Release 1109
Service Request 13454
EDB Maintenance Rehire Edits
Service Request 14260
Retirement/FICA Derivation

TEST PLAN

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Phillip Thompson

Information Systems & Computing
Office of the President
University of California
Retirement/FICA Derivation
Test Plan

BATCH TESTING:

Before testing this release, the requirements document Retirement/FICA Derivation for Non-Students and for Students Eligible for UCRP Requirements Definition (August 5, 1996) and the four addenda to Service Request 14260 should be read thoroughly so that the interplay of data elements that affect Retirement and FICA Eligibility is understood.

1. LOADEDDB. Load the EDB.
2. RUN150. Load the VSAM CTL file.
3. LOADCTL. Load the DB2 CTL. This includes the MSG, CTT, PGT and DET changes.
4. LOADHDB. Load the HDB.
5. LOADPCDX. Note: this job should only be run if your test online and batch databases are different. If they are the same, ignore this job and perform Steps 1 through 9 of the Online Testing to update the PPPHDE and PPPSYS tables.

This adds a new row for job PPP745 to the PPPSYS table. It activates data element 0238 Retirement/FICA Derivation Indicator for History processing by PPP742.

6. RUN250. Produce a listing of the test EDB prior to updates.
7. RUNOTA. Run the one-time program PPO1109A.

This program updates the Retirement/FICA Derivation Indicator (DE 0238 as column RET_FICA_DERIVE on the PPPPAY table) to L for a defined community of employees. It can update the EDB and create an ECF, but it only does so when run in UPDATE mode. Two reports are produced; each can be produced (to the same DD) in ID, Name or Name within Department order. All three sorts can be selected for each report, but at least one must be selected for each report.

A missing SPEC card, an incorrect program ID, invalid sort flag values, or an invalid update flag value should result in the program stopping and issuing a condition code 8.

Run the job once with the UPDATE flag blank. Confirm that the ECF and pseudo ECF files are empty (in fact they will have an “invalid blocksize” as they will not have been opened). Confirm that the Retirement/FICA Derivation Indicator’s have not changed by comparing the SPUFI output from before and after PPO1109A runs.
The first SPUFI report shows some potential candidates.

O1109A1. This displays employees that have a Retirement Code of U, B or 1; FICA Eligibility Code of N; and not one of the following Citizenship Code/Visa Type combinations: X, or A,N,E and F-1, J-1. The report is printed in ID, Name and Name within Department order. Compare the report results with the “candidates”.

000050123 is not reported because of Citizenship Code and Visa Type.

O1109A2. This displays employees that have a Retirement Code of U, B or 1; FICA Eligibility Code of M; and no title that is a Safety title code. Compare the report results with the “candidates”.

000050042 is not reported because of a Safety Title Code 5323.
000050129 is not reported because of a Safety Title Code 5323.

O1109A3 is the audit report which shows the SPEC card values and any error messages. It should display the message indicating that non-update mode was selected.

The second SPUFI report shows all the RET_FICA_DERIVE values. None should be L because the run was in non-update mode.

8. RUNOTAU. Run PPO1109A again with the UPDATE flag set on the SPEC card.

The FIRST TWO reports from PPO1109A should remain the same. The SPEC card reported in the audit report will now indicate that update mode has been selected.

The second SPUFI report should now show “L” values for the ID’s reported on reports O1109A1 and O1109A2.

The ECF should contain the records for the changed Retirement/FICA Derivation Indicators (data element 0238). The record ID’s should match the ID’s listed in the reports.

A pseudo ECF should be created. This contains “change” records for non-L (and non-blank) value Retirement/FICA Derivation Indicators so that the new column on the HDB can be updated. This file should be run through PPP742 but should not be considered a true ECF.

The PPP1800 report displays the changes on the two ECF’s. The first seven records display those ID’s that now have an L value RET_FICA_DERIVE indicator.

9. RUNOTB. Run the one-time program PPO1109B.
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This program calls the new version of PPFICRET to re-derive all Retirement and FICA Eligibility Codes. It can update the EDB and create an ECF, but it only does so when run in UPDATE mode.

