	00-ALC	TECHN	IOLOGY	REQUI	REMENT	S WORI	KSHEET	
TECH RE	QUIREMEN	T TITLE:						
DATE:	08/09/2005		Remote Vis	ual Assessr	ment (RVA)			
			I. C		IFO			
NAME:	Dennis V	uong		E-MA	IL: Denr	nis.Vuong@	hill.af.mil	
OFFICE:	526 GSSG	/GMGV		PHO	NE: (801)	777-1690		
			II. WE	APON SYS	rem Id			
	F ALL AFFE SYSTEMS:	CTED	The Improv	ed Minutem	an Physical	Security Sys	stem (IMPSS	5)
1	TED MAJCC		that apply)	0	1		Ĩ	-
ACC	AETC	AFMC	AMC	AFSC	AFSOC	AFRC	USAFE	PACAF
		Х						
			III. DEFIC	IENCY DES	CRIPTION			
1. WHAT I	S THE DEFI	CIENCY? (\	what happen	ns, when doe	es it occur, lo	ocation/part	#, etc.)	
tailor t detern comm to the	IMPSS does he response nine a real in unication infr site, checkin triggers alarr	level to the trusion alarr rastructure in g for cause	threat level. m. Missile Si n place. Sec of the alarm	Without vis los are geog curity Respo . Sometimes	ual assessm graphically w inse Team (S s, it turns out	ent capabilit videly separa SRT) might t to be a fals	ties, it's diffic ated, with no take several	cult to available hours get
2. HOW L	ARGE IS TH	E DEFICIEN	NCY? (how r	many platfor	ms does it a	ffect, how m	any of each	platform)
Missile	nly affected p e Silos (Laun inner/outer z	ch Facilities). IMPSS is					
	S THE QUA stem downtin		PACT OF T	HE DEFICIE	NCY? (dolla	ar cost, man	-hours, depo	ot flow,
	ours : False e go through				s. Every fals	e alarm me	ans that all t	he security
4. WHAT (classificati	OTHER FAC ons, etc.)	TORS EXIS	T? (technolo	ogy issues,	government	regulations,	security,	
None								
	MISSION DC				Operation Ira	qi Freedom	(OIF), Coml	bating
Secur	ity of the Mir	nuteman We	apon Syster	n.				

IV. SOLUTION & COST

1. PROPOSED SOLUTION? (do you have one and if yes, what is it, to include estimate ROI)

Remote Visual Assessment (RVA) will provide a **new capability to visually observe** topside Launch Facility (LF) activity using cameras and a variety of sensors. New advances in software-based analysis of video, fused with data from other sensors in an environment, enable security officers to automate surveillance over an entire area, track potential threats and issue alerts in **real-time**. During an intrusion, RVA will work in conjunction with the existing nuclear-certified intrusion detection system (IMPSS) and new detection capability (VMD) to automatically report assessment information to monitoring location(s) without operator action. The system will consist of surveillance, detection, reporting, display, and data transmission elements. Data transmitted to the operator will enable a tailored response required to neutralize threats. The current IMPSS system provides only an alarm that something moved. RVA will provide images to Security Forces to assess alarms and tailor responses.

2. HOW LONG WILL IT TAKE TO IMPLEMENT? (how many years)

Approximately 7 years.

3. SCHEDULE (what is the timeline for the process)

FY06: System Design & Development (SDD) (Assuming the RVA funding is available in FY06)

FY08: Initial Operation Capability (IOC) – 2 years

FY13: Full Operation Capability (FOC) – 5 years.

4. DELIVERABLES (what needs to be established/researched/developed

System Design & Development (SDD)

- Two production prototype units will be installed and tested at HILL AFB.

Initial Operation Capability (IOC)

- Install production units at 20 LFs and 2 MAFs.

Full Operation Capability (FOC)

- Install full 565 production units at all three wings, training and test facilities. (500 LF's, 50 MAF's, 3 MSC's, 12 other training and test facilities).

5. IMPLEMENTATION ISSUES (any larger issues that need authorization)

None

6. WHAT FUNDING WOULD BE REQUIRED? (COTS, SBIR, ATD, etc.)

Commercial-Off-The-Shelf (COTS) architecture will support scalable, affordable, sustainable and extensible growth for future systems and technology expansion. The RVA solution will maximize the use of Commercial off the Shelf (COTS) technology to simplify integration and reduce both long and short-term costs.

7. WHAT SOURCES OF FUNDING ARE AVAILABLE? (if applicable)

Currently, there is no funding available for RVA.