflows, facilitate information sharing and develop spatial database queries based on geographic references resulting in enhanced thematic maps, and graphic information products to satisfy project requirements.

Representative Projects

- Airport Noise Zone Update, Baltimore/Washington International, Baltimore, MD (2006-ongoing), *GIS Specialist*
- 14 CFR Part 161 Studies, Los Angeles International and Van Nuys Airports, Los Angeles, CA (2006-present), *GIS Specialist*
- Capacity Enhancement Program EIS, Philadelphia International, Philadelphia, PA (2005-present), *GIS Specialist*
- 14 CFR Part 150 Study, Burlington International Airport, Burlington, VT (2006), *GIS Specialist*
- Runway Extension 17/35, Philadelphia International, Philadelphia, PA (2003-2006), *GIS Specialist*
- Cleveland-Detroit Airspace Redesign EA, MI, OH, and Canada (2005), *GIS Specialist*
- Runway Extension EA, Erie International, Erie PA, (2005), *GIS Specialist*
- 14 CFR Part 150 Study, Baltimore/Washington International, Baltimore, MD (2005), *GIS Specialist*
- Annual Contour Update, Raleigh Durham International, Raleigh, NC (2004), *GIS Specialist*
- 14 CFR Part 150 Study, Portland International Jetport, Portland, ME (2004), *GIS Specialist*
- 14 CFR Part 150 Study Update, Lehigh Valley International, Allentown, PA (2004), *GIS Specialist*
- 14 CFR Part 150 Noise Exposure Map Update, Manchester Airport, Manchester NH (2004), *GIS Specialist*
- 14 CFR Part 150 Study, Piedmont Triad International, Greensboro, NC (2004), *GIS Specialist*
- Airport Improvements Project, New Bedford Regional, New Bedford, MA (2004), *GIS Specialist*
- Modernization EIS, Chicago O'Hare, Chicago, IL (2004), *GIS Specialist*



BOBBY D. PRICE

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OBJECTIVE

To provide exceptional independent consultation to a creative, progressive company that requires extensive corporate knowledge of Air Traffic Control Operations, Rules, Airspace and Procedures, Noise Alternatives, and developing air traffic control scenarios.

SUMMARY OF QUALIFICATION

1. As a manager for Air Traffic Experts for the past four years I've provided services through FOIA Request regarding aircraft accidents, provided an air traffic evaluation for a company trying to obtain rights to build a new baseball stadium for Boston Red Sox spring training games, completed air traffic evaluation for a client in Las Vegas wishing to build close to the airport, completed air traffic evaluation for the city of Ft. Lauderdale to determine if feasible to extend hours of noise procedures now in effect.
2. Several years as an Air Traffic Controller (FLL, MIA, ATL), one year as ATC Automation Specialist (MIA), seven years as an Operational Supervisor (MIA), ten years as an Assistant Air Traffic Manager (PBI), and twelve years as an Operations Manager (MIA).
3. Twenty-six awards (outstanding/exceptional/special achievement) presented in conjunction with annual performance rating.
4. Ability to develop alternative ATC Procedures and present them to a large group in a logical, common sense manner.
5. Extensive experience in negotiating with users of the FAA Air Traffic Service, particularly Airport Sponsors (noise issues, construction coordination), Airlines (aircraft delay issues, pilot concerns), Law Enforcement, and other FAA entities (Flight Standards, Airports District Office, etc.)
6. Ten years served as FAA Technical Advisor to the Palm Beach County Citizens Committee against Airport Noise.

SIGNIFICANT ACHIEVEMENT

(A). In April 1998 the National Football League (NFL) requested the FAA provide a temporary Air Traffic Control Tower at Pro Player Stadium for Super Bowl XXXIII. This was the first time ever for such a request. I was selected to be project manager for this endeavor. It was a very successful venture. Quoting from an award presented to me after the event. "This task required detailed coordination and planning with all air traffic facilities in South Florida, local and state agencies, law enforcement, and event sponsors to bring this challenge to reality. Bob Price was up to the challenge. He developed the procedures. He attended over 30 meetings, personally briefed all pilots (130), and supervised the

tower during the Super Bowl Game itself." The FAA acknowledged my efforts with thirty-two hours time-off-award and the NFL a certificate of achievement from the commissioner.

(B). From 1983 to 1993 I was FAA Technical Advisory to the Palm Beach County Citizens Committee against Airport Noise. This required working with Palm Beach County on noise issues, airside construction issues, fire/rescue issues, and letters of agreement. I was the author of Palm Beach Airport's first "Runway Use Program Order" in 1984. Many airports throughout the nation copied the content of this order. The Palm Beach County Aviation Director presented me a certificate of achievement when I left Palm Beach Tower.