Two reports are produced; each can be produced (to the same DD) in ID or order. Both sorts can be selected for each report, but at least one must be selected for each report.

A missing SPEC card, an incorrect program ID, invalid sort flag values, or an invalid update flag value should result in the program stopping and issuing a condition code 8.

Run the job once with the UPDATE flag blank. Confirm that the resulting ECF is empty. Confirm that the Retirement and FICA Eligibility Codes have not changed by comparing the first and second SPUFI reports from before and after PPO1109B runs.

O1109B1. This displays employees that will have a Retirement Eligibility Code or FICA Eligibility Code changed in update mode.

O1109B2 is the audit report which shows the SPEC card values and any error messages. It should display the message indicating that non-update mode was selected.

10. RUNOTBU. Run PPO1109B again with the UPDATE flag set on the SPEC card. The first report from PPO1109B should remain the same. The SPEC card reported in the audit report will now indicate that update mode has been selected.

The ECF should contain the records for the changed Retirement Eligibility Codes (data element 0122) and FICA Eligibility Codes (data element 0120) reported in O1109B1.

The second SPUFI report should show the changed EDB values for the ID’s reported in O1109B1.

The PPP1800 report shows the changes on the ECF. It should only contain the changes reported in O1109B1.

11. RUNOTC. Run the one-time program PPO1109C. This one-time program does not update the EDB. It reports employees with a Retirement/FICA Derivation Indicator L, and one of two combinations of FICA Eligibility Code and Hire Date.

O1109C1 displays employees with FICA Eligibility Code N and a Hire Date after 04/01/1976. Of those reported in O1109A1, only 000050024 qualifies.
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O1109C2 displays employees with FICA Eligibility Code M and a Hire Date before 04/01/1986. Of the one reported in O1109A2, 000050089 qualifies.

12. RUN742. Run PPP742 with the ECF’s created by PPO1109A and PPO1109B, including the pseudo-ECF. Compare the PPP7421 audit report for the number of updates of each data element. This should match the change records on the ECFs, or the PPP1800 reports.

The first SPUFI report shows PPPBAS rows with the relevant change flag on for RET_FICA_DERIVE changes. This should match the PPO1109A ECF and pseudo-ECF changes.

The second SPUFI report shows PPPBAS rows with the relevant change flags on for RET_SYS_CODE and/or MED_ELIG_CODE changes. This should match the PPO1109B ECF changes.

13. RUN745. Run the new Base program PPP745.

This program provides a list of employees whose Retirement/FICA Derivation Indicators have been changed to N or L. This information is obtained from the HDB. One report is produced; it can be produced (to the same DD) in ID or Name order. Both sorts can be selected, but at least one must be selected.

A missing SPEC card, an incorrect program ID, invalid sort flag values, or no sort selected should result in the program stopping and issuing a condition code 8.

All the changes reported in the O1109A1 and O1109A2 reports should appear on the PPP7451 report. In addition, Employee ID 000050039 that had an N value on the pseudo-ECF should also appear.

The audit report (DD WRNPRT) should show that the PPPSYS row for PPP745 has been updated with the maximum System Entry Date and System Entry Time combination on the PPPBAS table. The date/time combination should match the date/time on the PPO1109B ECF.

NOTE: if you have to rerun PPP745, you need to edit the date/time on the PPP745 row on the PPPSYS table. PPP745 only reports rows with date/times that are since the last run, so back to back runs of PPP745 will result in no output the second time.

14. RUNFM. Run File Maintenance. Online testing can be used more efficiently to check out the various new PPFICRET logical paths, but this small test confirms that the new version is working in batch also. In addition, some test cases are established for derivation in the subsequent Periodic maintenance.
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Hires:
- 800050001 to U/E 100%
- 800050002 to H/M 49%
- 800050003 to N/N student exemption
- 800050004 to U/E 50%

