## IASB Agenda ref

#### FASB Agenda ref 83J

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21 May - 24 May 2012

## STAFF PAPER

## FASB | IASB Meeting

| Project     | Insurance Cont  | racts             |                  |
|-------------|---|-------------------|------------------|
| Paper topic | The mechanics of using OCI to present specified changes in the insurance contract liability |                   |                  |
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This paper is identical to AP2C/82C that was discussed at the joint education session in *April* 2012. The questions in this paper are superseded by the questions in AP2G/83G Summary of questions and staff recommendations for using OCI for insurance contracts.

## What is this paper about?

- This is the third paper in a series of four papers on consideration of the use of other
  comprehensive income. The purpose of this paper is to ask the boards to consider the
  mechanics of recording changes in the insurance liability arising from changes in the
  discount rate in OCI.
- 2. Agenda Paper 2A<sup>1</sup>/82A contains background information on the use of OCI.

<sup>1</sup> Agenda paper references are to the papers posted for the April 2012 education session

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- 3. Agenda Paper 2B/82B asks the boards to consider the use of OCI to record changes in the insurance contract liability arising from changes in specified assumptions.
- 4. Agenda Paper 2D/82D discusses whether cumulative gains and loss arising from the remeasurement of the insurance liability recognised in OCI should be reclassified from OCI to profit and loss under specified circumstances.
- 5. Agenda paper 2E/82E provides a comprehensive example of how OCI can be used to present changes in the insurance liability arising from changes in interest rates.
- 6. This paper will be discussed at a non-decision making joint education session. We plan to ask the boards to make decisions on these issues at the joint meeting in May.

## Staff analysis

## What should be recognised as interest expense in net income?

- 7. In agenda paper 2B/82B, the staff recommend that the effect on the insurance liability of changes in the discount rate should be recorded in OCI. In this section we discuss the interest rate that should be used to determine interest expense in net income.
- 8. The staff considered three alternatives for determining what should be recognized in the profit or loss:
  - (a) Interest equal to the expected long term return on assets
  - (b) Interest equal to the current rate at the beginning of the reporting period
  - (c) Interest at the rate locked in at inception of the contract.
- 9. Some believe that using an adjusted asset based discount rate (e.g., the expected return on assets) in net income reflects an insurer's business model. Under this approach, an insurer would:
  - (a) In net income, report interest expense using the long-term rate the insurer expects to earn on its investments (i.e., a rate determined based on a probability-weighted estimate of the net cash inflows that it expects to earn on

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- its investments, net of expected defaults/losses, after deducting a risk adjustment)
- (b) In OCI, report the difference between discounting the liability using the current discount rate (based on the boards' tentative decision) and the long-term expected rate of return on investments.
- 10. Using an asset based discount rate in net income would reduce any accounting mismatch between interest income and interest expense. However, it also masks any economic mismatch that exists between the insurance liability and assets backing that liability. In addition, the staff believe using an asset-based discount rate in net income is inconsistent with the boards' decision that the discount rate used to measure the insurance liability should reflect the characteristics of the liability. Therefore, the staff did not explore this alternative further.
- 11. Some respondents to the ED stated that it is important that interest expense reported in net income is based on a current rate. However, they believed that the effect of changes in interest rates should be presented in OCI. To achieve this:
  - (a) the interest expense reported in net income would be based upon the interest rate at the start of the reporting period;
  - (b) the effect of changes in the interest rate from period to period would be shown in OCI.
- 12. However, this approach has a number of problems:
  - (a) It fails to meet one of the objectives of using OCI in that it introduces a new accounting mismatch in net income. Interest expense is based upon the interest rate at the start of the reporting period; however, interest income (if assets are recorded at amortised cost or FV-OCI) is based on a locked-in historic rate.
  - (b) Under this approach, amounts recorded in OCI do not naturally reverse to zero by the end of the insurance contract.

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- 13. The staff believe recognizing total interest expense equal to the discount rate at contract initiation (ie the locked-in rate) has the following advantages:
  - (a) It achieves one of the objectives of using OCI in that it reduces accounting mismatch in net income if assets are measured at amortised cost or FV-OCI;
  - (b) The amount recorded in net income and OCI is easily explained to users. The total interest expense each year is based upon rates locked in at inception (similar to amortised cost); OCI is equal to the difference between the liability at the locked in rate and the current rate.
  - (c) The amount recorded in OCI will naturally reverse to zero by the end of the insurance contract
  - 14. Based on the above, the staff believe that total interest expense recorded in net income should be based on the interest rate at contract inception. The rest of this paper assumes that the boards agree with this view.

## How should interest expense be presented in net income?

- 15. The staff has identified two alternatives for how OCI could be used to reflect changes in the discount rate which are illustrated in Appendix A:
  - (a) Alternative A—Present interest expense in net income calculated using the discount rate locked in at inception. Present in OCI other changes in the insurance liability arising from changes in the discount rate.
  - (b) Alternative B— Present in net income interest expense calculated using the current discount rate plus an amount transferred to/from OCI such that the total interest expense in net income is equal to interest calculated using the discount rate locked in at inception.

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Alternative A—Use OCI and present interest expense using the locked in rate

- 16. Under this alternative, interest expense presented in net income would be calculated using the discount rate at inception. Other changes in the insurance liability arising from changes in the discount rate would be recognized in OCI. Under this approach, the amount included in accumulated other comprehensive income ("AOCI") equals the difference between the present value of the remaining cash flows discounted at the current rate and the present value of the remaining cash flows discounted at the locked in rate.
- 17. Presenting interest expense using the initial discount rate throughout the life of the liability would be consistent with the effective interest approach in IAS 39, *Financial Instruments, Recognition and Measurement*.
- 18. This is also consistent with ASC Topic 310-30-35-2
  - Upon completion of a transfer of a loan, this Subtopic requires that the investor (transferee) shall recognize the excess of all cash flows expected at acquisition over the investor's initial investment in the loan as interest income on a **level-yield basis over the life of the loan** (accretable yield The excess of a loan's cash flows expected to be collected over the investor's initial investment in the loan.)
- 19. In addition, at the January 27, 2012 FASB Board meeting, the Board tentatively decided that, "...for purchased financial assets with an explicit expectation of credit losses, favorable changes in cash flows expected to be collected would be recognized immediately in profit or loss as an adjustment to the impairment expense." Implicit in this tentative decision is that the yield rate is locked in and thus is consistent with this alternative.

Alternative B— Use OCI and present interest expense using the current rate plus an amount transferred from OCI to net income

20. Under this alternative, interest expense presented in net income would be calculated using the current discount rate. An amount would then be shown transferred from net income to OCI such that the total interest expense in net income is equal to interest

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calculated using the discount rate locked in at inception. As with alternative A, changes in the insurance liability arising from changes in the discount rate would be recognized in OCI. The amount reported in AOCI would equal the difference between the present value of the remaining cash flows discounted at the current rate and the present value of the remaining cash flows discounted at the initial rate.

- 21. US GAAP has a requirement to identify items that are displayed as part of net income for a period that also had been displayed as part of OCI in that period or earlier periods.
  - (a) ASC topic 320-10-50-9 requires entities to disclose "The amount of the net unrealized holding gain or loss on available-for-sale securities for the period that has been included in accumulated other comprehensive income and the amount of gains and losses reclassified out of accumulated other comprehensive income into earnings for the period".
  - (b) In June 2011, the FASB issued Accounting Standards Update No. 2011-05, Comprehensive Income (Topic 220): Presentation of Comprehensive Income which required entities to present reclassification adjustments to show the effect of reclassifications on both the components of other comprehensive income and the components of net income in interim and annual financial statements.
- 22. Before the issuance of Update 2011-05, under U.S. GAAP, preparers had the option to present reclassification adjustments out of accumulated other comprehensive income either on the face of the financial statement in which comprehensive income is reported or in the notes to the financial statements. Also, before the Update's issuance, U.S. GAAP did not require that the impact of reclassification adjustments on the components of net income be presented in the financial statements. In general, users have indicated a preference to have reclassification adjustments, and their effect on net income, presented on the face of the statement of comprehensive income. Users noted that such a presentation would provide users with more straightforward and detailed information that could be analyzed more easily.

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- 23. Update 2011-05 was deferred based on stakeholder feedback that noted difficulty in gathering the information necessary to present the impact of reclassification adjustments on the face of the statement where net income is presented, particularly for interim financial statements. Collection of this information may be especially difficult for reclassifications of OCI that are initially reported in a balance sheet account (such as certain pension-related costs capitalized as inventory) and subsequently reclassified to net income at a later date together with other items of net income. However, the staff do not believe that the reasons for the deferral apply to the unwind of the discount rate in excess of or less than the discount rate set at contract initiation and therefore could still be a viable adjustment to include in the face financials.
- 19. Alternative B is akin to the two-step presentation proposal for changes in credit risk in IASB's exposure draft *Fair Value Option for Financial Liabilities*. Under the approach in that ED, the entity would present the entire fair value change in the liability in profit or loss. Secondly, the entity would 'back out' from profit or loss the portion of the fair value change attributable to changes in the liability's credit risk and present that amount in OCI. An alternate one-step approach was presented in the ED whereby the effects of changes in liabilities' credit risk would be reported directly in OCI. Most respondents to the ED did not support the two-step presentation because:
  - (a) there is little (if any) added benefit of the 'gross' presentation in the two-step approach and the extra line items on the face of the performance statement result in unnecessary 'clutter'.
  - (b) The one-step approach provides users with the same information as the twostep approach but is less complicated and more efficient (eg it requires fewer line items in the performance statement).

## Comparison of the approaches

|   | Alternative A | Alternative B |
|---|---------------|---------------|
| Eliminates an accounting mismatch in net income if    | Advantage     | Advantage     |
| the assets are held at fair value through OCI or      |               |               |
| amortized cost. This reduces volatility in the income |               |               |

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| statement.   |                |              |
|--|----------------|--------------|
| Short term changes in discount rate are recognized in  | Advantage      | Advantage    |
| OCI rather than net income. Some believe that this     |                |              |
| better reflects the long-term nature of insurance.     |                |              |
| The effects of the changes in the discount rate are    | Advantage      | Advantage    |
| segregated in OCI providing useful information         |                |              |
| while addressing the concerns that the volatility in   |                |              |
| the discount rate would over shadow the                |                |              |
| performance of the insurer (see paragraph XX).         |                |              |
| Provides information about the current rate and the    | Disadvantage   | Advantage    |
| amount transferred from OCI to net income              | (could require | _            |
|  | disclosure)    |              |
| Accounting mismatch arises in profit and loss when     | Disadvantage   | Disadvantage |
| assets are measured at fair value through profit and   |                |              |
| loss.  |                |              |
| An entity would have to track the locked in discount   | Disadvantage   | Disadvantage |
| rate for each portfolio of contracts and within that   |                |              |
| portfolio by similar inception dates (as the locked in |                |              |
| rate will vary depending on when the contract is       |                |              |
| issued). These contracts would then need to be         |                |              |
| tracked through future periods and compared to the     |                |              |
| present value of the cash flows at the new current     |                |              |
| rate to determine the adjustment to OCI. <sup>2</sup>  |                |              |

## **Staff Views**

- 20. Both alternatives minimize the accounting mismatch caused by recording changes in the insurance liability arising from the changes in the discount rate in net income if assets are recorded at fair value through OCI or amortized cost.
- 21. The staff recommend Alternative A, under which insurers will present in:
- (a) Net income interest expense using the discount rate locked in at inception of the insurance contract;
- (b) OCI changes in the liability arising from changes in discount rate.

## **Question 1: Mechanics**

What are the boards views regarding alternative A and alternative B?

<sup>&</sup>lt;sup>2</sup> While this adds complexity, insurers track this today, especially for products that are accounted for using locked in discount rates.

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Alternative A—Present interest expense in net income calculated using the discount rate locked in at inception. Present in OCI other changes in the insurance liability arising from changes in the discount rate.

Alternative B— Present in net income interest expense calculated using the current discount rate plus an amount transferred to/from OCI such that the total interest expense in net income is equal to interest calculated using the discount rate locked in at inception.

