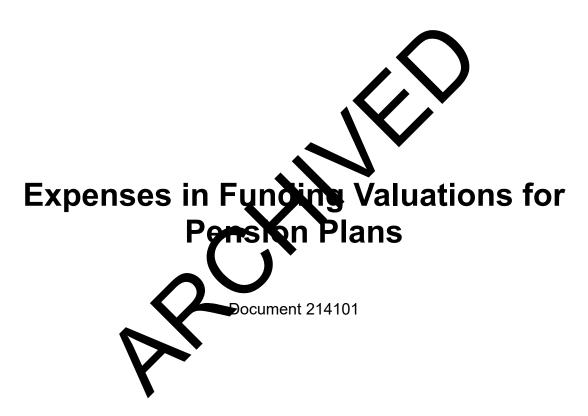


Revised Educational Note



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Revised Educational Note

Expenses in Funding ' for Pension I

ension Plan Financial Reporting Committee 2

September 2014

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Members should be familiar with educational notes. Educational notes describe but do not recommend practice in illustrative situations. They do not constitute standards of practice and are, therefore, not binding. They are, however, intended to illustrate the application (but not necessarily the only application) of the Standards of Practice, so there should be no conflict between them. They are intended to assist actuaries in applying standards of practice in respect of specific matters. Responsibility for the manner of application of standards of practice in specific circumstances remains that of the members.

Memorandum

To: All Members in the Pension practice area

From: Bruce Langstroth, Chair

Practice Council

Manuel Monteiro, Chairperson

Committee on Pension Plan Financial Reporting

Date: September 3, 2014

Subject: Revised Educational Note – Expenses A Funding Valuations for

Pension Plans

This revised educational note is intended to assist actualies in the selection of appropriate assumptions regarding expenses in funding variations.

An <u>educational note</u> on this subject was riginally published in January 2007. This revised educational note updates the original educational note to conform to the pension-specific standards of practice effective Ferruary 1, 2014.

As outlined in subsection 122 of the Standards of Practice, "The actuary should be familiar with relevant Ed actional Notes and other designated educational material." That subsection explain further that a "practice that the Educational Notes describe for a situation is not necessarily the only accepted practice for that situation and is not necessarily accepted actual practice for a different situation." As well, "Educational Notes are intended to 1 a trate the application (but not necessarily the only application) of the standards, so a tere should be no conflict between them."

In accordance with the Institute's Policy on Due Process for Approval of Guidance Material other than Standards of Practice, this educational note has been prepared by the Committee on Pension Plan Financial Reporting, and has received final approval for distribution by the Practice Council on September 2, 2014.

Should you have any questions or comments regarding it, please contact Manuel Monteiro at manuel.monteiro@mercer.com.

BL, MM

INTRODUCTION

In providing advice on the financial position of a pension plan for funding purposes, the Standards of Practice require the actuary to make assumptions regarding the payment of expenses. This educational note is intended to assist actuaries in making appropriate assumptions.

It is divided into two major sections: the first addresses the selection of appropriate expense assumptions for going concern valuations, and the second addresses the selection of appropriate expense assumptions for wind-up, hypothetical wind-up, and solvency valuations.

Section 3200 of the standards (which applies to advice that an actuary provides regarding the funded status or funding of a pension plan, except where such advice is with respect to the wind-up, in full or in part, of a pension plan, or the financial reporting of a pension plan's costs and obligations in the employer's or the pension plan's financial statements) contains the following reference to expenses:

The <u>actuary</u>'s advice on the <u>funded status</u> or <u>nording</u> of a pension plan should take account of expenses if they are expect, to be paid from the pension plan's assets.

It is not the role of the actuary to determine whethe it is appropriate to pay expenses from the plan's assets. Instead, he or she would select an assumption that adequately provides for all expenses that are expected to a paid from the plan's assets. In selecting the assumption, the actuary is permitted to rely on guidance provided by the plan sponsor in determining what expenses may be marged against the plan's assets and what expenses may be paid directly by the plan sponsor (or from other sources).

GOING CONCERN

In general, there are two yp's of exp ases that are typically charged to pension funds: investment-related exp ases and administration-related expenses. The actuary would consider these two types expenses, determine what entity will be paying the expenses, and include appropriate allowances and disclosures in the valuation report. He or she would take reasonalle step, to determine if other expenses are expected to be charged to the pension fund and address such other expenses accordingly.

Once the actuary has determined the expenses expected to be paid from the pension fund, he or she would determine how to make appropriate provision in the going concern valuation for such expenses. The actuary may be guided by the following basic actuarial funding equation:

PV(Future Benefits and Expenses) = Accrued Actuarial Liability + PV(Future Normal Actuarial Costs)

In order to maintain the integrity of the above equation, the actuary would then include provision for expected future expenses through an increase in the Accrued Actuarial Liability, an increase in the PV(Future Normal Actuarial Costs), or as a combination of the two.

