

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604223A - COMANCHE

COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	865613	1068029	1229664	1061217	791287	554222	436490	Continuing	Continuing
2LT COMANCHE OPER TEST	138	1231	9065	26499	10679	18515	50874	Continuing	Continuing
327 COMANCHE	812051	1024886	1177480	1003372	758447	519418	371700	Continuing	Continuing
C72 T-800 ENGINE ED (LH)	53424	41912	43119	31346	22161	16289	13916	Continuing	Continuing

A. Mission Description and Budget Item Justification: The RAH-66 Comanche will be the Army's next generation Armed Reconnaissance aircraft system. Comanche will be the first fielded capability of the Future Combat System in the Future Force. It will provide the Army with Network Centric capability both from a Joint and Combined Arms perspective. Comanche's technology will provide the Army with a system capable of operating in adverse weather conditions across a wide spectrum of threat environments. Comanche's innovative design will provide the Army with much lower operating costs through the use of integrated diagnostics and component functional partitioning, eliminating the requirement for Aviation Intermediate Maintenance (AVIM). Comanche advanced airframe design incorporates composite airframe structures, bearingless main rotor system, and reduced signatures. The Comanche Mission Equipment Package (MEP) will feature an open systems architecture integrating 2nd generation target acquisition and night vision sensors. Pilot workload from targeting to navigation is significantly reduced due to introduction of cognitive decision aiding and fully integrated weapon systems. Project C72 provides for continued development and qualification of the T802 engine and air vehicle support for integration into the Comanche aircraft. Project 2LT includes funding for the operational testing of Comanche to include modeling and simulation accreditation for Early User Test, Limited User Test and Initial Operational Test and Evaluation. Project 327 provides for development of the airframe, mission equipment package, integration and qualification of the complete system to include logistic support, training, and training devices. The Comanche system supports the Future transition path of the Transformation Campaign Plan (TCP).

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)**February 2004**

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604223A - COMANCHE**B. Program Change Summary**

	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	874018	1079257	1181563
Current Budget (FY 2005 PB)	865613	1068029	1229664
Total Adjustments	-8405	-11228	48101
Congressional program reductions		-10150	
Congressional rescissions	-10917		
Congressional increases			
Reprogrammings	27490	-1078	
SBIR/STTR Transfer	-24978		
Adjustments to Budget Years			48101

FY 05: Increase provided for Wideband Network Waveform.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604223A - COMANCHE			PROJECT 2LT		
COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
2LT COMANCHE OPER TEST	138	1231	9065	26499	10679	18515	50874	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: This project provides for progressive test requirements in support of the test and fielding of the RAH-66 Comanche helicopter. Requisite activities include Force Development Test and Experimentation (FDTE) I, II, III and IV dedicated to tactics, techniques and procedures, and Limited User Test (LUT) that provide operational input early in the system's life cycle and support the LRIP decision; the Army Training Evaluation Program (ARTEP) and Initial Operational Test and Evaluation (IOT&E) in support of a Milestone III production decision. The Comanche system supports the Future transition path of the Transformation Campaign Plan (TCP).</p>									
Accomplishments/Planned Program							<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Prepare for and Conduct the Limited User Test (LUT)							83	1053	6916
Accreditation of the crew station simulators (Comanche Portable Cockpits) in support of FDTE II; conduct FDTE II.							43	92	1099
Conduct Electro-optical Sensor System (EOSS) User Survey							12	50	1050
Small Business Innovative Research/Small Business Technology Programs							0	36	0
Totals							138	1231	9065

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604223A - COMANCHE				PROJECT 2LT	
<u>B. Other Program Funding Summary</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
A08300 Comanche	8000	0	11967	289139	964681	1529131	2030478	Continuing	Continuing
<p><u>C. Acquisition Strategy:</u> This project is for test and evaluation effort to support Comanche acquisition.</p>									