(C). In 1988 the former Miami Center Air Traffic Manager and I were requested by the Division Manager to fly to Cincinnati, Ohio to evaluate their procedures due to the fact they were experiencing frequent operational errors. We traveled to the facility twice and determined they were using antiquated procedures, which did not work after Delta began hubbing there. The two of us met at the regional office in Atlanta and completely rewrote the Cincinnati Standard Operating Procedures Manual in two days. Those procedures were implemented immediately and the operational errors quickly diminished.

(D). During my tenure at Palm Beach Tower as the Assistant Air Traffic Manager, I organized a quarterly blood drive at the tower and for six years I organized an annual golf tournament with proceeds to the Children's Home Society. I received a plaque from the Blood Bank and several certificates of appreciation from the Children's Home Society.

(E). From 1993 to 2005 I was Operations Manager at Miami FAA Tower/TRACON. I was first level supervisor for 15 Operational Supervisors and second level supervisor for 100 Air Traffic Controllers. A part of my duties was to evaluate noise abatement documents on a monthly basis to determine if, when, and where noise abatement procedures may have been violated. I followed up by taking corrective action and submitting a written report to my manager.

(F). On May 11, 1996 a ValuJet Flight out of Miami international crashed 12 miles northwest of Miami killing all on board. I was called at home to come in to work at Miami Tower. The FAA/NTSB requested me to lead a team of FAA supervisors, staff specialist, and staff officers to investigate the accident and submit a written report to the FAA Administrator as soon as possible. The report was completed in 12 hours enabling the Administrator to provide an accurate briefing to the news media the following morning. A letter of commendation to me from the FAA Administrator and Regional Director followed.

REFERENCES AVAILABLE UPON REQUEST

Lisa Lyle Waters

Senior Aviation Planner/Senior Project Manager

Ms. Waters, senior aviation planner and senior project manager, specializes in airport and aviation noise studies, airport noise abatement and mitigation program development and implementation, environmental and master planning, and community involvement program development and facilitation. Ms. Waters has served in both the private and public sectors, acting as Assistant Director of Noise Abatement & Technical Services for the Palm Beach County Department of Airports from 1990 through 2000. Her experience includes managing and conducting airport and aviation master plans and FAR Part 150 noise/land use compatibility studies involving extensive community participation, detailed technical analysis and implementation programs.

Education

B.S./1984/Aviation Management/Florida Institute of Technology

Professional Registrations

Commercial Pilot, single engine rated, instrument trained

Professional AffiliationsFlorida Airport's Council
Florida Aero Club
American Association of Airport Executives
Louisiana Airport managers & Associates**Martin County Airport/Witham Field, Airport and Aviation Noise Consulting Services, Martin County, Fla.**

Project manager providing noise consulting and technical services for all Martin County airport and aviation noise and planning projects. Projects include development and facilitation of all Airport Noise Advisory Committee (ANAC) meetings and activities, participation in presentations for and by County Commissioners to community groups describing Martin County's noise projects and abatement/mitigation efforts, procurement and installation of the Airport Noise and Operations Monitoring System (ANOMS 8.8), development and conduct of the Runway 12 Noise Abatement Departure Track Test and Departure Procedure (DP) Development, Noise Abatement Departure Profiles (NADPs) demonstration project (This project was the recipient of the 2009 FDOT GA Airport Project of the Year and the 2009 Florida Airport Councils Noise Abatement project of the year) and other projects. Project cost: \$392,000 (Ongoing)

Martin County Airport / Witham Field, Noise Exposure Map Update, Martin County, Fla.

Project manager for the completion of the update of noise exposure maps completed for the 2000 FAR Part 150 Noise Study. Mrs. Waters is responsible for managing the development of comprehensive INM operational database, supervising project planners and designers with the development of GIS-based land use maps and noise exposure maps, managing and facilitating the public involvement program, providing all project documents, and assisting with the coordination of FAA review/comment periods. Project Cost \$100,130 (2010)

Martin County Airport/Witham Field, Land Acquisition / Relocation and Sound Insulation Program, Martin County, Fla.