## What discount rate should be applied to changes in assumptions?

- 22. The staff considered whether the current discount rate or the initial locked-in discount rate should be applied to changes in assumptions such as increases in the expected cash outflows when calculating the interest expense to be presented in net income. Example 5 in Appendix A illustrates the alternatives for what discount rate should be applied to changes in expected cash flows.
- 23. Some believe that in order to properly recognize the full effect of an increase in the expected cash flows in net income at the time expectations change, the increase in the expected cash flows would have to be discounted at the then current rate (with no effect on OCI). In future periods, the current rate would become the locked in rate for those cash flows. This would be consistent with the view that an increase in the liability is the establishment of a new liability. An extreme example is if an insurer believes there are no claims left on an existing portfolio and therefore has no liability recorded. Subsequently, it is determined that the insurer is obligated to pay for claims. This was the case with asbestos claims and other similar situations as well as with many claims that involve lawsuits.
- 24. In regards to resetting the discount rate for changes in expected cash flows, US GAAP guidance requires the yield to be updated for financial assets in several circumstances.

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- (a) ASC Topic 320-10-35-35 states: "In periods after the recognition of an other-than-temporary impairment loss for debt securities, an entity shall account for the other-than-temporarily impaired debt security as if the debt security had been purchased on the measurement date of the other-than-temporary impairment at an amortized cost basis equal to the previous amortized cost basis less the other-than-temporary impairment recognized in earnings.... For all other debt securities, if upon subsequent evaluation, there is a significant increase in the cash flows expected to be collected or if actual cash flows are significantly greater than cash flows previously expected, such changes shall be accounted for as a prospective adjustment to the accretable yield....

  Subsequent increases and decreases (if not an other-than-temporary impairment) in the fair value of available-for-sale securities shall be included in other comprehensive income."
- (b) ASC Topic 325-40-35-4, Beneficial Interests in Securitized Financial Assets, states: "If upon evaluation...based on current information and events there is a favorable (or an adverse) change in cash flows expected to be collected from the cash flows previously projected, then the investor shall recalculate the amount of accretable yield for the beneficial interest on the date of evaluation as the excess of cash flows expected to be collected over the beneficial interest's reference amount. The reference amount is equal to the initial investment minus cash received to date minus other-than-temporary impairments recognized in earnings to date ... plus the yield accreted to date...The adjustment shall be accounted for prospectively as a change in estimate in conformity with Topic 250, with the amount of periodic accretion adjusted over the remaining life of the beneficial interest."
- 25. However, under the expected interest rate method for financial instruments in IAS 39, changes in expected cash flows are discounted using the original effective interest rate (ie the locked in rate).

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- 26. In addition, a question arises on how to isolate a change in the discount rate applied due to a change in expected payout patterns (e.g., a different rate on the yield curve would be applied to the different timing in expected cash payments) and a change in the discount rate because of market movements (and potential changes in asset mix if using a top-down approach<sup>3</sup> to determine the discount rate).
- 27. For increases in the expected cash flows or for changes in timing of the cash flows, isolating the changes in the insurance liability related to the change in discount rate would be challenging. For example, the staff believes that an entity would have to layer the cash flows within the liability and the discount rates used to initially recognize the liability and each of the changes to the cash flows. These layers would then need to be tracked through future periods and compared to the present value of the cash flows at the new current rate to determine the adjustment to OCI.
- 28. The staff considered how the layers described in the preceding paragraph would be consumed by cash out flows. The staff believe that because the changes in the assumptions would impact all contracts within a group of contracts or within the portfolio (for instance an increase in the price of building materials in a geographic area to a property casualty insurer, or change in mortality within a group of life insurance contracts), the layers should be relieved proportionally, unless the actual pattern of payout can be identified differently.
- 29. The staff also considered how to treat decreases in expected cash flows. However the staff believe that decreases in cash flows could only be unwound at the rate those amounts were initially discounted at.

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<sup>&</sup>lt;sup>3</sup> The Boards tentatively decided that in applying the top-down approach:

<sup>1.</sup> An insurer should determine an appropriate yield curve based on current market information. This may be based on the insurers' determination of the yield curve for the insurance contract liability on a yield curve that reflects current market returns for the actual portfolio of assets the insurer holds or for a reference portfolio of assets with characteristics similar to those of the insurance contract liability.

<sup>2.</sup> If there are no observable market prices for some points on that yield curve, the insurer should use an estimate that is consistent with the Boards' guidance on fair value measurement, in particular for Level 3 fair value measurement.

<sup>3.</sup> The cash flows of the instruments should be adjusted so that they reflect the characteristics of the cash flows of the insurance contract liability. In adjusting the cash flows, the insurer should make both of the following adjustments: Type I, which adjusts for differences between the timing of the cash flows to ensure that the assets in the portfolio (actual or reference) selected as a starting point are matched with the duration of the liability cash flows; Type II, which adjusts for risks inherent in the assets that are not inherent in the liability. In the absence of an observable market risk premium for risks inherent in the asset but not inherent in the liability, the insurer uses an appropriate technique to determine that market risk premium, consistent with (2).

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30. The staff believe that applying the current discount rate to changes in assumptions, such as increases in the expected cash outflows to calculate the amount presented in net income, would significantly complicate the model without much benefit.

# Question 2: What discount rate should be used for changes in expected cash flows?

What are the boards views regarding whether interest expense presented in net income in respect of changes in expected cash flows should be based on the discount rate locked in at inception of the insurance contract?

## **Appendix A: Illustrative examples**

A1. The following examples illustrate alternatives A and B and the effect of discounting changes in cash flows at a current discount rate.

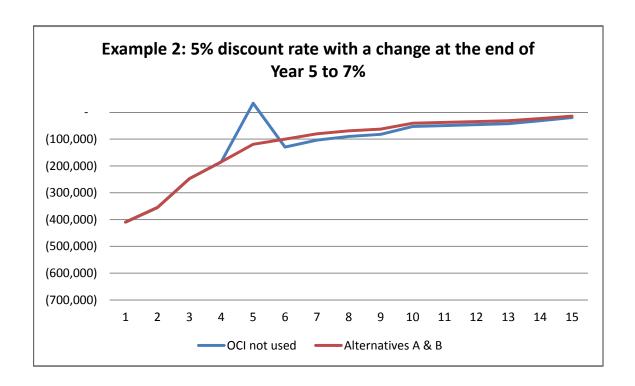
## Assumptions

- A2. The staff performed an analysis of a portfolio of insurance contracts with expected payouts of CU10 million over 15 years to illustrate Alternatives A and B compared to the IASB's ED and the FASB's DP which required changes to be recorded to profit or loss. The following five examples are presented:
  - (a) Example 1 is a baseline with a 5% discount rate throughout the 15 years
  - (b) Example 2 also uses a 5% discount rate with a change at the end of Year 5 to 7%
  - (c) Example 3 uses the 5% discount rate with a change at the end of Year 5 to 3%
  - (d) Example 4 demonstrates the impact of annual changes in the discount rate
  - (e) Example 5 uses a 5% discount rate with a change to 7% at the end of Year 5; expected cash flow change at the end of Year 8 and a discount rate change to 8% at end of Year 10

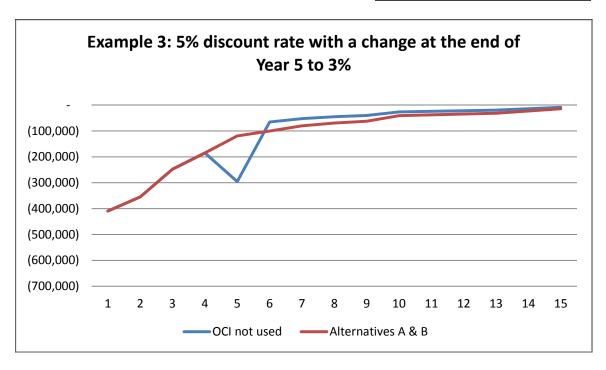
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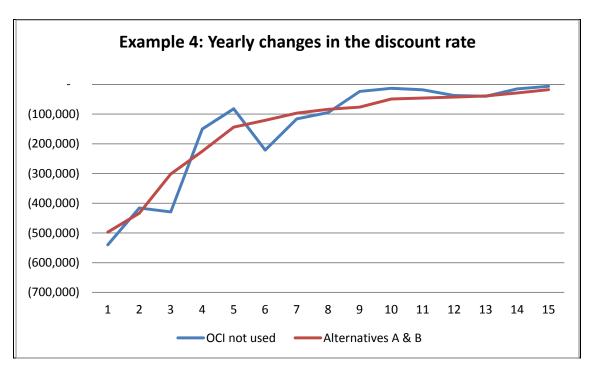
#### Summary of Effect on Net Income

- A3. The effects of Alternatives A & B are identical. As such, one line is shown to reflect both alternatives.
- A4. Example 2 shows that when not using OCI a large gain results when the discount rate increases and subsequent earnings are slightly lower.
- A5. Example 3 shows that when not using OCI a large loss results when the discount rate decreases and subsequent earnings are slightly higher.
- A6. Example 4 shows the same effects as Examples 2 and 3, along with the increased volatility that comes with a rate change each period.
- A7. Example 5 illustrates the effect of discounting changes in cash flows at a current discount rate.

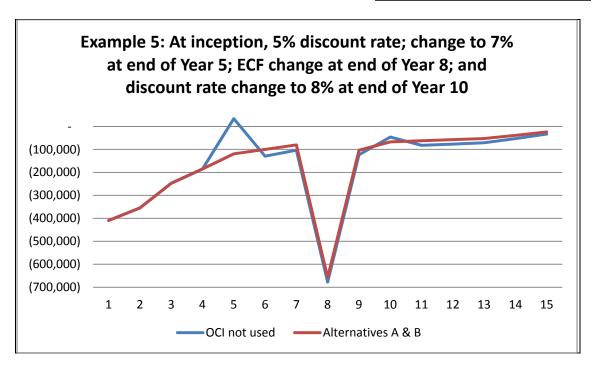


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Example 1 - 5% discount rate with no change

| Year                         | 1           | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 9                        | 10          | 11          | 12          | 13          | 14          | 15          | Total             |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Expected Cash Outflows       | 1,500,000   | 2,500,000   | 1,500,000   | 1,500,000   | 500,000     | 500,000     | 300,000     | 200,000     | 500,000                  | 100,000     | 100,000     | 100,000     | 200,000     | 200,000     | 300,000     | 10,000,000        |
| Gross ECF remaining          | 10,000,000  | 8,500,000   | 6,000,000   | 4,500,000   | 3,000,000   | 2,500,000   | 2,000,000   | 1,700,000   | 1,500,000                | 900,000     | 900,000     | 800,000     | 700,000     | 500,000     | 300,000     |                   |
| Less: PV of ECF remaining    | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 2,004,924   | 1,605,170   | 1,385,429   | 1,254,700                | 817,435     | 758,307     | 696,222     | 631,033     | 462,585     | 285,714     |                   |
| Effect of discounting        | 1,811,371   | 1,401,940   | 1,047,037   | 799,389     | 614,358     | 495,076     | 394,830     | 314,571     | 245,300                  | 82,565      | 141,693     | 103,778     | 68,967      | 37,415      | 14,286      |                   |
| Balance Sheet - ECF Rollf    | orward      |             |             |             |             |             |             |             |                          |             |             |             |             |             |             |                   |
| (beginning)                  | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 2,004,924   | 1,605,170   | 1,385,429   | 1,254,700                | 817,435     | 758,307     | 696,222     | 631,033     | 462,585     | 285,714     |                   |
| Accretion on ECF*            | 409,431     | 354,903     | 247,648     | 185,031     | 119,282     | 100,246     | 80,259      | 69,271      | 62,735                   | 40,872      | 37,915      | 34,811      | 31,552      | 23,129      | 14,286      | 1,811,371         |
| Actual payout                | (1,500,000) | (2,500,000) | (1,500,000) | (1,500,000) | (500,000)   | (500,000)   | (300,000)   | (200,000)   | (500,000)                | (100,000)   | (100,000)   | (100,000)   | (200,000)   | (200,000)   | (300,000)   | (10,000,000)      |
| PV of ECF remaining (ending) | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 2,004,924   | 1,605,170   | 1,385,429   | 1,254,700   | 817,435                  | 758,307     | 696,222     | 631,033     | 462,585     | 285,714     | (0)         | 12 0 000 0        |
| Income Statement             |             |             |             |             |             |             |             |             |                          |             |             |             |             |             |             |                   |
| ECF Accretion*               | (409,431)   | (354,903)   | (247,648)   | (185,031)   | (119,282)   | (100, 246)  | (80, 259)   | (69,271)    | (62,735)                 | (40,872)    | (37,915)    | (34,811)    | (31,552)    | (23,129)    | (14,286)    | (1,811,371)       |
| Net I/S effect               | (409,431)   | (354,903)   | (247,648)   | (185,031)   | (119,282)   | (100,246)   | (80,259)    | (69,271)    | (62,735)                 | (40,872)    | (37,915)    | (34,811)    | (31,552)    | (23,129)    | (14,286)    | (1,811,371)       |
| Balance Sheet - Equity Rol   | llfor₩ard   |             |             |             |             |             |             |             |                          |             |             |             |             |             |             |                   |
| Beginning Equity             | -           | (409, 431)  | (764,334)   | (1,011,983) | (1,197,013) | (1,316,295) | (1,416,541) | (1,496,800) | (1,566,071)              | (1,628,806) | (1,669,678) | (1,707,594) | (1,742,405) | (1,773,956) | (1,797,086) |                   |
| OCI                          | -           | -           | -           | -           | -           | -           | -           | -           | The second second second | -           | -           | -           | -           | -           | -           | •                 |
| Net Income                   | (409, 431)  | (354,903)   | (247,648)   | (185,031)   | (119,282)   | (100, 246)  | (80,259)    | (69,271)    | (62,735)                 | (40,872)    | (37,915)    | (34,811)    | (31,552)    | (23,129)    | (14,286)    | (1,811,371)       |
| Ending Equity                | (409,431)   | (764,334)   | (1,011,983) | (1,197,013) | (1,316,295) | (1,416,541) | (1,496,800) | (1,566,071) | (1,628,806)              | (1,669,678) | (1,707,594) | (1,742,405) | (1,773,956) | (1,797,086) | (1,811,371) | - 19th / 15th a 5 |