ARMY RDT&E COST ANALYSIS(R3)									February 2004				
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT			
5 - System Development and Demonstration					0604223A - COMANCHE					2LT			
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
			0	0		0		0		0	0	0	
Subtotal:													
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
			0	0		0		0		0	0	0	
Subtotal:													
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . Government Agency	MIPR	Army Test and Evaluation Command, Alexandria, VA	227	138	1-3Q	1231	1-3Q	9065	1-3Q	Continue	Continue	Continue	
Subtotal:			227	138		1231		9065		Continue	Continue	Continue	

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT 2LT		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			227	138		1231		9065		Continue	Continue	Continue

Schedule Profile (R4 Exhibit)																				February 2004												
BUDGET ACTIVITY 5 - System Development and Demonstration												PE NUMBER AND TITLE 0604223A - COMANCHE																PROJECT 2LT				
Event Name	FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Conduct EOSS User Survey																																
Conduct FDTE II																																
Conduct FDTE III																																
LUT																																
Conduct FDTE IV and ARTEP																																
Conduct IOTE Block I																																
Conduct IOTE Block II																																
(1) IOT&E																																

Schedule Detail (R4a Exhibit)						February 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604223A - COMANCHE			PROJECT 2LT	
<u>Schedule Detail</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Conduct independent evaluation at contractor test facility supporting LUT	1-4Q	1-4Q	1Q				
Prepare for LUT	4Q	1-4Q	1-4Q	1-4Q			
Prepare for FDTE II	4Q	1-4Q	1-2Q				
Prepare for EOSS User Survey	4Q	1-4Q	1Q				
Conduct EOSS User Survey			2Q				
Conduct FDTE II			3Q				
Prepare for FDTE III	4Q	1-4Q	1-4Q	1-3Q			
Conduct FDTE III				4Q			
Conduct LUT				4Q			
Prepare for FDTE IV and ARTEP			4Q	1-4Q	1-4Q	1-4Q	
Conduct FDTE IV and ARTEP							1Q
Prepare for IOTE Block I				2-4Q	1-4Q	1-4Q	1Q
Conduct IOTE Block I							2-3Q
Prepare For IOTE Block II				2-4Q	1-4Q	1-4Q	1-3Q
Conduct IOTE Block II							3Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	February 2004
--	----------------------

BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604223A - COMANCHE	PROJECT 327
--	---	-----------------------

COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
327 COMANCHE	812051	1024886	1177480	1003372	758447	519418	371700	Continuing	Continuing

A. Mission Description and Budget Item Justification: The Comanche helicopter is a highly sustainable and operationally flexible armed reconnaissance light helicopter, incorporating significant reductions in personnel and support equipment, capturing the latest combat technologies and capable of accepting upgrades to meet ever-changing threats. It will dominate the battlefield in the close, deep and rear operations and provide a decisive air cavalry capability in day, night, and adverse weather. It will be operationally tailorable to regional conflicts and provide the battle commander with timely, detailed reconnaissance information and an unprecedented level of lethality. The Comanche system supports the Future transition path of the Transformation Campaign Plan (TCP).

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Continue Mission Equipment Package (MEP) development	278845	290149	442657
Continue Engineering, Manufacturing, and Development (EMD)	356659	423626	430132
Continue component development testing and prototype flight test program	112479	173734	196013
Continue material procurement/manufacture of 9 EMD aircraft (test articles), 4 development test, 4 Initial Training Capability (ITC) aircraft, 1 Training/Live Fire Test & Evaluation (LFTE) aircraft	64068	107800	108678
Small Business Innovative Research/Small Business Technology Transfer Programs.	0	29577	0
Totals	812051	1024886	1177480

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604223A - COMANCHE				PROJECT 327	
<u>B. Other Program Funding Summary</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
A08300 Comanche	8000	0	11967	289139	964681	1529131	2030478	Continuing	Continuing
<p><u>C. Acquisition Strategy:</u>Continue work with current contractor leading to production.</p>									

