

# DEFENSE WASHDOWN SYSTEMS

RETROGRADE VEHICLE CLEANING AND AIRCRAFT CORROSION MITIGATION



**RIVEER**<sup>™</sup>

Engineered Wash Water  
Recovery Systems

The Solution is Clear with Riveer<sup>SM</sup>

# DEFENSE WASHDOWN SYSTEMS

DoD AND USDA  
COMPLIANT



## FROM FRONT LINE TO FLIGHT LINE, RIVEER HELPS PROTECT MILITARY HARDWARE

The Defense Washdown Systems is a family of Riveer™ technologies developed specifically for the critical issues of retrograde washdown, maintenance, and corrosion mitigation. This document is intended to present a high level overview of these solutions for Environment, Corrosion, Logistics and Procurement teams assigned these duties. Additional information is available at request.

*"Identify and assess potential adverse impacts of the wash operation and take all reasonable actions necessary to minimize the effects of used water and contaminants on the local environment. Contaminants must be captured or removed from rinse water to avoid contamination of runoff areas."*

(AFPMB Technical Guide No. 31: E5)

*"All aircraft stationed within 1.25 miles of saltwater shall be clear water rinsed at least once every 15 days, and that all aircraft flown at low level (under 3000 ft.) over saltwater require a CWR after the last flight of the day."*

(NAVAIR 01-1A-509, TM 1-1500-344-23, et al)





# VWS

## DEPLOYABLE RETROGRADE WASH-DOWN AND INSPECTION RACK

**DoD 4715.5:** Management of Environmental Compliance at Overseas Installations

**4.3.** Pollution prevention shall be the preferred means for attaining compliance, where economically advantageous and consistent with mission requirements.

**4.5.** The DoD Components should use commercially proven solutions, where possible, to achieve, maintain, and monitor compliance.



### WASH AND INSPECTION RACKS

The Riveer™ VWS is engineered specifically for retrograde logistics. It expedites thorough washing of all critical areas of MRAPS, personnel carriers, tanks, amphibious vehicles, light duty and staff cars and trucks. The heavy-duty rack allows access for complete inspection fore and aft in undercarriage, axles, universal joints, wheel wells, etc.

Designed specifically for rapid deployment, VWS is a veteran of CONUS and OCONUS service in theaters throughout the world. The washdown rack captures wash water for proper disposal, as stated in DoD regulations concerning environmental compliance in host countries while its portability aids in staging near points of final departure.

VWS requires only minimal site improvement for rapid set-up and operation and can be shipped anywhere in the world. Seven ISO 20' containers contain the entire system. VWS is completely self-contained, and does not require a permanent or portable water source. The system is completely closed loop and meets DoD Directive 4715.56050.16 for foreign deployed wash racks.



# TAWS<sup>®</sup>

TOTAL AIRCRAFT WASHING SYSTEM



## TAWS<sup>®</sup> WASH CART

A full power hot water wash and rinse system, the Riveer™ Total Aircraft Washing System produces a high flow rate that cuts cleaning time dramatically by effectively washing large surface areas. The built-in air-powered high-pressure foamer will cover the side of a CH47 in less than a minute (750 sq. feet per minute). This efficiency is further supplemented by dual guns for two users and 200' of total reach. Simultaneous use of the dual guns does not negatively impact flow rates. In addition, the spray can easily reach 20' for cleaning large aircraft and tail sections. All hoses are on reels, and all guns have storage brackets and toolboxes for consumables, spares and turbine engine probes. The system sprays 5 gallons of 140-degree water per minute out of each spray gun, applying a safe-for-aircraft 175 PSI. These specifications meet the stringent TM requirements for aircraft wash, rinse and decontamination procedures.

