

Network Noise

Y-12 CAS Program

The CAS program at Y-12 has seen many changes in the last year. We have been in a state of evolution, and are becoming (hopefully) more useful to the plant in terms of what we produce and how we get it out to the site. In addition to performing CAS surveys, we have broadened our approach to include many other components that have proved to be of benefit to Y-12. We have partnered with the Y-12 utilities program to perform characterization surveys of all utility buildings. These surveys include walking down utility components from start to finish and generating process flow diagrams, and equipment listings. We also include photographs of components where necessary. We currently have completed walkdowns for all cooling towers, steam distribution, plant air, and chilled water systems. Another aspect of this service has linked us to the Reliability Centered Maintenance program. This effort encompasses the same task as the utility infrastructure surveys, but is providing information for the Y-12 preventive maintenance program currently underway. We are also very proud of the fact that currently we have met or exceed all of our goals set for the FY '97 Award Fee by DOE.

Our biggest accomplishment by far this year is the creation and production of the CAS homepage. Our address is <http://www.cmo.ornl.gov>. You need a NTOR account to access our data, as it resides on the internal server. However, you

may contact Sid Womack (423)574-0469, and he will be able to get you authorization. We have currently populated all facility information for all buildings surveyed this year. This includes CAS survey data, but also executive summaries, photographs, floor plans, process sketches, and equipment list information. We also include an assortment of utility information including steam distribution and production, plant air, chillers, sanitary sewer, and the Osmoses power pole survey information.

Jane Nations, Y-12 Lockheed Martin

AL uses Surplus Facilities and Land Database for Excess Initiative

The AL Surplus Facilities and Land (SF&L) database which was demonstrated at the October FAC workshop has been used successfully by AL sites to collect information on facilities for the recent HQ Excess Facilities Initiative. This database developed in Microsoft Access by the AL site planning team and Wastren, the Grand Junction operating contractor, proved to be up to the task. The fact that selected facilities can be imported into SF&L from a FIMS download file was an important feature. The other useful feature is that data for selected facilities already in SF&L can be "synchronized" with FIMS. This means that key data

fields in SF&L, which are common with FIMS can be updated to match FIMS. Except for the itemized breakdown of S&M costs, a place for gathering the other data requested for this initiative existed as part of the SF&L database. If interested, contact Anna Marie Trujillo at (505)845-6387

Anna Marie Trujillo, DOE/AL

Purdue University

Purdue University has completed a license agreement with DOE to develop a derivative of CAIS specifically for educational institutions. Last month, representatives from Parsons Brinckerhoff and DynCorp met with Purdue and Indiana University staff for initial investigation of Purdue's proposal. All parties agreed to feasibility of such a product and a request for proposal to be presented to Parsons Brinckerhoff is in the works. One item of the proposal is of interest to DOE and involves development of a Windows version of the inspection CAIS package.

Michael Montgomery, Purdue University

NASA Lewis Research Center

I felt the workshop in Las Vegas was beneficial again. The exchange of ideas was great, and I learned a lot of new tricks. A big thanks to the magicians.....

The current status of CAIS at LERC is that we are currently inspecting buildings and entering information into CAIS. We are 6% complete and learning as we inspect. We have 109 buildings, 2,552,814 square feet of buildings, and 8 systems (natural gas, steam, city water, roads, chilled water, sewers, catholic protection and grounds) to inspect. We have the current version of CAIS, however we have it on a stand-alone computer. The inspectors prefer entering information into the site CAIS rather than using the grids. I can see this as being a problem in the future.... I think....we will be waiting for computer time. Till the next meeting.

Paul Antczak, NASA Lewis Research Center

ORNL CAS Program

My name is Charles Lamb, Program Coordinator for the CAS program at Oak Ridge National Laboratory.

