



3 JAN 1968

MEMORANDUM FOR: Chief, Special Projects Branch, EPD
Director, National Photographic Interpretation Center
Attention: [Redacted]

SUBJECT : Mission Requirements for CORONA Mission 9030

1. As you are aware, Mission 9029 was accomplished with a mixed payload J-22 (SO-130) and J-23 (SO-132) to attempt to provide verification of the limitations and capabilities of each of these emulsions. Advanced reports indicate that weather and sun angle parameters cooperated for a change and we expect to have a realistic answer to the exact sun angle limitation for each emulsion at this critical time of the year.

2. EP/EPD has requested that EPIC provide an analysis from the customer's standpoint of the precise sun angle limitations of SO-130 vs SO-132 in relation to information content. This data should be available prior to the loading of 9030. Both types of emulsions are available and in place at VAFB. This slit width of 0.2" will be used in either case with the only potential change being in the horizon optics. With SO-132 we would use 1/30th sec. and with SO-130 1/200th sec. This is an easy "last minute" adjustment and for planning purposes we should set 1/200th sec.

3. In summary, it is planned to use J-22-7600 (SO-130) with a 0.2" slit width on the main instrument and 1/200th sec. shutter speed on the horizon optics. For planning purposes use 3° sun angle until end point can be verified. Expect snow cover to help. It is doubtful if the fine grain, slow speed SO-132 will give adequate exposure at the extreme northern latitudes, but we have time to await final customer analysis before we actually fire 9030.

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JOHN PARADOCKY

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