Project manager in charge of managing the completion of all project tasks. Hanson was brought under contract in early 2005 to develop and to manage the County's noise mitigation program through the year 2010. Program responsibilities include, land acquisition &

relocation assistance, sound insulation program development and implementation, noise land inventory and re-use plan formulation, and other related services. Project cost: \$1,449,696 (Ongoing)

Other Representative Experience Includes:

FAR Part 150 Noise Studies

- Ocala International Airport, Ocala, FL
- Vero Beach Municipal Airport, Vero Beach, FL
- St. Lucie County Intl. Airport, Fort Pierce, FL
- Palm Beach Intl. Airport, Palm Beach County, FL
- Syracuse/Hancock Field, Syracuse, NY
- Burlington Intl. Airport, Burlington, VT

Noise Abatement/Implementation Programs

- Venice Municipal Airport, Venice, FL
- Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, FL
- St. Lucie County International Airport Fort Pierce, FL
- Pompano Beach Airpark, Pompano Beach, FL
- Treasure Coast Regional Airport Noise and Flight Training Assessment, FL
D.O.T. District 4, FL
- Palm Beach International Airport, Palm Beach County, FL
- Palm Beach County Park Airport, Palm Beach County, FL
- North County Airport, Palm Beach County, FL

Airport Master Plans & Related Studies

- Venice Municipal Airport Master Plan Update, Venice FL
- Pompano Beach Air Park Master Plan Update and Economic Impact Survey, Pompano Beach, FL
- Leesburg Regional Airport Runway 13-31 Extension Environmental Assessment, Leesburg, FL
- Charlotte County Airport Master Plan, Punta Gorda, FL
- Buchan Airport Master Plan, Englewood, FL
- Benefit Cost Analysis-New GA Runway, St. Lucie County Intl. Airport, Fort Pierce, FL
- Palm Beach Intl. Strategic Airport Master Plan Update, Palm Beach County, FL
- Palm Beach Intl. Airport Runway 9L/27R Runway Extension Environmental Assessment, Palm Beach County, FL
- Palm Beach County Park Airport Master Plan, Palm Beach County, FL

Timeka S. Carter
Aviation Planner

Ms. Carter's experience includes assisting senior staff and project managers with the conduct and coordination of aviation planning studies including airport master plans, FAR Part 150 noise studies, environmental assessments, sound insulation and land acquisition programs, community involvement and other aviation/airport-related projects. Ms. Carter is trained in Geographic Information Systems (GIS 9.0) and the FAA's Integrated Noise. Ms. Carter provides high level technical support for noise operations monitoring systems (ANOMS version 8.8) at air carrier and general aviation airports including Fort Lauderdale-Hollywood International Airport and Martin County Airport / Witham Field.

Education

B.S./2003/Aviation
Management/Florida Institute of
Technology

Certifications

GIS 9.0
Integrated Noise Model, version 7.c
ANOMS version 8.8

Professional Affiliations

Florida Airport's Council
Louisiana Airport managers and
Associates

Martin County Airport/Witham Field, Airport and Aviation Noise Consulting Services, Martin County, Fla. Project planner. Hanson was selected in 2002 to provide professional assistance with several noise program initiatives. Ms. Carter has assisted with numerous projects including facilitation of the Airport Noise Advisory Committee (ANAC), and assistance in the development of the Martin County Airport Noise Mitigation Implementation Plan. Ms. Carter is currently assisting with the procurement of the Airport Noise and Operations Monitoring System (ANOMS 8.8). Her responsibilities include installation acceptance testing, staff training and assistance with reporting to the ANAC. Project cost: \$392,000 (Ongoing)

Martin County Airport / Witham Field, Noise Exposure Map Update, Martin County, Fla. Project planner. Hanson personnel are currently assisting with the update of the noise exposure maps completed for the 2000 FAR Part 150 Noise Study. Ms. Carter is assisting with the development of the operational database, development of GIS based land use and noise exposure maps, and public participation tasks. Project Cost \$100,130 (2010)

Martin County Airport/Witham Field, Land Acquisition and Relocation Program, Martin County, Fla. Project Consultant. Hanson was brought under contract in early 2005 to develop and to manage the County's noise mitigation program through the year 2010. Program responsibilities include, land acquisition & relocation assistance, sound insulation program development and implementation, noise land inventory and re-use plan formulation, and other related services. Hanson is the prime consultant responsible for full program implementation. Ms. Carter's role in the project includes the development of required policies and procedures manuals, relocation plans, community outreach and homeowner assistance programs; assistance with project administration including the coordination of appraisal services, phase 1 & 2 environmental surveys and recording of aviation easements; assistance with development of sound insulation plans and specifications; coordination of permitting activities, construction contractor procurement and construction observation; and project / grant closeout activities; Project cost: \$1,449,696 (Ongoing)

