

GAO

Fact Sheet for Congressional Requesters

March 1987

INTERNAL CONTROLS

Agriculture Finance Center Actions to Improve Controls in Selected Areas



Information in this fact sheet is derived from the General Accounting Office report on the basis of specific information provided by the Agriculture Finance Center.

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United States
General Accounting Office
Washington, D.C. 20548

Accounting and Financial
Management Division

B-218842

March 20, 1987

The Honorable Barbara A. Mikulski
The Honorable Paul S. Sarbanes
United States Senate

The Honorable Gary L. Ackerman
The Honorable Steny Hoyer
House of Representatives

Your October 28, 1986, letter requested that we examine several issues regarding transfer of the Department of Commerce's Census Bureau payroll system to the Department of Agriculture's National Finance Center (NFC). As agreed with your staffs, we are providing you a fact sheet on NFC's progress in addressing issues involving its payroll operation and general automated data processing controls that we raised in two 1985 reports, Internal Control Improvements in the Department of Agriculture's Centralized Payroll System (GAO/AFMD-85-39, May 22, 1985) and Improvements Needed in General Automated Data Processing Controls at the National Finance Center (GAO/AFMD-85-38, July 12, 1985).

To determine NFC's progress, we interviewed relevant NFC officials in New Orleans and reviewed pertinent documentation. We did not examine NFC's processing operations in detail, nor did we perform a detailed systems analysis.

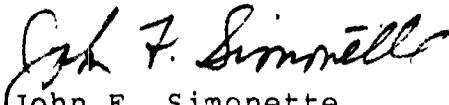
While we did not make formal recommendations in the May 1985 report, we did outline problems that NFC was attempting to resolve, as well as several which NFC did not agree required attention. (These latter issues were intended to ensure that NFC restricted access to automated data processing (ADP) programs and data and that it had controls appropriate to ensure that payroll processing results were correct.) Action has been taken on most issues in this report. (See appendix I for details.)

In the July 1985 report we made a recommendation calling for the NFC director to report quarterly to the Agriculture Assistant Secretary for Administration on the status of

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efforts to resolve the following: (1) providing adequate disaster planning, (2) developing appropriate program documentation, (3) implementing an independent certification function, and (4) limiting access to ADP programs and data. Reports of this nature have been made to the Director of the Office of Finance and Management. As with the May 1985 report, NFC has taken some action on these items. (See appendix II for details.)

As agreed with your office, we did not obtain agency comments on a draft of this document. Unless you publicly announce the contents of this report earlier, we will not distribute it until 30 days from its date. At that time we will send copies of the report to the Secretary of Agriculture, the Secretary of Commerce, and other interested parties. We will also make copies available to others on request. If you have any questions regarding the contents of this document, please call me on (202) 275-9454.


John F. Simonette
Associate Director

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ABBREVIATIONS

ADP	automated data processing
FIPS	Federal Information Processing Standards
FPMR	Federal Personnel Management Regulations
NFC	National Finance Center

INTERNAL CONTROL IMPROVEMENTS
IN THE DEPARTMENT OF AGRICULTURE'S
CENTRALIZED PAYROLL SYSTEM:
STATUS OF CORRECTIVE ACTIONS

Issue 1:

We stated in our report that

"...during processing, any identifiable payroll record creating a processing problem was placed in a 'drop file' so that the programmer could research the record and reenter corrected data. From an internal control viewpoint, we consider this a weak procedure because it allows one person to control too many aspects of the basic transaction. NFC changed the procedure to provide for the drop file to be sent to the accounting operation section, which is a separate unit away from the programmer, for research. However, to control this process properly, NFC should create a suspense listing of all files which are creating problems and are placed in the drop file. In this way, NFC can establish that the system is missing a file and can document correction of the item."

We discussed this problem with an NFC official and were told that any particular payroll record which creates a processing problem is included on a suspense listing of unpaid items which is used by accounting operation division personnel in making corrections.

Issue 2:

The second issue raised in our report was that

"...control over programmer access and modification to computer programs and computer and payroll files was inadequate. NFC has allowed programmers access to all parts of the system with little oversight of their activities. NFC personnel stated they have instituted procedures to eliminate unneeded access and have limited the number of programmers with complete access to five. However, we believe programmers should not have access to all parts of a system because such a procedure increases the possibility that fraud can occur. NFC has instituted a program certification function, and NFC told us that over 80 percent of the programs comprising the payroll system have now been reviewed to ensure no unauthorized program changes have been made. Although this is a positive step, it does not preclude future unauthorized changes."

