PE NUMBER: 0605306F

PE TITLE: Ranch Hand II Epidemiology Study

TE TITLE. Nahor Fland in Epidemiology Glady										
	Exhibit R-2, RDT&E Budget Item Justification								February	2004
BUDGE	BUDGET ACTIVITY PE NUMBER AND TITLE									
06 RDT&E Management Support					0605306F Ranch Hand II Epidemiology Study					
	Cost (© in Millians)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total
Cost (\$ in Millions)		Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	10.074	4.652	4.813	4.167	0.000	0.000	0.000	0.000	0.000
2767	Ranch Hand II Epidemiology Study	10.074	4.652	4.813	4.167	0.000	0.000	0.000	0.000	0.000

(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.

R-1 Shopping List - Item No. 104-1 of 104-4

UNCLASSIFIED

	UNCLASSIFIED								
	Exhibit R-2, RDT	&E Budget Item Justification	DATE	February 2004					
	GET ACTIVITY RDT&E Management Support	PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiolo	ogy Study	-					
(U)	B. Program Change Summary (\$ in Millions)								
		<u>FY 2003</u>	<u>FY 2</u>	<u>004</u> <u>FY 2005</u>					
(U)	Previous President's Budget	11.029	4.	692					
(U)	Current PBR/President's Budget	10.074	4.	652 4.813					
(U)	Total Adjustments	-0.955	-0.	040					
(U)	Congressional Program Reductions	-0.141	-0.	040					
	Congressional Rescissions								
	Congressional Increases								
	Reprogrammings	-0.440							
	SBIR/STTR Transfer	-0.374							
(U)	Significant Program Changes:								
	None.								
		R-1 Shopping List - Item No. 104-2 of 104-4		Exhibit R-2 (PE 0605306F)					

UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification								DATE	DATE February 2004		
06 RDT&E Management Support			PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiology Study			PROJECT NUMBER AND TITLE 2767 Ranch Hand II Epidemiology Study					
	Cost (\$ in Millions)	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	
2767	Ranch Hand II Epidemiology Study	10.074	4.652	4.813	4.167	0.000	0.000	0.000	0.000	0.000	
	Quantity of RDT&E Articles	0	0	C	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.

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. Accomplishments/Planned Program (\$ in Millions)	FY 2003	FY 2004	FY 2005
(U)	Complete the sixth and final cycle of physical examinations, questionnaires, and participant database. Complete data	7.701	2.338	1.674
	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.			
(U)	Continue to process and document examination data and to verify the physical examination database. Continue new	1.265	1.182	1.554
	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.			
(U)	Continue to process and document examination data. Continue archiving previous cycles' examination data and digitiz	1.108	1.132	1.585
Pro	pject 2767 R-1 Shopping List - Item No. 104-3 of 104-4		Exhibit R-2a	(PE 0605306F)

UNCLASSIFIED

				UNCLA	ASSIFIED					
		Exhibit R-2	2a, RDT&E	Project Jus	tification			DATE	February	2004
	GET ACTIVITY RDT&E Management Support		PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiology Study				PROJECT NUME 2767 Ranch I Study			
(U)	and archive the Cycle 6 data as rec Cycles 1 through 6 coding. Perfor Congress. Continue maintenance Total Cost	rm annual mortality	y analysis suppo				ts	10.074	4.652	4.813
(U)	C. Other Program Funding Sun	nmary (\$ in Millio	ons)							
(II)	-	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
(U)	Not Applicable. D. Acquisition Strategy Not Applicable.									
Pro	oject 2767		R-	1 Shopping List - I	tem No. 104-4 of 1	104-4	1		Exhibit R-2a (PE 0605306F)