

MMDAC Research Project Team Meeting

4/17/08

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

Agenda:

Review of action items from February meeting (with due dates of 4/15):

Draft flight scenario (Kaufmann) – Done

Beta version of software application for objective evaluation of visual display properties (Veil) – Update

Testing of photometer (Veil) - Update

Development of condition (case) identifier spreadsheet for experiment (Kim and Kaber) – Done

Association of clutter subjective measurement scales with objective measure of display properties (Kim and Veil) - Done

Development of TLX forms (Alexander) – Done

Development of complete experiment questionnaire packet (Kim) - Done

Wireframe database development (Prinzel & Arthur) - Update

Publications work:

HFES proceedings paper (Alexander et al.) – In revision

ASEM manuscript (Kaber et al.) – In review

Experiment Scheduling:

Review for checkout - at NASA LaRC – 4/30

Attendees: Kaber, Kaufmann, Norman, Prinzel

Checkout for experiment - at NASA LaRC – 5/22-5/23

Attendees: Kaber, Kaufmann and Kim (22-23), Stelzer (23), Alexander and Veil (optional)

Need to develop checklist to confirm all experiment procedures and materials are ready to go.

Full experiment in IFD - at NASA LaRC – 6/2-19

Week	6/2-6/5	6/9-6/12	6/16-6/19
Primary Experimenter	Kaber	Stelzer / Kaber	Alexander
Second Experimenter	Kim	Kim / Veil	Veil
Confederate FO	Kaufmann	Prinzel	Kaufmann

(Kaber has conflict on 6/4-5 and needs replacement.)

Primary Experimenter:

Brief subject, work in simulator, deliver experiment procedure, administer all response measures, record subject problem and equipment failures, and verify data recording.

Secondary Experimenter:

Collect consent, escort subject on breaks and stage for trials, support primary experimenter by providing all necessary forms, verify data integrity, and handle debriefing.

Confederate FO:

Support pilot in executing flight scenario, fake communication with ATC, and present clearance to pilot.

Recruiting of pilots for study (Regina Johns) - Near completion

Experiment #1 – Pilots may have some HUD experience from simulator but no more than 20 hrs.

Experiment #2 – All pilots will have substantial flight experience with HUD.

Year 2 Outcomes:

(Need to stay focused on these goals.)

Subjective clutter rating scale (All) - Done

Subjective clutter preference threshold and objective performance clutter threshold

Objective model of perceived clutter

Conference presentation...

Study of Correlation of low-level HUD visual properties with pilot perceptions of display clutter (collected in Year 1 Experiment).

Another journal article based on Year 2 Experiment.