

Sverdrup Technology, Inc.

MEMORANDUM

File No.

Date: Feb 25, 1998

To: Distribution

From: J.B. Thompson (Original Signed)

Thru: R.S. Reese (Original Signed)

Subject: NASA Visit to AEDC

Personnel from NASA visited AEDC on Feb 24th, 1998 to discuss upgrade efforts (DARWIN, PRISIM) that are currently underway at NASA and to discuss similar upgrade efforts (Integrated Test Information System(ITIS)), and Virtual Presence and Test Data Management) that are currently underway at AEDC. A workshop was convened in the A&E Building (Training room D) for these discussions. The objective of this workshop was to pursue a collaborative effort with NASA on modernizing the test information management processes for NASA and AEDC test units.

Attachment I is the agenda for this workshop. The following personnel supported this meeting.

Steve Craft, NASA ARC
Robert Smalley, NASA LeRC
John Schaefer, NASA LeRC
Kennie Jones, NASA LaRC
Dave Korsmeyer, NASA ARC
Bill Peters, SVT/TD4
Grant Patterson, SVT/TT24
Dana Pemberton, SVT/TD
Tom Daugherty, SVT/TF12

Col Ed Patneaud, AF/DOF
Gene Saunders, AF/DOF
Jere Matty, AF/DOT
Steve Schroeder, AF/DOT
Ted Bapty, Vanderbilt
Jeff Long, SVT/TD
Terry Bradford, SVT/TT24
Jason Gamble, SVT/TL41
Joe B. Thompson, SVT/TF19

Phone numbers and E-Mail addresses for the attendees are provided in attachment II.

After the introductions Kennie Jones from NASA LaRC presented a briefing on Test planning, Documentation and Data Management Tools being developed by NASA. This included the HP project planning tool developed at NASA LaRC (previously presented at AEDC), the Test Log Documentation tool, and the Program for Information Storage & Management (PRISM). Mr Jones also discussed some of the cultural issues encountered with these modernization efforts. Discussion issues that were brought up included:

In house development vs commercial off the shelf solutions,
Acceptance by customers/users,
Metadata interface to DARWIN,
Security of test information,
Proprietary information,
Legacy system interfaces,
Comprehensive archive across facility,
and Others.

After the break Dave Korsmeyer from NASA ARC gave a briefing on the web based data visualization tool (DARWIN) and the Distributed Remote Analysis & Management (DreAM) tool developed at AMES. Discussion issues were:

Cross platform compatibility,
Meta data base,
Common data dictionary,
Network connectivity,
Maturity level, release version,
Security,
Customer acceptance,
Others.

After lunch John Schaefer gave a briefing on similar upgrade efforts at NASA LeRC. These included the Remote Access Control Room and the Test Engineer's Log Sheet. The data dictionary issue came up again in this session as well as the central data archive issue.

Terry Bradford from AEDC then gave a briefing on the Integrated Test Information System project at AEDC. The issues dealt with in this presentation were similar to the issues discussed in the earlier NASA briefings. Terry introduced the concept of Model Based Computing (MBC) to very quickly reconfigure the test process based on unforeseen customer requirements.

Ted Bapty followed with the work that Vanderbilt has been doing on Model Based Computing on the ITIS project. Ted also explained the two prototype development efforts that Vanderbilt is working on for AEDC and their relationship with DARPA.

The last two hours were spent discussing areas of common interest and identifying how to proceed to develop these areas. The following action items were identified:

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|--|------------------------------|
| 1) Establish points of contact | Jere Matty, Steve Craft |
| 2) Publish minutes of this meeting(1 week) | Joe Thompson |
| 3) Investigate Darwin & PRISM tools | Jason Gamble, Dave Korsmeyer |
| Set up network communications | |
| Try sample cases | |
| 4) Get Data Dictionary from Ames & LaRC | Jason Gamble, Kennie Jones |
| 5) Investigate Test Log at LaRC | Terry Bradford, Kennie Jones |
| Set up network communications | |
| Try sample cases | |
| 6) Provide latest release on MBC | Ted Bapty, Dave Korsmeyer |
| 7) Identify the processes for testing(AEDC,NASA) | Bill Peters, Blair Gloss |
| 8) Schedule next workshop | Jere Matty, Steve Craft |
| 9) Capture ideas on cooperation(30 to 60 days) | Jere Matty, Steve Craft |
| 10) Provide copy of presentations to Jere Matty | Presenters |

The workshop adjourned at 16:00 hrs.

DIST:

Attendees

Col. Pierre,AF/DO/9011

Col. Smith,AF/DOP/5051

Lt Col. Preston,AF/DOS/4000

D.C. Bond,AF/DOT/9011

B. Gloss,NASA LaRC

J.C. Adams, SVT/9013

J.D. Hollis,SVT/3000

R.H. Danhof,SVT/5051

J.D. Johnson,SVT/4001

P.E. McCarty,SVT/5051