

## **NCSU/Aptima – NASA NRA-07 Research**

2/12/07

Team Members: Alexander, Bailey, Cowley, Hsiang, Kaber, Kaufmann, Kim, Stelzer

NASA TPOCs: Prinzel, Bailey

### Agenda:

Review of action items from January meeting and research progress:

All items complete, save development of prototype displays and setup for experiment (after 1/31/07)

Review of materials for Experiment #1:

Questions and discussion on flight scenario/display conditions (Kaber)

Questions and discussion on survey forms (Bailey)

Questions and discussion on experimental protocol (Bailey)

Status of experimental stimuli development (Prinzel)

Status of pilot recruiting (Bailey)

Schedule for continuing preparation for Experiment #1 (see Current Issues below):

New business from the floor

### Issues/Tasks Addressed:

- Summaries of literature complete - Keller et al. and Schnell report and paper. HUD specification in progress (Cowley)
- Completed experimental flight scenario and defined display stimuli (Kaber, Kaufmann et al.)
- Identified combination of HUD features least likely to be used during approach (Kaufmann)
- Revised experiment protocol (N. Bailey et al.)
- Revised survey forms (N. Bailey et al.)
- Recruited subjects for experiment (R. Bailey)

- Initiated development of display images (Prinzel)

Current Issues:

- NASA to send display image files to NCSU for review (~2/14-16)
- NCSU to mock-up experiment setup in Cognitive Ergonomics Lab (~2/15-16)
- NCSU to conduct dry run of experiment using Aptima protocol and measures (with ATP certified pilot - Kaufman) (~2/19-20). Report time required for experiment session to NASA.
- NCSU to prepare final ordering of display conditions during trials (some variations may be created based on consultation with Kaufmann). Build spreadsheets of trial schedules and conditions for data collection. Secure video recording equipment (2/21-28).
- Aptima to copy all necessary forms and prepare folders for subjects (2/21-28).
- NCSU and Aptima make travel arrangements.
- At Langley - Tentative dates for first experiment. Please block calendar for travel. (3/1-2)