Test Plan
RELEASE 1402

Additional Age Bracket for Life Insurance

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Information Systems & Computing
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Testing Overview

This test plan addresses the test runs and cases constructed to verify the correct installation of Release 1402. The test is made up of the following components:

1. Control Table Data Base (CTL) Initial Load (LOADCTL)
2. Employee Data Base (EDB) Initial Load (LOADEDDB)
3. VSAM Batch Control Table Updates (RUN010)
4. DB2 Control Table Updates (RUN851)
5. One-time Process (PPOT1402)
6. Monthly February Compute (COMFEBMO)
7. Update TLP File Process (RUN560)
8. Monthly Maintenance (EDBMONTH)
CONTROL TABLE (CTL) INITIAL LOAD (LOADCTL)

**Description**

This job loads the DB2 CTL database.

**Verification**

Ensure that the DB2 CTL has been successfully restored by verifying normal completion of the job and ensuring that all tables have been successfully loaded into the data base. The PDS UDB2CTL already reflects the updates applied to the DB2 Control tables.
EMPLOYEE DATA BASE (EDB) INITIAL LOAD (LOADEDDB)

**Description**

This job loads the EDB database.

**Verification**

In order to assure successful completion of this job, verify that the EDB has been successfully restored by verifying normal completion of the job and ensuring that all tables have been successfully loaded into the database.
VSAM Control Table Updates (RUN010)

Description

This job updates the VSAM BRT (Group Life Insurance) Table. Step 1, using the unmodified version of PPP010, deletes all existing records related to group life insurance on the VSAM Control PPPBRT Table. Step 2, using the modified version of PPP010, reloads the data in the VSAM PPPBRT Table using transactions containing new rates for the “Under 25” age group as well as reloading the rates for the existing age groups.

Verification

- **PPP0100 report (REPORTS PDS, member PPP0100)**

  Verify on the PPP0100 report that the following test transactions have been accepted and no error messages are issued.

  A14GLI00 020250          0052000036          00  010102
  A14GLI01 00340044005100630099017202790441069410581911  00  010102
  A14GLI02 00520062006201100122014901700170017001700170 00  010102
  A14GLI03 00260036004500540090020702880486051307921395  00  010102
  A14GLI00 020250          0052000036          NXC  010102
  A14GLI01 00240034004100530089015201790341059410381711 NXC  010102
  A14GLI02 0042005200520110011201390160016001600160  NXC  010102
  A14GLI03 00160026003500440080010701880386041306921195 NXC  010102

- **PPP0114 report (REPORTS PDS, member PPP0114)**

  Verify that the appropriate rates are displayed under each age group on the PPP0114 Report. *Note that a new “Under 25” age group column heading is displayed on the report*

  In addition, note that the column heading of “Under 30” has been replaced with the “25-29” column heading.
DB2 Control Table Update (RUN851)

Description

This job updates the DB2 PPPBRL Table using the data in the VSAM PPPBRT Table.

Verification

- **SPUFI Output** (*REPORTS PDS, member SPUFI*)

  Verify on the SPUFI output report that the appropriate rate is displayed for each minimum age column. The rates should match exactly the rates displayed on the PPP0114 Report. Note that a new row is inserted containing the rate for the Minimum Age 16 through Maximum Age of 24.

  In addition, note that the row for the Minimum Age of 25 through Minimum Age of 29 replaces the row previously for the Minimum Age of 16 through Minimum Age of 29 age group.
One-time Process (PPOT1402)

Description

The Existing Taxable Life Premium record structure must be converted to a new length of 255. An additional “Under 25” age group rate definition must be added to the existing table definition of the record.

This job converts the Taxable Life Premium (TLP) File.

Verification

Verify that the existing rates are appropriately displayed under each age group. Note that the report format of the one-time report is similar to the existing PPP5605 report. In addition, verify that the rate displayed under the "Under 25" column heading is similar to the existing rate displayed under the “25-29” column heading.
Update TLP File Process (RUN560)

Description

This job updates the Taxable Life Premium (TLP) File via update transactions.

