53

## **Operating and Support Cost**

## **Assumptions and Ground Rules**

Then Year 387615.0 --

The F-35 family of highly common aircraft variants will replace or augment four current aircraft: F-16, A-10, F/A-18C/D, and AV-8B.

Where JSF specific data is not yet available, the F-35 O&S estimate is based on F-18C, F-16C, and AV-8B history.

The cost per Flying Hour (\$ in Thousands) comparison shown below reflects the F-35 Conventional Takeoff and Landing (CTOL) variant only. The CTOL variant will comprise the majority of the F-35 aircraft DoD buy, i.e., 1,763 of the 2,443 total quantity. The O&S differences between F-35 CTOL and F-16 are representative of the comparisons across legacy fleets. Since F-16 does not report certain cost elements (e.g., Support Equipment Replacement, Modifications, and Indirect costs), these are excluded from the below F-35A cost per flight estimate hour to better align with the antecedent program. The below F-35A estimate does include the cost of supporting the training centers, training devices at the operational sites, and Autonomic Logistics Information System (ALIS); legacy programs do not include these cost categories. F-35 CTOL costs reflect 24-aircraft squadrons operating at 300 flying hours per aircraft per year. The F-16 costs have been developed in a joint effort with the F-35 Program Office and the Air Force Cost Analysis Agency.

The total O&S Cost (\$ in Millions) shown below reflects total O&S costs, to include all categories, for all three US variants based on an estimated 8,000 hour service life and predicted attrition and usage rates, and are not a simple extrapolation of CTOL costs shown in the upper table. A comparable number for antecedent systems is not available.

		Costs BY2002 \$	K			
Cost Element		JSF Cost per Flying Hour (\$)		F-16C/D Cost per Flying Hour (\$)		
Mission Pay & Allowance			4.672		5.249	
Unit Level Consumption			7.880		6.369	
Intermediate Maintenance	374.85M	per aircraft (2,443) per flying hour	0.000		0.000	
Depot Maintenance			0.762		0.980	
Contractor Support		rs @ 300 FH/Year	0.389		0.130	
Sustaining Support	Istaining Support for 8,000		1.487	0.463		
Indirect						
Other						F-16C
Total Unitized Cost (Base Year 2002 \$)			15.190	1.1515	13.191	12.434
						1.221
Total O&S Costs \$M		JSF		F-16C/D		
Base Year			370844.1			
Then Year			915761.4			
		Dec01 BY\$	151923.0	2.849 with 409 fev	ver acft (13	0136.0)
		Dec01 TY\$		2.758 with 409 few		
Costs BY2002 \$M Base Y	ear APB -	Dec 2001				,
Cost Element JSF Cost per	Flying Ho	ur (\$BY02) F-16C	/D Cost pe	er Flying Hour (\$B	Y02)	
lission Pay & Allowance 328						
Init Level Consumption 3295						
ntermediate Maintenance 0	3					
Depot Maintenance 399 293						
Contractor Support 0 44						
Sustaining Support 861 627						
ndirect 1301 2329						
Other						
otal Unitized Cost (Base Yea otal O&S Costs \$M JSF F			SSIFIED			
Base Year 151923.0	-100/D	UNUEA				