



Russell D. Blanck **Associate Vice President**

SPS

Overview

Mr. Blanck is SPS's associate vice president, primary responsibilities are to prepare airport Master Plans and detailed planning assignments for airport-specific facilities and operations. Mr. Blanck has contributed to the analysis of PANOPS and TERPS surfaces, and the development of Instrument Landing Systems and departure procedures. He has over 36 years of experience and knowledge of airport facility planning guidelines as specified in FAA Advisory Circulars/Orders, and ICAO Aerodrome Annex planning standards. He has been instrumental in determining runway and taxiway layouts, runway length requirements, taxiway exit locations, aircraft taxi flows, and aircraft apron layouts. His experience includes the development of support facility requirements and schematic layout designs (ARFF, catering, airline/airport maintenance, fuel farms, cargo apron and hangars, freight forwarders, etc.). Mr. Blanck has an excellent relationship with the FAA Airports District Offices and understands their review and approval processes to assure quick and positive FAA interactions.

System Capacity Study

Mr. Blanck was involved in preparing the detailed demand/capacity analyses for the Port Authority of New York and New Jersey's Airport System Capacity Planning Study (October 2011-March 2014). This project consisted of defining improvements at all five Port Authority airports to accommodate unconstrained air travel demand by identifying viable alternatives for Port Authority airport system capacity planning. It involved a review of the existing system characteristics and constraints, performing analyses to identify potential future capacity requirements and constraints, identifying and evaluating potential alternatives to meet Port Authority goals and objectives in consideration of the constraints and current facility characteristics, and assessing alternatives in terms of practicality, as well as operational and economic feasibility.

Airport Master Planning

Mr. Blanck was involved in the financial feasibility and airport layout of a new Western Sydney Airport Plan to confirm the preliminary airport layouts to inform the negotiation process; to support the business case and potential future environmental approvals and development processes; and to provide a base case of requirements and delivery options for those requirements.

Mr. Blanck contributed to the preparation of the SP2050 Airport Master Plan for the second Dubai airport, Al Maktoum International Airport (AMI) (March 2014-2018). AMI is planned to be the largest airport in the world (220 million annual passengers). Major project challenges include regional airspace, unprecedented peak and annual aviation demand driving huge infrastructure needs, maintaining a high level of service in a connecting international hub in particular for Emirates in a 2-airport system and optimizing the use of the current Dubai Airport (DXB).

Mr. Blanck served as Project Manager for On-Call Planning Services for the Abu Dhabi Airports Company (ADAC) in the UAE (2009-2011). He validated the current Master Plan projects and prepared numerous Program Definition Documents to justify the short- and long-term airport development projects; these include A380 Gate/Holdroom Expansion, Goods & Waste Consolidation Centre, Security Gate/Fencing Improvements, Ground Support Equipment Staging Areas, and a Forward Transfer Cargo Facility. In addition, he has been involved in development of the Airports CAT IIIB Master Plan for low visibility operations and other strategic development projects.

Mr. Blanck was the Project Manager for a Master Plan Study, FAR Part 150 Study, and Area Plan for the Kansas City International Airport (2009-2011). This project involved a third parallel runway to meet future demand, modernizing terminal facilities and roadway system, and possible relocation of the cross-wind runway for terminal expansion needs. An extensive land use planning effort identified potential opportunities to integrate development and the leasing of on-and off-airport property to increase airport revenues.

Aviation Committees

Mr. Blanck is actively involved in the ACI-NA Technical and Safety Committee and Airport Consultants Council (ACC); teaching Airfield Layout Planning and Design Short Course at the University of California, Berkeley (2005-2009).

Education

Bachelor of Science, Construction Management – University of Cincinnati

Representative Projects

- **Anchorage International Airport**
 - Terminal Gate Analysis
 - ATCT Line of Sight Analysis
 - Runway Visibility Zone Analysis
- **Australia Airports**
 - Airport Privatization
 - Runway Capacity Analysis
 - Airport Facility Development
- **Chicago O'Hare International Airport**
 - Airfield Geometry
 - Aircraft Operational Procedures
 - Airfield Construction Staging
 - NAVAIDS Relocation
 - Airspace Impacts/Approach Minimums
 - ATCT Line-of-Sight Analysis
 - Aircraft Jet Blast Impact Analysis
 - Remote Aircraft Deicing Procedures
 - Airport Facility Development
 - Airport Plans
 - A380 Gate/Airfield Planning
 - Airfield Alternatives Analysis
 - Construction Phasing
- **Chicago Midway Airport**
 - Airfield Geometry
 - Airfield Construction Staging
 - Obstruction Removal Study
 - Threshold Relocation Analysis
- **Cincinnati/Norther Kentucky International Airport**
 - Terminal Master Plan Study
 - Airport Master Plan Study
 - Support Facility Development
- **Cleveland Hopkins International Airport**
 - Airport Master Plan Study
 - Land Acquisition
 - Facility Development
 - Construction Phasing/Implementation
- **Dayton International Airport**
 - Airport Master Plan Study
 - Airfield Geometry
 - Land Acquisition
 - Roadway Relocation
 - Airfield Capacity
 - ATCT Tower Siting Study
 - TERPS Analysis
- **Doha International Airport**
 - Forecasts
 - Airfield Geometry
 - Airport Facility Development
 - ATCT Line of Sight
 - Construction Phasing
- **Hong Kong International Airport**
 - 3rd Parallel Runway Siting Study
- **Los Angeles World Airport**
 - Airport Master Plan Study
 - A380 Airfield Planning
- **Al Maktoum International Airport**
 - Airport Master Plan
 - Support Facility Requirement
 - Airfield Layout
- **Madrid, Spain**
 - Airport Privatization
 - Airport Facility Development
 - Construction Phasing, Cost Estimation and Implementation
- **Melbourne Airport**
 - A380 Gate/Airfield Study
 - Taxiway/Fillet Analysis
 - Runway Exit Study
 - Airfield Navigational Aid Study
- **New Berlin Brandenburg International Airport**
 - Airport Privatization
 - Airfield Geometry
 - Airport Facility Development
- **New Denver Airport**
 - Airfield Geometry
 - Missed Approach Procedures
 - ARFF Location Analysis
 - Terminal Space Allocations
- **Port Authority of New York & New Jersey**
 - Winter Snow Operations Study
 - Equipment and Staffing Implementation Plan
 - Construction Cost Estimates
 - Airport System Capacity Planning Study
- **Port Columbus International Airport**
 - MLS/TERPS Analysis
 - Airport Plans
 - ATCT Line of Sight Analysis
 - Airport Master Plan Study
- **Sydney Airport**
 - A380 Gate/Airfield Planning
 - New West Sydney Airport Study
- **Toronto, Canada**
 - Terminal Gate Analysis
 - Construction Operational Impacts
- **Abu Dhabi International Airport**
 - Update Airport Master Plan
 - CAT IIIB A-SMGCS Operational Procedures Master Plan
 - A380 Stand Development Program Definition Document
 - Aircraft Hardstand Development
 - Air Cargo Apron & Building Development
 - South Airfield Rehabilitation Program
 - Ground Service Equipment Storage Areas
- **King Abdul Aziz International Airport**
 - Aircraft Maintenance Hangar Complex Master Plan Study – Saudi Arabian Airlines
 - Airport Master Plan Update