The actual implementation of the actuarial funding equation can be accomplished by various means. The remainder of this section addresses two of the most common:

- A reduction in the discount rate; and
- The inclusion of an explicit allowance in the normal actuarial cost.

These approaches can be applied independently or in combination with one another.

Reduction in Discount Rate

A reduction in the discount rate results in an increase in both the Accrued Actuarial Liability and the PV(Future Normal Actuarial Costs). The increase in the Accrued Actuarial Liability implicitly results in a provision for future expenses associated with accrued benefits. The increase in the Future Normal Actuarial Costs implicitly results in a provision for future expenses associated with benefits expected to accrue in future periods.

Following are some observations that the actuary would consider in employing this method for including provision for expenses:

- As this type of allowance applies to all future years, a will herease or decrease over time in conjunction with the growth or decline in the plan's liabilities. For pension plans that are expected to be approximately fund unded at any given time, this approach lends itself very wells to a set-related expenses such as investment management fees, brokerages feel and certain custodial, trustee, and consultant fees that naturally move up or down in relation to the size of the underlying assets.
- For other expenses where the relationship between the size of the fund and the expense levels is less robust, the a tuary would be cognizant of the bias potentially being introduced which the size of the fund is expected to increase or decrease considerably over time. For this reason, care would be exercised if using this approach for non-as et-related expenses.

Best practices would su gest that actuary disclose both the gross and net discount rates explicitly in the valuation port, as well as the implied accrued and annual expense allowances.

Explicit Allowanc in a mal Actuarial Cost

This type of allowante represents a short-term assumption that is assumed to apply until the completion of the next actuarial valuation. Where expenses are expected to be non-uniform over the period until the next valuation is filed, the annual allowance may be based on the average expected expense over the period. Explicit allowances are commonly included for administration-related expenses. If this approach is adopted for asset-related expenses, the actuary would ensure that proper consideration is given to the impact of potential or anticipated changes in the underlying asset base. The actuary would also consider that this approach requires ongoing funding for expenses even where no further benefit accruals are being provided.

Best practices would suggest that the benefit-related and expense-related components of the normal actuarial cost each be disclosed explicitly.

The adoption of this approach has no impact on the plan's liabilities or funded ratio.

Other Approaches

In addition to the two methods outlined, the actuary may employ any other approach that he or she deems to be appropriate for a given set of circumstances. As with all other assumptions, the actuary would be prepared to justify any assumption or approach adopted.

A common alternative approach is a combination of the two approaches outlined, whereby investment-related expenses are addressed through the adoption of a net discount rate and all other expenses are provided for through an addition to the normal actuarial cost.

Other Considerations

It is preferable to separately identify and clearly explain the allowance included for administration expenses. This is particularly important for small pension plans where the relative magnitude of these expenses tends to be much higher in tention to the asset size. For such small pension plans, additional hidden brokerage for smay apply and would be considered.

Differences in approach can arise between plans with s aed investment accounts and those utilizing pooled funds. Where pooled funds are eing ased, the actuary would ensure that the expense assumption reflects the expense le s for the particular pooled funds in use. Likewise, differences can also arise a twe n funds that are either actively or passively managed since these approaches what incur different levels of expenses. The actuary would consult the fee schedule with d in the insurance contract or the investment contract between the spon or 2 d in funding agent, if available. The actuary impact on plan expenses of any other funds held by would also give consideration to the plan sponsor—for example other fund, within the same master trust or other funds invested with the same investm at manager(s). Best practices suggest that the investment approach be explicitly di

If material, the actuary or a meade a gain and loss analysis of actual expenses versus those assumed over the valuation period.

HYPOTHETICAL WIND-UP, SOLVENCY AND ACTUAL WIND-UP VALUATIONS

For hypothetical wind-up and solvency valuations, the standards contain the following references to expenses:

- For a hypothetical wind-up valuation, the actuary should select an explicit assumption for expenses expected to be payable from the pension plan's assets to wind-up the pension plan.
- Since the <u>actuary</u> would assume that the pension plan has neither a surplus nor a deficit, wind-up expenses related to the resolution of surplus or deficit issues need not be considered.
- In developing the assumption for expenses expected to be payable from the pension plan's assets to wind up the pension plan, the <u>actuary</u> would also make an assumption as to the solvency of the employer. The

assumption with respect to the payment of expenses and the assumption with respect to the solvency of the employer would be consistent.

For actual wind-up valuations, the standards contain the following references to expenses:

3320.02

Unless it is expected that expenses will not be paid from the pension plan's assets, the <u>actuary</u> should select an explicit assumption regarding the expenses of wind-up and either offset the resulting expense provision against the pension plan's assets or add the resulting expense provision to the pension plan's liabilities.

