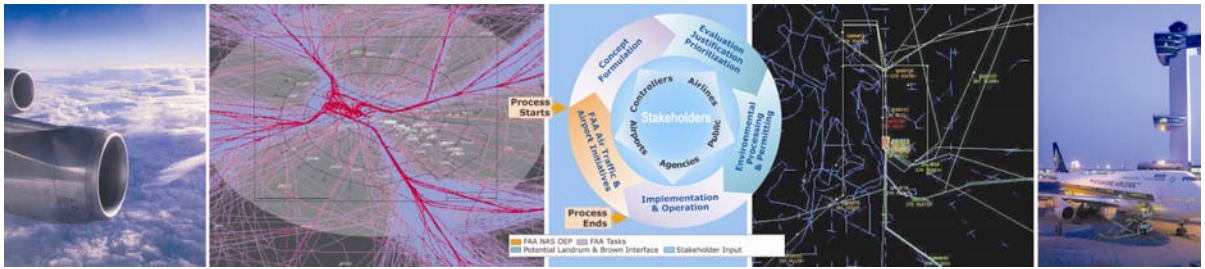




Air Traffic and Airspace Environmental Support



Managing the Planning of Modernization and Capacity Initiatives

The FAA's National Airspace System (NAS) Operational Evolution Plan (OEP) initiatives require rigorous planning to ensure successful implementation. The concepts must be sold to those who would rather maintain the status quo, and those with the funds necessary to make modernization reality must be convinced that the initiatives are worthwhile.

L&B can help FAA achieve implementation of the current NAS modernization and capacity initiatives. Our planners rigorously evaluate the concepts, determine the superiority of a preferred concept, and demonstrate that the preferred concept delivers the sought-after value, while preserving environmental and other interests. L&B assists FAA through these comprehensive, rigorous, time-critical processes with sufficient documentation and detail to ensure the concept works: for the controllers, the airlines, the pilots, the airports, the public, and the many other stakeholders.

L&B has the resources, expertise and capabilities to:

- Organize and manage a rigorous planning process
- Ensure the airspace design team keeps the project goals in mind and focuses on completing and documenting tasks efficiently
- Develop comprehensive operational forecasts
- Provide leading edge airspace capacity/delay modeling, as well as environmental and noise modeling
- Integrate airports, air traffic control (ATC), airlines and communities into the decision making process
- Justify project value (benefits versus costs)
- Manage community involvement and consensus-building process
- Provide detailed documentation and litigation support

L&B can provide comprehensive assistance to the Air Traffic Organization (ATO) in airspace design and air traffic improvements led by a staff with unparalleled ATC experience and air traffic environmental processing. L&B's experience in planning airport improvements with a focus toward approval, buy-in and ultimate implementation is equally applicable to air traffic and airspace modernization initiatives.

Navigating the NEPA Waters

L&B, with the most experienced NEPA compliance staff in the nation, can provide strategic management of complex NEPA-related airspace projects. For example, L&B is leading the noise effort for the New York/New Jersey/Philadelphia (NY/NJ/PHL) Metropolitan Airspace Redesign Environmental Impact Statement (EIS), including:

- Ensuring the redesign process is of sufficient rigor that the detailed noise analysis will withstand the NEPA test.
- Providing extensive input and guidance to developing alternatives and simulation process.
- Developing comprehensive operational forecasts for 21 airports in the study area.

L&B is also participating in, or has recently participated in, airspace redesign efforts for:

- Phoenix/Northwest 2000
- Las Vegas Four Corner Post
- Northern Utah Airspace Initiative (Salt Lake City area)
- Midwest Airspace Plan (St. Louis area)
- Chicago Terminal Airspace Project (CTAP)

L&B has also provided substantial litigation support for:

- Administrative Records

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- Technical support to DOJ/FAA
- Mediation support to DOJ/FAA

Mastery of the Latest Software

To be considered the best in the business for air traffic/airspace planning, it is essential to invest in and master the latest technologies for analysis. L&B makes these necessary investments, highlighted by our mastery of the following highly technical programs:

Simulation Modeling

L&B's experienced staff provides comprehensive TAAM or SIMMOD airspace simulation modeling enhanced with a thorough knowledge of the NEPA Process. L&B staff professionals are also trained and certified in the use of TARGETS.

- L&B is a premier provider of simulation services to the aviation community. Through airport planning initiatives, we interface and support the local Air Traffic teams to ensure coordination of airport/air traffic goals.
- L&B is an active member of the TAAM and SIMMOD user groups, working closely with airlines, airports, MITRE, Preston, and other users to validate and improve simulation models.
- L&B develops proprietary pre- and post-processing software for TAAM and SIMMOD to maximize the utility of these tools for design, evaluation, benefit assessment and environmental processing.

NIRS

L&B has emerged as a premier user of the Noise Impact Routing System (NIRS) at its highest level of sophistication. L&B has been associated with NIRS since its first prototype was used in the Chicago CTAP Project. We have worked closely with Metron Aviation, Inc., the developers of the program, to refine NIRS use and to develop best practices for its use on landmark studies such as the NY/NJ/PHL Metropolitan Airspace Redesign EIS. L&B is an active participant in the NIRS Design Review Group.

ADT

The Airspace Design Tool (ADT) is proprietary software developed by Metron Aviation for airspace analysis and the development of NIRS data-stream inputs. L&B has worked closely with Metron to refine the program to provide a comprehensive tool set that facilitates detailed analysis of flight track, simulation, forecasts and other data input. Our collaborative efforts have provided an efficient means of data analysis and reduction while preserving the subtle details necessary to obtain the most accurate noise modeling results. L&B, in conjunction with Metron, has accumulated more ADT application and analysis experience for air traffic noise modeling than any other firm in the nation.

INM

Aircraft noise level evaluations for environmental projects are developed using the FAA's Integrated Noise Model (INM), and L&B has extensive experience with DNL and CNEL noise modeling methodology. Using the model, we have evaluated a wide variety of noise metrics in various unique environments, including within the U.S. National Parks System.

Benefit-Cost Analysis

L&B has mastered the use of the FAA's Benefit-Cost Analysis (BCA) process to justify the value of airport, airspace and air traffic improvements. The BCA process is essential in justifying airport capital expenditures to the airlines and to prioritize airports' financial investments. L&B specializes in providing benefit/cost justification as an integral part of the EIS process.

Current and Recent Contributions to the OEP

L&B has played a key role in the successful planning toward the implementation of new runways at Miami International, Cleveland-Hopkins International, Denver International, Hartsfield-Jackson Atlanta International, Cincinnati/Northern Kentucky International, and Seattle-Tacoma International airports.

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