

MMDAC Research Project Team Meeting

1/17/08

Team Members: Alexander, Kaber, Kaufmann, Kim, Prinzel, Stelzer

Agenda:

Review of action items from December meeting (with due dates of 1/17):

Completion of additional sections of ASEM manuscript (Kaber/Kaufmann/Hsiang – still in progress)

Identification of desired characteristics of subject population for 2nd experiment (Alexander/Kaufmann).

Identify tentative sample size

Identify HUD configurations for 2nd experiment (Stelzer/Kim/Kaber/Prinzel).

Define subjective measure of clutter threshold (Kaber/Kaufmann)

Identify pairs of descriptors terms from Year 1 Study results for use as anchors to subjective clutter rating scales for 2nd experiment (Kaber/Kim/Stelzer/Alexander)

Define flight scenario and experimental design (All)

Approach – Manually flying KRNO 16R ILS

Workload manipulation – Turbulence and cross-wind components

(Also consider airspeed (a failure) or autothrottle slip or capture failures, or a flight mode problem)

Design -

Display configurations

Procedure – Need to follow CaD-CE procedure as close as possible

Plan to use Kaufmann as confederate FO with subjects as Captains.

Wireframe database development (Prinzel/Arthur)

Will cover entire KRNO area.

Type of SVS will remain consistent with 1st study.

Current Issues:

Bailey would like to see some preliminary testing at Langley.

NASA IFD Simulator is booked through next summer.

Pilot testing will not occur in IFD in March.

RFD may be available

Prinzel proposed checkout testing in May (5/15-30)

(Kaufmann will be available in May.)

Prinzel is checking into availability of IFD for experiment next June.

(Kaufmann will be available.)

Recruiting of pilots (10-20) for experiment (Prinzel/Bailey)

Year 2 Outcomes:

(Need to stay focused on these goals.)

Objective model of perceived clutter

Subjective clutter preference threshold and objective performance clutter threshold

Subjective clutter rating scale

Conference presentation

Kaufmann may lead on submission to HFES Meeting

Another journal article