Verification

- PPP5603 Report (*REPORTS PDS, member PPP5603*)

  Verify that message 56-049 “TLP FILE UPDATE IS SUCCESSFUL” is issued.

- PPP5605 Report (*REPORTS PDS, member PPP5605*)

  Test transactions are provided to update the rates for Rate Types “IRS”, and “00”. In addition, test transactions are provided to add rates for Rate Types “NX” and “BX”.

  Verify that the rates displayed under the “Under 25” column heading are different from the rates displayed under the “25-29” column heading. Note that the rates displayed under the other column headings should be the same as the rates displayed on the one-time report *OT14021*. 
Monthly February Compute (COMFEBMO)

Description

This job executes the MO Compute for the February monthly pay period.

Verification

Verify the Supplemental Life Premiums and Dependent Life Premiums on the PPP4401 report (REPORTS PDS, member PPP4401).

<table>
<thead>
<tr>
<th>Employee ID</th>
<th>Suppl Life Salary Base</th>
<th>Suppl Life Coverage Level</th>
<th>Age</th>
<th>Suppl Rate based on Age Bracket</th>
<th>Suppl Prem</th>
<th>Dep Life Rate based on Age Bracket</th>
<th>Dep Life Ind</th>
<th>Dep Life Prem</th>
</tr>
</thead>
<tbody>
<tr>
<td>000000001</td>
<td>185</td>
<td>4</td>
<td>23</td>
<td>0.034</td>
<td>25.16</td>
<td>0.52</td>
<td>Y</td>
<td>0.52</td>
</tr>
<tr>
<td>000050002</td>
<td>117</td>
<td>3</td>
<td>29</td>
<td>0.044</td>
<td>15.44</td>
<td>0.62</td>
<td>Y</td>
<td>0.62</td>
</tr>
<tr>
<td>000050004</td>
<td>068</td>
<td>2</td>
<td>58</td>
<td>0.441</td>
<td>59.98</td>
<td>0.486</td>
<td>S</td>
<td>33.04</td>
</tr>
<tr>
<td>000050005</td>
<td>129</td>
<td>3</td>
<td>68</td>
<td>1.058</td>
<td>409.45</td>
<td>0.792</td>
<td>S</td>
<td>153.64</td>
</tr>
<tr>
<td>000050010</td>
<td>080</td>
<td>4</td>
<td>24</td>
<td>.034</td>
<td>10.88</td>
<td>.026</td>
<td>B</td>
<td>4.52</td>
</tr>
<tr>
<td>000050032</td>
<td>021</td>
<td>2</td>
<td>39</td>
<td>0.063</td>
<td>2.65</td>
<td>N/A</td>
<td>C</td>
<td>0.36</td>
</tr>
<tr>
<td>999888008</td>
<td>048</td>
<td>2</td>
<td>24</td>
<td>0.034</td>
<td>3.26</td>
<td>0.52</td>
<td>Y</td>
<td>0.52</td>
</tr>
</tbody>
</table>

The following formulas are taken from modules PPBENXLI and PPBENDLI:

- **Supplemental Life Premium**

  If Supplemental Life Salary (EDB 0275) greater than Maximum Salary Base of 250, set Life Salary Base to 250. Otherwise set Life Salary Base to Supplemental Life Salary.

  Coverage Amount = Life Salary Base x Supplemental Plan Code (EDB 0276)

  Supplemental Life Premium = Coverage Amount x Supplemental Rate associated with employee’s age
• **Basic Dependent Life Premium**

  Basic Dependent Life Premium = (Dependent Life Rate associated with employee’s age from BRT Table)

• **Expanded Dependent Life Premium (Child(ren) Only)**

  Expanded Dependent Life Premium (Child(ren) Only) = 0.36

• **Expanded Dependent Life Premium (Spouse or Domestic Partner only)**

  If Supplemental Life Salary (EDB 0275) greater than Maximum Salary Base of 250, set Life Salary Base to 250. Otherwise set Life Salary base to Supplemental Life Salary.