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT 327		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . DAAH23-00-C-A001	C/CPAF	Boeing Sikorsky, PA	1346935	751193	1-2Q	955110	1-2Q	1091020	1-2Q	Continue	Continue	Continue
b . DAAJ09-91-C-A004	C/CPIF/AF	Boeing Sikorsky, PA	2927066	0		0		0		0	2927066	2927066
c . DAAJ09-87-D-A022	C/FFP	Veridian, VA	75041	8347	1-2Q	7706	1-2Q	8323	1-2Q	Continue	Continue	Continue
d . Other Contracts	C/FFP	Multiple	12683	7177	1-3Q	2800	1-3Q	5000	1-3Q	Continue	Continue	Continue
e . Completed Contracts			370288	0		0		0		0	370288	370288
f . Gov't Agencies	MIPR	Multiple	4491	333	1-4Q	0	1-4Q	5000	1-4Q	Continue	Continue	Continue
Subtotal:			4736504	767050		965616		1109343		Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT 327		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Other Contracts	C/FFP	Multiple	55771	7991	1-3Q	12302	1-3Q	13787	1-3Q	Continue	Continue	Continue
b . Completed Contracts	C/FFP		15556	0		0		0		0	15556	15556
c . Gov't Agencies	MIPR	Multiple	143580	13147	1-4Q	17864	1-4Q	20793	1-4Q	Continue	Continue	Continue
Subtotal:			214907	21138		30166		34580		Continue	Continue	Continue
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Government Agencies	MIPR	Multiple	31504	6425	1-4Q	9760	1-4Q	11305	1-4Q	Continue	Continue	Continue
Subtotal:			31504	6425		9760		11305		Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS(R3)									February 2004				
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT			
5 - System Development and Demonstration					0604223A - COMANCHE					327			
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . Other Contracts	C/FFP	Multiple	10358	3665	1-3Q	3369	1-3Q	4137	1-3Q	Continue	Continue	Continue	
b . PMO/Gov't Agencies	MIPR	Multiple	34305	13773	1-4Q	15975	1-4Q	18115	1-4Q	Continue	Continue	Continue	
Subtotal:			44663	17438		19344		22252		Continue	Continue	Continue	
Project Total Cost:			5027578	812051		1024886		1177480		Continue	Continue	Continue	

Schedule Profile (R4 Exhibit)																								February 2004																			
BUDGET ACTIVITY 5 - System Development and Demonstration												PE NUMBER AND TITLE 0604223A - COMANCHE																				PROJECT 327											
Event Name												FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10			
												1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Development Engineering & Flight Test																																											
Developmental Test ACFT Deliveries																																											
Operational Test ACFT Deliveries																																											

