This electronic mail communication constitutes an official release of a change to the University of California Base Payroll System. A confirmation release letter will follow by U.S. Mail, but campuses are authorized to install this release immediately upon receipt of this communication.

The Employment Verification function IVER accesses the Title Code Table for the abbreviated title code description. Multiple rows can exist on the PPPTTCI table for a given Title Code, as long as the Timestamp, which is part of the key, is different. The direct SQL access in PPWIVER uses the MAX column function relative to the effective date but does not use the MAX function relative to the Timestamp. This can result in the return of multiple rows, a -811 SQL error code and an abend.

It was determined that rather than modify the existing SQL code, it would be better to completely replace the direct SQL access with a call to the TCT utility program PPTCTUTL.

Release Title: Employment Verification TCI Access
Programs Being Modified: PPWIVER
Error Report: 1376
Change Mark: 20741051
Urgency: See Timing of Installation.

1. Make the following changes to COBOL program PPWIVER

At the beginning please insert the following flowerbox:

```
**************************************************************/
* PROGRAM: PPWIVER2 */
* RELEASE: ___1051______ SERVICE REQUEST(S): ___12074____ */
* REF REL: ___1048______ */
* NAME:__PHIL THOMPSON__ MODIFICATION DATE: ___02/16/96__ */
* DESCRIPTION: */
* ERROR REPORT 1376:
* CORRECT TCI SELECTION TO CALL PPTCTUTL. */
**************************************************************/
```

2. Near the beginning of Working Storage, make the following changes to update the Release level and define the called program PPTCTUTL.

```
*****05 WS-PGM-REL-NO PIC X(0005) VALUE 'I1048'. <=commnt
  05 WS-PGM-REL-NO PIC X(0005) VALUE 'I1051'. <=insert
  05 WS-PPTCTUTL PIC X(0008) VALUE 'PPTCTUTL'. <=ins
```

3. Farther down in Working Storage find the code defining the DB2 message interface, and insert code to define the PPTCTUTL linkage.

```
01 PPDB2MSG-INTERFACE.
  COPY CPLNKDB2. 

01 PPTCTUTL-INTERFACE EXTERNAL. COPY CPLNKTCL. 
```

4. Comment out the Include for PPPVZTCI_TCI.
5. In Section 8560-SELECT-TITLE-DATA-TCI comment out all the current SQL code and the SQLCODE Evaluate logic, and insert code to setup and make the call to PPTCTUTL.

```sql
*****EXEC SQL
***** INCLUDE PPPVZTCI
*****END-EXEC.

MOVE '8560-SELECT-TITLE-DATA-TCI' TO DB2MSG-TAG.
MOVE CPWSIVER-DS-TITLE-CODE (WS-OCCURS) TO TCI-TITLE-CODE.

EXEC SQL

EVALUATE TRUE WHEN SQLCODE IS EQUAL TO ZERO MOVE TCI-TITLE-NM-ABBRV TO CPWSIVER-DS-TITLE-NAME (WS-OCCURS) WHEN SQLCODE IS EQUAL TO +100 SET CPWSIVER-DS-TITLE-NAME-N-A TO TRUE WHEN OTHER PERFORM 8408-SQLCODE-BASIC-EVALUATE END-EVALUATE.

EXEC SQL

EVALUATE TRUE WHEN SQLCODE IS EQUAL TO ZERO MOVE TCI-TITLE-NM-ABBRV TO CPWSIVER-DS-TITLE-NAME (WS-OCCURS) WHEN SQLCODE IS EQUAL TO +100 SET CPWSIVER-DS-TITLE-NAME-N-A TO TRUE WHEN OTHER PERFORM 8408-SQLCODE-BASIC-EVALUATE END-EVALUATE.

MOVE CPWSIVER-DS-TITLE-CODE (WS-OCCURS) TO XTCL-CHOSEN-TITLE-CODE.
SET XTCL-READ-CHOSEN-TITLE TO TRUE.
CALL WS-PPTCTUTL.

IF XTCL-STATUS-NORMAL-END AND XTCL-TITLE-EXISTS
MOVE XTCL-TITLE-NAME-ABBREVIATED
```
Testing

At UCOP we used Title Code 0747, which had multiple TCI rows with the same effective date but ascending Timestamps. We used File Aid for DB2 to edit the abbreviated name fields to differentiate between the rows so that we could confirm that we were getting the latest Timestamp.

We then executed the IVER function for an Employee ID with a current appointment with title code 0747. The IVER function abended with a -811 SQL error.

We then made the above changes to PPWIVER, and repeated the test. This time the IVER screen returned with the appropriate displayed data, including the correct abbreviated title code name.

Installation Instructions
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1. Modify program PPWIVER per above.
2. DB2 pre-compile. CICS compile and link PPWIVER into the online ODBRMLIB and OLOADLIB.
3. Bind the package for PPWIVER.
4. Perform the above test.
5. Perform any desired local tests.
6. Install in production.

The modified program is available on the payroll FTP site, in the PAYDIST.R1051.COBOL library.

Timing of Installation
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The installation of release 1048 was Not Urgent. If it has not been installed, then this release should be kept and installed at the same time. If 1048 has been installed, then this release should be installed as soon as possible to avoid abends during IVER processing.

If there are any questions, please send electronic mail to Phil.Thompson@ucop.edu, or call on (510)987-0468.