Boca Raton Airport Authority, Residential Sound Insulation Program, Phase 3, Boca Raton, Fla. Project Manager. Hanson was selected in October 2006 to provide local representation and homeowner liaison services for the Boca Raton Residential Sound Insulation Program. This project was divided into two phases. The first phase included 10 homes, representing a pilot project to test community interest and to provide a better understanding of the architectural and acoustical challenges of a larger program. Windows, doors, attic insulation, installed air cleaners and air conditioning units that were eight years or older were replaced. Acoustical testing was also completed before and after construction. The second phase contained 34 homes and recently completed the construction phase. Hanson's role included development of the project homeowner brochure and handbook, facilitation and documentation of all homeowner contacts and design team meetings, and homeowner assistance with the selection of products specific to each homeowners needs and the aesthetics of their home. Project Coast: \$156,200 (2009)

Pompano Beach Air Park, Airport Master Plan Update, Pompano Beach, Fla. Aviation planner. Assisted the project manager with master plan development tasks including the inventory of existing conditions, forecasts of aviation demand, facility requirements, environmental analysis, including base year and forecast year noise contours, analysis of alternatives and public involvement meetings and workshops. Project cost: \$199,987 (2007)

Venice Municipal Airport, Airport Master Plan, Venice, Fla. Aviation planner. Assisted the project manager with master plan development tasks including the inventory of existing conditions, facility requirements, environmental analysis - including base year and forecast year noise contours, analysis of alternatives and public involvement meetings and workshops. Project cost: \$340,000 (2007)

St. Lucie County International Airport Specialized Consulting Services and FAR Part 150 Noise Study Update, Ft. Pierce, Fla. Project planner. Assisted with the conduct of the Airport's FAR Part 150 Noise Study Update. Ms. Carter's responsibilities included assisting with the detailed inventory of existing operational conditions; portable noise monitoring and flight track observations, development and analysis of noise abatement alternatives, and conduct of the community participation program. Project cost: \$180,788 (2005)

Treasure Coast Regional Airport, Florida Department of Transportation District 4, Noise And Flight Training Assessment, Broward County, Fla. Aviation planner. Assisted the project manager with the comprehensive analysis of airport and aircraft noise issues at seven Treasure Coast airports for the Florida Department of Transportation (FDOT), District 4. The Regional Study formulated solutions to the region's noise issues as general aviation flight training and operational activity at the region's airports continue to grow beyond FDOT projections. Project cost: \$259, 581 (2005)

Ronald D. Ridenour, Jr.
Project Coordinator

Mr. Ridenour, assistant design manager, primarily serves the aviation market. His experience includes project management and coordination services for design and construction projects, roadway technical designs, custom database application development, GIS application mapping, stormwater management, regulatory agency permitting, resident construction inspection, real property acquisitions and land surveys.

Education

A.A./1995/Edison Community College

Professional Registrations

Real Estate License/FL

Professional Affiliations

Peace River Engineering Society

Martin County Airport / Witham Field, Noise Exposure Map Update, Martin County, Fla. Hanson personnel are currently assisting with the update of the noise exposure maps completed for the 2000 FAR Part 150 Noise Study. Providing database application development, GIS application development - noise contour GIS mapping, demographic calculations and noise complaint GIS mapping for noise and planning services for the update of the airports NEMs. Project Cost \$100,130 (2010)

Palm Beach International Airport, Palm Beach County, On-call Aviation And Airport Noise Consulting Services, Palm Beach, Fla. GIS services, selected to provide technical services to support the county's Office of Noise Abatement and Community Affairs. Services included the facilitation of the County's Citizens' Committee on Airport Noise, development of annual DNL noise contours, estimates of land use impacts and associated graphics, the conduct of noise abatement related studies, production of quarterly noise and operations monitoring reports, assistance with the implementation of the residential sound insulation program, and a full range of other consulting services. Project cost: \$67,467 (2000-2004)

Venice Municipal Airport Master Plan Update, Venice, Fla. Assisted with GIS application development - noise contour GIS mapping and assistance with community involvement program for the Master Plan Update and land use planning charrettes. Project cost: \$340,000 (2007)

Vero Beach Municipal Airport, FAR Part 150 Noise Study, Vero Beach, Fla. Provided database application development, GIS application development - noise contour GIS mapping, demographic calculations and noise complaint GIS mapping for noise and planning services for the airports first Part 150 Noise Study. Project cost: \$290,810 (2004)

St. Lucie International Airport, FAR Part 150 Noise Study Update, Ft. Pierce, Fla. Provided database application development, GIS Application Development - Created a work order database application and FAA, FDOT submittal logs. Noise contour GIS mapping, Demographic calculations and noise complaint GIS mapping in the development of a Noise abatement program assessment and update the 1994 Part 150 noise study. Project cost: \$180,788 (2005)