Schedule Detail (R4a Exhibit)						February 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604223A - COMANCHE			PROJECT 327	
<u>Schedule Detail</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Continue MEP development (ref Development Eng & Flt Test)	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Continue EMD Program engineering development (ref Development Eng & Flt Test)	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Continue development testing and prototype flight test program (ref Development Eng & Flt Test)	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Begin/Continue material procurement/manufacture of EMD aircraft	1-4Q	1-4Q	1-4Q	1-4Q			
Delivery of EMD aircraft (ref DT/OT ACFT Deliveries)			2-4Q	1-4Q			
Conduct development testing and flight test of acft #3 thru 6			3-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Conduct flight test/training of aircraft #7 thru 11				1-4Q	1-4Q	1-4Q	1-3Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004					
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604223A - COMANCHE			PROJECT C72					
COST (In Thousands)				FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
C72 T-800 ENGINE ED (LH)				53424	41912	43119	31346	22161	16289	13916	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: This project includes tasks to develop, design, fabricate, test, and qualify a turbo shaft engine of the latest technology. The engine is to be furnished as Government Furnished Equipment by the US Army to the Comanche weapon's system integrator. This engine is the only propulsion source being considered for the Comanche program. The requested budget provides for the continued development, testing, qualification and support of the T800 engine variants being used or planned for in the Comanche program. The engine has been increased by 100 horsepower, over that which was provided by the T800-LHT-801. T800-LHT-802 engine with engine block upgrades is scheduled for Aircraft Block II EMD integration activities and all subsequent Comanche production aircraft. The Comanche system supports the Future transition path of the Transformation Campaign Plan (TCP).</p>												
<u>Accomplishments/Planned Program</u>									FY 2003	FY 2004	FY 2005	
Continue engine contractor development/qualification testing and air vehicle support.									41192	25439	32832	
Continue EMD program engine manufacturing. Up to thirty-five engines (test articles) to be delivered in FY 04 thru FY 06 for Comanche EMD aircraft.									12232	15255	10287	
Small Business Innovative Research/Small Business Technology Transfer Programs.									0	1218	0	
Totals									53424	41912	43119	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							February 2004		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604223A - COMANCHE				PROJECT C72	
<u>B. Other Program Funding Summary</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
A08300 Comanche	8000	0	11967	289139	964681	1529131	2030478	Continuing	Continuing
<p><u>C. Acquisition Strategy:</u>Continue work with current contractor leading to military qualification, production, and supporting commercialization.</p>									

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT C72		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . DAAJ09-92-C-0453	C/CPFF	LHTEC, Indiana	349353	0		0		0		0	349353	349353
b . DAAH23-02-C-0122	C/CPFF	LHTEC, Indiana	35284	52308	1-2Q	41012	1-2Q	36899	1-2Q	Continue	Continue	Continue
c . Other Contract	C/CPFF	LHTEC, Indiana	0	0		774	2-3Q	6048	1-2Q	Continue	Continue	Continue
d . DAAJ09-85-C-B017	C/CPFF	LHTEC, Indiana	276821	0		0		0		0	276821	276821
e . DAAJ09-93-C-0518	C/CPFF	LHTEC, Indiana	460	0		0		0		0	460	460
f . DAAJ09-85-C-B019	C/FFP	AVCO/PW, Connecticut	128526	0		0		0		0	128526	128526
g . Gov't Agencies	MIPR	Multiple	14434	114	1-3Q	126	1-3Q	172	1-3Q	Continue	Continue	Continue
Subtotal:			804878	52422		41912		43119		Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT C72		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PATS contracts	C/FFP		96	0		0		0		0	96	96
b . Rail	C/FFP		2806	0		0		0		0	2806	2806
c . Other Contracts	C/FFP	Multiple	608	123	1-2Q	0		0		0	731	1081
Subtotal:			3510	123		0		0		0	3633	3983
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Government Agencies	MIPR	Multiple	26603	879	1-3Q	0		0		0	27482	27482
b . Contracts	C/CPFF		2	0		0		0		0	2	2
Subtotal:			26605	879		0		0		0	27484	27484

ARMY RDT&E COST ANALYSIS(R3)										February 2004		
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604223A - COMANCHE					PROJECT C72		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Remarks: None												
Project Total Cost:			834993	53424		41912		43119		Continue	Continue	Continue

Schedule Profile (R4 Exhibit)	February 2004
--------------------------------------	----------------------

February 2004

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE 0604223A - COMANCHE	PROJECT C72
---	-----------------------

C72

[illegible]

Schedule Detail (R4a Exhibit)						February 2004	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604223A - COMANCHE			PROJECT C72	
<u>Schedule Detail</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue Development/Qualification of the T800-LHT-802 Engine	1-4Q	1Q					
Begin Development/Qualification of the T800-LHT-802A Engine	1-4Q	1-4Q	1-4Q	1-4Q			
Continue Air Vehicle Support	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
EMD/Initial Training Capability Engine Deliveries		2-4Q	1-4Q	1-4Q			