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ORD-077-83

25 January 1983

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MEMORANDUM FOR	;	Deputy Di	rector of S	cience	& Technology	
FROM						25 X 1
1 11011	•	Chief, Pro	ocessing and	d Analy	sis	
		Technol	gy Group			
·		Office of	Research a	nd Deve	lopment	
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SUBJECT	:	CRAY Super	r Computers			
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SUBJECT: CRAY Super Computers

modelling computations; alternatively, a more complete exploration of any "option-space" could be thus undertaken. The DDI has also proclaimed the virtues of a CRAY and ODP tried to determine the Agency's needs. , ODP raised two issues above and beyond the cost: (i) what additional skills would they have to acquire for such an unfamiliar beast? and, (ii) what software modifications are required to have computer programs utilize the CRAY potential? There have been several panels and working groups within the Agency that have been examining the problems dealing with the Agency's computational requirements for the future. A recommendation from one of the panels has been that a scientific computing environment (e.g., CRAY, IBM 3838, etc.) will be required to satisfy the Agency's needs within this decade.

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6. The following types of model formulations and their related intelligence application will be used in this benchmark study:

simulation models - space decision analysis

· reservoir analysis

hydrologic analysis

linear programming, - refinery analysis

network models - transportation analysis

computer graphics - orbital graphics; maps

econometric models - Soviet and Common Market models.

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7. An ORD research report will be prepared at the completion of the project. It is anticipated that the report will be completed in the last quarter of 1983. The report will summarize the performance evaluation tests and analyze some of the potential benefits and problems.

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/s/	

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OPTIONAL FORM 41 (Rev. 7-76)

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