
**F2015 to F2016 Revenue Requirements
Rate Application**

Appendix H

Regulatory Accounts Report

Regulatory Accounts Report

Fiscal F2013 to F2024

February 28, 2014

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1 Executive Summary

This report describes BC Hydro's regulatory accounts, its plan to reduce the total balance and number of accounts, and its principles regarding potential new accounts and the application of interest to the accounts. It is provided in the context of the Province's 10-Year plan for BC Hydro (the **10-Year Plan**) announced on November 26, 2013, and Directions No. 6 and 7, issued on March 6, 2014 to the British Columbia Utilities Commission (**BCUC**).

BC Hydro uses various regulatory accounts, in compliance with BCUC orders, in order to:

1. Better match costs and benefits for different generations of customers
2. Smooth out the rate impact of a large non-recurring cost or to smooth out rate increases
3. Defer to a future period the differences between forecast and actual costs or revenues

BC Hydro is aware of concerns about the growth in the balances of its regulatory accounts, the length of time that will be required to recover the significant balances in the accounts, and potential impacts on intergenerational equity. This report addresses these concerns and sets out how the balances in BC Hydro's regulatory accounts will be recovered in a manner that reflects the nature of each regulatory account.

This report looks out to the end of F2024, at which time BC Hydro's regulatory accounts are forecast to total approximately \$4.06 billion, a reduction of just over \$1 billion from the forecast maximum of \$5.1 billion in F2018 and F2019. The number of regulatory accounts stands at 27 at the beginning of F2014, and based on the forecast amortization periods, 13 regulatory accounts will have been fully amortized by F2024. It should be noted that several of the regulatory accounts are

designed to capture costs on an ongoing basis and therefore may not be drawn down to zero within a 10-year period. Of the \$4.4 billion balance at the beginning of F2014, BC Hydro is already collecting in its rates 19 of the 27 regulatory accounts representing account balances of \$3.5 billion, or 80 per cent of the total balance. As well, by the end of F2024 just over 84 per cent of the outstanding regulatory account balances (approximately \$3.4 billion) consist of five regulatory accounts that either match costs with associated benefits (Demand Side Management (**DSM**), Site C and Smart Metering & Infrastructure) or that relate to the transition to International Financial Reporting Standards (**IFRS**, – IFRS Property, Plant & Equipment and IFRS Pension) and 14 per cent (approximately \$550 million) will consist of two non-cash provision accounts that are not recovered in rates until such time as an actual cash expenditure is made against the provision.

There are two caveats that should be considered with regard to the balances shown in this report, relating primarily to the fact that the balances are forecasts and actual balances will be different and impacted by sensitivities that are further described in section 6. First, the forecast of regulatory account balances shown in [Table 6](#) indicates that the cost of energy variance accounts will have been fully paid down at the end of F2023. However, due to the nature of these regulatory accounts, which is described more fully in section 3.1.1 of the report, BC Hydro expects that there will likely be balances in these accounts in each of the years of the forecast. These accounts capture the variances between forecast and actual energy costs in each year, which can be positive or negative. Due to the nature and number of variables that determine actual energy costs, it is not possible to accurately forecast energy costs in any given year.

A second caveat is that the balance in the Non-Current Pension Cost regulatory account is based on a calculation of the unrecognized actuarial gains and losses at the end of F2014. The annual actuarial experience is subject to large positive and negative fluctuations as actuarial experience is very sensitive to changes in market

1 discount rates. For example, a 1 per cent increase/decrease in the market discount
2 rate for valuing the pension liability will give rise to an actuarial gain/loss on the
3 pension liability of approximately \$300 million. Therefore, BC Hydro expects that the
4 balances in this account will also vary from those currently forecast.

5 Regulatory accounts are not uncommon in the utility industry, and BC Hydro is not
6 alone in their use. Regulatory accounts are often used to reflect timing differences
7 between when a utility spends money to provide a service or acquire an asset, and
8 when that expenditure is recovered from ratepayers. The benefit of a particular
9 service or asset may accrue to ratepayers over a long period of time, and regulatory
10 accounts can serve to match the benefit with the cost, thereby supporting
11 intergenerational equity for current and future ratepayers. In other words,
12 BC Hydro's current customers are not required to pay for the full cost of an asset or
13 service that will provide benefits to customers over periods of 10, 20 or 30 years. A
14 good example is DSM costs. BC Hydro is spending money in current years to
15 reduce the amount of electricity that customers would otherwise use, resulting in
16 lower future energy costs and delayed or reduced infrastructure costs. The benefit of
17 such reduced costs through DSM impacts future customers and the cost of the DSM
18 programs is properly matched to the benefits enjoyed by those future customers by
19 deferring and amortizing those costs over 15 years, which is the average term of
20 DSM program benefits.

