UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							DATE	DATE June 2001			
BUDGET ACTIVITY 06 - Management and Support			PE NUMBER AND TITLE 0605306F Ranch Hand II Epidemiology Study								PROJECT 2767
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2767	Ranch Hand II Epidemiology Study	4,183	4,315	10,952	11,338	4,837	4,966	4,330	0	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note: FY 2003-FY 2007 budget numbers do not reflect the DoD strategy review results.

(U) A. Mission Description

As a result of Presidential direction, PE 0605306F was established to conduct a 20-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 20-year study, which was initiated in 1982, 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 occurs during the physical exam years of 1982-1983, 1985-1986, 1987-1988, 1992-1993, 1997-1998, and 2002-2003. The program is currently at the end of Cycle 5 and in the preparation phase for Cycle 6, therefore, significantly more funds will be required in FY 2002 and FY 2003 than were required in FY 2000 and FY 2001.

(U) FY 2000 (\$ in Thousands)

(U)	\$1,033	Completed statistical analysis of examination data. Documented all analyses and findings in 4,000 page, fifth cycle final report. Conducted
		analyses as directed by the Congressionally-established Ranch Hand Advisory Committee. Analyses were based on current morbidity data trends
		and findings.
(U)	\$386	Conducted other agency/university studies supporting scientific effort. Started Center for Disease Control study to test for the presence of other
		forms of dioxin than found in Agent Orange. Conducted morbidity and mortality mathematical modeling. Conducted dioxin half-life and serum
		dioxin analyses.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) DATE June 2001									
	GET ACTIVITY - Managemen	t and Support	PE NUMBER AND TITLE 0605306F Ranch Hand II Epiden	project niology Study 2767					
(U)	A. Mission Desc	ription Continued							
(U)	FY 2000 (\$ in Th	ousands) Continued							
(U)	\$2,762		ation data to include updating of the participant database. Conductionately 1,200 Ranch Hand personnel and 19,000 comparison personnels as directed.	_					
(U)	\$4,183	Total							
(U)	FY 2001 (\$ in Th	ousands)							
(U)	\$1,095	Conducted analyses as directed by the Congressionally-established Ranch Hand Advisory Committee. Conducted process review prior to final examination cycle to determine potential participation rates, requirements for in-house or regional examination sites, and statistical, schedule, and cost implications of the aging study population.							
(U)	\$567	Conducted other agency/university studies supporting scientific effort. Completed Center for Disease Control study to test for the presence of other forms of dioxin than found in Agent Orange. Completed morbidity and mathematical modeling. Completed dioxin half-life and serum dioxin analyses. Started semen DNA study.							
(U)	\$2,653		ation data to include updating of the participant database. Conduction imately 1,200 Ranch Hand personnel and 19,000 comparison personnels as directed.						
(U)	\$4,315	Total							
(U)	FY 2002 (\$ in Th	nousands)							
(U)	\$7,800	· · · · · · · · · · · · · · · · · · ·	physical examinations, questionnaires, and participant database.						
(U)	\$1,694	verify the coding of existing medica comparison personnel. Conduct dat	examination data to include continuing to verify the physical examination. Perform the annual mortality analysis of approximately analysis for articles to be submitted to peer-reviewed journals as g of the participant database. Continue to conduct medical record	y 1,200 Ranch Hand personnel and 19,000 s directed. Process and document Cycle 6					
(U)	\$1,458		data. Continue archiving previous cycles' examination data and d coding and verification of examination database and Cycles 1 thro journals and reports.	-					
(U)	\$10,952	Total							
P	roject 2767		Page 2 of 3 Pages	Exhibit R-2 (PE 0605306F)					

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	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						DATE June 2001		
	GET ACTIVITY - Management and Support	PE NUMBER 0605306		and II Epid	emiology S	tudy	PROJECT 2767		
(U)	B. Budget Activity Justification This program is in Budget Activity 6, Management and Support, since it is operations required for general research and development use.	ncludes research	and developme	ent efforts direc	ted towards supp	ort of installa	tions or		
(U)	C. Program Change Summary (\$ in Thousands)								
(U) (U) (U)	Previous President's Budget (FY 2001 PBR) Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions		FY 2000 4,408 4,510	FY 2001 4,356 4,356	11,31		<u>Total Cost</u> TBD		
	b. Small Business Innovative Researchc. Omnibus or Other Above Threshold Reprogramd. Below Threshold Reprogram		-10 -100 -170						
	e. Rescissions		-47	-41					
(U) (U)	Adjustments to Budget Years Since FY 2001 PBR Current Budget Submit/FY 2002 PBR		4,183	4,315	-36 10,95		TBD		
(U)	Significant Program Changes: None. The increase in FY 2002 and FY 2003 funding is due to the physic funding in this program.	al exams schedul	ed in these yea	rs. The increas	se is a normal par	rt of the cyclic	cal nature of		
	Actual Estimate Estimate Es	2003 FY 200 timate Estima	_		FY 2007 Estimate	Cost to Complete	<u>Total Cost</u>		
	Not Applicable. E. Acquisition Strategy Not Applicable.								
(U)	F. Schedule Profile	<u>FY 2000</u> 2 3	4	FY 20 1 2	001 3 4	FY 1 2	<u>7 2002</u> 3 4		
(U)	Not Applicable.								
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