PE TITLE: Ranch Hand II Epidemiology Study

									DATE		
Exhibit R-2, RDT&E Budget Item Justification									DATE	February 2	2005
BUDGET ACTIVITY 06 RDT&E Management Support						BER AND TITLE 6F Ranch H		miology Stu	ıdy		
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	4.649	4.771	4.188	0.000	0.000	0.000	0.000	0.000	0.000	39.142
2767	Ranch Hand II Epidemiology Study	4.649	4.771	4.188	0.000	0.000	0.000	0.000	0.000	0.000	39.142

(U) A. Mission Description and Budget Item Justification

As a result of Presidential direction, PE 0605306F was established to conduct a 25-year epidemiology investigation of approximately 1,200 Air Force personnel who were involved with aerial spraying of herbicides in Vietnam from 1962 to 1971 (Operation Ranch Hand). The objective of this investigation is to determine whether long-term health effects exist and can be attributed to occupational exposure to phenoxy herbicides and their associated dioxins.

This project involves a 25-year study, initiated in 1980, that compares United States Air Force (USAF) Ranch Hand personnel to a control group of USAF crew members and support personnel who were not exposed to herbicides while serving in Southeast Asia. Approximately 20,000 individuals (exposed personnel group plus control group) are participating in the annual mortality study, with approximately 2,200 (exposed personnel group plus control group) of these participating in the detailed morbidity study during each physical examination cycle. The detailed physical examination cycle includes follow-up health examinations at the 3-, 5-, 10-, 15-, and 20-year time periods. The study includes examination of the possible occurrence of birth defects in children as determined from children's medical records and family medical histories. The Congressionally-established Ranch Hand Advisory Committee has directed that all study findings be reported to the scientific community as peer-reviewed journal articles. Note: This program is comprised of six cycles and each cycle consists of participant physical examinations followed by data analysis and report generation. The largest expenditure of funds occured during the physical exam cycles such as in 1997-1998 and 2002-2003. The program is in the final cycle and is scheduled to terminate in FY 2006.

This program is in Budget Activity 6, Management and Support, since it includes research and development efforts directed towards support of installations or operations required for general research and development use.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007
(U) Previous President's Budget	4.692	4.813	4.167	0.000
(U) Current PBR/President's Budget	4.649	4.771	4.188	0.000
(U) Total Adjustments	-0.043	-0.042		
(U) Congressional Program Reductions	-0.040	-0.042		
Congressional Rescissions				
Congressional Increases				
Reprogrammings	-0.003			
SBIR/STTR Transfer				
(II) Significant Program Changes				

(U) Significant Program Changes:

None.

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Exhibit R-2 (PE 0605306F

UNCLASSIFIED

	Exhibit R-2a, RDT&E Project Justification DATE February 2005										
06 RDT&E Management Support				060530	PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiology Study			PROJECT NUMBER AND TITLE 2767 Ranch Hand II Epidemiology Study			
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
2767	Ranch Hand II Epidemiology Study		4.771	4.188	0.000		0.000		†	· ·	39.142
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

As a result of Presidential direction, PE 0605306F was established to conduct a 25-year epidemiology investigation of approximately 1,200 Air Force personnel who were involved with aerial spraying of herbicides in Vietnam from 1962 to 1971 (Operation Ranch Hand). The objective of this investigation is to determine whether long-term health effects exist and can be attributed to occupational exposure to phenoxy herbicides and their associated dioxins.

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This program is in Budget Activity 6, Management and Support, since it includes research and development efforts directed towards support of installations or operations required for general research and development use.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007
(U)	Complete the sixth and final cycle of physical examinations, questionnaires, and participant database.	2.337	1.632	0.899	0.000
	Complete data processing and statistical analysis of examination data. Document all analyses and				
	findings and initiate work on the 3,000 page Sixth Cycle Final Report. Conduct analyses as directed by				
	Congressionally-established Ranch Hand II Advisory Committee based on morbidity data trends and				
	findings. Complete work on comprehensive longitudinal report in FY06.				
(U)	Continue to process and document examination data and to verify the physical examination database.	1.181	1.554	1.677	0.000
	Continue new medical records coding and verify existing medical records coding. Perform the annual				
	mortality analysis of approximately 1,200 Ranch Hand personnel and 19,000 comparison personnel.				
	Conduct data analysis for articles to be submitted to peer-reviewed journals as directed. Process and				
	document Cycle 6 examination data to include updating of the participant database. Complete				
	collaborative studies with other agencies/universities supporting scientific effort; complete morbidity and				
	mortality mathematical modeling. Prepare for project termination and turnover of archives/biological				
Pro	oject 2767 R-1 Shopping List - Item No. 105-2 of 105-3			Exhibit R-2a (F	PE 0605306F)

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	Exhibit R-2a, RDT&E P	February 2005									
	GET ACTIVITY RDT&E Management Support	06	NUMBER AND TIT 05306F Ranch idemiology St	Hand II		PROJECT NUMBER AND TITLE 2767 Ranch Hand II Epidemiology Study					
	samples to designated agencies. Terminate project in FY06.										
(U)	Continue to process and document examination data. Continue archive data and digitize and archive the Cycle 6 data as received. Conduct moverification of examination database and Cycles 1 through 6 coding. Support. Conduct data analysis for journals and reports to Congress. Hand II LAN. Prepare for and complete transition or turnover of archive agencies. Terminate project in FY06.	nedical records codi Perform annual mon Continue maintenan	ng and rtality analysis nce of Ranch	1.131	1.585	5 1.612	0.000				
(U)						4.188	0.000				
(U)	(U) C. Other Program Funding Summary (\$ in Millions)										
(U)	FY 2004 FY 2005 FY 2 Actual Estimate Estim Not Applicable.		FY 2008 Estimate	FY 2009 FY 2 Estimate Estin		<u>Cost to</u>	Total Cost				

(U) Not Applicable.

(U) D. Acquisition Strategy

Not Applicable.

Project 2767

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Exhibit R-2a (PE 0605306F)