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CORNING GLASS WORKS DATE	Q
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ATTN- DR MORTON SHAW	
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DX = 423	
SUBJECT- FIRM PROPOSAL - REAR PROJECTION GLASS SCREEN	0
REFERENCE TELEPHONE CONVERSATION BEWTEEN ST	AT ²
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1. CONSISTENT WITH THE REFERENCE TELEPHONE CONVERSATION.	0
THE BOEING COMPANY, SPACECRAFT BRANCH, IS PLEASED TO SUBMIT	0
THIS FIRM PROPOSAL FOR PERFORMANCE OF THE SUBJECT STUDY.	
2. BOEING'S TECHNICAL PLAN FOR ACCOMPLISHING THE SUBJECT	Q
STUDY 125°%5 FOCE 045: Declassified in Part - Sanitized Copy Approved for Release 2012/11/08 : CIA-RDP79B00873A00200001004	10-8

OBJECTIVE Declassified in Part - Sanitized Copy Approved for Release 2012/11/08: CIA-RDP79B00873A002000010040-8
THE OBJECTIVES OF THIS STUDY ARE TO EVALUATE EIGHT DISTRIBUTION 0 EXPERIMENTAL GLASS REAR PROJECTION SCREEKS. A NINTH SCREEN, CURRENTLY BEING MANUFACTURED UNDER THE NAME (3 "PLOACOAT". WILL ALSO BE INCLUDED. THE CONTRACTOR WILL (2) evaluate the screens in terms of their ability to dis-PLAY OPERATIONAL INAGERY AND RESOLUTION TARGETS. THE 4 results of these evaluations will be related to physical (3 PARAMETERS NORMALLY USED TO DESCRIBE REAR PROJECTION NO REPLY REQUIRED PLEASE SCREENS. REPLY BY (3) EXPERIMENTAL PROCEDURE B. 4 TWO STUDIES WILL BE CONDUCTED, FOLLOWED BY A COMPARISON of the results obtained in each study? 0 STUDY I - JUDGED SUITABILITY FOR DISPLAYING (3 THREE INTERPRETER-SUBJECTS WILL JUDGE IMAGERY. WHICH SCREENS PROVIDE THE BEST DISPLAY OF OPERA-4 TIONAL IMAGERY. (FOLLOWING A PAIRED-COMPARISON (3 TECHNIQUE, SCREENS WILL BE PRESENTED TO THE SUB-JECTS TWO AT A TIME. A TOTAL OF 144 JUDGMENTS WILL 3 BE MADE BY EACH SUBJECT. FOUR FOR EACH OF THE 36 0 POSSIBLE SCREEN PAIRINGS. TWO IMAGERY CONTRAST Lévels will be used. If supplied by the sponsor. 0 (3 THE PROPORTION OF TIME EACH SCREEN WAS JUDGED AS THE MOST USEFUL WILL BE USED TO INDICATE THE RELA-0 TIVE SUITABILITY OF EACH SCREEN. THESE PROPORTIONS 0 WILL BE CONVERTED TO Z SCORES FOR USE IN A RE-Gression analysis to determine which screen para-0 meters contributed most to judged screen suitabil-ITY. 0 STUDY II - JUDGED RESOLUTION.

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Three interpreter subjects will be used to obtain

STANDARD USAF TRI-BAR TARGETS DISPLAYED ON EACH Declassified in Part - Sanitized Copy Approved for Release 2012/11/08 : CIA-RDP79B00873A002000010040-8 BCREEN AND INDICATE THE SMALLEST SET OF BARS THAT CAN BE RESOLVED. SEVERAL DIFFERENT TARGET CONTRAST LEVELS WILL BE VIEWED AT DIFFERENT ANGLES AT LEAST THREE TIMES BY EACH SUBJECT ON EACH SCREEN. ٨ THE EFFECT OF CONTRAST LEVEL. VIEWING ANGLE AND 0 SCREEN TYPE WILL BE ANALYZED. RESOLUTION SCORES FOR EACH SCREEN WILL BE USED IN A REGRESSION REQUIRED Analysis to determine which screen parameters con-PLEASE TRIBUTED MOST TO JUDGED RESOLUTION. (3) INTERSTUDY COMPARISONS. to determine whether the resolution target tech-8 NIQUE YIELDS RESULTS EQUIVALENT TO THE MORE COMPLEX TECHNIQUE USED IN STUDY I THE RESULTS OBTAINED 8 WITH THE TWO TECHNIQUES WILL BE COMPARED. 3 VALUES OBTAINED IN STUDY I WILL BE CORRELATED WITH 3 RESOLUTION SCORES OBTAINED IN STUDY II. AND THE RESULTS OF THE REGRESSION ANALYSIS FROM EACH STUDY 8 WILL BE COMPARED TO DETERMINE IF THE SAME SCHEEN 3 PARAMÈTERS WERE IDENTIFIED AS CONTRIBUTING TO OBTAINED SCORES. 8 DOCUMENTATION 8 TEST PLAN A TEST PLAN DESCRIBING THE TEST PROCEDURE IN DETAIL WILL BE PREPARED AND PRESENTED TO CORNING AND ITS 3 CUSTOMER ON OR ABOUT MAY 27, 1969 AT THE CUSTOM-ER'S FACILITY. 3 2. PRELIMINARY REPORT 3 A LETTER REPORT CONTAINING A SUMMARY OF QUALITY Judgments by Subjects from Study I and Average 0 RESOLUTION SCORES FROM STUDY 2 WILL BE SUBMITTED US 4004 6000 MPEV 1869 FR THAN HILV IS / IDEA. Declassified in Part - Sanitized Copy Approved for Release 2012/11/08: CIA-RDP79B00873A002000010040-8