\* ECF Accretion is calculated as the PV of ECF remainning (beginning) multiplied by the current discount rate.

Example 2 - 5% discount rate with a change at the end of Year 5 to 7%

| Year                         | 1           | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14          | 15          | Total        |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Expected Cash Outflovs       | 1,500,000   | 2,500,000   | 1,500,000   | 1,500,000   | 500,000     | 500,000     | 300,000     | 200,000     | 500,000     | 100,000     | 100,000     | 100,000     | 200,000     | 200,000     | 300,000     | 10,000,000   |
| Gross ECF remaining          | 10,000,000  | 8,500,000   | 6,000,000   | 4,500,000   | 3,000,000   | 2,500,000   | 2,000,000   | 1,700,000   | 1,500,000   | 900,000     | 900,000     | 800,000     | 700,000     | 500,000     | 300,000     |              |
| Less: PV of ECF remaining    | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 1,851,930   | 1,481,565   | 1,285,274   | 1,175,244   | 757,511     | 710,536     | 660,274     | 606,493     | 448,948     | 280,374     |              |
| Effect of discounting        | 1,811,371   | 1,401,940   | 1,047,037   | 799,389     | 614,358     | 648,070     | 518,435     | 414,726     | 324,756     | 142,489     | 189,464     | 139,726     | 93,507      | 51,052      | 19,626      |              |
| Balance Sheet - ECF Rollf    | orward      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |
| (beginning)                  | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 1,851,930   | 1,481,565   | 1,285,274   | 1,175,244   | 757,511     | 710,536     | 660,274     | 606,493     | 448,948     | 280,374     |              |
| Accretion on ECF*            | 409,431     | 354,903     | 247,648     | 185,031     | 119,282     | 129,635     | 103,710     | 89,969      | 82,267      | 53,026      | 49,738      | 46,219      | 42,455      | 31,426      | 19,626      | 1,964,366    |
| Change in discount rate      | -           | -           | -           | -           | (152,994)   | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | (152,994)    |
| Actual payout                | (1,500,000) | (2,500,000) | (1,500,000) | (1,500,000) | (500,000)   | (500,000)   | (300,000)   | (200,000)   | (500,000)   | (100,000)   | (100,000)   | (100,000)   | (200,000)   | (200,000)   | (300,000)   | (10,000,000) |
| PV of ECF remaining (ending) | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 1,851,930   | 1,481,565   | 1,285,274   | 1,175,244   | 757,511     | 710,536     | 660,274     | 606,493     | 448,948     | 280,374     | -           |              |
| Income Statement (if OCI i   | not used)   |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |
| Accretion*                   | (409, 431)  | (354,903)   | (247,648)   | (185,031)   | (119,282)   | (129,635)   | (103,710)   | (89,969)    | (82,267)    | (53,026)    | (49,738)    | (46,219)    | (42,455)    | (31,426)    | (19,626)    | (1,964,366)  |
| Change in discount rate      | -           | -           | -           | -           | 152,994     | -           | _           | -           | -           | -           | -           | -           | -           | -           | -           | 152,994      |
| Net I/S effect               | (409,431)   | (354,903)   | (247,648)   | (185,031)   | 33,712      | (129,635)   | (103,710)   | (89,969)    | (82,267)    | (53,026)    | (49,738)    | (46,219)    | (42,455)    | (31,426)    | (19,626)    | (1,811,371)  |
| Balance Sheet - Equity Rol   | llforward   |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |
| Beginning Equity             | -           | (409,431)   | (764,334)   | (1,011,983) | (1,197,013) | (1,163,301) | (1,292,936) | (1,396,646) | (1,486,615) | (1,568,882) | (1,621,908) | (1,671,645) | (1,717,864) | (1,760,319) | (1,791,745) |              |
| oci                          | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -            |
| Net Income                   | (409,431)   | (354,903)   | (247,648)   | (185,031)   | 33,712      | (129,635)   | (103,710)   | (89,969)    | (82,267)    | (53,026)    | (49,738)    | (46,219)    | (42,455)    | (31,426)    | (19,626)    | (1,811,371)  |
| Ending Equity                | (409,431)   | (764,334)   | (1,011,983) | (1,197,013) | (1,163,301) | (1,292,936) | (1,396,646) | (1,486,615) | (1,568,882) | (1,621,908) | (1,671,645) | (1,717,864) | (1,760,319) | (1,791,745) | (1,811,371) |              |

| Year OCI/AOCI Change in discount rate Transfer out of AOCI               | -                   | 2              | 3                  | 4                | 5                | 6                | 7                  | 8                 | 9                 | 10                 | 11               | 12              | 13               | 14                 | 15                   | T-4-1   |
|--|---------------------|----------------|--------------------|------------------|------------------|------------------|--------------------|-------------------|-------------------|--------------------|------------------|-----------------|------------------|--------------------|----------------------|---|
| Change in discount rate  | -                   |                |                    |                  |                  |                  |                    |                   | 9                 | 10                 |                  | 12              |                  | 17                 | 10                   | Total   |
| 1,033,000  | -                   |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    |                      | -5100-5100  |
| Transfer out of AOCI   |                     | -              |                    | -                | 152,994          | -                | -                  | -                 | -                 | -                  | -                | -               | -                | -                  | -                    | 152,994   |
|  |                     | -              |                    | -                | -                | (29,389)         | (23,451)           | (20,698)          | (19,532)          | (12,154)           | (11,822)         | (11,408)        | (10,903)         | (8,297)            | (5,340)              | (152,994)   |
| AOCI   | -                   | -              |                    | -                | 152,994          | 123,605          | 100,154            | 79,457            | 59,925            | 47,771             | 35,948           | 24,540          | 13,638           | 5,340              | (0)                  | -   |
| Income Statement   |                     |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    | 1 59385349 W.J. S.W. | 11900-000000000000000000000000000000000   |
| ECF Accretion"   | (409,431)           | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)           | (37,915)         | (34,811)        | (31,552)         | (23,129)           | (14,286)             | (1,811,371)   |
| Net I/S effect   | (409,431)           | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)           | (37,915)         | (34,811)        | (31,552)         | (23,129)           | (14,286)             | (1,811,371)   |
| Balance Sheet - Equity Rollf   | orward              |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    |                      |   |
| Beginning Equity   |                     | (409,431)      | (764,334)          | (1,011,983)      | (1,197,013)      | (1,163,301)      | (1,292,936)        | (1,396,646)       | (1,486,615)       | (1,568,882)        | (1,621,908)      | (1,671,645)     | (1,717,864)      | (1,760,319)        | (1,791,745)          |   |
| OCI  |                     | -              | -                  | -                | 152,994          | (29,389)         | (23,451)           | (20,698)          | (19,532)          | (12,154)           | (11,822)         | (11,408)        | (10,903)         | (8,297)            | (5,340)              | (0)   |
| Net Income   | (409, 431)          | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (100, 246)       | (80,259)           | (69,271)          | (62,735)          | (40,872)           | (37,915)         | (34,811)        | (31,552)         | (23,129)           | (14,286)             | (1,811,371)   |
| Ending Equity  | (409,431)           | (764,334)      | (1,011,983)        | (1,197,013)      | (1,163,301)      | (1,292,936)      | (1,396,646)        | (1,486,615)       | (1,568,882)       | (1,621,908)        | (1,671,645)      | (1,717,864)     | (1,760,319)      | (1,791,745)        | (1,811,371)          | . The 20 to 100 |
| Alternative B: Use OCI and p   | resent accreti      | ion at curren  | t rate and pre     | sent amount      | reclassified t   | o NI             |                    |                   |                   |                    |                  |                 |                  |                    |                      |   |
| Year   | 1                   | 2              | 3                  | 4                | 5                | 6                | 7                  | 8                 | 9                 | 10                 | 11               | 12              | 13               | 14                 | 15                   | Total   |
| OCIFAOCI   |                     |                |                    |                  |                  |                  |                    |                   |                   | 120 2000           |                  |                 |                  |                    |                      |   |
| Change in discount rate  | -                   | - 1            |                    | -                | 152,994          | -                | -                  | -                 | -                 | -                  | -                | -               | -                | -                  | 1 (1-)               | 152,994   |
| Reclassification to NI***  | -                   | -              |                    | -                | -                | (29,389)         | (23,451)           | (20,698)          | (19,532)          | (12, 154)          | (11,822)         | (11,408)        | (10,903)         | (8,297)            | (5,340)              | (152,994)   |
| AOCI   | -                   |                |                    | -                | 152,994          | 123,605          | 100,154            | 79,457            | 59,925            | 47,771             | 35,948           | 24,540          | 13,638           | 5,340              | (0)                  | -   |
| Income Statement   |                     |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    | 197                  |   |
| ECF Accretion*   | (409,431)           | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (129,635)        | (103,710)          | (89,969)          | (82,267)          | (53,026)           | (49,738)         | (46,219)        | (42,455)         | (31,426)           | (19,626)             | (1,964,366)   |
| Reclassification - OCI***  | 5,11110             | 51 10 2 1000   |                    | -                | -                | 29,389           | 23,451             | 20,698            | 19,532            | 12,154             | 11,822           | 11,408          | 10,903           | 8,297              | 5,340                | 152,994   |
| Net I/S effect   | (409,431)           | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)           | (37,915)         | (34,811)        | (31,552)         | (23,129)           | (14,286)             | (1,811,371)   |
| Balance Sheet - Equity Rollf   | orward              |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    | 111111               | 11.1  |
| Beginning Equity   |                     | (409,431)      | (764,334)          | (1,011,983)      | (1,197,013)      | (1,163,301)      | (1,292,936)        | (1,396,646)       | (1,486,615)       | (1,568,882)        | (1,621,908)      | (1,671,645)     | (1,717,864)      | (1,760,319)        | (1,791,745)          |   |
| OCI  | -                   |                | -                  |                  | 152,994          | (29,389)         | (23,451)           | (20,698)          | (19,532)          | (12,154)           | (11,822)         | (11,408)        | (10,903)         | (8,297)            | (5,340)              | (0)   |
| Net Income   | (409,431)           | (354,903)      | (247,648)          | (185,031)        | (119,282)        | (100, 246)       | (80,259)           | (69,271)          | (62,735)          | (40,872)           | (37,915)         | (34,811)        | (31,552)         | (23, 129)          | (14,286)             | (1,811,371)   |
| Ending Equity  | (409,431)           | (764,334)      | (1,011,983)        | (1,197,013)      | (1,163,301)      | (1,292,936)      | (1,396,646)        | (1,486,615)       | (1,568,882)       | (1,621,908)        | (1,671,645)      | (1,717,864)     | (1,760,319)      | (1,791,745)        | (1,811,371)          |   |
| Calulations Used in Alternat   | ives A and B        |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    |                      | i   |
| The calculations below are used to                                       |                     |                |                    |                  |                  |                  |                    |                   |                   |                    |                  |                 |                  |                    |                      |   |
| The amount transferred out of AOI<br>rate. As such, the amount reclassif |                     |                |                    |                  | AOCI is equal to | the difference b | etween the PV o    | the ECF remain    | ing (ending) usin | g the original (is | ount rate and th | e PV of the ECF | remaining (endir | ng) using the curr | ent discount         |   |
| PV of ECF remaining (beginning) u  | sing original disco | ount rate      |                    |                  | 2.385.642        | 2.004.924        | 1,605,170          | 1,385,429         | 1.254,700         | 817,435            | 758.307          | 696,222         | 631,033          | 462,585            | 285,714              |   |
| PV of ECF remaining (beginning) u  |                     |                |                    |                  | 2,385,642        | 1,851,930        | 1,481,565          | 1,285,274         | 1,175,244         | 757,511            | 710,536          | 660,274         | 606,493          | 448,948            | 280,374              |   |
| Beginning AOCI   |                     |                |                    | -                | -                | 152,994          | 123,605            | 100,154           | 79,457            | 59,925             | 47,771           | 35,948          | 24,540           | 13,638             | 5,340                |   |
| PV of ECF remaining (ending) usin  | g original discoun  | t rate         |                    |                  | 2,004,924        | 1,605,170        | 1,385,429          | 1,254,700         | 817,435           | 758,307            | 696,222          | 631,033         | 462,585          | 285,714            | -                    |   |
| PV of ECF remaining (ending) usin  |                     |                |                    |                  | 1,851,930        | 1,481,565        | 1,285,274          | 1,175,244         | 757,511           | 710,536            | 660,274          | 606,493         | 448,948          | 280,374            | -                    |   |
| Ending AOCI  | -                   |                |                    | -                | 152,994          | 123,605          | 100,154            | 79,457            | 59,925            | 47,771             | 35,948           | 24,540          | 13,638           | 5,340              | 72                   |   |
| Difference in Beginning and Ending                                       | AOCI (Current O     | CI)            |                    |                  | 152,994          | (29,389)         | (23,451)           | (20,698)          | (19,532)          | (12,154)           | (11,822)         | (11,408)        | (10,903)         | (8,297)            | (5,340)              |   |
| *ECF Accretion is calculated as th                                       |                     |                | ing) multiplied by | the current disc |                  | X-17             |                    |                   | · ·               | 1                  |                  |                 | 1                | - Later Confe      | 1-1-74               |   |
| "ECF Accretion is calculated as if<br>"The amount transferred out of A   | the discountrate    | did not change | (that is, the PV   | of ECF remainin  | g assuming the c |                  | rate multiplied by | the original disc | ount rate).       |                    |                  |                 |                  |                    |                      |   |