Terry Christie has asked me to give a new outlook on life within the CAS program. Most of you folks don't know who I am, lets get acquainted. I am a shaker and a mover. My goal is: Catch up, move over or get out of the way. This is what we as a CAS program have tried to do since I joined the group in October of last year. As a CAS team we are dedicated to do just that. Our motto: **What can we do for you today! Let us be your eyes and ears!** With the expertise of our inspectors we can do just that. Each highly trained inspector, proficient in his or her skills, is listening to the heartbeat of our facility. We are diagnosing the problems within the infrastructures. Along with our newly acquired digital camera, we not only tell our customers where they have problems, we show them. We have been able to create a quick fix list that we call

maintenance suggestions, with this form linked to photos the customer can really understand where we are coming from. We have had great response from our customers. They are finally understanding what we do and that we can be of service to them.

Charles Lamb, ORNL Lockheed Martin

Pantex Status

Personnel level remains at two, with CAS inspections continuing, but no update of the CAIS server. Unofficial word is that the CAS program will not be funded and cease to exist after September 30, 1997. Inspections are on schedule to complete the first three-year cycle of inspection that includes all active Pantex facilities.

A facility "Extension-of-Life" study was completed and report issued on April 22, for 441 facilities to be updated to "GOOD CONDITION" and maintained in that status through 2005.

Robert Von Eschen, Pantex

From the Chairman

I wish to thank those who were able to attend the Las Vegas Network Meeting. The meeting was the busiest I have attended and with the new strategy initiatives should prove to be the most productive.

With several new advances spearheaded by Paul Reynolds (LLNL) and others, the CAIS database is becoming more site compatible with each change.

Each of the committees are functioning with expanding agendas, under the leadership of Robert Hampton (LANL) for CAIS, Tomas Masias (GJPO) for inspection, and Darrell Tullock (ORNL) for interface. The "Interface" committee is

coordinating the data interface with FIMS, and should you have any input, please contact Darrell.

At 11:00 EST, on April 16, we held our first "CAS telecom" and had two dozen participants. Please plan to participate in the next call at 11:00 EST on the second Wednesday of the month, May 14. An announcement, including the phone number will be sent out by e-mail notice the week before the call.

Until next time.

Robert Von Eschen, Chairman

CAS at Los Alamos

The CAS program is continuing to move ahead at Los Alamos. The inspection force will be up to three full time inspectors and one part time inspector as of this writing. We experienced some attrition in the inspection force, and, as we well know, it takes time to replace qualified folks that can speak CAS. We came home with some renewed enthusiasm about the use of the DOE CAIS product after the meeting in Las Vegas. We are trying to sell our Facility Mangers on the idea of using the DCD and supporting processes to manage their master equipment lists (MEL) site wide. With new maintenance management software (CMMS) coming on line (Passport is the product), it is not clear that our timing is good due to the turmoil associated with implementing a new software product, but we intend to continue to push this process. We feel that it will blend nicely as a feeder database for the CMMS and simplify the field effort required to maintain inventory of the assets on the MEL. We are also attempting to have our asbestos crews use the process for their field surveys, and we are linking our code level deficiency data to our ES&H deficiency tracking database.

Our data is now available to the LANL world on the "data warehouse" system. The entire CAIS data set, presented in levels of detail for the managers (from summary to detail), is available to anyone that has administrative access to the central computing system. A summary level of detail will soon be available to the open access areas of the computer network via the World Wide Web. I don't think the universe of web crawlers out there will be able to access it, but the population at LANL will. This has moved us one step closer to a paper-less process for CAIS data dissemination. I will give updates on how all this turns out in future issues.

The Albuquerque sites are moving towards Total Life Cycle Management as the primary focus of facility management. This was driven home at the DOE/AL maintenance management seminar held in Albuquerque on April 1 and 2. The seminar, sponsored by DOE/AL and hosted by Steve Fattor of DOE/AL/OMD, was a comprehensive peek at the upcoming FY, flavored with a good mix of networking and sharing of ideas and strategy's for the management of the DOE asset base throughout the complex. I look for tools and techniques to flow from the result of transition to performance based management, and the beginnings of this process were evident at this meeting.