Charlotte County Airport, Design/Build Projects after Hurricane Charley, Punta Gorda, Fla. Project coordinator selected to assist with rehabilitating the airport facility after Hurricane Charley in 2004. The majority of the buildings, including the terminal and hangars, were damaged with many having to be completely demolished. Hanson personnel were responsible for rehabilitating as well as constructing new facilities for the Airport, with a total program value of more than \$20,000,000. Projects included 100+ new T-hangars; rehabilitation of more than 50,000 square feet of hangar and office space; 30,000 linear feet of security fence and access control system; new airfield lighting and signage; new airfield electrical vault; and new administration building. Project cost: \$20,000,000 (9/2004-2006)

Charlotte County Airport, New Taxiway Connector Design/Build Project, Punta Gorda, Fla. Project coordinator. Due to new air carrier service being initiated, the Charlotte County Airport Authority retained Hanson to provide design/build services for a new 500-foot bituminous taxiway. The project also required the paving of additional aprons and replacement of concrete slabs at the parking positions. The project included new airfield signage and modifications to existing signage, airfield electrical modifications, stormwater design and permitting, and pavement markings. The \$1.8 million project was designed and constructed in less than 60 days. Project cost: \$1,800,000 (2008)

Daytona International Airport, General Consulting Services, Daytona Beach, Fla. Assistant design manager with several projects including the 30-day design of Taxiway Papa and a concurrent 45-day design of Taxiway Tango. Hanson prepared an update to the Storm Water Pollution Prevention Plan, assisted with permit transfer and renewal, and provided training to airport personnel, co-permittee training, and general tenant training in procedural controls of pollutants. Project cost: \$8,000,000 (2000-2003)

Leesburg International Airport, Runway 13/31 Extension Design, Leesburg, Fla. Project coordinator. The Leesburg International Airport selected Hanson to design a 1,300-foot extension to the primary Runway 13/31. The parallel taxiway was extended and the centerline separation from the taxiway to the runway was increased to 400-foot to support operations by aircraft in the C-III category. Declared distances were incorporated to meet FAA Runway Safety Area standards while minimizing environmental impacts and project costs. Project cost: \$5,292,793 (2010)

Elizabeth E. Lago
Aviation Designer

Ms. Lago-Peralta has over 20 years experience in civil engineering emphasizing public sector infrastructure projects primarily on aviation projects as project engineer, and CADD/land development design and drafting. Her project experience encompasses plan preparation and engineering services. She was project engineer for aviation projects developed as part of the general engineering consultants agreement for Broward County Aviation Department, which includes providing services for Fort Lauderdale-Hollywood International Airport and North Perry General Aviation Airport in addition to general engineering consultant agreement contracts for Pompano Beach Airpark and St. Lucie County International Airport.

Ms. Lago-Peralta's engineering functions have included pavement design, geometric and grading design, existing and proposed surfaces, plan and profiles, cross-sections, navigational aids, environmental permitting, field inspection and observation, engineering report preparation and preparation of plans.

Martin County Airport/Witham Field, Land Acquisition and Relocation Program, Stuart, Fla. Project Consultant/Designer. Assisting the project manager and project consultants with the development of project parcel maps, updates o the airport Exhibit A Property Map illustrating noise mitigation project areas, and other design services. Project cost: \$1,449,696 (Ongoing)

Pompano Beach Air Park, Master Drainage Plan, Pompano Beach, Fla. Designer/CADD manager. The project includes field reconnaissance, surveys and review of existing data, preparation of analyses, design reports, feasibility studies and/or design alternative recommendations, update of the SWMPPP, and meeting and presentations before stakeholder groups. Project cost: \$210,000 (Ongoing)

Martin County Airport/Witham Field, engineered material arresting system and Related Runway 12/30 Improvements, Stuart, Fla. Project designer for the design and installation of engineered material arresting systems (EMAS) at both ends of Runway 12/30, relocation of existing runway thresholds and associated marking and electrical modifications, which included the relocation of REILS and PAPI's. Project cost \$12,300,000 (2010)

Charlotte County Airport, Master Plan Update, Punta Gorda, Fla. Designer/CADD manager responsible for assisting the project manager with the development of the Airport Layout Plan set. Project cost: \$1,245,000 (2006)

Education

B.S./1985/Civil Engineering/University of Yucatan
A.A./1987/International Fine Arts College

Professional Registrations

Civil Engineer in Mexico

Ocala International Airport, Runway 18/36 Safety Area Improvements, Ocala, Fla.

Assistant project engineer selected to improve Runway 18/36's safety areas. One challenge of the project was to provide standard runway safety areas for Runway 18/36 without reducing the length of the existing runways or moving the existing localizer. The solution included constructing 560 feet of 150 feet wide runway pavement to provide additional takeoff length; extending Taxiway E; grading 560 feet of Runway Safety Area to provide the standard 1,000 feet safety area for landings on Runway 18; and modifications to the existing MALSR on Runway 36 in addition to the re-grading of the Runway 18 safety area. The project was designed and bid within 45 days to capture federal grant dollars. Project cost: \$2,201,814 (2008)

Pompano Beach Air Park, Taxiway November widening, Pompano Beach, Fla.