Example 3 - 5% discount rate with a change at the end of Year 5 to 3%

| Year                         | 1           | 2                     | 3           | 4           | 5           | 6  | 7           | 8                | 9                 | 10          | 11                         | 12          | 13           | 14           | 15          | Total        |
|------------------------------|-------------|-----------------------|-------------|-------------|-------------|--|-------------|------------------|-------------------|-------------|----------------------------|-------------|--------------|--------------|-------------|--------------|
| Expected Cash Outflows       | 1,500,000   | 2,500,000             | 1,500,000   | 1,500,000   | 500,000     | 500,000                                      | 300,000     | 200,000          | 500,000           | 100,000     | 100,000                    | 100,000     | 200,000      | 200,000      | 300,000     | 10,000,000   |
| Gross ECF remaining          | 10,000,000  | 8,500,000             | 6,000,000   | 4,500,000   | 3,000,000   | 2,500,000                                    | 2,000,000   | 1,700,000        | 1,500,000         | 900,000     | 900,000                    | 800,000     | 700,000      | 500,000      | 300,000     |              |
| Less: PV of ECF remaining    | 8,188,629   | 7,098,060             | 4,952,963   | 3,700,611   | 2,385,642   | 2,181,199                                    | 1,746,635   | 1,499,034        | 1,344,005         | 884,326     | 810,855                    | 735,181     | 657,236      | 476,954      | 291,262     |              |
| Effect of discounting        | 1,811,371   | 1,401,940             | 1,047,037   | 799,389     | 614,358     | 318,801                                      | 253,365     | 200,966          | 155,995           | 15,674      | 89,145                     | 64,819      | 42,764       | 23,046       | 8,738       |              |
| Balance Sheet - ECF Rollf    | orward      |                       |             |             |             |  |             |                  |                   |             |                            |             |              |              |             |              |
| (beginning)                  | 8,188,629   | 7,098,060             | 4,952,963   | 3,700,611   | 2,385,642   | 2,181,199                                    | 1,746,635   | 1,499,034        | 1,344,005         | 884,326     | 810,855                    | 735,181     | 657,236      | 476,954      | 291,262     |              |
| Accretion on ECF*            | 409,431     | 354,903               | 247,648     | 185,031     | 119,282     | 65,436                                       | 52,399      | 44,971           | 40,320            | 26,530      | 24,326                     | 22,055      | 19,717       | 14,309       | 8,738       | 1,635,096    |
| Change in discount rate      | -           | -                     |             | -           | 176,275     | -  | -           | -                | -                 | -           | -                          | -           | -            | -            | -           | 176,275      |
| Actual payout                | (1,500,000) | (2,500,000)           | (1,500,000) | (1,500,000) | (500,000)   | (500,000)                                    | (300,000)   | (200,000)        | (500,000)         | (100,000)   | (100,000)                  | (100,000)   | (200,000)    | (200,000)    | (300,000)   | (10,000,000) |
| PV of ECF remaining (ending) | 7,098,060   | 4,952,963             | 3,700,611   | 2,385,642   | 2,181,199   | 1,746,635                                    | 1,499,034   | 1,344,005        | 884,326           | 810,855     | 735,181                    | 657,236     | 476,954      | 291,262      | -           |              |
| Income Statement (if OCI i   | not used)   | months of the control |             | = C.T       |             | 27 E-10 C-10 C-10 C-10 C-10 C-10 C-10 C-10 C |             | MATE TO STATE OF | 100 C T 100 C T 1 | tie esserie | 20 10 10 10 10 10 10 10 10 | 200000-0000 | 2010-20-20-2 | mini korumin |             |              |
| Accretion*                   | (409,431)   | (354,903)             | (247,648)   | (185,031)   | (119,282)   | (65,436)                                     | (52,399)    | (44,971)         | (40,320)          | (26,530)    | (24,326)                   | (22,055)    | (19,717)     | (14,309)     | (8,738)     | (1,635,096)  |
| Change in discount rate      | -           | -                     | -           | -           | (176,275)   | -  | -           | -                | -                 |             | -                          | 10-1        | -            | -            | -           | (176,275)    |
| Net I/S effect               | (409,431)   | (354,903)             | (247,648)   | (185,031)   | (295,557)   | (65,436)                                     | (52,399)    | (44,971)         | (40,320)          | (26,530)    | (24,326)                   | (22,055)    | (19,717)     | (14,309)     | (8,738)     | (1,811,371)  |
| Balance Sheet - Equity Rol   | llforward   |                       |             |             |             |  |             |                  |                   |             |                            |             |              |              |             |              |
| Beginning Equity             | -           | (409, 431)            | (764,334)   | (1,011,983) | (1,197,013) | (1,492,571)                                  | (1,558,007) | (1,610,406)      | (1,655,377)       | (1,695,697) | (1,722,227)                | (1,746,552) | (1,768,608)  | (1,788,325)  | (1,802,633) |              |
| OCI                          | -           | -                     | -           | -           | -           | -  | -           | -                | -                 | -           | -                          | -           | -            | -            | -           | -            |
| Net Income                   | (409,431)   | (354,903)             | (247,648)   | (185,031)   | (295,557)   | (65,436)                                     | (52,399)    | (44,971)         | (40,320)          | (26,530)    | (24,326)                   | (22,055)    | (19,717)     | (14,309)     | (8,738)     | (1,811,371)  |
| Ending Equity                | (409,431)   | (764,334)             | (1,011,983) | (1,197,013) | (1,492,571) | (1,558,007)                                  | (1,610,406) | (1,655,377)      | (1,695,697)       | (1,722,227) | (1,746,552)                | (1,768,608) | (1,788,325)  | (1,802,633)  | (1,811,371) |              |