The good news for CAS is that condition assessment is one of the key tools required to manage life cycle analysis! A manager can not plot a course of action for use of assets, whether strategic or tactical, without a basis for current condition of that asset. The CAS/CAIS process can provide this basis information. The lesson here is; for CAS to be tied into the planning process as an integral supplier of information. This

linkage will enhance the decision making process and move us closer to the 95% budget accuracy required under the executive order A11 where asset management and strategic/tactical planning is concerned. As an aide, these data sets will work as a quality feeder to FIMS as a comprehensive facilities information tool for the DOE managers to use in their decision making process. If a site chooses to implement CAS as Livermore has, this key facility and infrastructure data will, in addition to the above, help drive the budget process and add credibility to the cost basis of maintenance and operations of the site. Look at your potential in the SFIA/SF&L areas. CAS is an appropriate feeder to this information system as well. These potentials are cause for enthusiasm in marketing your product to senior management and continuing to plug away at providing world class data through the CAS/CAIS process.

We look forward to the upcoming tele-conferences and meetings of the LCAM/CAS Networking Group and hope to see all sites participate in the future.

David McIntosh, LANL

DynCorp News

Attention all Site-CAIS users:

Site-CAIS makes use of several stored procedures and views that are stored in the Oracle Database. Occasionally, these procedures and views become "INVALID" because tables, procedures, and other views that they are dependent on, get dropped or modified. To find out if your database has any "INVALID" objects, please type in the following statement using SQLPlus (login as cais/cais):

```
Select object_name, object_type
from all_objects where status =
'INVALID';
```

Note: the above statement should be typed on one continuous line.

After executing the above statement, SQLPlus will display all INVALID objects, if any.

To re-validate these objects perform the following procedure:

1. If object_type = PROCEDURE then type the following: alter procedure <object_name> compile; where <object_name> is the object_name shown
2. If object_type = VIEW then type the following: alter view <object_name> compile; where <object_name> is the object name shown

Some objects may not re-compile, these objects are most likely a remnant from previous versions of CAIS. If there is any doubt please call the atso hotline at (703)709-7910.

When should this procedure be done?

1. As soon as you finish reading this bulletin.
2. After every upgrade of the system.
3. Anytime you or your DBA, makes changes on the database (such as table drops and modifications).
4. Anytime something strange happens in CAIS that has not happened before.

Finally, please call the atso hotline if you have any problems whatsoever.

Charlie Lu, DynCorp

First LCAM/CAS Network Teleconference

On April 16, 1997 @ 11:00 EST via (301)903-7082, the first network teleconference was conducted, with about two dozen participants. Van Jones set up the call from DOE/HQ. Van and Ken Baker initiated the call, with comments from Washington:

- Discussions continue on placing CAS/CAIS as a sub topic of LCAM
- All have stated that putting CAIS and FIMS information together is the best approach
- Discussions continue on what and how data should be interacted between the databases

Network Chairman Bob Von Eschen of Pantex then conducted the meeting by discussion of "Administrative" topics as follows:

- Teleconference schedule – the call will be initiated by Van Jones, the second Wednesday of each month at 11:00 EST, (next call will be on May 14) thus a day after the FIMS network call that may generate some topics of discussion. Meeting topics are to be e-mailed to rvonesch@pantex.com a week prior to the call.
- Meeting format – 1) Headquarters update by Van Jones, Ken Baker, etc., 2) Administrative items by network chairman, with newsletter topics by the editor, 3) Each committee chairman will then field topics in the order of inspection, CAIS and interface, and 4) Open floor for other topics, discussions and comments. The meeting is intended to not exceed one hour in length.

