



Dynamic Science, Inc.

AVIATION SERVICES

dsi

A photograph of the Rickenbacker Tower, a white building with a red metal balcony and a glass-enclosed observation deck. The building is set against a clear blue sky with green tree branches in the foreground. The name 'RICKENBACKER' and the elevation 'ELEV. 744' are visible on the side of the tower.

DYNAMIC SCIENCE, INC.

Dynamic Science, Inc., has been providing engineering and technical services to governmental and private organizations since 1942. From Hugh DeHaven's pioneering crashworthiness research to support of current Army ballistics testing, DSI's record of reliability and innovation is long and accomplished.

The aircraft and airfield services division of DSI has been serving the military and commercial community since 1985. From air traffic control to navigational and airfield systems maintenance, DSI does it all—safely and without fail.

AIR TRAFFIC CONTROL OPERATIONS

DSI helps airports improve their safety and efficiency by analyzing and improving ATC and airport management services. A strong advocate for safety, DSI assists airports in establishing and validating regulated airspace. DSI contributes to airport marketing efforts to increase air traffic volume and attract new aviation customers. DSI controllers also specialize in tracking several categories of flight activity, which provides airports with business aviation, general aviation, and commercial air carrier data.

Airspace analysis entails reviewing local routes for the following:

- Safety
- Efficiency
- Environmental Impact
- Noise
- Integration of General Aviation
- Class B or C Airspace Requirements
- Gates for Special Use Airspace

As a result, you can expect greater efficiency and/or increase in:

- Safety
- Fuel Efficiency
- Flight Plan Scheduling
- NAS Compliance
- Special Use Airspace Time



AVIATION SERVICES

DSI is a fully functional, all-inclusive air traffic control, navigational aid and airfield systems maintenance provider. We are an established ATC supplier to the Air National Guard and U.S. Coast Guard, operating at seven joint-use military-civil airfields. We provide ATC services to Mojave Air and Space Port, California, as part of the Non-Federal Control Tower Program. DSI's controllers service general aviation aircraft, business jets, a full range of military aircraft, and commercial air carriers of every size. Our experience in mixing military and civil flight operations is unsurpassed. DSI also provides ramp control and gate coordination services at the Detroit Metropolitan Airport.

MINNEAPOLIS ARTCC

CLEVELAND ARTCC

DETROIT METROPOLITAN
WAYNE COUNTY AIRPORT, MI

INDIANAPOLIS ARTCC

RICKENBACKER INTERNATIONAL
AIRPORT, OH

STANLY COUNTY AIRPORT, NC

ELLINGTON FIELD, TX

FRANCIS S. GABRESKI
AIRPORT, NY

BOSTON ARTCC

QUONSET STATE AIRPORT, RI

CAPE COD COAST GUARD
AIR STATION, MA

NEW YORK ARTCC

WASHINGTON ARTCC

MARTINSBURG/EASTERN WV
REGIONAL AIRPORT, WV

AVIATION SERVICES

AIR TRAFFIC SERVICES

- ✈ Control/separate/sequence air traffic in terminal area
- ✈ Inter- and intrafacility communications/coordination
- ✈ Crash/rescue notification & coordination
- ✈ Traffic advisories
- ✈ Flight following
- ✈ Search and rescue coordination

AVIATION WEATHER SERVICES

- ✈ National Weather Service Certified
Limited Aviation Weather Reporting System (LAWRS)
Supplemental Aviation Weather Reporting System (SAWRS)
- ✈ Station aviation weather reporting
- ✈ Enroute weather advisories/warnings
- ✈ SIGMET/AIRMET reporting

AUTOMATED BENEFITS

- ✈ Input/Updates/Termination on Flight Data Input/Output (FDIO)
- ✈ Standard Terminal Automated Replacement System (STARS)
- ✈ Automatic Terminal Information Services (ATIS)
- ✈ Automated Surface Observing System (ASOS)
- ✈ Automated Weather Observing System (AWOS)
- ✈ Information Dissemination/Display System IDS-4/5

MAINTENANCE

- ✈ Navigational Aids (NAVAID)
- ✈ Meteorological/Navigation (METNAV)
- ✈ HF, UHF, VHF radios
- ✈ Air Traffic Control and Landing Systems (ATCALs)

WEATHER OBSERVATION SERVICES

- ✈ Real-time weather observation using the Automated Surface Observing System and the Automated Weather Observing System
- ✈ All controllers National Weather Service trained and certified in accordance with FAA Orders and National Weather Service meteorological reporting criteria
- ✈ Critical weather data analysis for aviation observations
- ✈ Exceptional cooperative weather watch program
- ✈ First-class interpretation of radar and satellite imagery

CAPE COD
COAST GUARD
AIR STATION

ELEV 130



ds

ATC MAINTENANCE SERVICES

- ✦ DSI services include air traffic control and landing systems (ATCALS), meteorological navigational (METNAV), and navigational aid systems (NAVAIDS) equipment maintenance
- ✦ DSI maintenance technicians are FAA and FCC licensed and certified
- ✦ DSI's skilled maintainers provide service on:
 - AN/FRN-45 TACAN
 - Non-Directional Radio Beacon (NDB)
 - Automated Terminal Information System (ATIS)
 - AN/GMQ-32 Runway Visual Range (RVR)
 - Light guns
 - AN/FMQ-8 Digital Temperature Dew Point Set
 - An/GMQ-13/IP-1456 Cloud Height Indicator
 - Enhanced Terminal Voice Switch (ETVS)
 - Small Terminal Voice Switch (STVS)
 - GRN-29 ILS System
 - Tower radio transmitters, receivers, and antennas
 - AN/FSQ-204 STARS Tower Display Workstation
 - AN/GMQ-34 Cloud Height
 - AN/FMQ-13 Digital Wind System
 - AN/CT25K Laser Ceilometers
 - Closed Circuit Television (CCTV) Security System
 - Digital Voice Recording System (DVRS)
 - Digital Audio Legal Recorder (DALR)