| Alternative A: Use OCI a   | 4                      | 2                | 3                 | 4                | 5                | 6                | 7                  | 8                 | 9                 | 10                  | 11                | 12               | 13              | 14                | 15            | Total      |
|--|------------------------|------------------|-------------------|------------------|------------------|------------------|--------------------|-------------------|-------------------|---------------------|-------------------|------------------|-----------------|-------------------|---------------|------------|
| OCIFAOCI   |                        |                  |                   | 4                | 5                | 0                | -                  | 0                 | 3                 | 10                  | - 11              | 12               | 13              | 14                | 15            | Total      |
|  |                        |                  |                   |                  | (470 075)        |                  |                    |                   |                   |                     |                   |                  |                 |                   |               | /470 076   |
| Change in discount rate  | -                      | -                | -                 | -                | (176,275)        | 24.040           | 27.050             | 24 200            | 22 445            | 44040               | 42.500            | 40 750           | 44 005          | 0.004             | 5540          | (176,275   |
| Transfer out of AOCI   |                        | -                | -                 | -                |                  | 34,810           | 27,859             | 24,300            | 22,415            | 14,342              | 13,590            | 12,756           | 11,835          | 8,821             | 5,548         | 176,275    |
| AOCI   | -                      | -                | -                 | -                | (176,275)        | (141,465)        | (113,606)          | (89,305)          | (66,890)          | (52,548)            | (38,959)          | (26,203)         | (14,368)        | (5,548)           | (0)           | (0         |
| Income Statement   |                        |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| ECF Accretion**  | (409,431)              | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)            | (37,915)          | (34,811)         | (31,552)        | (23,129)          | (14,286)      | (1,811,371 |
| Net I/S effect   | (409,431)              | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)            | (37,915)          | (34,811)         | (31,552)        | (23,129)          | (14,286)      | (1,811,371 |
| Balance Sheet - Equity R   | ollforward             |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| Beginning Equity   | -                      | (409,431)        | (764,334)         | (1,011,983)      | (1,197,013)      | (1,492,571)      | (1,558,007)        | (1,610,406)       | (1,655,377)       | (1,695,697)         | (1,722,227)       | (1,746,552)      | (1,768,608)     | (1,788,325)       | (1,802,633)   |            |
| OCI  | -                      | -                | -                 | -                | (176,275)        | 34,810           | 27,859             | 24,300            | 22,415            | 14,342              | 13,590            | 12,756           | 11,835          | 8,821             | 5,548         | ((         |
| Net Income   | (409,431)              | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)            | (37,915)          | (34,811)         | (31,552)        | (23,129)          | (14,286)      | (1,811,371 |
| Ending Equity  | (409,431)              | (764,334)        | (1,011,983)       | (1,197,013)      | (1,492,571)      | (1,558,007)      | (1,610,406)        | (1,655,377)       | (1,695,697)       | (1,722,227)         | (1,746,552)       | (1,768,608)      | (1,788,325)     | (1,802,633)       | (1,811,371)   |            |
| Alternative B: Use OCI a   | nd present acciet      | tion at curre    | nt rate and pr    | esent amount     | reclassified (   | o NI             |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| Year   | 1                      | 2                | 3                 | 4                | 5                | 6                | 7                  | 8                 | 9                 | 10                  | 11                | 12               | 13              | 14                | 15            | Total      |
| OCHAOCI  |                        |                  |                   |                  | COMPANS DE LOS   |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| Change in discount rate  | -                      | -                | -                 | -                | (176,275)        | -                | -                  | -                 | -                 |                     |                   | -                | -               | -                 | -             | (176,275   |
| Reclassification to NI***  |                        | -                | -                 | -                |                  | 34,810           | 27,859             | 24,300            | 22,415            | 14,342              | 13,590            | 12,756           | 11,835          | 8,821             | 5,548         | 176,275    |
| AOCI   | -                      |                  | -                 | -                | (176,275)        | (141,465)        | (113,606)          | (89,305)          | (66,890)          | (52,548)            | (38,959)          | (26,203)         | (14,368)        | (5,548)           | (0)           | (0         |
| Income Statement   |                        |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| ECF Accretion*   | (409, 431)             | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (65,436)         | (52,399)           | (44,971)          | (40,320)          | (26,530)            | (24,326)          | (22,055)         | (19,717)        | (14,309)          | (8,738)       | (1,635,096 |
| Reclassification - OCI***  |                        | -                | -                 | -                |                  | (34,810)         | (27,859)           | (24,300)          | (22,415)          | (14,342)            | (13,590)          | (12,756)         | (11,835)        | (8,821)           | (5,548)       | (176,275   |
| Net I/S effect   | (409,431)              | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (100,246)        | (80,259)           | (69,271)          | (62,735)          | (40,872)            | (37,915)          | (34,811)         | (31,552)        | (23,129)          | (14,286)      | (1,811,371 |
| Balance Sheet - Equity R   | collforward            |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| Beginning Equity   | -                      | (409,431)        | (764,334)         | (1,011,983)      | (1,197,013)      | (1,492,571)      | (1,558,007)        | (1,610,406)       | (1,655,377)       | (1,695,697)         | (1,722,227)       | (1,746,552)      | (1,768,608)     | (1,788,325)       | (1,802,633)   |            |
| OCI  | -                      | -                | -                 | -                | (176,275)        | 34,810           | 27,859             | 24,300            | 22,415            | 14,342              | 13,590            | 12,756           | 11,835          | 8,821             | 5,548         | (0         |
| Net Income   | (409,431)              | (354,903)        | (247,648)         | (185,031)        | (119,282)        | (100, 246)       | (80,259)           | (69,271)          | (62,735)          | (40,872)            | (37,915)          | (34,811)         | (31,552)        | (23,129)          | (14,286)      | (1,811,371 |
| Ending Equity  | (409,431)              | (764,334)        | (1,011,983)       | (1,197,013)      | (1,492,571)      | (1,558,007)      | (1,610,406)        | (1,655,377)       | (1,695,697)       | (1,722,227)         | (1,746,552)       | (1,768,608)      | (1,788,325)     | (1,802,633)       | (1,811,371)   |            |
| Calulations Used in Alter  | rnatives A and B       |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| The calculations below are use                                   |                        |                  |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 | 8 8 8             |               |            |
| The amount transferred out of<br>rate. As such, the amount recla |                        |                  |                   |                  | AOCI is equal to | the difference b | etween the PV o    | f the ECF remain  | ing (ending) usir | ig the original dis | count rate and th | ie PV of the ECF | remaining (endi | ng) using the cur | rent discount |            |
|  |                        |                  | iculated as rollo |                  | 2.385,642        | 2,004,924        | 1,605,170          | 1,385,429         | 1,254,700         | 817,435             | 758,307           | 696,222          | 631,033         | 462,585           | 285,714       |            |
| PV of ECF remaining (beginning                                   |                        |                  |                   |                  | 2,385,642        | 2,181,199        | 1,746,635          | 1,499,034         | 1,344,005         | 884,326             | 810,855           | 735,181          | 657,236         | 476,954           | 291,262       |            |
| PV of ECF remaining (beginning                                   | ng) using current also | ount rate        |                   |                  |                  |                  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |
| Beginning AOCI   |                        |                  |                   |                  | •                | (176,275)        | (141,465)          | (113,606)         | (89,305)          | (66,890)            | (52,548)          | (38,959)         | (26,203)        | (14,368)          | (5,548)       |            |
| PV of ECF remaining (ending)                                     | using original discour | nt rate          |                   |                  | 2,004,924        | 1,605,170        | 1,385,429          | 1,254,700         | 817,435           | 758,307             | 696,222           | 631,033          | 462,585         | 285,714           | -             |            |
| PV of ECF remaining (ending)                                     | using current discour  | nt rate          |                   | 1                | 2,181,199        | 1,746,635        | 1,499,034          | 1,344,005         | 884,326           | 810,855             | 735,181           | 657,236          | 476,954         | 291,262           |               |            |
| Ending AOCI  | _                      |                  |                   |                  | (176,275)        | (141,465)        | (113,606)          | (89,305)          | (66,890)          | (52,548)            | (38,959)          | (26,203)         | (14,368)        | (5,548)           |               |            |
| Difference in Beginning and En                                   | ding AOCI (Current C   | OCI)             |                   |                  | (176,275)        | 34,810           | 27,859             | 24,300            | 22,415            | 14,342              | 13,590            | 12,756           | 11,835          | 8,821             | 5,548         |            |
| *ECF Accretion is calculated                                     | as the PV of ECF reπ   | nainning (beginn |                   |                  |                  | 1211             |                    |                   |                   | 111111              |                   |                  |                 |                   |               |            |
| "ECF Accretion is calculated                                     |                        |                  |                   |                  |                  |                  | rate multiplied by | the original disc | ount rate).       |                     |                   |                  |                 |                   |               |            |
| * The amount transferred out                                     | of AOCI is the same    | for Alternative: | s A and B and is  | calculated as sh | own below Alterr | atives A and B.  |                    |                   |                   |                     |                   |                  |                 |                   |               |            |