- Newsletter – The newsletter will send articles to DOE/HQ "Infrastructure" Newsletter for publication. All articles are to continue to be sent to Terry Christie for coordination. PLEASE send Terry your information on site CAS/CAIS program status, and any site-specific developments.
- Las Vegas network meeting – The meeting was very busy with several standard activities. However a major portion of the meeting was spent in discussion of interface strategy led by Frank Newman (DOE/HQ) and the new database developments by Paul Reynolds (LLNL). In addition, Van Jones gave us the DOE/HQ slant on current activities, Ken Freiberg made a presentation for Anna Marie Trujillo (DOE/AL) and comments from Shaun Kesterson (DOE/OK), all added to benefit of the attendees. Bruce Charlton (BLV) and Lisa Seppala (DOE/NV) provided excellent resources for the meeting.

The meeting was then turned over to Tomas Masias of GJPO for discussion of "Inspection" topics:

- PB inspector availability – Jesse Oak of PB stated that a course could be set up for both inspector training and inspection CAIS training. Bob Von Eschen will make a survey and determine interest and investigate a site and time.
- LANL inspector skills training availability – Robert Hampton stated that they had lost their instructor but the program very possibly could be put on with the material that was left in the training plan.
- Jesse Oak stated that he would be at the Air Force (Marietta) next week, for

training of their personnel in inspection and CAIS administration using the "Red Run" demonstration program. After the training they would install the 3.1.1 clean program.

The meeting was then tuned over to Robert Hampton of LANL for discussions of "CAIS" topics:

- Problems in installing CAIS 3.1.1 upgrade – Charlie Lu of DynCorp stated that for anyone having problems he will mail out "clean" copies of 3.1.1. So far only four have been requested, but with the verbal requests it is now seven.
- Charlie Lu stated that diskettes were sent out to all the e-mail addresses he has but several bounced back. Note: RS Means costing are rounded figures and may not meet the specific site needs. A current listing of addresses was given out at the last meeting and Terry Christie is still the custodian of this information.
- Jesse Oak requested anyone who would like to see specific reports from CAIS should contact him, as the reports currently standard in CAIS are some developed without network membership input just so that they would have some in the system. Jesse requested Anna Marie Trujillo to give him anything that may be useful to interface with or be required to support maintenance activities.

The meeting was then turned over to Darrell Tullock of ORNL for discussion of "Interface" topics:

- LCAM/CAS interface meetings – They are yet to be set up.
- Condition code interface with FIMS – Currently five codes

are used in FIMS and these can be generated using the Argonne Laboratory Method. Ken Baker stated that he would e-mail the Argonne guidance out to the completed network membership today.

- At the close of this meeting, several members will remain on the line for a discussion of the CAIS/FIMS condition code interface.

Bob Von Eschen made final call for discussion topics, and subsequently the teleconference was adjourned at 11:55 EST.

Robert Von Eschen, Chairman

Final Words from the Editor

I want to thank everyone who showed up in Las Vegas and made the meeting such a great success. I know the ones of you who attended benefited from it and the ones who were unable to we hope you will try to make the next one. While I am on this subject, it has been suggested that I ask your input in where and when you would like to see the next meeting. Places that have been suggested were Lawrence Livermore or Los Alamos. Dates that have been suggested were either the end of September or the first part of October. Please let me know if you have a preference.

I have gotten several different versions about what the plans are for the Network Noise newsletter, therefore I am going to tell you what my plans are concerning this. I will be forwarding a copy of this newsletter to Marsha Penhaker for her to decide which articles she wants to publish in the Infrastructure newsletter. I will continue to publish the Network Noise for our use. I know that some of the people who receive our newsletter don't receive the

Infrastructure, I am one of them. I also think there is a lot of information printed in our newsletter that wouldn't necessarily interest the readers of the Infrastructure. If at a future time we decide we are being covered fully by another source and are reaching all of our readers then we can make the decision to cease publication of the Network Noise.

Please continue to send me any articles you have concerning your site and status along with any improvements you would like to see in the newsletter. I appreciate any and all comments, good or bad.

I will be letting you know when the conference call will be and the number you can call to be included in this meeting. If there is any other information you need sent out to the network membership just let me know and I will be sure that it is forwarded to everyone.

I look forward to seeing all of you at the next meeting.

*Terry Christie, Network Noise Editor,
ORNL Lockheed Martin*