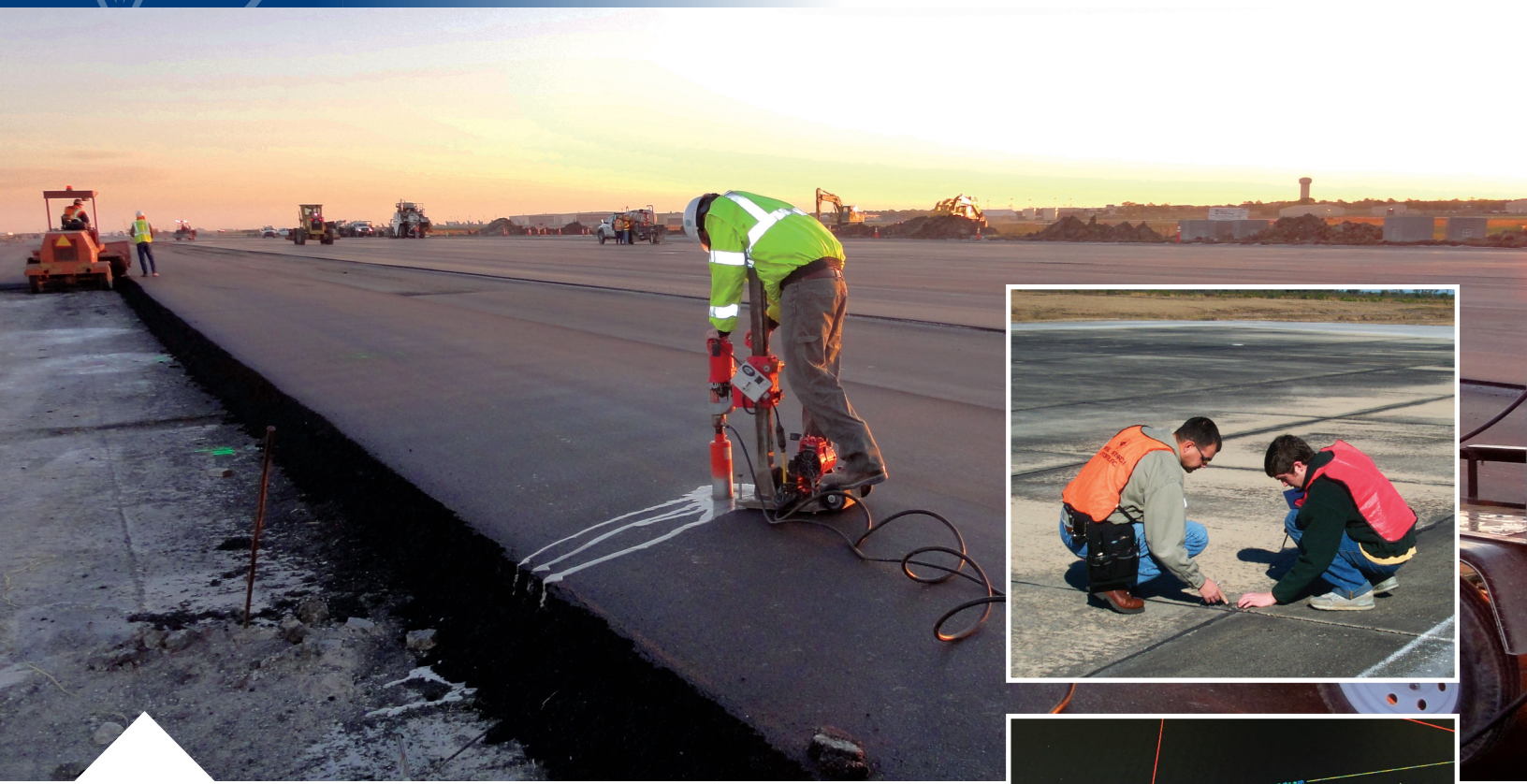


Defense-Related Airfield Services



ARA provides innovative technical services and research & development (R&D) to address a broad range of complex and challenging needs for defense-related airfields. We have a proven record of high-quality service to several U.S. and Canadian defense organizations. Through the application of our innovative services and technologies, ARA has helped defense agencies:

- Develop and advance critical airfield infrastructure technologies
- Implement asset management systems for pavements, utilities, and other airfield infrastructure
- Proactively manage a global network of airfield and roadway pavement structure
- Design and construct critical airfield infrastructure improvements
- Ensure high-quality reconstruction of airfield runways, taxiways, and aprons



For more information on ARA's defense-related airfield capabilities, please visit www.ara.com.



Airfield Operating Surfaces R&D

ARA's Airfield Operating Surfaces (AOS) group supports the U.S. Air Force Research Laboratory (AFRL) Airbase Technologies Division (RXQ) with innovative R&D services that help advance technologies in pavement materials research, development of equipment and processes, and rapid airfield damage repair technologies to support current and future aircraft.

Pavement Condition Surveys & PAVER Implementation

Since 1995, ARA has been the U.S. Air Force's leading provider of Pavement Condition Index (PCI) surveys and associated PAVER pavement management system implementations worldwide. We have also supported similar efforts for Canada's Department of National Defence.

ARA conducts pavement evaluations at 10 to 14 Air Force bases per year, and the Air Force uses the results of these evaluations to proactively maintain and rehabilitate its airfields and associated roadways to sustain readiness and meet ever-changing demands. We also provide the Air Force with detailed results for PCI, foreign object debris, friction, and Aircraft Classification Number/Pavement Classification Number (ACN/PCN) evaluations.

Asset Management

ARA is a leading provider of airfield asset management services and technologies for the U.S. Air Force. With ARA's support, the Air Force began enterprise asset management for its major pavement system portfolio, implementing segmentation principles and policies, along with recommendations from condition assessments that ARA has helped perform for the past 20 years. More recently, the Air Force expanded its asset management focus to address utilities information needed for lifecycle enterprise asset management. In support of these activities, ARA is updating the Air Force's 460 geographic information system (GIS) utilities databases through detailed records review, site visits, and linear segmentation. The resulting data provide increased asset visibility, better operations and maintenance planning, and improved environmental impact assessments.

Airfield Design and Construction Quality Assurance

Over the past decade, ARA has provided design services for critical airfield pavement, lighting, and utility improvements at multiple air bases across the United States. We have demonstrated expertise in the Unified Facilities Criteria (UFC) design code. During this same time, ARA has served as a leading provider of Title II quality assurance services for U.S. Air Force runway and airfield reconstruction projects, overseeing millions of dollars worth of construction activities. Our pavement and electrical experts offer innovative quality assurance and construction oversight for all aspects of airfield infrastructure, including demolition, profile milling, storm sewers, underdrains, earthwork, base materials, hot mix asphalt and portland cement concrete paving, airfield lighting, approach lighting, navigational aids, signage, duct banks, lighting vault upgrades, and pavement grooving and marking.