Rehires:
- 00000087 should re-derive from U/E to H/M. The U does not block rederivation because it is a Rehire.
- 000000089 The rehire fails because the Title Code 7777 is not on the Title Code Table. This confirms that the batch severity level of message 08-045 for a non-matching Title Code has been changed to Employee Reject.
- 000050017 has an 080196 rehire date; should be pending Ret/FICA Derivation Indicator, code 1.
- 000050018 has an 090196 rehire date; should be pending, code 1.
- 000050039 has an 080196 rehire date; should be pending, code 3.
- 000050051 was rehired with an extension of the appointment end date that looks like it should have a U Retirement Code. However, Rehire logic looks for appointment begin dates equal to or after the Hire Date, in this case 07/01/96, and finds none. So the derived Retirement Code is H.
- 000050061 has units, but Student Status is 1 so ignored. N/N rederived to U/E.
- 000050089 has an 080196 rehire date; should be pending, code 2.

- 000050013 has a 25% additional appointment starting 8/1/96. Should trigger rederivation in monthly periodic maintenance.

- 000050036 was already rederived in PPO1109B. Changing the appointment type to 1 and increasing the percentage to 50% for 8/1/96 appointment should trigger rederivation in monthly periodic maintenance.

- 000050043 has an additional 100% appointment for 8/1/96. Also, the Safety Title appointment has been terminated as of 7/31/96. Should trigger rederivation in monthly periodic maintenance.

- 000050052 has an appointment terminated 7/31/96 but a U/E so should not be rederived in monthly periodic maintenance.

- 000050053 has an appointment percent cut to 40%, but a U/E so should not be rederived.

- 000050055 and 000050057 have explicitly entered Retirement Codes (P and U) which will not be overridden by rederivation.
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000050058 have explicitly entered Retirement Code and FICA Code, plus Derivation Indicator of N, so will not be overridden by rederivation.

000050060 has units set to 10.0. Since student status already 4, should be derived to N/N.

000050068 has units set to 9.0, not enough to derive to new value.

000050075 has student status changed to 1. Has 50% appointment so H/M becomes U/E.

000050100 has student status changed to 1. Has Citizenship N with Visa Type F-1, so N/N unchanged.

000050109 has additional 80% appointment for 8/1/96. Should trigger rederivation in monthly periodic maintenance.

The PPP1800 report shows the changes on the ECF. Compare the report results, especially as it involves EDB data elements 0120 and 0122.

15. RUN130S2. PPFICRET is called for re-derivation during any of the three Special Student processes of PPP130. It is called directly from PPES101, PPES102 or PPES103.

Run PPP130 to end the academic year (PPES102). This should result in registered units being zeroed out, which affects, i.e. disallows, the student exemption from Retirement and FICA. N/N codes should be re-derived. UI codes can also be affected.

000050060, 000050070 and 800050003 should all change from N/N to H/M.

The PPP1800 report shows the changes on the ECF. Compare the report results, specifically as it involves EDB data elements 0120 and 0122.

16. RUN130. PPFICRET is called unconditionally during monthly periodic maintenance. Run PPP130 to start the next month.

000050013 has 8/1/96 appointment data which should result in U/E derivation.
000050017 was pending, should now derive. 8/1/96 appointment only 49% so H/M.
000050018 was pending, should still not derive because Separation date not passed and Hire Date not in August.
000050036 was H,M but has 8/1/96 appointment data which should result in U/E derivation.
000050039 was pending, should now derive to U/E.
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000050043 has 8/1/96 appointment data and no Safety Title, which should result in U/E derivation from U/N. But PPO1109A changed to L, so no rederivation of FICA, despite the incorrect value.

000050089 was pending, should now derive to H/M.
000050109 has 8/1/96 appointment data which should result in U/E derivation.

The PPP1800 report shows the changes on the ECF (many of which have nothing to do with Retirement and FICA derivation). Compare the report results, especially as it involves EDB data elements 0120 and 0122.

17. RUN250B. Produce a listing of the test EDB after all the updates.

END OF BATCH TESTING.
ONLINE TESTING:

If your batch and online test databases are different, unload the batch EDB and HDB after the batch testing and load into the online region. Load the original CTL into online also.

If the UHDE and USYS testing have already been performed as part of batch testing, logon to CICS and skip to step 10.

1. Logon to CICS and access the Payroll/Personnel System Administration Menu. Note: This is not a UCROUTER based function, and must be accessed via the local transaction name.

