



6 July 1965

TO: [REDACTED]

FROM: [REDACTED]

SUBJECT: J-22 FLIGHT CERTIFICATION - VAFB

On Thursday, 7/1/65, J-22 payload system was certified for flight at VAFB. Prior to certification the performance of J-22 system was evaluated by the Flight Readiness test conducted on Tuesday and Wednesday, 6/29/65 and 6/30/65.

The Flight Readiness test consisted of approximately 15 to 20 cycles of operation per main instrument using 3404 type film. The Flight Readiness test film was subsequently processed and evaluated to show the level of instrument performance. Flight slits and filters were used; 0.175 inch slit and W-21 filter on the slave and 0.250 inch slit and W-25 filter on the master.

Examination of the processed Flight Readiness film revealed marks in both the master and slave film exhibits that indicated either an instrument tracking problem and/or faulty hand retrieval operation. Subsequent film tests revealed that marked payload was caused by faulty film handling during film retrieval from the take-up cassette.

Instrument 168 test film contained evidence of something in the camera system that blocked light from imaging in the active terrain format area. Emulsion dust from the rail scratching the film was suspect. Examination of the rails in instrument 168 revealed a large accumulation of emulsion dust on the rail edge between the binary data block and the take-up end of the format. The emulsion dust caked together and protruded into the active format area during 15 to 20 cycles of operation and interfered with light transmission onto the film. Subsequent clean up of the rails followed by instrument operation demonstrated that emulsion dust no longer accumulated on the rail as before but was carried into the take-up cassette by the normal conveyor belt action of the film.

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In Accordance with E. O. 12958

on NOV 26 1997

Following the completion of the Flight Readiness test, the supply cassette was loaded with flight film in 41 minutes without incident.

On Thursday, 1 July 1965, J-22 system was integrated and operated with flight film without incident. J-22 system was certified for flight.

[REDACTED]  
b Performance Evaluation

Wk:sm

APPROVED [REDACTED]

[REDACTED]  
Manager  
Operations & Analysis

cc: [REDACTED]

[REDACTED]