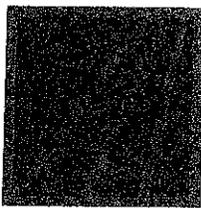
Project engineer responsibilities design plan preparation including, operational safety plan, geometric design, paving, grading and drainage plan, typical sections, marking plan and cross-sections. A DBE electrical engineer firm was selected for the electrical part of this project, which included the removal of existing lights and installation of new lights along a newly constructed taxiway. Two additional DBE firms were selected for the survey and geotechnical part of this project. Project cost: \$225,000 (2007)

Fort Lauderdale-Hollywood International Airport, Runway 9L/27R overlay; Taxiway B rehabilitation/ reconstruction; engineered material arresting system (EMAS) Fort Lauderdale, Fla.

Project engineer for the design of the rehabilitation of Runway 9L/27R, Taxiway B and EMAS at Fort Lauderdale-Hollywood International Airport. Project included pavement rehabilitation, installation of an EMAS due to the lack of sufficient runway safety area at each runway end and phasing coordination with the airlines and public outreach for homeowners affected by the change in air traffic as a result of the construction activities. Duties included airfield design (geometry, paving and grading, profiles, marking and cross-sections) and plan preparation. (1998-2004)

North Perry General Aviation Airport, rehabilitation of Runway 18R/36L and Taxiways L, L3, J, D and D2, Pembroke Pines, Fla.

Project engineer for the design and preparation of construction plans to provide a structural overlay for Runway 18R/36L. The project included the rehabilitation of 2 Taxiways and miscellaneous taxiway connectors. Duties included airfield design (geometry, paving and grading, profiles, marking and cross-sections) and plan preparation.



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MONTY GETTYS
Senior Aviation Planner

Monty Gettys has over 26 years experience in aviation planning for air carrier and general aviation airports. She has extensive planning experiences including master plan and airport layout plan development, feasibility studies, aviation forecasting, demand/capacity analyses and alternative analyses and capital improvement program development at general aviation and air carrier airports. Ms. Gettys has significant recent and relevant expertise in noise compatibility planning, airport land use issues both on and off airport property, environmental assessments, public outreach, airport economic development, airport business planning and cost consulting expertise for airside and landside projects.



INDUSTRY EXPERIENCE

The following examples highlight Ms. Gettys' variety of recent airport planning expertise:

- **North Perry Airport, Pembroke Pines, FL - Master Plan Update (2006 - 2009)**
Senior Project Manager for development of comprehensive airport master plan update, including airport layout plan, economic impact analysis, leasing and development standards, business plan and update of minimum standards.
- **Ft. Lauderdale-Hollywood International Airport, FL - Master Plan Update and Airport Layout Plan Set Update (2004 - 2008)**
Responsible for air cargo and general aviation alternatives, and location of future Broward County Aviation Department (BCAD) office alternatives. The project was put on hold by BCAD while an environmental impact statement process was carried out by the FAA's EIS consultant. In Phases 2 and 3 (2007 - 2008), MCG is preparing the Airport Layout Plan set including coordination with FAA, their EIS consultant, BCAD, FDOT and others.
- **Ft. Lauderdale-Hollywood International Airport, FL - FAR Part 150 Noise Study and Land Use Policies (2005 - 2007)**
Providing land use analysis and development of land use strategies and mitigation policies associated with the Part 150 project. Responsibilities include GIS database development, estimates of impacted population, land use analysis, and development of Noise Exposure Maps (NEMs).
- **Ft. Lauderdale-Hollywood International Airport, FL - Real Estate Noise Disclosure (2007 - 2008)**
Developing a Noise Disclosure for real estate professionals for BCAD.
- **Broward County Aviation Department, FL - Office Location Analysis (2007)**
Prepared an office location analysis for the future home of BCAD.
- **SW Florida International and Page Field Airports, FL - Pavement Management System (2005 - 2007)**
Project Manager responsible for developing an airport pavement management system using Geographic Information Systems (GIS) and integrating the system with MicroPaver for the entire airfield infrastructure.
- **Orlando International Airport, FL - JetBlue Development (2004)**
Provided cost estimating services for the Greater Orlando Aviation Authority (GOAA) for the site preparation, taxiway extension, roadway and utility infrastructure for two sites (hangar/apron and office/training facility) with various options.
- **Ft. Lauderdale-Hollywood International Airport, FL - Environs Plan (2003 - 2004)**
Prepared an Environs Plan for FLL. The goal of the environs planning, off-airport land use planning, is to encourage development of compatible land uses in the vicinity of the airport.