Wind-up expenses usually include, but are not limited to,

- Fees related to the actuarial wind-up report,
- Fees imposed by a regulator,
- Legal fees,
- Administration expenses, and
- Custodial and investment management xpenses.

3330.20

The <u>actuary</u> would either net wind-up expenses against the pension plan's assets or add the assumed wind up expenses to the pension plan's liabilities in calculating the rate of assets to liabilities as a measure of financial security of the beneat enclements, unless the expectation is that expenses will not be paid romethe pension plan's assets. However, an exception may be calle by future custodial and investment management expenses, which may be nexted against future investment return in the treatment of <u>subs</u> quent events.

Hypothetical Wind-up and Solvency Valuations

In cases of hypothetical and-ups and solvency valuations, the actuary would make an explicit provision of the expected expenses associated with an uncontested wind-up.

The following is a next exhaustive list of expenses that the actuary would consider:

- Actuarial and consulting fees, including the wind-up report(s);
- Fees imposed by a regulatory authority;
- Legal fees;
- Costs related to the settlement of benefits (e.g., commissions or fees to buy annuities);
- Administration fees (e.g., preparing and sending option forms to members, answering queries, processing requests from members);
- Custodial and investment management fees (see paragraph 3330.20 of the standards for an alternative approach); and
- Fees linked to the appointment of an administrator in the case of a bankrupt sponsor.

Consistent with paragraph 3240.13 of the standards, the actuary need not consider legal and other expenses related to the resolution of surplus or deficit issues.

In arriving at the assumption for the level of expenses, the actuary may rely on such historical data of other plan terminations as are most readily available, making allowance for the different size and complexity of the plans.

There are some situations that give rise to significant uncertainty regarding expenses associated with hypothetical plan wind-ups. For example, for very large pension plans, the Canadian annuity market may not be deep enough to cope with a wind-up where all annuities are purchased within a short period of time (so the costs of settling the basic obligations may not be straightforward). Similarly, for some public sector pension plans, benefit entitlements on wind-up are not defined. In these situations the actuary would postulate and disclose a reasonable scenario under which the wind-up could occur, and accordingly make appropriate allowance for expenses under this scenario unless he or she can justify the expectation that the expenses will not be paid from plan assets. (For additional details on the treatment of expenses in these situations, lease refer to the educational note Alternative Settlement Methods for Hyp theti al Wind-Up and Solvency Valuations).

Actual Wind-Up

Most of the considerations applicable for hypothetical wind-ups and solvency valuations also apply for actual wind-ups. However, because express incurred during the course of a plan wind-up will in some cases impact upon the final benefit entitlements of plan members, the actuary would be more metican us in making expense assumptions for the purposes of an actual wind-up report. From she would make an explicit provision for all expenses associated with the full wind-up of the plan that are expected to be paid from the plan. However, as noted in paragrain 3330.20, the actuary may net future custodial and investment management expresses against future investment returns.

In some situations, signific at additional expenses may be incurred in the wind-up process if one or more paries to the wind-up are contesting one or more facets of the wind-up, or if such a issue, would be addressed. The actuary would take reasonable steps to ascertain it such additional expenses are likely to be incurred over the course of the plan wind-up. Unless he or she is aware of or has an expectation that such additional expenses will be incurred, the actuary is not required to include a provision for these potential additional expenses. In such situations, he or she would disclose that the valuation includes no allowance for such additional expenses and provide justification for the exclusion. In situations where an application to the Ontario Pension Benefits Guarantee Fund is expected, the actuary would consider the expected fees associated with such an application.

In situations where surplus allocation issues are required to be addressed, the actuary can report the net expected surplus position in the absence of any expenses related to this process, and disclose these expenses as an allocation of surplus.

Where a significant contingent expense has not been reflected because the event triggering the expense is not expected to occur, the actuary would disclose both the nil assumption and the expected impact of the assumption if it were incorrect.

Some of the expenses associated with a plan wind-up will fall outside the realm of the actuary's experience and expertise. He or she may rely on another person's work in determining the quantum of an expense as well as whether or not expenses are to be from the pension fund or not. Paragraph 3330.22 states:

To decide those aspects, the <u>actuary</u> may rely upon direction from another person with the necessary knowledge, such as legal counsel or the employer, or the necessary authority, such as a regulator or the <u>plan administrator</u>. The <u>actuary</u> would consider any issues of confidentiality or privilege that may arise.

For actual wind-ups, it will often be necessary to prepare an initial preliminary wind-up report, updated reports as the wind-up progresses, and a final wind-up report once all entitlements have been settled. For any of these reports, a common subsequent event that would be reflected is the payment of expenses from the pension fund. For any successive report, the actuary would disclose any changes to the expense assumption from the prior report.

SPECIAL REPORTS

Where reports are provided for plan conversions, mergars, or other con-routine purposes, the actuary would apply the principles noted in this clue tional pote as appropriate.