Example 4 - Yearly changes in the discount rate

| Year  | 1  | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9   | 10  | 11  | 12  | 13  | 14   | 15   |                     |
|---|--|---|---|---|---|--|--|--|---|---|---|---|---|--|--|---------------------|
| Beginning discount rate   | 6.38%                                      | 6.18%   | 6.22%   | 5.15%   | 5.55%   | 6.16%  | 4.56%  | 3.82%  | 2.97%   | 3.43%   | 4.05%   | 4.75%   | 4.43%   | 2.80%  | 2.20%  |                     |
| Ending discount rate  | 6.18%                                      | 6.22%   | 5.15%   | 5.55%   | 6.16%   | 4.56%  | 3.82%  | 2.97%  | 3.43%   | 4.05%   | 4.75%   | 4.43%   | 2.80%   | 2.20%  | 1.93%  |                     |
| Expected Cash Outflows  | 1,500,000                                  | 2,500,000   | 1,500,000   | 1,500,000   | 500,000   | 500,000  | 300,000  | 200,000  | 500,000   | 100,000   | 100,000   | 100,000   | 200,000   | 200,000  | 300,000  | 10,000,000          |
| Gross ECF remaining   | 10,000,000                                 | 8,500,000   | 6,000,000   | 4,500,000   | 3,000,000   | 2,500,000  | 2,000,000  | 1,700,000  | 1,500,000   | 1,000,000   | 900,000   | 000,008   | 700,000   | 500,000  | 300,000  |                     |
| Less: PV of ECF remaining   | 7,795,897                                  | 6,835,690   | 4,751,811   | 3,681,035   | 2,331,319   | 1,913,617  | 1,634,652  | 1,450,687  | 1,345,428   | 863,308   | 782,636   | 700,921   | 638,325   | 478,433  | 293,542  |                     |
| Effect of discounting   | 2,204,103                                  | 1,664,310   | 1,248,189   | 818,965   | 668,681   | 586,383  | 365,348  | 249,313  | 154,572   | 130,692   | 117,364   | 99,079  | 61,675  | 21,567   | 6,458  |                     |
| Balance Sheet - ECF Rollforwa   |  |   |   |   |   |  |  |  |   |   |   |   |   |  | - 1  |                     |
| PV of ECF remaining (beginning)   | 7,795,897                                  | 6,835,690   | 4,751,811   | 3,681,035   | 2,331,319   | 1,913,617  | 1,634,652  | 1,450,687  | 1,345,428   | 863,308   | 782,636   | 700,921   | 638,325   | 478,433  | 293,542  |                     |
| Accretion on ECF*   | 497,378                                    | 422,446   | 235,563   | 189,573   | 129,388   | 117,879  | 74,540   | 55,416   | 39,959  | 29,817  | 31,697  | 33,294  | 28,278  | 13,396   | 6,458  | 1,965,082           |
| Accretion (unwind of discount) -  | 42,415                                     | (6,325)   | 133,661   | (39,289)  | (47,091)  | 103,156  | 41,495   | 39,325   | (16,079)  | (16,489)  | (13,412)  | 4,111   | 11,829  | 1,713  | - 1  | 239,021             |
| Change in discount rate   | (1.500,000)                                | (2,500,000)   | (1,500,000)   | (1,500,000)   | (500,000)   | (500,000)  | (300,000)  | (200,000)  | (500,000)   | (100,000)   | (100,000)   | (100,000)   | (200,000)   | (200,000)  | (300,000)  | (10,000,000         |
| Actual payout  PV of ECF remaining (ending)   | 6,835,690                                  | 4,751,811   | 3,681,035   | 2,331,319   | 1,913,617   | 1,634,652  | 1,450,687  | 1,345,428  | 869,308   | 782,636   | 700,921   | 638,325   | 478,433   | 293,542  | (000,000)  | (10,000,000)        |
| *   |  | 4,101,011   | 3,001,000   | 2,001,010   | 1,010,011   | 1,004,002  | 1,450,001  | 1,040,420  | 000,000   | 102,000   | 100,021   | 030,023   | 410,400   | 200,042  | (0)  |                     |
| Income Statement (if OCI not a<br>Accretion'  | (497,378)                                  | (422,446)   | (295,563)   | (189,573)   | (129,388)   | (117,879)  | (74,540)   | (55,416)   | (39,959)  | (29,817)  | (31,697)  | (33,294)  | (28,278)  | (13,396)   | (6,458)  | (1,965,082)         |
| Change in discount rate   | (42,415)                                   | 6,325   | (133,661)   | 39,289  | 47,091  | (103,156)  | (41,495)   | (39,325)   | 16,079  | 16,489  | 13,412  | (4,111)   | (11,829)  | (1,713)  | -  | (239,021            |
| Net I/S effect  | (539,793)                                  | (416,121)   | (429,224)   | (150,284)   | (82,297)  | (221,035)  | (116,035)  | (94,741)   | (23,880)  | (13,329)  | (18,285)  | (37,404)  | (40,107)  | (15,109)   | (6,458)  | (2,204,103          |
| Balance Sheet - Equity Rollford   | ₩ard                                       |   |   |   |   |  |  |  |   |   |   |   |   |  | - 1  |                     |
| Beginning Equity OCI  |  | (539,793)   | (955,914)   | (1,385,138)   | (1,535,422)   | (1,617,719)  | (1,838,754)  | (1,954,790)  | (2,049,530)   | (2,073,410)   | (2,086,739)   | (2,105,024)   | (2,142,428)   | (2,182,535)  | (2,197,645)  | _                   |
| Net Income  | (539,793)                                  | (416,121)   | (429,224)   | (150,284)   | (82,297)  | (221,035)  | (116,035)  | (94,741)   | (23,880)  | (13,329)  | (18,285)  | (37,404)  | (40,107)  | (15,109)   | (6,458)  | (2,204,103)         |
| Ending Equity   | (539,793)                                  | (955,914)   | (1,385,138)   | (1,535,422)   | (1,617,719)   | (1,838,754)  | (1,954,790)  | (2,049,530)  | (2,073,410)   | (2,086,739)   | (2,105,024)   | (2,142,428)   | (2,182,535)   | (2,197,645)  | (2,204,103)  |                     |
| Alternative A: Use OCI and loc  | k in the accretio                          |   |   |   |   |  |  |  |   |   |   |   |   |  |  |                     |
| V   |  | n presented in M  |   |   |   |  |  |  |   |   |   |   |   |  |  |                     |
| Year  | 1  | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9   | 10  | 11  | 12  | 13  | 14   | 15   |                     |
| OCIAOCI   | 1  | 2   | 3   | •   |   |  | 7  |  |   |   |   |   |   |  | 15   |                     |
| OCI/AOCI<br>Change in discount rate   | (42,415)                                   | <b>2</b><br>6,325   | (133,661)   | 39,289  | 47,091  | (103,156)  | (41,495)   | (39,325)   | 16,079  | 16,489  | 13,412  | (4,111)   | (11,829)  | (1,713)  | -  | (239,021            |
| OCIFAOCI Change in discount rate Transfer out of AOCI   |  | 6,325<br>10,965   | 3<br>(133,661)<br>6,000   | 39,289<br>35,529  | 47,091<br>14,376  | (103,156)<br>3,157   | 22,318   | (39,325)<br>28,481   | 16,079<br>36,531  | 16,489<br>19,653  | 13,412<br>14,550  | (4,111)<br>9,523  | (11,829)<br>10,891  | (1,713)<br>15,512  | -<br>11,534  | (239,021<br>239,021 |
| OCI/AOCI<br>Change in discount rate   |  | <b>2</b><br>6,325   | (133,661)   | 39,289  | 47,091  | (103,156)  |  | (39,325)   | 16,079  | 16,489  | 13,412  | (4,111)   | (11,829)  | (1,713)  | -  |                     |
| OCIFAOCI Change in discount rate Transfer out of AOCI   |  | 6,325<br>10,965   | 3<br>(133,661)<br>6,000   | 39,289<br>35,529  | 47,091<br>14,376  | (103,156)<br>3,157   | 22,318   | (39,325)<br>28,481   | 16,079<br>36,531  | 16,489<br>19,653  | 13,412<br>14,550  | (4,111)<br>9,523  | (11,829)<br>10,891  | (1,713)<br>15,512  | -<br>11,534  |                     |
| OCIFAOCI Change in discount rate Transfer out of AOCI AOCI  |  | 6,325<br>10,965   | 3<br>(133,661)<br>6,000   | 39,289<br>35,529  | 47,091<br>14,376  | (103,156)<br>3,157   | 22,318   | (39,325)<br>28,481   | 16,079<br>36,531  | 16,489<br>19,653  | 13,412<br>14,550  | (4,111)<br>9,523  | (11,829)<br>10,891  | (1,713)<br>15,512  | -<br>11,534  |                     |
| OCI/AOCI Change in discount rate Transfer out of AOCI AOCI Income Statement   | (42,415)                                   | 6,325<br>10,965<br>(25,125)   | 3<br>(133,661)<br>6,000<br>(152,786)  | 39,289<br>35,529<br>(77,968)  | 47,091<br>14,376<br>(16,501)  | (103,156)<br>3,157<br>(116,500)  | 22,318<br>(135,677)  | (39,325)<br>28,481<br>(146,521)  | 16,079<br>36,531<br>(93,910)  | 16,489<br>19,653<br>(57,769)  | 13,412<br>14,550<br>(29,807)  | (4,111)<br>9,523<br>(24,394)  | (11,829)<br>10,891<br>(25,333)  | (1,713)<br>15,512<br>(11,534)  | 11,534<br>-  | 239,021             |
| OCIFAOCI Change in discount rate Transfer out of AOCI AOCI Income Statement ECF Accretion**   | (42,415)<br>(497,378)<br>(497,378)         | 6,325<br>10,965<br>(25,125)<br>(433,411)                                | (133,661)<br>6,000<br>(152,786)<br>(301,563)                                | 39,289<br>35,529<br>(77,968)<br>(225,102)                             | 47,091<br>14,376<br>(16,501)<br>(143,764)                             | (103,156)<br>3,157<br>(116,500)<br>(121,036)                             | 22,318<br>(135,677)<br>(96,858)                            | (39,325)<br>28,481<br>(146,521)<br>(83,898)                            | 16,079<br>36,531<br>(93,910)<br>(76,490)                            | 16,489<br>19,653<br>(57,769)<br>(49,470)                            | 13,412<br>14,550<br>(29,807)<br>(46,247)                            | (4,111)<br>9,523<br>(24,394)<br>(42,817)                            | (11,829)<br>10,891<br>(25,333)<br>(39,169)                            | (1,713)<br>15,512<br>(11,534)<br>(28,908)                            | -<br>11,534<br>-<br>(17,992)                       | 239,021             |
| OCI/AOCI Change in discount rate Transfer out of AOCI AOCI Income Statement ECF Accretion" Net I/S effect   | (42,415)<br>(497,378)<br>(497,378)         | 6,325<br>10,965<br>(25,125)<br>(433,411)                                | (133,661)<br>6,000<br>(152,786)<br>(301,563)                                | 39,289<br>35,529<br>(77,968)<br>(225,102)                             | 47,091<br>14,376<br>(16,501)<br>(143,764)                             | (103,156)<br>3,157<br>(116,500)<br>(121,036)                             | 22,318<br>(135,677)<br>(96,858)                            | (39,325)<br>28,481<br>(146,521)<br>(83,898)                            | 16,079<br>36,531<br>(93,910)<br>(76,490)                            | 16,489<br>19,653<br>(57,769)<br>(49,470)                            | 13,412<br>14,550<br>(29,807)<br>(46,247)                            | (4,111)<br>9,523<br>(24,394)<br>(42,817)                            | (11,829)<br>10,891<br>(25,333)<br>(39,169)                            | (1,713)<br>15,512<br>(11,534)<br>(28,908)                            | -<br>11,534<br>-<br>(17,992)                       | 239,021             |
| OCI/AOCI Change in discount rate Transfer out of AOCI AOCI Income Statement ECF Accretion** Net I/S effect Balance Sheet - Equity Rollfore                  | (42,415)<br>(497,378)<br>(497,378)         | 2<br>6,325<br>10,965<br>(25,125)<br>(433,411)<br>(433,411)              | 3<br>(133,661)<br>6,000<br>(152,786)<br>(301,563)<br>(301,563)              | 39,289<br>35,529<br>(77,968)<br>(225,102)<br>(225,102)                | 47,091<br>14,376<br>(16,501)<br>(143,764)<br>(143,764)                | (103,156)<br>3,157<br>(116,500)<br>(121,036)<br>(121,036)                | 22,318<br>(135,677)<br>(96,858)<br>(96,858)                | (39,325)<br>28,481<br>(146,521)<br>(83,898)<br>(83,898)                | 16,079<br>36,531<br>(93,910)<br>(76,490)<br>(76,490)                | 16,489<br>19,653<br>(57,769)<br>(43,470)<br>(49,470)                | 13,412<br>14,550<br>(29,807)<br>(46,247)<br>(46,247)                | (4,111)<br>9,523<br>(24,394)<br>(42,817)<br>(42,817)                | (11,829)<br>10,891<br>(25,333)<br>(39,169)<br>(39,169)                | (1,713)<br>15,512<br>(11,534)<br>(28,908)<br>(28,908)                | 11,534<br>-<br>(17,992)<br>(17,992)                | 239,021             |
| OCI/AOCI Change in discount rate Transfer out of AOCI AOCI Income Statement ECF Accretion** Net I/S effect Balance Sheet - Equity Rollford Beginning Equity | (42,415)<br>(497,378)<br>(497,378)<br>ward | 2<br>6,325<br>10,965<br>(25,125)<br>(433,411)<br>(433,411)<br>(539,793) | 3<br>(133,661)<br>6,000<br>(152,786)<br>(301,563)<br>(301,563)<br>(955,914) | 39,289<br>35,529<br>(77,968)<br>(225,102)<br>(225,102)<br>(1,385,138) | 47,091<br>14,376<br>(16,501)<br>(143,764)<br>(143,764)<br>(1,535,422) | (103,156)<br>3,157<br>(116,500)<br>(121,036)<br>(121,036)<br>(1,617,719) | 22,318<br>(135,677)<br>(96,858)<br>(96,858)<br>(1,838,754) | (39,325)<br>28,481<br>(146,521)<br>(83,898)<br>(83,898)<br>(1,954,790) | 16,079<br>36,531<br>(93,910)<br>(76,490)<br>(76,490)<br>(2,049,530) | 16,489<br>19,653<br>(57,769)<br>(49,470)<br>(49,470)<br>(2,073,410) | 13,412<br>14,550<br>(29,807)<br>(46,247)<br>(46,247)<br>(2,086,739) | (4,111)<br>9,523<br>(24,394)<br>(42,817)<br>(42,817)<br>(2,105,024) | (11,829)<br>10,891<br>(25,333)<br>(39,169)<br>(39,169)<br>(2,142,428) | (1,713)<br>15,512<br>(11,534)<br>(28,908)<br>(28,908)<br>(2,182,535) | 11,534<br>-<br>(17,992)<br>(17,992)<br>(2,197,645) | 239,021             |

| IASB Agenda ref | 2C  |
|-----------------|-----|
| FASB Agenda ref | 82C |

| Alternative B: Use OCI and p  | resent accretion a      | t current rate an         | d present amoun       | t reclassified to     | NI                 |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
|---|-------------------------|---------------------------|-----------------------|-----------------------|--------------------|-----------------------|-------------------|----------------------|--------------------|---------------------|--------------------|---------------------|----------------------|---------------------|------------------|-------------|
| Year  | 1                       | 2                         | 3                     | 4                     | 5                  | 6                     | 7                 | 8                    | 9                  | 10                  | 11                 | 12                  | 13                   | 14                  | 15               |             |
| OCIAOCI   |                         |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| Change in discount rate   | (42,415)                | 6,325                     | (133,661)             | 39,289                | 47,091             | (103,156)             | (41,495)          | (39,325)             | 16,079             | 16,489              | 13,412             | (4,111)             | (11,829)             | (1,713)             | -                | (239,021    |
| Reclassification to NI***   | -                       | 10,965                    | 6,000                 | 35,529                | 14,376             | 3,157                 | 22,318            | 28,481               | 36,531             | 19,653              | 14,550             | 9,523               | 10,891               | 15,512              | 11,534           | 239,021     |
| AOCI  | (42,415)                | (25,125)                  | (152,786)             | (77,968)              | (16,501)           | (116,500)             | (135,677)         | (146,521)            | (93,910)           | (57,769)            | (29,807)           | (24,394)            | (25,333)             | (11,534)            | -                | -           |
| Income Statement  |                         |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| ECF Accretion*  | (497,378)               | (422,446)                 | (295,563)             | (189,573)             | (129,388)          | (117,879)             | (74,540)          | (55,416)             | (39,959)           | (29.817)            | (31,697)           | (33,294)            | (28,278)             | (13,396)            | (6,458)          | (1,965,082  |
| Reclassification - OCI***   | -                       | (10,965)                  | (6,000)               | (35,529)              | (14,376)           | (3,157)               | (22,318)          | (28,481)             | (36,531)           | (19,653)            | (14,550)           | (9,523)             | (10,891)             | (15,512)            | (11,534)         | (239,021    |
| Net I/S effect  | (497,378)               | (433,411)                 | (301,563)             | (225,102)             | (143,764)          | (121,036)             | (96,858)          | (83,898)             | (76,490)           | (49,470)            | (46,247)           | (42,817)            | (39,169)             | (28,908)            | (17,992)         | (2,204,103  |
| Balance Sheet - Equity Rollfo   | orward                  |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| Beginning Equity  | -                       | (539,793)                 | (955,914)             | (1,385,138)           | (1,535,422)        | (1,617,719)           | (1,838,754)       | (1,954,790)          | (2,049,530)        | (2,073,410)         | (2,086,739)        | (2,105,024)         | (2,142,428)          | (2,182,535)         | (2,197,645)      |             |
| ocı   | (42,415)                | 17,290                    | (127,661)             | 74,818                | 61,467             | (99,999)              | (19,177)          | (10,843)             | 52,610             | 36.142              | 27,962             | 5,413               | (938)                | 13,798              | 11,534           | (0)         |
| Net Income  | (497,378)               | (433,411)                 | (301,563)             | (225,102)             | (143,764)          | (121,036)             | (96,858)          | (83,898)             | (76,490)           | (49,470)            | (46,247)           | (42,817)            | (39,169)             | (28,908)            | (17,992)         | (2,204,103) |
| Ending Equity   | (539,793)               | (955,914)                 | (1,385,138)           | (1,535,422)           | (1,617,719)        | (1,838,754)           | (1,954,790)       | (2,049,530)          | (2,073,410)        | (2,086,739)         | (2,105,024)        | (2,142,428)         | (2,182,535)          | (2,197,645)         | (2,204,103)      |             |
| Calulations Used in Alternati   | res A and B             |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| The calculations in the highlighted see                                   | ction show the moveme   | ent in the liability base | d on the movement i   | n the discount rate.  | However, the move  | ment in the liability | based on the mov  | ement in the discou  | int rate would not | be shown in the fin | ancial statements. |                     |                      |                     |                  |             |
| The amount transferred out of AOCI  | is calculated such that | at the end of each pe     | riod, the amount in A | OCI is equal to the d | lifference between | the PV of the ECF     | remaining (ending | ) using the original | discount rate and  | the PV of the ECF   | remaining (ending) | using the current o | discount rate. As su | uch, the amount rec | lassified out of |             |
| OCI each period is calculated as follo<br>PV of ECF remaining (beginning) | ws:                     |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| using original discountrate PV of ECF remaining (beginning)               | 7,795,897               | 6,793,276                 | 4,726,687             | 3,528,249             | 2,253,352          | 1,897,115             | 1,518,151         | 1,315,009            | 1,198,907          | 775,397             | 724,868            | 671,114             | 613,931              | 453,100             | 282,008          |             |
| using current discount rate   | 7,795,897               | 6,835,690                 | 4,751,811             | 3,681,035             | 2,331,319          | 1,913,617             | 1,634,652         | 1,450,687            | 1,345,428          | 869,308             | 782,636            | 700,921             | 638,325              | 478,433             | 293,542          |             |
| Beginning AOCI  | -                       | (42,415)                  | (25,125)              | (152,786)             | (77,968)           | (16,501)              | (116,500)         | (135,677)            | (146,521)          | (93,910)            | (57,769)           | (29,807)            | (24,394)             | (25,333)            | (11,534)         |             |
| PV of ECF remaining (ending) using  |                         |                           |                       |                       |                    |                       |                   |                      |                    |                     |                    |                     |                      |                     |                  |             |
| original discount rate  | 6,793,276               | 4,726,687                 | 3,528,249             | 2,253,352             | 1,897,115          | 1,518,151             | 1,315,009         | 1,198,907            | 775,397            | 724,868             | 671,114            | 613,931             | 453,100              | 282,008             | -                |             |
| PV of ECF remaining (ending) using  |                         |                           |                       |                       |                    |                       |                   |                      | *** ***            |                     |                    | *** **-             |                      |                     |                  |             |
| current discount rate   | 6,835,690               | 4,751,811                 | 3,681,035             | 2,331,319             | 1,913,617          | 1,634,652             | 1,450,687         | 1,345,428            | 869,308            | 782,636             | 700,921            | 638,325             | 478,433              | 293,542             | -                |             |
| Ending AOCI   | (42,415)                | (25,125)                  | (152,786)             | (77,968)              | (16,501)           | (116,500)             | (135,677)         | (146,521)            | (93,910)           | (57,769)            | (29,807)           | (24,394)            | (25,333)             | (11,534)            | -                |             |