EDUCATION

- Master of Business Administration in Aviation, 1990**
Embry Riddle Aeronautical University
Daytona Beach, FL
- Bachelor of Science in Civil Engineering, 1983**
Michigan State University
East Lansing, MI

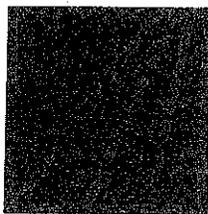
SPECIALIZATIONS

- Senior Project Management
- Airport Planning
- Public Outreach
- Compatibility Planning

PROFESSIONAL ORGANIZATIONS

- Airport Consultants Council
- Florida Airports Council
- Women in Aviation International





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PRATEEK SHARMA
Aviation Planner

Prateek Sharma is an Aviation Planner with over five years experience in land use and impact analysis, geographic information systems (GIS), urban planning, architecture asset management systems and noise monitoring. Since joining Montgomery Consulting Group as a aviation planner in 2004, Mr. Sharma responsible for noise monitoring at Ft. Lauderdale - Hollywood International Airport and has ongoing responsibilities to assist BCAD's noise officer.

INDUSTRY EXPERIENCE

Since joining Montgomery Consulting Group as an airport planner, Mr. Sharma has been involved in the following projects:

- **Greater Orlando Aviation Authority, Orlando, FL - GIS Floor Plan and Property Master Plan Update (2008 - ongoing)**
Developed a multi-source GIS database for property tracking and noise impact analysis. Scope includes designing an airport parcel geodatabase and developing Noise Land Reuse documents. Supervising on site personnel providing GIS assistance to the client.
- **Naples Municipal Airport, Naples, FL - FAR Part 150 Study (2008 - ongoing)**
Responsible for creating a multi-source land use inventory database for the development of base map to be used in NEM and NCP analyses. Other tasks include identifying, analyzing, and evaluating compatible land use strategies, and a review of Implementation and Effectiveness of Land Use measures.
- **Ft. Lauderdale-Hollywood International Airport, Broward County, FL - ANOMS Assistance (2007 - ongoing)**
Responsible for assisting Broward County Aviation Department staff with noise monitoring at the airport. Duties involve flight track matching and data quality control, noise complaint data gathering and integration, and conducting analyses of noise and flight data to generate various noise and runway use reports.
- **Ft. Lauderdale-Hollywood International Airport, Broward County, FL - Noise Monitoring (2007 - ongoing)**
Responsibilities include calibration of noise monitoring equipment at the Remote Monitoring Towers (RMTs), manually monitoring noise events for system accuracy check, and analyzing field collected data to define parameters for noise monitors.
- **Ft. Lauderdale-Hollywood International Airport, Broward County, FL - FAR Part 150 Study Update (2006 - 2008)**
Responsible for analyzing and modeling different arrival and departure profiles and flight track alternatives using the FAA's INM 6.0 noise modeling software to minimize impact on non-compatible land uses in the vicinity of the airport.



EDUCATION

Master of City & Regional Planning, 2004
Ohio State University
Columbus, OH

Bachelor of Architecture, 1998
Institute of Environmental Design
Vallabh Vidyanagar, India

SPECIALIZATIONS

Geographic Information Systems

Noise Monitoring

Noise Analysis

Pavement Management Systems

TECHNICAL EXPERIENCE

<u>Area</u>	<u>Programs</u>
GIS/CAD/Statistical	ArcGIS 9.x/ArcINFO, ArcIMS 4.0, ArcView 3.X, ERDAS, Map Objects (Win), AutoCAD, SPSS, Arcpad
Databases	Sybase, MS Access
Languages/Web	VB, C, C++, Java, HTML, MS FrontPage, Macromedia - Dreamweaver, Flash
Graphic/ Publishing	Photoshop, InDesign, Illustrator, Corel-Draw, Freehand
Miscellaneous/3D Modeling	MS Office, FAA Integrated Noise Model (INM), ANOMS 8, MicroPAVER, 3D Studio Max, FormZ, Maya

PROFESSIONAL ORGANIZATIONS

Airport Consultants Council

Florida Airports Council



PETER STUMPP**VICE PRESIDENT****Area of Specialization:**

Mr. Stumpp specializes in forecasting, market analysis, airport noise, and air cargo studies. Recent assignments include preparing general aviation forecasts for a Noise Exposure Map Update at Naples, FL, directing the forecasting and benefit cost analysis for Part 161 studies at LAX and VNY, advising equipment trust certificate holders during a cargo airline bankruptcy, analyzing the feasibility of an airport and intermodal cargo center in Louisiana, evaluating US and European operations of an international ground handling firm, preparing a strategic plan for a leading airport equipment manufacturer, evaluating alternative US hub site locations for DHL Airways, forecasting freight traffic and cargo facility requirements at Chicago O'Hare and Boston Logan airports, and analyzing the demand for specific types of freighter aircraft.

