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 SPECTRE 697, GUARD 166, WITCH 847
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 PRIORITY SPECTRE INFO PRIORITY WHIG, WITCH.
 HANDLE VIA EYEMAN CHANNELS ONLY

HEXAGON

SPECTRE FOR GILL; WHIG FOR HUTCHISON FROM [REDACTED] DASS
 SUBJECT: TARGET DATA BASE ANALYSIS FOR THE HEX QUALITY STUDY.

1. SAFSP IS STUDYING THE CORRELATION BETWEEN NIIRS RATINGS AND VARIOUS WEATHER PARAMETERS. THE STUDY HAS TWO OBJECTIVES.
 (A) DETERMINE THE CORRELATION BETWEEN VARIOUS ATMOSPHERIC PARAMETERS AND SPECIFIC POOR NIIRS RATINGS; (B) DETERMINE THE FREQUENCY THAT NIIRS RATINGS ARE DEGRADED BY THE PARAMETERS, I.E., HOW OFTEN DOES THAT DEGRADATION PARAMETER OCCUR IN A MISSION. WE ARE USING THE 1287, 1288 OAK AND OAK SUPPLEMENT AS OUR SOURCE OF NIIRS RATINGS.
2. IN ORDER TO PROPERLY DERIVE CONCLUSIONS RELATIVE TO OBJECTIVE

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1 (B) WE NEED TO THOROUGHLY UNDERSTAND THE CHARACTERISTICS OF THE SET OF NIIRS RATINGS EMPLOYED IN THIS ANALYSIS. REQUEST NPIC ADDRESS THE FOLLOWING QUESTIONS: A. CAN WE ASSUME THE DISTRIBUTION OF NIIRS VALUES IN THE OAK AND OAK SUPPLEMENT ARE REPRESENTATIVE OF ALL THE (SUCCESSFUL) TARGETS? B. WHAT, OTHER THAN PRIORITY, DETERMINES WHETHER OR NOT A TARGET IS INCLUDED IN THE OAK SUPPLEMENT? ARE ALL TARGET ATTEMPTS OF CERTAIN PRIORITIES, INCLUDED, OR ARE ONLY THE BEST INCLUDED? IF ONLY THE BEST PHOTO, OUT OF SEVERAL POSSIBILITIES, IS INCLUDED IN THE OAK THEN THE CONCLUSIONS REACHED IN 1 (B) WILL BE BIASED. FOR EXAMPLE, IF A PARTICULAR TARGET IS PHOTOGRAPHED 4 TIMES DURING A MISSION, TWO TIMES WITH THIN CIRRUS PRESENT, ONCE WITH HAZE AND ONCE WITH IDEAL CONDITIONS AND THE OAK (OR SUPPLEMENT) ONLY RECORDS THE BEST PHOTO(S) THEN OUR ANALYSIS WILL UNDERESTIMATE THE IMPACT OF HAZE AND CIRRUS ON THE TOTAL MISSION QUALITY.

3. IF YOU DETERMINE THAT BIASES MAY EXIST IN OUR NIIRS DATA SET, REQUEST YOU INVESTIGATE A METHOD OF UNDERSTANDING/ESTIMATING THE BIAS SO THAT WE MAY QUALIFY/ADJUST OUR 1 (B) RESULTS RELATIVE TO A RANDOM SAMPLE OF ALL SUCCESSFUL HEXAGON PHOTOGRAPHY.

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SP. HY Ques Stas
 13 MAR 1975