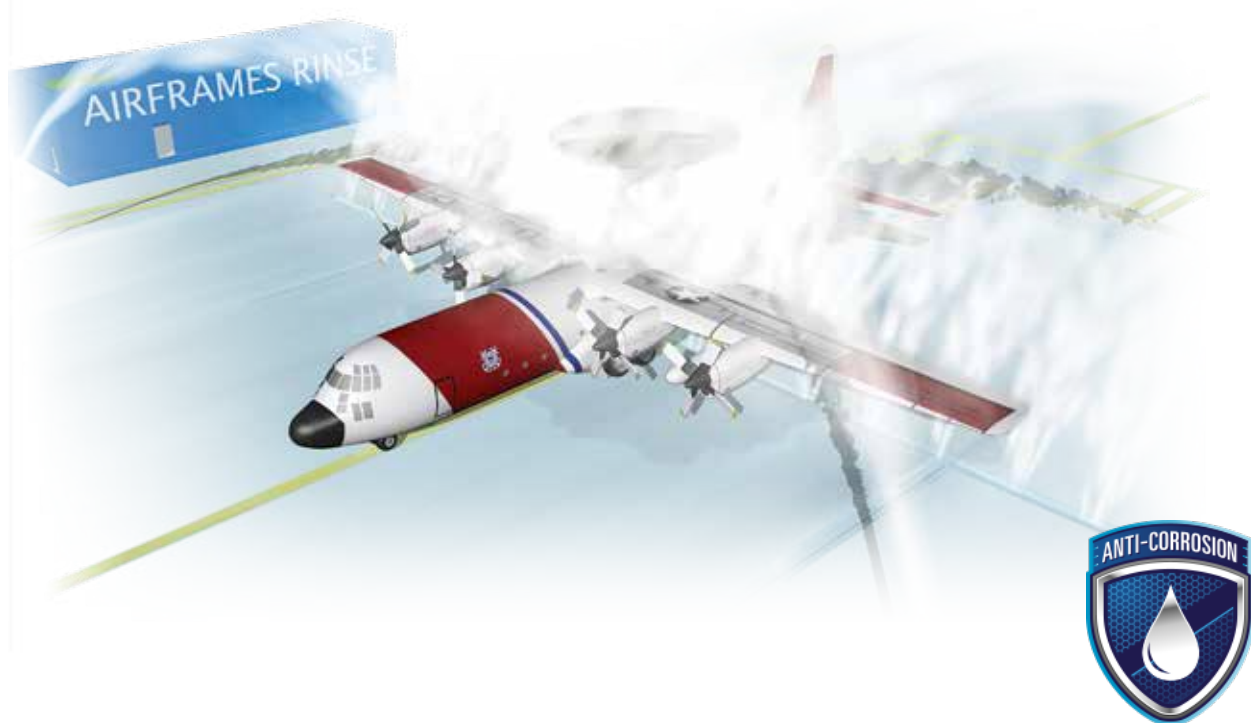




# BIRDBATH

CLEAR WATER RINSE SYSTEM

Adheres to T.O. 1-1-691, Aircraft Weapon Systems Cleaning and Corrosion Control (NAVAIR 01-1A-509, TM 1-1500-344-23-2)



## BIRDBATH CWRS

Fight corrosion before it happens. Riveer™ BirdBath is an automatic Clear Water Rinse System (CWRS) that helps prevent aircraft corrosion quickly and effectively by rinsing the aircraft as it taxis back to the flight line or gate. The low-pressure, high-flow process takes 30 seconds to 2 minutes and can be adjusted to environmental and mission conditions. What's more, the Riveer BirdBath reclaims, filters and recycles up to 80% of the fresh water used for rinsing aircraft. BirdBath CWRS can be installed in-ground or above-ground, which requires less infrastructure modification and associated on-site engineering/environmental considerations than a typical in-ground rinse facility installation (can be procured as equipment rather than an infrastructure project).



# DEFENSE WASHDOWN SYSTEMS



Riveer™ is a global leader in Engineered Wash Water Recovery Systems for commercial, industrial, municipal and military applications. Riveer technology addresses the unique challenges of pressure washing hardware, vehicles and aircraft, followed by the recovery and filtration of wash water. Having developed the first environmentally-compliant wash rack, Riveer's product line today includes well known MudMaster™, BirdBath, TAWS®, RTS and Phosphater™ systems, as well as turnkey design/build systems installations. Riveer's engineering team, ISO 9001 certified manufacturing process and world-wide service capabilities make Riveer the go-to name in wash water recovery and corrosion mitigation systems that deliver high performance, ease of use and unmatched dependability.

The solution is clear...with Riveer.



Riveer employs a quality management system that is ISO 9001:2008 certified.  
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