Relevant Project Experience:ClientEngagement

Naples Municipal Airport	NEM Update Forecasts
Los Angeles World Airports	Part 161 Studies at LAX and VNY
Burbank-Glendale-Pasadena Airport	Part 161 Forecasts and Benefit Cost Analysis
Naples Municipal Airport	Part 161 Forecasts and Benefit Cost Analysis
San Francisco International Airport	Part 161 Forecasts and Benefit Cost Analysis
Pease International Tradeport	Part 161 Forecasts and Benefit Cost Analysis
San Jose International Airport, CA	Part 161 Forecasts and Benefit Cost Analysis
Atlas Air EETC Holders	Protect Creditor Assets during Bankruptcy
Louisiana Airport Authority	Airport and Intermodal Cargo Center
International Ground Handler	Evaluate Potential Acquisition
DHL Airways	US Domestic Hub Site Selection
Aviation Equipment Supplier	Strategic Growth Plan
Chicago O'Hare International Airport	Freight Traffic and Facility Demand Forecast
Massport, Boston	Freight Traffic and Facility Demand Forecast
Aircraft Lessor	Demand for Converted 747 Freighters
Aircraft Manufacturer	Demand for New & Converted MD-11 Freighters
Aircraft Manufacturer	Potential Replacements for 727 Freighters

Background:

Prior to joining SH&E, Mr. Stumpp was at Data Resources, Incorporated, an economic forecasting firm. As Director of Rail Services for DRI, he provided forecasts and other consulting services to the nation's leading railroads, monitoring the demand for rail, truck and barge freight services. Mr. Stumpp also worked for Technical Economic Services, a division of the Dun & Bradstreet Corporation supplying planning and marketing information to the electric utility and natural gas industries.

Education: BA, History, Harvard University
MA, City and Regional Planning, Harvard University

Year Joined Firm: 1988

Languages: English

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BEVERLY M. JONES**VICE PRESIDENT****Area of Specialization:**

Ms. Jones has more than 20 years of experience analyzing the economics of the air transportation industry. She has directed the forecasting and economic analysis for a number of major, high profile studies involving airports in the US and throughout the world. Her areas of expertise include market demand analysis, aviation activity forecasting, airport system planning, and air service marketing. She has prepared numerous airport activity forecasts for airports ranging from large hubs to reliever and general aviation airports.

Relevant Project Experience:**Client****Engagement****Aviation Activity Forecasts**

Agunsa
 Burlington International Airport
 Capital Region Airport Authority

 London Luton Airport
 Los Angeles World Airports
 Massport/Logan International Airport
 Massport/Logan International Airport
 Massport/Hanscom Field
 Pacific Airport Group
 San Diego County Regional Airport
 Authority
 San Diego Association of Governments

Guayaquil, Ecuador Airport Privatization Bid
 Financial Feasibility Study
 Richmond International Airport Contingency
 Planning
 Airport Activity Forecasts for TBI
 Van Nuys Airport FAR Part 161 Study
 Airside Improvements Project EIS/EIR
 Environmental Status and Planning Report
 Environmental Status and Planning Report
 Mexican Airport Privatization Bid

 Long-term Aviation Activity Forecasts
 Future Market Demand and Opportunities

System Studies

FAA/Massport/MAC
 Maryland Aviation Administration
 New Mexico Aviation Division
 Virginia Department of Aviation

New England Regional Airport System Plan
 State System Study
 New Mexico Statewide Air Service Study
 Virginia Commercial Airport System Study

Other Experience

Capital Region Airport Commission
 Arizona Department of Transportation
 Atlanta Chamber of Commerce
 Massachusetts Aeronautics Commission
 Massport
 San Diego Association of Governments
 US GAO

Air Service Marketing for RIC
 Economic Impact of Aviation in Arizona
 Competitive Service Analysis
 Economic Impact Study
 Financial Feasibility Study
 Aviation Transportation Action Program
 Evaluation of Airline Costs for Passenger and
 Property Screening

Background:

Ms. Jones joined SH&E as a Research Associate in 1985.

Education:

BA, cum laude, Economics with a concentration in Mathematics,
 Wellesley College
 Completed coursework towards MBA at Babson College

Year Joined Firm: 1985

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