





MARCH 2025 BORDEAUX, FRANCE

BRADFORD BECK, PRESIDENT AND COO

WHAT IS THE MODULAR APPROACH TO AERIAL FIREFIGHTING?



Utilizes existing aircraft that are temporarily converted into air tankers.



Does not impact the utility of the aircraft for other missions.



WHY DO WE NEED THE MODULAR APPROACH?



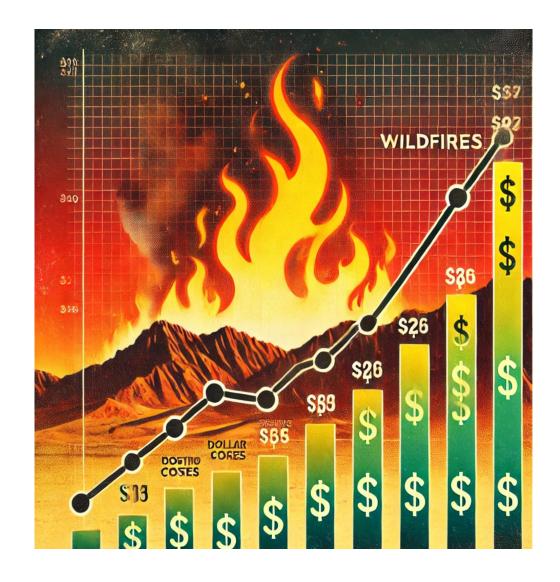
Rapid increase in severity and duration of fire seasons requires a proportional increase in firefighting aircraft



Traditional "dedicated aircraft" approach is inefficient, prohibitively expensive and too slow



Extended fire seasons in both hemispheres makes aircraft sharing model unsustainable



ADVANTAGES OF THE MODULAR APPROACH

ULTIMATE FLEXIBILITY

ONE

MAFFS systems are modular and rolled on/off any aircraft in hours. Operators can respond quickly, but also maintain full aircraft utility for non-fire-related operations

TWO

Eliminates the need for dedicated firefighting aircraft which are expensive to operate and maintain, and are typically only used seasonally, but incur maintenance costs year-round

THREE

No structural modifications to the aircraft preserves the integrity of the aircraft for resale or other future dedicated uses

FOUR

Systems are full interchangeable and can be used across your whole fleet, reducing the risk of an aircraft not being available because of AOG designation, maintenance cycle, etc...



LOWER OVERALL OPERATIONAL COSTS



Cost of system is far lower than the cost to modify and maintain a dedicated aircraft



WAYS TO IMPLEMENT THE MODULAR APPROACH

PRIMARY RESOURCE

SURGE CAPACITY

ASSET SHARING



MAFFS II: PROVEN TECHNOLOGY SYSTEM OVERVIEW

- Self-Contained Roll On/Roll Off System with minimal permanent modification of the aircraft
- Applicable to C-130, KC390, and C27J Aircraft
- Capacity of up to 3,000 Gallons of Liquid (water, retardant, etc.)
- Meets all Current US Forest Service Standards for setting variable Coverage Levels and Quantities per Discharge

- Controllable Pressurized Discharge allows for painting of fire lines or hotspot treatment
- Onboard air compressors utilizing aircraft power eliminates the need for Ground Air Compressors (C130, C390)
- Includes all GSE required for operations





EASY TO ROLL/ON – ROLL/OFF

FORWARD PALLET ASSY

- Electrical Power Equipment
- MAFFS II Control System
- Two Air Compressors (supply High Pressure Air to Reservoirs)

CENTER PALLETE ASSY

- Stainless Steel Tank, 3,400 Gallon, Capacity (specially Fabricated pressure vessile)
- Pressurized to 90-120 psi, to deliver payload (Retardant, Water, Foam, Corexit, etc)
- Two Specially Designed High Pressure Air Reservoirs (38 cubic feet/1480 psi each)

CENTER PALLETE ASSY

- Operator's Console (two seats, Primary Control Station)
- Hydraulic System and Components
- S' Duct for Constant Flow Discharge (Nozzle exterior to the aircraft)
- 150 Gallon Stream Injection Tank (Foam, etc.)