   Result: The Menu screen appears, displaying, among others, the UHDE and USYS functions.

2. Enter UHDE, and press Enter.

   Result: The ERH Control Tables Data Element screen appears.


   Result: The Obsolete Date will contain 12/31/9999 and the following message will appear:
   P0817  SysAdm: Press ENTER to continue update; PF02 to cancel.

4. Press Enter. This tests the changes to PPWUHDE.

   Result: The following message will appear:
   P0811  SysAdm: Processed Successfully

5. Press PF9 to return to the Payroll/Personnel System Administration Menu

   Result: The Menu screen reappears

6. Enter USYS, and press Enter.

   Result: The ERH Control Tables Run Control screen appears. There should be a Last EDB Update Run Time label and field.

7. Enter “a” in A/D and “PPP745” in Job Name, and press Enter.

   Result: The Last EDB Update Run Date will contain 01/01/0001, the Last EDB Update Run Time will contain 00.00.00, and the following message will appear:
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P0817 SysAdm: Press ENTER to continue update; PF02 to cancel.

8. Press Enter. This tests the changes to PPWUSYS.

Result: The following message will appear:
P0811 SysAdm: Processed Successfully

9. Press PF9 and then PF12 to exit the transaction.

Result: The following message will appear:
P0801 PAYROLL/PERSOENNEL SYSTEM ADMINISTRATION ENDED

10. Clear the screen and access the Online Applications Main Menu.

Result: The Online Applications Main Menu screen appears.

11. Enter HPER in NextFunc and 000050017 in the ID field, and press Enter.

Result: The HPER Personal Data History screen should appear. The Retirement/FICA Derivation Indicator field has been added. The label is “Ret FICA Derive;” and the value displayed should be “Y”. The Retirement and FICA Eligibility Codes have been combined, with label “Ret/FICA :” and the value displayed should be “U/E”.

12. Enter IBA1 in NextFunc, and press Enter.

Result: The IBA1 Basic Employment Data 1 screen should appear. The Retirement/FICA Derivation Indicator field has been added. The label is “Ret FICA Derive :” and the value displayed should be “Y”.

The following steps test the new PPFICRET. There are countless paths through PPFICRET, changing a title code one time, the appointment percentage another, the student status another. Continuing employees are treated differently Hire’s and Rehire’s. A Hire or Rehire bundle must be used to test that logic. For continuing employees a combination of the ERET (Retirement Eligibility Code, FICA Eligibility Code, Retirement/FICA Derivation Indicator), EPD1 (Citizenship Code, Student Status, Registered Units), EAPP (Appointment Type, Begin Date, End Date, percentage, Title Code), and EALN (Citizenship Code, Visa Type, Retirement Eligibility Code, FICA Eligibility Code, Retirement/FICA Derivation Indicator) screens can be used to test the multitude of combinations. Looping through the various screens, cutting percentages, overriding Retirement Codes, changing Student Status, etc. can be used to give the
PPFICRET code a good work out. I list only a few of the possible test cases here to confirm proper installation.

The SCR Current Date on the test EDB is 1996-08-01, and a calculated end date is 1996-08-31. This defines the “current” month which affects which appointments are considered current and thus what results from the derivation.

13. Enter the Hire bundle function in NextFunc, and press Enter. Complete the Hire bundle without entering anything for the Retirement Eligibility Code, FICA Eligibility Code or Retirement/FICA Derivation Indicator. Include at least one appointment that has a Begin Date on or after the Hire Date, an End Date at least one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-31), Appointment Type 1, a valid Title Code for UCRP (e.g. 6103 on the test PPPTCI), and 100% time. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “U” and the FICA Eligibility Code should be “E”.

14. Repeat the Hire bundle function, again without entering anything for the Retirement Eligibility Code, FICA Eligibility Code or Retirement/FICA Derivation Indicator. Include at least one appointment that has a Begin Date on or after the Hire Date, an End Date one day short of one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-30), Appointment Type 1, a valid Title Code for UCRP (e.g. 6103 on the test PPPTCI), and 100% time. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “H” and the FICA Eligibility Code should be “M”.