(19,177)

(10,843)

52,610

36.142

27,962

5,413

(938)

13,798

11,534

AOCI (Current OCI)

(42,415)

17,290

(127,661)

\*ECF Accretion is calculated as the PV of ECF remainining (beginning) multiplied by the current discount rate.

"ECF Accretion is calculated as if the discount rate did not change (that is, the PV of ECF remaining assuming the original discount rate multiplied by the original discount rate).

"The amount transferred out of AOCI is the same for Alternatives A and B and is calculated as shown below Alternatives A and B.

74,818

61,467

(99,999)

| IASB Agenda ref | 2C  |
|-----------------|-----|
| FASB Agenda ref | 82C |

| Year                            | 1           | 2           | 3           | 4           | 5  | 6           | 7           | 8           | 9                                       | 10   | 11          | 12          | 13          | 14   | 15   | Total     |
|---------------------------------|-------------|-------------|-------------|-------------|--|-------------|-------------|-------------|---|--|-------------|-------------|-------------|--|--|-----------|
| Beginning discount rate         | 5%          | 5%          | 5%          | 5%          | 5%                                       | 7%          | 7%          | 7%          | 7%                                      | 7%   | 8%          | 8%          | 8%          | 8%   | 8%   |           |
| Ending discount rate            | 5%          | 5%          | 5%          | 5%          | 7%                                       | 7%          | 7%          | 7%          | 7%                                      | 8%   | 8%          | 8%          | 8%          | 8%   | 8%   |           |
| Expected Cash Outflows          |             |             |             |             |  |             |             |             |   |  |             |             |             |  | Assessment of the Control of the Con |           |
| (original)                      | 1,500,000   | 2,500,000   | 1,500,000   | 1,500,000   | 500,000                                  | 500,000     | 300,000     | 200,000     | 500,000                                 | 100,000  | 100,000     | 100,000     | 200,000     | 200,000  | 300,000  | 10,000,0  |
| Layer 2 (Added end of Year 8)   | -           |             |             |             |  |             |             |             | 250,000                                 | 50,000   | 50,000      | 50,000      | 100,000     | 100,000  | 150,000  |           |
| CF (end of Year 3)              | 1,500,000   | 2,500,000   | 1,500,000   | 1,500,000   | 500,000                                  | 500,000     | 300,000     | 200,000     | 750,000                                 | 150,000  | 150,000     | 150,000     | 300,000     | 300,000  | 450,000  | 10,750,0  |
| iross ECF remaining             | 10,000,000  | 8,500,000   | 6,000,000   | 4,500,000   | 3,000,000                                | 2,500,000   | 2,000,000   | 1,700,000   | 2,250,000                               | 1,500,000  | 1,350,000   | 1,200,000   | 1,050,000   | 750,000  | 450,000  |           |
| ess: PV of ECF remaining        | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642                                | 1,851,930   | 1,481,565   | 1,285,274   | 1,762,865                               | 1,136,266  | 1,032,411   | 965,004     | 892,204     | 663,580  | 416,667  |           |
| Effect of discounting           | 1,811,371   | 1,401,940   | 1,047,037   | 799,389     | 614,358                                  | 648,070     | 518,435     | 414,726     | 487,135                                 | 363,734  | 317,589     | 234,996     | 157,796     | 86,420   | 33,333   |           |
| Balance Sheet - Layer 1         |             |             |             |             |  |             |             |             |   |  |             |             |             |  |  |           |
| V of ECF remaining (beginning)  | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642                                | 1,851,930   | 1,481,565   | 1,285,274   | 1,175,244                               | 757,511  | 688,274     | 643,336     | 594,803     | 442,387  | 277,778  |           |
| Accretion on ECF*               | 409,431     | 354,903     | 247,648     | 185,031     | 119,282                                  | 129,635     | 103,710     | 89,969      | 82,267                                  | 53,026   | 55,062      | 51,467      | 47,584      | 35,391   | 22,222   | 1,986,6   |
| Change in discount rate         |             | -           | -           | -           | (152,994)                                | -           | -           |             | -                                       | (22,262)   |             | -           | _           | -  | -  | (175,2    |
| Changes in estimate             |             |             |             |             | X 100 100 100 100 100 100 100 100 100 10 |             |             |             |   | 1.0000000000000000000000000000000000000  |             |             |             |  |  |           |
| Actual payout                   | (1,500,000) | (2,500,000) | (1,500,000) | (1,500,000) | (500,000)                                | (500,000)   | (300,000)   | (200,000)   | (500,000)                               | (100,000)  | (100,000)   | (100,000)   | (200,000)   | (200,000)  | (300,000)  | (10,000,0 |
| PV of ECF remaining (ending)    | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 1,851,930                                | 1,481,565   | 1,285,274   | 1,175,244   | 757,511                                 | 688,274  | 643,336     | 594,803     | 442,387     | 277,778  |  |           |
| Balance Sheet - Lager 2         |             |             |             |             |  |             |             |             |   |  |             |             |             |  |  |           |
| PV of ECF remaining (beginning) |             |             | 100         | 0.20        | 20                                       | 100         | 0.00        |             | 587,622                                 | 378,755  | 344,137     | 321,668     | 297,401     | 221,193  | 138,889  |           |
| Accretion on ECF*               |             |             | -           | -           |  | -           | -           | -           | 41,134                                  | 26,513   | 27,531      | 25,733      | 23,792      | 17,695   | 11,111   | 173,5     |
| Change in discount rate         |             |             |             |             |  |             |             |             | 41,134                                  | (11,131)   | 21,331      | 25,133      | 23,132      | 17,033   | 11,111   | (11,1     |
| Changes in estimate             |             |             |             |             |  |             |             | 587,622     |   | (11,131)   |             |             |             |  |  | 587,6     |
| Actual payout                   |             |             |             |             |  |             |             | 501,022     | (250,000)                               | (50,000)   | (50,000)    | (50,000)    | (100,000)   | (100,000)  | (150,000)  | (750,0    |
| PV of ECF remaining (ending)    |             |             | -           | -           |  |             |             | 587,622     | 378,755                                 | 344,137  | 321,668     | 297,401     | 221,193     | 138,889  | - (130,000)  | (150,0    |
|                                 |             |             |             |             |  |             |             |             |   |  |             |             |             |  |  |           |
| Balance Sheet - Total ECF I     |             | 7 000 000   | 4.050.000   | 0.700.044   | 0.005.040                                | 4 054 000   | 4 404 505   | 4 005 074   | 4 700 005                               | 4 400 000  | 4 100 444   | 005 004     | 000 004     | 000 500  | 440.007  |           |
| PV of ECF remaining (beginning) | 8,188,629   | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642                                | 1,851,930   | 1,481,565   | 1,285,274   | 1,762,865                               | 1,136,266  | 1,032,411   | 965,004     | 892,204     | 663,580  | 416,667  | 0 400 4   |
| Accretion on ECF*               | 409,431     | 354,903     | 247,648     | 185,031     | 119,282                                  | 129,635     | 103,710     | 89,969      | 123,401                                 | 79,539   | 82,593      | 77,200      | 71,376      | 53,086   | 33,333   | 2,160,1   |
| Change in discount rate         | -           | -           | -           | -           | (152,994)                                | -           | -           |             | -                                       | (33,394)   | -           | -           | -           | -  | -  | (186,3    |
| Changes in estimate             | -           |             |             |             |  |             |             | 587,622     |   |  |             |             |             |  |  | 587,6     |
| Actual payout                   |             | (2,500,000) | (1,500,000) | (1,500,000) | (500,000)                                | (500,000)   | (300,000)   | (200,000)   | (750,000)                               | (150,000)  | (150,000)   | (150,000)   | (300,000)   | (300,000)  | (450,000)  | (10,750,0 |
| PV of ECF remaining (ending)    | 7,098,060   | 4,952,963   | 3,700,611   | 2,385,642   | 1,851,930                                | 1,481,565   | 1,285,274   | 1,762,865   | 1,136,266                               | 1,032,411  | 965,004     | 892,204     | 663,580     | 416,667  | -  |           |
| ncome Statement (if OCI no      |             |             |             |             |  |             |             |             | 7.12                                    |  |             |             |             |  | 1  |           |
| Accretion*                      | (409,431)   | (354,903)   | (247,648)   | (185,031)   | (119,282)                                | (129,635)   | (103,710)   | (89,969)    | (123,401)                               | (79,539)   | (82,593)    | (77,200)    | (71,376)    | (53,086)   | (33,333)   | (2,160,1  |
| Change in discount rate         | -           | -           | -           | -           | 152,994                                  | -           | -           | -           | -                                       | 33,394   | -           | -           | -           | -  | -  | 186,3     |
| Change in estimate              |             | -           | -           | -           |  | -           | -           | (587,622)   | -                                       | -  | -           | -           | -           | -  | -  | (587,6    |
| let I/S effect                  | (409,431)   | (354,903)   | (247,648)   | (185,031)   | 33,712                                   | (129,635)   | (103,710)   | (677,591)   | (123,401)                               | (46,145)   | (82,593)    | (77,200)    | (71,376)    | (53,086)   | (33,333)   | (2,561,3  |
| Balance Sheet - Equity Rollf    | orward      |             |             |             |  |             |             |             |   |  |             |             |             |  |  |           |
| Beginning Equity                | -           | (409,431)   | (764,334)   | (1,011,983) | (1,197,013)                              | (1,163,301) | (1,292,936) | (1,396,646) | (2,074,237)                             | (2,197,637)  | (2,243,782) | (2,326,375) | (2,403,575) | (2,474,952)  | (2,528,038)  |           |
| oci                             | -           |             | -           | -           | CENTRAL PROPERTY.                        |             | -           |             | 100000000000000000000000000000000000000 | A STATE OF THE PARTY OF THE PAR | -           | -           |             | F10A TABLES (100 - | -  |           |
| Net Income                      | (409,431)   | (354,903)   | (247,648)   | (185,031)   | 33,712                                   | (129,635)   | (103,710)   | (677,591)   | (123,401)                               | (46,145)   | (82,593)    | (77,200)    | (71,376)    | (53,086)   | (33,333)   | (2,561,3  |
| Ending Equity                   | (409,431)   | (764,334)   | (1,011,983) | (1,197,013) | (1,163,301)                              | (1,292,936) | (1,396,646) | (2,074,237) | (2,197,637)                             | (2,243,782)  | (2,326,375) | (2,403,575) | (2,474,952) | (2,528,038)  | (2,561,371)  |           |