AIR TRAFFIC CONTROL AND MANAGEMENT SERVICES

- DSI employees are working in Air Route Traffic Control Centers around the country
 - NextGen-capable workforce ready to implement the new Air Traffic Management System
 - Airspace redesign and research services focus on the analysis and optimization of the National Airspace System, providing valuable cost/benefit to customers
- DSI personnel control 250,000 annual aircraft operations at six airports nationwide.
 - Over 40 full-time air traffic controllers operate visual flight rules (VFR) control towers.
 - DSI controllers average 18 years of ATC experience, maintain FAA certifications and currency, and average 41,000 annual operations per tower.
 - DSI's air traffic managers average over 30 years of ATC experience.
 - Our team of senior ATC employees have extensive experience in the profession. They are former FAA employees and retired military personnel and have served in many different ATC roles.
 - All ATC operations are compliant with FAA regulations and procedures.
 - Our controllers make use of the world's most advanced automation systems to efficiently integrate tower controlled aircraft into the National Airspace System.

RAMP CONTROL AND GATE COORDINATION SERVICES

The safe and efficient movement of aircraft within the confines of congested ramp space is DSI's number one priority in providing superior ramp control services. Our employees provide the following:

- ✈️ Prioritization of arrivals and departures
- ✈️ Flight information display updates for operational and public viewing
- ✈️ Coordination with all airport, airline, and air traffic control personnel
- ✈️ Taxi instructions for remote de-ice, parking areas, gate arrivals, and departure clearances
- ✈️ Information relay for emergency medical, mechanical, and weather divert responses





SERVICE BENEFITS

DSI is sensitive to the high business costs associated with a bustling airport and offers services with fiscal responsibility in mind. In addition to providing the human element, DSI's proprietary airport surface management system captures aircraft movement, parking, and the costs associated with each event. Our system of data retrieval provides our customers with the following:

- ✈ Gate parking report categorized by airline
 - Arrival/Departure times
 - Parking location
 - Gate usage by minutes
- ✈ Aircraft diversion information
 - ✈ Breakdown of parking fees assessed to each airline
- ✈ Weekly and monthly charter schedules
- ✈ Gate plot scheduling tools
- ✈ Hardstand parking reports
- ✈ Daily record of facility operations
- ✈ Common-use aircraft movement logs



AIR TRAFFIC CONTROL TRAINING

- ✦ Air traffic control training to FAA certified professional controllers and developmentals
- ✦ Rules and procedures interpretation and application
- ✦ Knowledge and practical application training and testing
- ✦ High-fidelity simulation development and generation
- ✦ Computer-based instructional programming and administration
- ✦ Records documentation
- ✦ Quality control and standard operating procedure development
- ✦ En Route Automation Modernization (ERAM) program transition

AIR TRAFFIC CONTROL TRAINING

- DSI provides air traffic control training to the Federal Aviation Administration at the Boston, New York, Washington, Minneapolis, Cleveland, and Indianapolis Air Route Traffic Control Centers.
- DSI trains new developmental controllers, as well as seasoned certified professional controllers, using classroom instruction, static labs, one-on-one examinations, and high-fidelity simulations.
- All DSI employees are carefully vetted for their FAA, military, and interpersonal skills.





DSI SAFETY AND QUALITY

- ✈️ DSI's Quality Control Plan ensures full FAAO JO 7110.65, Air Traffic Control, and FAAO JO 7210.3, Facility Operation and Administration compliance.
- ✈️ Our Quality Control Plan has produced exceptional results on FAA quality assurance evaluations and achieved outstanding customer satisfaction reports from aviation users throughout the country.
- ✈️ DSI has had zero Hazardous Air Traffic Reports (HATR) on controllers or facility operations since inception.
- ✈️ DSI controllers are trained, skilled, and FAA-certified in effective separation of aircraft.
- ✈️ DSI administers a results-driven reduced runway incursion plan.



PRICING

- ✈ DSI's pricing is highly competitive and provides airports with maximum hours of operation.
- ✈ DSI uses cost-effective support methods to remain within airport budgets.
- ✈ DSI's combined weather and ATC services limit the number of personnel required to perform aviation-related tasks, saving airport funding.

PROFESSIONAL ASSOCIATIONS

DSI remains engaged on all professional levels to ensure our employees are equipped with the most current information on supporting government contracts. DSI is an active member of several professional organizations:

- ✈ U.S. Contract Tower Association (USCTA)
- ✈ National Defense Industrial Association (NDIA)
- ✈ Air Traffic Control Association (ATCA)
- ✈ American Association of Airport Executives (AAAE)
- ✈ Professional Services Council (PSC)
- ✈ Association of the U.S. Army (AUSA)
- ✈ International Test and Evaluation Association (ITEA)
- ✈ National Contract Management Association (NCMA)





For additional information, please contact:

Dynamic Science, Inc.
8433 North Black Canyon Hwy, Suite 200
Phoenix, Arizona 85021
Phone: (602) 995-3700
Fax: (602) 995-4091

www.exodyne.com

dsi **Dynamic Science, Inc.**
— AN EXODYNE COMPANY —

NO INFORMATION CONTAINED IN THIS BROCHURE MAY BE USED OR DISCLOSED WITHOUT PERMISSION OF DSI.