We based our comment on problems we saw in the way NFC operated a particular program which edits and validates time and

attendance reports. At the time of our review, NFC ran the program from a software library which had no access controls rather than from the production library which had access controls. During our follow-up, NFC told us that it changed this practice so that the program is run from the production library.

Concerning the number of programmers with access, we were told that three programmers at NFC still have read and write access (i.e., the ability to change) to the payroll/personnel programs. These programmers support maintenance of the production library.

Issue 3:

As stated in our report

"...internal control over record counts (control data files) during computer processing is inadequate. A control data file is an internal control technique that sums the records processed and then compares the sum against the records input to be processed. If the two numbers disagree, processing should stop and the reason for the disagreement should be determined. If this is not done, it could result in processing incorrect data during payroll processing, without NFC being aware that the error had occurred. We have discussed this point several times with NFC officials but have been unable to resolve this issue. The officials said they have changed their processing steps to halt the program if the record counts are noted to be out of balance in all parts of the process except payroll computation. We believe that NFC should have the computer halt operation every time the out-of-balance condition occurs. Otherwise, no assurance exists that the payroll computations are correct."

During our follow-up, an NFC official told us that they plan no further action because

- this is the only portion of the payroll program where processing continues if the control data file is out of balance and
- the suspense listing of records described earlier identifies the records which created the out-of-balance condition.

IMPROVEMENTS NEEDED IN GENERAL AUTOMATED
DATA PROCESSING CONTROLS AT THE NATIONAL
FINANCE CENTER:
STATUS OF CORRECTIVE ACTIONS

Issue 1:

In this report, we stated that the NFC should develop and implement

"...contingency plans consistent with OMB Circular A-71¹ and FPMR [Federal Personnel Management Regulations] 101-35.3 requirements and FIPS [Federal Information Processing Standards] guidelines to ensure prompt recovery and restoration of NFC operations in case of a disaster or other unexpected events."

NFC has since prepared a disaster recovery plan. The plan addresses response procedures, recovery and rapid restoration, and plan testing but does not identify a backup processing facility.

Issue 2:

We stated in our report that NFC should develop and implement

"...program documentation standards and procedures consistent with FIPS guidelines."

NFC does not agree with our position on this issue and continues to believe that its "COBOL Documentation Standard" meets all FIPS guidelines. Thus, it has not changed its procedures. However,

- NFC drafted a new documentation standard for program maintenance in August 1985. An NFC official told us that this standard is not used, and our limited review of files for a system certified after August 1985 confirms this statement.
- NFC issued a security requirements standard in July 1986 which requires that application software be reviewed and that security concerns be satisfactorily identified and resolved before the software is certified. A security requirements questionnaire that asks the user to identify whether the application contains sensitive privacy data is part of the required documentation.

¹This circular has since been superceded by OMB Circular A-130.

Issue 3:

In response to our work in system certification, we reported that the NFC should develop and implement

"...a system certification schedule for all NFC systems, consistent with OMB Circular A-71, which would include review of the adequacy of program documentation."

NFC has established a schedule for conducting certifications, and some certifications have been completed. Our examination of the certification review file for a recently completed part of the system indicated that the system documentation was reviewed as part of the certification process.

Issue 4:

In our report, we said that NFC should also develop and implement

"...independent testing standards and procedures for both program changes and new programs."

NFC drafted an application software testing standard in April 1985. Our review of the draft indicated that it addresses new programs and changes to existing programs. However, this standard has not been implemented because it has not been approved by the NFC director.

To determine whether the draft standard was used, we reviewed the testing documentation prepared for the recently certified portion of the payroll accounting system. No notations were made that testing was performed according to the draft standard.

Issue 5:

Finally, we stated that NFC should develop and implement

"...procedures that would allow programmers access to production programs only when circumstances warrant and on a controlled basis."

During our follow-up, an NFC official told us that programmer access to programs has been restricted considerably and that program access has generally been restricted to the branch level. We understand that there are a few exceptions involving people transferred to a different division who temporarily retain some work responsibilities for the prior division's programs.

We were told that NFC's "Top Secret" software package is used to control programmers' access to programs but that this package is

incapable of restricting access down to the individual program level--the level which we consider to be desirable. We performed no tests to confirm these statements.

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