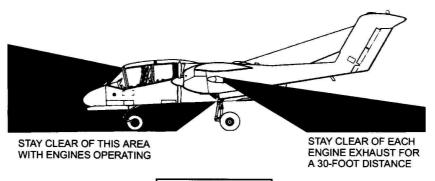
	NUMBER OF BLADES (each propeller) Three			
	PROPELLER DIAMETER 8.5 ft			
	PROPELLER TYPE Constant speed, Full feathering, Aluminum			
	PROPELLER ROTATIONAL SPEED at 100% RPM 2000 rpm			
	LEFT PROPELLER Rotates clockwise			
	RIGHT PROPELLERRotates counter-clockwise			
APPROVED ENGINE FUELS				
	COMMERCIAL GRADE Jet A			
USABLE FUEL				
	Main Fuel System			
	Auxiliary Fuel System			
	Maximum Usable Fuel Quantity			
ENGINE OIL SPECIFICATION				
OIL CAPACITY (EACH ENGINE)				
	Total			
	Tank Usable Oil			
MAXIMUM WEIGHTS				
	Maximum Takeoff Weight (certification)			
	Maximum Takeoff Weight (air tactical mission) 10,500 pounds			
	Maximum Landing Weight (certification) 11,000 pounds			
	Maximum Landing Weight (air tactical mission) 10,500 pounds			



DANGER AREAS

Figure I-3

DESCRIPTIVE DATA

ENGINES

NUMBER OF ENGINESTWO (2)		
ENGINE MANUFACTURER Garret-Air Research		
ENGINE MODEL NUMBERT-76-G		
ENGINE TYPE Fixed-shaft turbine propeller		
NUMBER OF DRIVE SHAFTS One		
COMPRESSOR STAGES AND TYPES Two-stage centrifugal flow		
COMBUSTION CHAMBER TYPE Annular		
TURBINE STAGES AND TYPE Three-stage axial flow		
ENGINE SHAFT-HORSEPOWER RATING 715 shp		
ENGINE ROTATIONAL SPEED AT 100% RPM 41,730 rpm		
PROPELLERS		
NUMBER OF PROPELLERSTwo		
PROPELLER MANUFACTURER Hamilton Standard		

FINAL

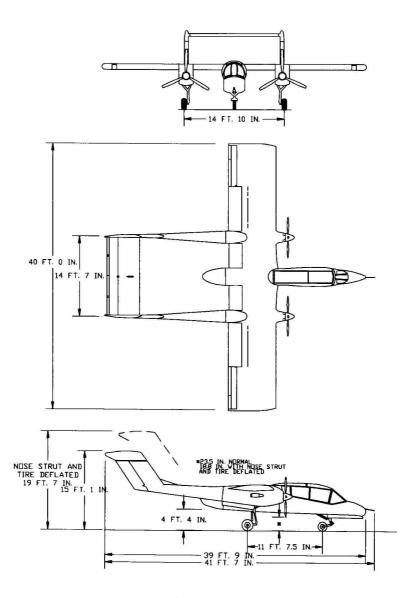


Figure VIII-1

THE AIRCRAFT

The Rockwell International OV-1OA is a twin-turboprop, multipurpose aircraft originally designed in 1968 for U.S. military counter-intergency operations. The California Department of Forestry and Fire Protection acquired the aircraft in 1993 through a Federal Excess Property Program (FEPP) transfer. The aircraft is modified from its original configuration to suit its new role as a firefighter as well as enabling it to function in the civil (vs. military) environment. Main identification features include a shoulder-mounted straight wing; a large, glass-enclosed cockpit; twin tail booms; and swept vertical stabilizers with a high-set horizontal stabilizer. The cockpit section contains a second flight crew station to accommodate a fire-control specialist (observer).

MODIFICATION SUMMARY

Major modifications by CDF are as follows:

REMOVED COMPONENTS	ADDED COMPONENTS
Sponsons (hard points for ordinance).	125 gallon auxiliary fuel tank
Centerline pylon (for external fuel tank).	Fully adjustable pilot & observer seats
Ejection seats.	All new avionics
Anti- "G" suit system	Redesigned instrument panels
Armor plating	New flight instruments
All military avionics	Redesigned warning lights panel
All military ordinance systems	New flight instruments
Yaw damper system	Redesigned warning lights panel
Approach light system	New electronic fuel management system
Windshield wiper system	New solid state a-c inverters
Numerous electrical components	New tinted canopy glass
All unnecessary wiring	Leading edge pulse lights
Original instrument panels	Wing tip strobe lights
Original (clear) canopy glass	Numerous storage compartmetrs
Oxygen system	New gloss paint scheme
Original (IF) paint	
Numerous airframe components	

MODIFIED COMPONENTS

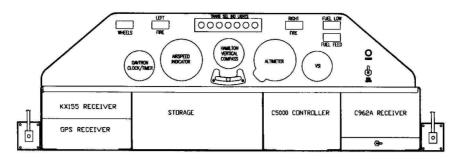
Electrical System is greatly modified and improved, enhancing function and reliability.

AIRCRAFT DIMENSIONS

Overall static dimensions of the aircraft are as follows:

Span	40 feet
Length	39.7 feet
Height (vertical stabilizer)	15.1 feet
Tread Width	14.8 feet

OBSERVERS COCKPIT



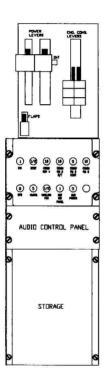


Figure VIII-4

PILOTS INSTRUMENT PANEL

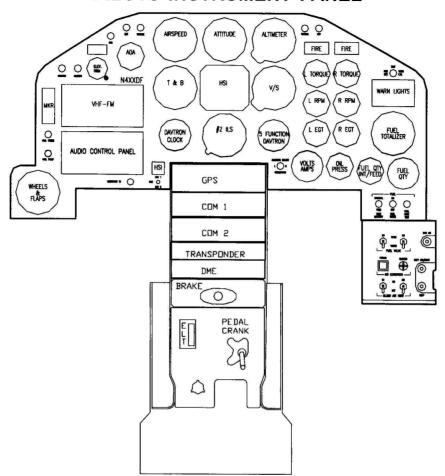


Figure VIII-2