	Approved For Releas		(0007,000 10001-3
*	R & D C	CATALOG FORM	4 January 1966
, C	GEMS Development	which will permit an object assessment of the quality photography.	further develop a system ctive and meaningful of operational reconnaissance
25X1A		- LOCATION OF C	25X1A
	5. class of contractor Manufacturer	6. TYPE OF CONTRACT CPFF	9. BUDGET PROJECT NO.
	7. FUNDS FY 19 \$	8. REQUISITION NO.	NP-IA-7
25X1A	FY 1966	10. EFFECTIVE CONTRACT DATE (Begin - end)	11. SECURITY CLASS. A.A Confidential T Unclassified W Unclassified
	FY 1967 12. RESPONSIBLE DIRECTORATE/OFFICE	PROJECT OFFICER TELEPHONE EXTENSION	W Officesbiller
25X1A	DDI/NPIC/P&DS		
	Applied Research 15. CATEGORIES OF EFFORT MAJOR CATEGORY	Declass Review by N	IMA/DOD UB-CATEGORIES
		s contract/improvement over current sy	
	GEMS Technique; (c) GEM (d) Design and specific	as set specifications; (d) Alexandrations for GEMS Viewer with a summary report. (Continued)	
25X1A	Image Quality Evaluation Committee; Photo working panel 25X17		
	18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) Image quality evaluation is required for every mission. However, to date, the		
	development of an obje	his project is an attempt to	develop a workable standard trix of GEMS (Graded Estimated
		hese GEMS are a series of sim mage quality parameters. The	e probable variables to be (Continued)
	Measuring Samples). T carefully controlled i	hese GEMS are a series of simmage quality parameters. The	DI ODGDIC TOLIC

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16.

2. A GEMS Matrix (1000-1500 GEMS) with appropriate documentation.

18.

used are haze and/or exposure, modulation transfer function, granularity, scale factor and scene content. There probably will be between 1000-1500 GEMS in a set. It is anticipated that this technique, if successful, could be developed into a semi-automated image evaluation procedure.