    Coverage Amount = Life Salary Base x Supplemental Plan Code (EDB 0276)

  If Executive Life Plan Code (EDB 0356) is not equal to ‘0’ or ‘X’, and Executive Life Salary Base (EDB 0357) is greater than the Maximum Salary Base in System Parameter Entry 274 (value of 400), set Executive Salary Base to Maximum Salary Base of 400.

    Executive Life Salary Base = Executive Life Salary Base x Executive Plan Ind (EDB 0356)

    If calculated Executive Life Salary Base is greater than calculated Coverage Amount, set calculated Salary Base to Executive Life Salary Base.

    Divide calculated Salary Base by 2 rounded. If calculated Salary Base is greater than Spousal Limit of 200, set calculated Salary Base to Spousal limit of 200.

  Expanded Dependent Life Premium (Spouse or Domestic Partner Only) = calculated Salary Base x Expanded Dependent Life Rate associated with employee’s age.

• **Expanded Dependent Life Premium (Spouse or Domestic Partner and Child(ren))**

  If Supplemental Life Salary (EDB 0275) greater than Maximum Salary Base of 250, set Life Salary Base to 250. Otherwise set Life Salary base to Supplemental Life Salary.

    Coverage Amount = Life Salary Base x Supplemental Plan Code (EDB 0276)
If Executive Life Plan Code (EDB 0356) is not equal to ‘0’ or ‘X’, and Executive Life Salary Base (EDB 0357) is greater than the Maximum Salary Base in System Parameter Entry 274 (value of 400), set Executive Salary Base to Maximum Salary Base of 400.

Executive Life Salary Base = Executive Life Salary Base x Executive Plan Ind (EDB 0356)

If calculated Executive Life Salary Base is greater than calculated Coverage Amount, set calculated Salary Base to Executive life Salary Base.

Divide calculated Salary Base by 2 rounded. If calculated Salary Base is greater than Spousal Limit of 200, set calculated Salary Base to Spousal limit of 200.

Expanded Dependent Life Premium (Spouse or Domestic Partner and Child(ren)) = (calculated Salary Base x Expanded Dependent Life Rate associated with employee’s age) + 0.36.

Note that calculated premium for Spouse or Domestic Partner and Child(ren) is computed as the premium for Spouse or Domestic Partner plus 0.36 for coverage of child(ren).
Monthly Maintenance (EDBMAINT)

Description
This job executes Monthly Periodic Maintenance to begin March

Verification

<table>
<thead>
<tr>
<th>Employee ID</th>
<th>Exec Life Salary Base</th>
<th>Exec Life Ind</th>
<th>Age</th>
<th>IRS Rate based on age bracket</th>
<th>Imputed Income for February</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000000001</td>
<td>300</td>
<td>2</td>
<td>24</td>
<td>.050</td>
<td>30.00</td>
</tr>
<tr>
<td>0000500002</td>
<td>117</td>
<td>2</td>
<td>30</td>
<td>.080</td>
<td>18.72</td>
</tr>
<tr>
<td>0000500003</td>
<td>293</td>
<td>2</td>
<td>70</td>
<td>2.060</td>
<td>1,207.16</td>
</tr>
<tr>
<td>999888008</td>
<td>480</td>
<td>2</td>
<td>25</td>
<td>.060</td>
<td>48.00</td>
</tr>
</tbody>
</table>

Executive Life Imputed Income = (Executive Life Salary Base (EDB 0357) x Executive Life Ind (EDB 0356) x (IRS Rate from TLP Table)

PPP6601 Report (REPORTS PDS, member PPP6601)

Verify the employee’s calculated imputed income on the PPP6601 report using the table above.

Note that the executive salary base of 480 for Employee ID 999888008 is over the maximum salary base of 400. Therefore, the maximum salary base of 400 is used in the calculation (400 x 2 x .060 = 48.00).