FINAL REPORT Declassified in Part - Sanitized Copy Approved for Release 2012/11/08 : CIA-RDP79B00873A002000010040-8 3 ANALYTICAL TECHNIQUES, RESULTS AND RECOMMENDATIONS WILL BE SUBMITTED NO LATER THAN AUGUST 15. 1969. 0 CUSTOMER SUPPORT REQUIREMENTS D. 3 THE FOLLOWING SUPPORT WILL BE PROVIDED BY THE CUSTOMER AT LEAST WINE FRAMES OF OPERATIONAL IMAGERY 3 AT EACH CONTRAST LEVEL TO BE TESTED IN STUDY I. WITH 0 CONTRAST MEASUREMENTS. AVAILABLE FOR REVIEW ON NO REPLY REQUIRED MAY 27. 1969. PLEASE REPLY BY 0 COPIES OF USAF RESOLUTION TRI-BAR TARGETS AT 0 THE FIVE CONTRAST LEVELS TO BE USED IN STUDY II. AVAILABLE FOR REVIEW ON MAY 27 19692 3 SINGLE AND DUAL SCREEN HOLDERS AVAILABLE BY 3 MAY 27. 1969. USE OF NRI DUAL SCREEN MEASURING PROJECTOR FROM 3 JUNE 2 TO JUNE 20. 1969 THREE PHOTO INTERPRETERS TO SERVE AS SUBJECTS 0 IN STUDY & FOR 32 HOURS EACH BETWEEN JUNE 4 AND 0 JUNE II (TOTAL OF 96 MAN HOURS). 3 THREE INDIVIDUALS FAMILIAR WITH FILM QUALITY Evaluation to serve as subjects in study ii for 14 0 hours each between June 13 and June 20, 1969 (Total 0 OF AZ MAN HOURS) POLACOAT REAR-PROJECTION SCREEN. WITH PARA-0 METER DATA, AVAILABLE FROM JUNE 2 THROUGH JUNE 20. 0 1969. E. CORNING REQUIREMENTS THE FOLLOWING SUPPORT WILL BE PROVIDED BY CORNING: EIGHT EXPERIMENTAL REAR PROJECTION SCREENS WITH PARA-0 METER DATA, DELIVERED TO THE CUSTOMER'S FACILITY BY 27 0 MAY 1969.

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MITT SE COMMONTED HE THE CH	DIUMEN O PAULLEI COLOR HER MADEL	\$ 1	1
MENT AND HIS PERSONNEL AS S	UBJECTS. THE ANALYSIS OF DATA AND DISTRIBUTION	Reply Action	
PREPARATION OF RESULTS WILL	BE PERFORMED AT THE BOEING FACILITY		la
AT KENT, WASHINGTON, COORD	INATION MEETINGS WILL BE HELD AT		Andreas and the second
THE CUSTOMER'S FACILITY.	*	i compression de la compressio	
			lo
ALL EFFORTS WILL BE AIMED A	T THE MILESTONE DATES SPECIFICIED		
ABOVE. HOWEVER, PERFORMANC	E IS BASED ON THE ABILITY OF CORNINGPLY	and the same of th	9
AND/UR ITS CUSTOMER TO PROV	IDE CERTAIN EQUIPMENT AND PERSON NEGENEED L		
ON STIPULATED DATES. FAILU	IRE TO DO SO WILL CORSTITUTE ADEQUATE		
REASON FOR SCHEDULE AND/OR	PRICE ADJUSTMENT.		9
FOR PERFORMANCE OF THE	EFFORT DESCRIBED IN PARAGRAPH 2	٠.,	le
ABOVE, BOEING QUOTES A FIRM	FIXED PRICE OF \$19,927.		
4. THE PRICE QUOTED IN PA	HAGRAPH 3 ABOVE IS BASED UPON		0
IMMEDIATE INITIATION OF THE	PROPOSED STUDY EFFORT AND COM-		6
PLETION OF ALL REQUIRED TAS	KS IN ACCORDANCE WITH THE SCHEDULE		ľ
DATES SET FORTH IN PARAGRAP	H 2-ABOVE, ACCORDINGLY, IT IS		0
REQUESTED THAT PURCHASE ORD	ER AUTHORIZATION TO PROCEED WITH		e
THE SUBJECT STUDY BE TRANSM	ITTED TO BOEING BY RETURN		
MESSAGE BY MAY-21, 1969.			G
5. QUESTIÔNS OR COMMENTS	CONCERNING THIS PROPOSAL SHOULD BE		e le
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