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STUDY IS AS FOLLOWS:

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SCREEN 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.

THE EFFECT OF CONTRAST LEVEL, VIEWING ANGLE AND SCREEN TYPE WILL BE ANALYZED. RESOLUTION SCORES FOR EACH SCREEN WILL BE USED IN A REGRESSION ANALYSIS TO DETERMINE WHICH SCREEN PARAMETERS CONTRIBUTED MOST TO JUDGED RESOLUTION.

### 3. INTERSTUDY COMPARISONS.

TO DETERMINE WHETHER THE RESOLUTION TARGET TECHNIQUE YIELDS RESULTS EQUIVALENT TO THE MORE COMPLEX TECHNIQUE USED IN STUDY I, THE RESULTS OBTAINED WITH THE TWO TECHNIQUES WILL BE COMPARED. SCALE VALUES OBTAINED IN STUDY I WILL BE CORRELATED WITH RESOLUTION SCORES OBTAINED IN STUDY II, AND THE RESULTS OF THE REGRESSION ANALYSIS FROM EACH STUDY WILL BE COMPARED TO DETERMINE IF THE SAME SCREEN PARAMETERS WERE IDENTIFIED AS CONTRIBUTING TO OBTAINED SCORES.

## C. DOCUMENTATION

### 1. TEST PLAN

A TEST PLAN DESCRIBING THE TEST PROCEDURE IN DETAIL WILL BE PREPARED AND PRESENTED TO CORNING AND ITS CUSTOMER ON OR ABOUT MAY 27, 1969 AT THE CUSTOMER'S FACILITY.

### 2. PRELIMINARY REPORT

A LETTER REPORT CONTAINING A SUMMARY OF QUALITY JUDGMENTS BY SUBJECTS FROM STUDY I AND AVERAGE RESOLUTION SCORES FROM STUDY 2 WILL BE SUBMITTED

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A REPORT DESCRIBING THE EXPERIMENTAL PROCEDURE,

ANALYTICAL TECHNIQUES, RESULTS AND RECOMMENDATIONS

WILL BE SUBMITTED NO LATER THAN AUGUST 15, 1969.

## D. CUSTOMER SUPPORT REQUIREMENTS

THE FOLLOWING SUPPORT WILL BE PROVIDED BY THE CUSTOMER

1. AT LEAST NINE FRAMES OF OPERATIONAL IMAGERY AT EACH CONTRAST LEVEL TO BE TESTED IN STUDY I, WITH CONTRAST MEASUREMENTS, AVAILABLE FOR REVIEW ON MAY 27, 1969.

2. COPIES OF USAF RESOLUTION TRI-BAR TARGETS AT THE FIVE CONTRAST LEVELS TO BE USED IN STUDY II, AVAILABLE FOR REVIEW ON MAY 27, 1969.

3. SINGLE AND DUAL SCREEN HOLDERS AVAILABLE BY MAY 27, 1969.

4. USE OF NRI DUAL SCREEN MEASURING PROJECTOR FROM JUNE 2 TO JUNE 20, 1969.

5. THREE PHOTO INTERPRETERS TO SERVE AS SUBJECTS IN STUDY I FOR 32 HOURS EACH BETWEEN JUNE 4 AND JUNE 11 (TOTAL OF 96 MAN HOURS).

6. THREE INDIVIDUALS FAMILIAR WITH FILM QUALITY EVALUATION TO SERVE AS SUBJECTS IN STUDY II FOR 14 HOURS EACH BETWEEN JUNE 13 AND JUNE 20, 1969 (TOTAL OF 42 MAN HOURS).

7. POLACOAT REAR-PROJECTION SCREEN, WITH PARAMETER DATA, AVAILABLE FROM JUNE 2 THROUGH JUNE 20, 1969.

## E. CORNING REQUIREMENTS

THE FOLLOWING SUPPORT WILL BE PROVIDED BY CORNING:

EIGHT EXPERIMENTAL REAR PROJECTION SCREENS WITH PARAMETER DATA, DELIVERED TO THE CUSTOMER'S FACILITY BY 27 MAY 1969.

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MENT AND HIS PERSONNEL AS SUBJECTS. THE ANALYSIS OF DATA AND PREPARATION OF RESULTS WILL BE PERFORMED AT THE BOEING FACILITY AT KENT, WASHINGTON. COORDINATION MEETINGS WILL BE HELD AT THE CUSTOMER'S FACILITY.

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ALL EFFORTS WILL BE AIMED AT THE MILESTONE DATES SPECIFICIED ABOVE. HOWEVER, PERFORMANCE IS BASED ON THE ABILITY OF CORNING AND/OR ITS CUSTOMER TO PROVIDE CERTAIN EQUIPMENT AND PERSONNEL ON STIPULATED DATES. FAILURE TO DO SO WILL CONSTITUTE ADEQUATE REASON FOR SCHEDULE AND/OR PRICE ADJUSTMENT.

- 3. FOR PERFORMANCE OF THE EFFORT DESCRIBED IN PARAGRAPH 2 ABOVE, BOEING QUOTES A FIRM FIXED PRICE OF \$19,927.
- 4. THE PRICE QUOTED IN PARAGRAPH 3 ABOVE IS BASED UPON IMMEDIATE INITIATION OF THE PROPOSED STUDY EFFORT AND COMPLETION OF ALL REQUIRED TASKS IN ACCORDANCE WITH THE SCHEDULE DATES SET FORTH IN PARAGRAPH 2 ABOVE. ACCORDINGLY, IT IS REQUESTED THAT PURCHASE ORDER AUTHORIZATION TO PROCEED WITH THE SUBJECT STUDY BE TRANSMITTED TO BOEING BY RETURN MESSAGE BY MAY 21, 1969.

5. QUESTIONS OR COMMENTS CONCERNING THIS PROPOSAL SHOULD BE DIRECTED TO [REDACTED] 206) OR THE UNDERSIGNED ON [REDACTED]

THE BOEING CO [REDACTED] 2-1101 MAIL STOP 8R-05

CGW [REDACTED]

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