DISTINGUISHED OPERATIOANAL HISTORY



The MAFFS Program and US Military Firefighting mission was born in 1971 by act of Congress and has continued non-stop for more than 50 years



VUS Forest Service owns and supplies eight MAFFS II systems and the Department of Defense provides C-130 aircraft from Air Force Reserve and Air National Guard Units



MAFFS is used to provide "surge capacity" by temporarily converting C-130's into Type 1 Large Airtankers when available civilin resources are exhausted



Current system proven safe and effective with more than +10,000 hours of real-world firefighting service in the past 15 years and zero system related incidents

















PROVEN MANUFACTURING CAPABILITIES



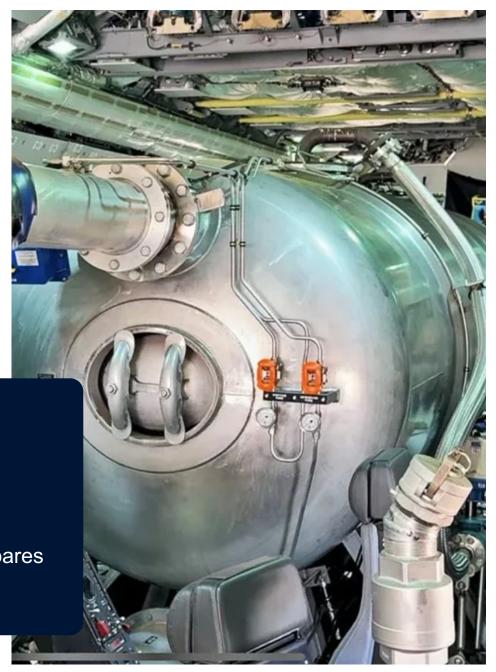
MAFFS II is in active production with new systems available



Improved manufacturing processes and advanced technology based on lessons learned over numerous successful builds

We have cultivated a robust and diverse supply chain

- Minimizes risk of supplier delays and cost escalations
- Provides dependable and efficient access to spares spares



MAFFS II MODELS

LOCKHEED C130

50 years of MAFFS, designed in cooperation with the USAF & USFS

EMBRAER C390

First Jet Plane with MAFFS



MODEL: LEONARDO C27J



C27J: MOST CAPABLE AND VERSATILE AIRLIFTER IN ITS CLASS



TAKE OFF GROUND RUN AT MTOW

580M



LANDING GROUND ROLL AT MLW

580m



OPERATIONS ON UNPABED AIRSTRIPS

CBR <3





2.45m Wide

2.25m High



VARIABLE CARGO FLOOR

Height & Pitch



MAX PAYLOAD

11,300 kg





Wide cargo bay and outstanding floor strength for transport of heavy vehicles and full weight/height 88" x 108" standard pallets.

Quick configuration changes and interoperability with larger airlifters

Designed for easy loading / unloading operations without ground support tools: where no aircraft has gone before

APU for autonomous operation on austere airfields.



TROOP TRANSPORT

Up to 60



PARATROOPERS AIRDROP

Up to 46





Up to 9 Tons by pallete (qualified for bundles, LAPES combant off load)

MEDEVAC



36 stretchers 6 Attendants

SPECIAL MEDEVAC



2 special stretchers (also niocontainment)

6 Attendants

VIP TRANSPORT



6 VIP+18 Passangers

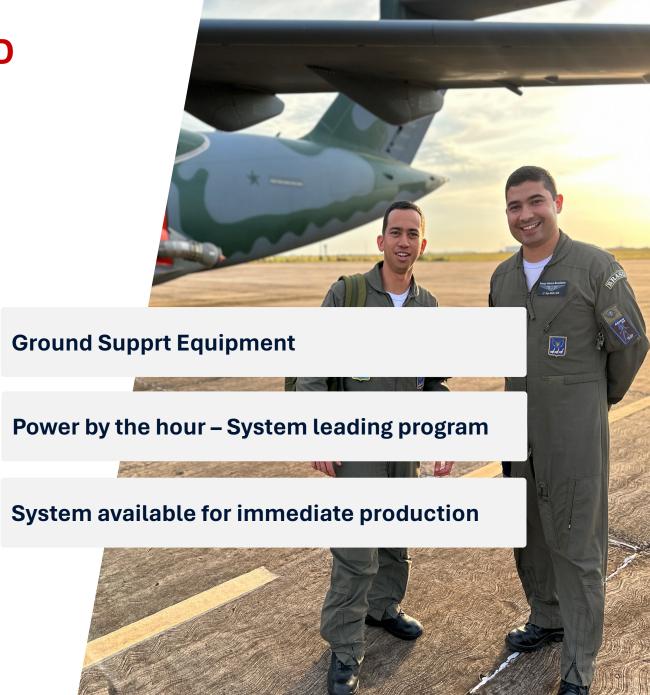
TURNKEY SOLUTIONS TAILORED TO YOUR NEEDS



Formal training programs

Field Service Representatives

Storage Trailers



PEDIGREE OF CONTINUED INNOVATION

- MAFFS pioneered the modular approach to aerial firefighting
- MAFFS II is now available and has been delivered for multiple platforms with several more in active development and production
- Technology derived from ongoing development may lead to additional system features and improvements.
- Repeated and ongoing testing (DO-160, Computer Simulations, improved robust electrical system integration, etc.)
- 40 years of technical data, reports, testing (NDT and ultimate load)
- Ongoing commitment to:
 - · Reduced Weight
 - Shorter Fill Times
 - Cost Reductions



CONTACT INFORMATION

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