15. Repeat the Hire bundle function, again without entering anything for the Retirement Eligibility Code, FICA Eligibility Code or Retirement/FICA Derivation Indicator. Include at least one appointment that has a Begin Date on or after the Hire Date, an End Date at least one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-31), Appointment Type 1, a Safety Title Code (e.g. 5323 on the test PPPTCI), and 100% time. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.
Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “U” and the FICA Eligibility Code should be “M”.

16. Repeat the Hire bundle function, again without entering anything for the Retirement Eligibility Code or FICA Eligibility Code, but enter L for the Retirement/FICA Derivation Indicator. Include at least one appointment that has a Begin Date on or after the Hire Date, an End Date at least one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-31), Appointment Type 1, a valid Title Code for UCRP that is not a Safety Title Code (e.g. 6103 on the test PPPTCI), and 100% time. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “L”, The Retirement Eligibility Code should “U” and the FICA Eligibility Code should be “M”.

17. Repeat the Hire bundle function, again without entering anything for the Retirement Eligibility Code, FICA Eligibility Code or Retirement/FICA Derivation Indicator. Enter a Student Status of 3, and Registered Units of 12.0 (or whatever is sufficient on the local PPRPM table for parameter 071 to qualify as an undergraduate student). Include one appointment that has a Begin Date on or after the Hire Date, an End Date at least one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-31), Appointment Type 1, a valid Title Code for UCRP (e.g. 6103 on the test PPPTCI), and 49% time. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “N” and the FICA Eligibility Code should be “N”.

18. Repeat the Hire bundle function, entering explicitly a valid non-derivable but valid value for the Retirement Eligibility Code (e.g. P) and any valid FICA Eligibility Code, and N for the Retirement/FICA Derivation Indicator. When the Hire bundle has completed the update successfully, press PF3 to get out of the Hire bundle, and enter ERET in the NextFunc, the hired Employee ID in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “N”, The Retirement Eligibility Code and the FICA Eligibility Code should be whatever was explicitly entered.
19. Enter the Rehire bundle function in NextFunc, 000050091 (a separated employee ID) in the ID, and press Enter. Complete the Rehire bundle without entering anything for the Retirement Eligibility Code (currently U), FICA Eligibility Code (currently E) or Retirement/FICA Derivation Indicator. Enter a Student Status of 3, and Registered Units of 12.0 (or whatever is sufficient on the local PPPPRM table for parameter 071 to qualify as an undergraduate student). Include at least one appointment (other than 10 which already exists) that has a Begin Date on or after the Hire Date, an End Date at least one year later than the Begin Date (e.g. 1996-09-01 and 1997-08-31), Appointment Type 1, a valid Title Code for UCRP (e.g. 6103 on the test PPPTCI), and 30% time. When the Rehire bundle has completed the update successfully, press PF3 to get out of the Rehire bundle, and enter ERET in the NextFunc, 000050091 in the ID, and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “N” and the FICA Eligibility Code should be “N”.

20. Enter EPD1 in NextFunc, and press Enter.

Result: The EPD1 screen should appear for 000050091.

21. Reduce the Registered Units from 12.0 to 11.9 (below the valid number of units), and press Update. When the update has completed successfully, enter ERET in the NextFunc and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should “H” and the FICA Eligibility Code should be “M”.


Result: The ERET screen should appear. The update should have completed successfully, accepting the entered values.


Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should once again be “H” and the FICA Eligibility Code should be “M”.

24. Enter EAPP in NextFunc, and press Enter.
Result: The EAPP screen should appear for 000050091.

25. Use the PF8 key to reach the appointment added during the rehire. Change the percentage to 100%, and press update. When the update has completed successfully, enter ERET in the NextFunc and press Enter.

Result: The ERET screen should appear. The Retirement/FICA Derivation Indicator field should be “Y”, The Retirement Eligibility Code should still be “H” and the FICA Eligibility Code should be “M” because the appointment is next month (if you used 1996-09-01 as suggested). If you used the current month, it should rederive to U/E.

Etc. Etc. Etc.

THIS COMPLETES ONLINE TESTING.