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| Alternative A: Use OCI and | lock in the accre | tion presen  | ted in NI    |               |                |             |             |             |             |             |             |             |             |               | 11          |            |
|----------------------------|-------------------|--------------|--------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|------------|
| Year                       | 1                 | 2            | 3            | 4             | 5              | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14            | 15          | Total      |
| OCI/AOCI                   | 1.50              |              |              |               |                |             |             |             |             | - 177       |             |             | Ī           | $\overline{}$ |             |            |
| Change in discount rate    | -                 | -            | -            | -             | 152,994        | -           | -           | -           | -           | 33,394      | -           | -           | -           |               | -           | 186,38     |
| Transfer out of AOCI       | -                 |              |              |               | -              | (29,389)    | (23,451)    | (20,698)    | (19,532)    | (12,154)    | (19,809)    | (19,280)    | (18,597)    | (14,244)      | (9,235)     | (186,38    |
| AOCI                       |                   | -            | -            | -             | 152,994        | 123,605     | 100,154     | 79,457      | 59,925      | 81,164      | 61,356      | 42,076      | 23,479      | 9,235         | -           | -          |
| Income Statement           |                   |              |              |               |                |             |             |             |             |             |             |             |             |               |             |            |
| Change in estimate         |                   |              | -            | -             | -              | -           | - '         | (587,622)   | -           | -           | -           | -           | -           | -             | -           | (587,62)   |
| ECF Accretion**            | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (100,246)   | (80,259)    | (69,271)    | (103,869)   | (67,385)    | (62,784)    | (57,921)    | (52,779)    | (38,842)      | (24,099)    | (1,973,75) |
| Net I/S effect             | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (100,246)   | (80,259)    | (656,893)   | (103,869)   | (67,385)    | (62,784)    | (57,921)    | (52,779)    | (38,842)      | (24,099)    | (2,561,37  |
| Balance Sheet - Equity Ro  | llfor₩ard         |              |              |               |                |             |             |             |             |             |             |             |             |               | 1 1         |            |
| Beginning Equity           |                   | (409,431)    | (764,334)    | (1,011,983)   | (1,197,013)    | (1,163,301) | (1,292,936) | (1,396,646) | (2,074,237) | (2,197,637) | (2,243,782) | (2,326,375) | (2,403,575) | (2,474,952)   | (2,528,038) |            |
| OCI                        |                   |              | -            | -             | 152,994        | (29,389)    | (23,451)    | (20,698)    | (19,532)    | 21,240      | (19,809)    | (19,280)    | (18,597)    | (14,244)      | (9,235)     | -          |
| Net Income                 | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (100,246)   | (80,259)    | (656,893)   | (103,869)   | (67,385)    | (62,784)    | (57,921)    | (52,779)    | (38,842)      | (24,099)    | (2,561,37  |
| Ending Equity              | (409,431)         | (764,334)    | (1,011,983)  | (1,197,013)   | (1,163,301)    | (1,292,936) | (1,396,646) | (2,074,237) | (2,197,637) | (2,243,782) | (2,326,375) | (2,403,575) | (2,474,952) | (2,528,038)   | (2,561,371) |            |
| Alternative B: Use OCI and | present accretio  | n at current | rate and pre | sent amount i | eclassified to | NI          |             |             | _           |             |             |             |             |               |             |            |
| Year                       | 1                 | 2            | 3            | 4             | 5              | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14            | 15          | Total      |
| OCI/AOCI                   | _                 | 7,17,1       |              |               |                |             |             |             |             |             |             |             |             |               |             |            |
| Change in discount rate    |                   |              | -            | -             | 152,994        | -           | - 1         | -           |             | 33,394      | -           | -           | 24          | -             | -           | 186,388    |
| Reclassification to NI***  |                   |              | -            | -             | - '            | (29,389)    | (23,451)    | (20,698)    | (19,532)    | (12,154)    | (19,809)    | (19,280)    | (18,597)    | (14,244)      | (9,235)     | (186,388   |
| AOCI                       |                   |              |              | -             | 152,994        | 123,605     | 100,154     | 79,457      | 59,925      | 81,164      | 61,356      | 42,076      | 23,479      | 9,235         | -           | -          |
| Income Statement           |                   |              |              |               |                |             |             |             |             |             |             |             |             |               |             |            |
| ECF Accretion*             | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (129,635)   | (103,710)   | (89,969)    | (123,401)   | (79,539)    | (82,593)    | (77,200)    | (71,376)    | (53,086)      | (33,333)    | (2,160,137 |
| Change in estimate         |                   |              | -            | -             | -              | -           | - '         | (587,622)   | -           | -           | -           | -           | -           | -             | -           | (587,622   |
| Reclassification - OCI***  |                   | - 1          | _            | -             | -              | 29,389      | 23,451      | 20,698      | 19,532      | 12,154      | 19,809      | 19,280      | 18,597      | 14,244        | 9,235       | 186,388    |
| Net I/S effect             | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (100,246)   | (80,259)    | (656,893)   | (103,869)   | (67,385)    | (62,784)    | (57,921)    | (52,779)    | (38,842)      | (24,099)    | (2,561,37  |
| Balance Sheet - Equity Ro  | llforward         |              |              |               |                |             |             |             |             |             |             |             |             |               |             |            |
| Beginning Equity           |                   | (409,431)    | (764,334)    | (1,011,983)   | (1,197,013)    | (1,163,301) | (1,292,936) | (1,396,646) | (2,074,237) | (2,197,637) | (2,243,782) | (2,326,375) | (2,403,575) | (2,474,952)   | (2,528,038) |            |
| OCI                        |                   |              |              | -             | 152,994        | (29,389)    | (23,451)    | (20,698)    | (19,532)    | 21,240      | (19,809)    | (19,280)    | (18,597)    | (14,244)      | (9,235)     | -          |
| Net Income                 | (409,431)         | (354,903)    | (247,648)    | (185,031)     | (119,282)      | (100, 246)  | (80,259)    | (656,893)   | (103,869)   | (67,385)    | (62,784)    | (57,921)    | (52,779)    | (38,842)      | (24,099)    | (2,561,37  |
| Ending Equity              | (409,431)         | (764,334)    | (1,011,983)  | (1,197,013)   | (1,163,301)    | (1,292,936) | (1,396,646) | (2,074,237) | (2,197,637) | (2,243,782) | (2,326,375) | (2,403,575) | (2,474,952) | (2,528,038)   | (2,561,371) |            |

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| FASB Agenda ref | 82C |

| Calulations Used in Alternatives A and B   |                                  |                   |                    |                  |                   |                   |                   |                      |                  |                   |             |
|--|----------------------------------|-------------------|--------------------|------------------|-------------------|-------------------|-------------------|----------------------|------------------|-------------------|-------------|
| The calculations below are used to show the movement in the liability based on the m   | ovement in the discount rate. He | owever, the move  | ement in the liabi | ity based on the | movement in the   | discount rate wo  | uld not be show   | n in the financial : | statements.      |                   |             |
| The amount transferred out of AOCI is calculated such that at the end of each period rate. As such, the amount reclassified out of OCI each period is calculated as follows<br><b>Layer 1 - ECF at inception</b> |                                  | the difference be | tween the PV of    | the ECF remaini  | ng (ending) using | he original disco | ount rate and the | PV of the ECF re     | emaining (ending | ) using the curre | nt discount |
| PV of ECF remaining (beginning) using original discount rate   | 2,385,642                        | 2,004,924         | 1,605,170          | 1,385,429        | 1,254,700         | 817,435           | 758,307           | 696,222              | 631,033          | 462,585           | 285,714     |
| PV of ECF remaining (beginning) using current discount rate  | 2,385,642                        | 1,851,930         | 1,481,565          | 1,285,274        | 1,175,244         | 757,511           | 688,274           | 643,336              | 594,803          | 442,387           | 277,778     |
| Beginning AOCI (Layer 1)   | -                                | 152,994           | 123,605            | 100,154          | 79,457            | 59,925            | 70,033            | 52,886               | 36,231           | 20,198            | 7,937       |
| PV of ECF remaining (ending) using original discount rate  | 2,004,924                        | 1,605,170         | 1,385,429          | 1,254,700        | 817,435           | 758,307           | 696,222           | 631,033              | 462,585          | 285,714           | -           |
| PV of ECF remaining (ending) using current discount rate   | 1,851,930                        | 1,481,565         | 1,285,274          | 1,175,244        | 757,511           | 688,274           | 643,336           | 594,803              | 442,387          | 277,778           |             |
| Ending AOCI (Layer 1)  | 152,994                          | 123,605           | 100,154            | 79,457           | 59,925            | 70,033            | 52,886            | 36,231               | 20,198           | 7,937             | -           |
| Layer 2 - ECF change at end of Year 8  |                                  |                   |                    |                  |                   |                   |                   |                      |                  |                   |             |
| PV of ECF remaining (beginning) using rate at time of ECF change   |                                  |                   |                    |                  |                   | 378,755           | 355,268           | 330,137              | 303,246          | 224,474           | 140,187     |
| PV of ECF remaining (beginning) using current rate   |                                  |                   |                    |                  | _                 | 378,755           | 344,137           | 321,668              | 297,401          | 221,193           | 138,889     |
| Beginning AOCI (layer 2)   |                                  |                   |                    |                  |                   | -                 | 11,131            | 8,469                | 5,845            | 3,280             | 1,298       |
| PV of ECF remaining (ending) using rate at time of ECF change  |                                  |                   |                    |                  |                   | 355,268           | 330,137           | 303,246              | 224,474          | 140,187           | -           |
| PV of ECF remaining (ending) using current rate  |                                  |                   |                    |                  |                   | 344,137           | 321,668           | 297,401              | 221,193          | 138,889           | _           |
| Ending AOCI (Layer 2)  |                                  |                   |                    |                  | -                 | 11,131            | 8,469             | 5,845                | 3,280            | 1,298             | -           |
| Total Beginning AOCI (Layer 1 + Layer 2)   | 21                               | 152,994           | 123,605            | 100,154          | 79,457            | 59,925            | 81,164            | 61,356               | 42,076           | 23,479            | 9,235       |
| Total Ending AOCI (Layer 1 + Layer 2)  | 152,994                          | 123,605           | 100,154            | 79,457           | 59,925            | 81,164            | 61,356            | 42,076               | 23,479           | 9,235             | -           |
| Difference in Beginning and Ending AOCI  | 152,994                          | (29,389)          | (23,451)           | (20,698)         | (19,532)          | 21,240            | (19,809)          | (19,280)             | (18,597)         | (14,244)          | (9,235      |

"ECF Accretion is calculated as if the discount rate did not change (that is, the PV of ECF remaining assuming the original discount rate multiplied by the original discount rate).
"The amount transferred out of AOCI is the same for Alternatives A and B and is calculated as shown below Alternatives A and B.