21 In some cases, regulatory accounts may also be used to transfer uncontrollable risks
22 and benefits to customers, in particular the differences between forecast and actual
23 costs due to changes in items such as water inflow levels, interest rates, and market
24 prices of energy, which cannot be accurately forecast. Expenditures deferred for this
25 reason are generally recovered over a shorter time period than those associated
26 with longer term benefits. This shorter recovery also supports intergenerational
27 equity, in that the benefits associated with the deferred cost are generally much
28 more immediate - for example, the cost of the energy which is used by current rather

1 than future customers. In this case the deferred costs should be recovered from
2 ratepayers over a relatively short period.

3 A further, potentially overriding concern with the recovery of regulatory accounts is
4 the rate increases that may be required in any particular year due to their recovery.
5 Mitigation of rate increases may result in longer recovery periods than would be the
6 case if rate mitigation was not an issue. In addition, concerns about rate impacts
7 may also lead to the establishment of a regulatory account for the sole purpose of
8 smoothing the rate impact of a large one-time expenditure. The period of time over
9 which a one-time expenditure is recovered takes into consideration the amount of
10 the expenditure, its nature and other rate increase pressures that may exist at the
11 time.

12 As a Crown Corporation, BC Hydro has different priorities and risk considerations
13 than would be found with many investor-owned utilities (**IOUs**). In particular, while
14 there is a focus on providing service and value to its customers, there is also a goal
15 of keeping rates as low as practical; immediate cost recovery or share price are not
16 the paramount concerns to BC Hydro that they would be to an IOU. BC Hydro
17 therefore believes that an appropriate balance needs to be struck between keeping
18 rates low and recovering the regulatory account balances over a period of time that
19 accords with the nature of the expense being deferred, as discussed further in
20 section [3](#) of the report.

21 BC Hydro is also backed by the financial support of the Government of British
22 Columbia, which provides BC Hydro with the benefit of low borrowing costs and
23 avoids the need for it to access the financial markets directly for its financing needs.
24 This support allows BC Hydro to finance the balances in its regulatory accounts
25 almost entirely with debt, which an IOU would find difficult to sustain, as such large
26 balances could impair the ability of an IOU to access debt financing at low interest
27 rates.

BC Hydro's regulatory accounts are subject to review and approval, both externally and within BC Hydro. In most cases, BC Hydro has sought BCUC approval for establishing regulatory accounts and the BCUC has approved BC Hydro's requests for a deferral after analysis and enquiry into the need and use of the regulatory account. In some cases, the BCUC has been directed by Government to allow costs to be recorded in a regulatory account, as discussed further in section [2.1](#). The BCUC itself has also directed that certain regulatory accounts be set up, as was the case with the DSM regulatory account, which is forecast to have the largest balance of all of BC Hydro's regulatory accounts by F2024 (forecast to be approximately \$1.4 billion at the end of F2024). Interveners have also explicitly agreed to the creation of regulatory accounts in some cases. BC Hydro also provides details of its regulatory account balances in its public quarterly and annual financial statements, which can be found on its website.

BC Hydro's benefit-matching regulatory accounts are capital-like, in that they capture costs that are similar to capital assets, as they will provide long term benefits to BC Hydro's current and future customers. Also similar to capital assets, the amounts deferred in these accounts are subject to management oversight and governance processes. For major expenditures such as Site C, DSM and SMI, business cases have been developed, reviewed and approved by BC Hydro's senior management and board.

The annual budget planning process also ensures that expenditures are prioritized and reviewed before being spent and placed into regulatory accounts. BC Hydro's planning and budgeting framework includes both top-down and bottom-up elements. The top-down element, which is strategic in nature, includes a review of BC Hydro's strategic objectives and performance measures. The bottom-up elements, which are operational in nature, involve reviews by the business groups of their needs, the identification of projects and initiatives and resourcing of work plans. Trade-offs, including cost reductions and productivity improvements to offset cost pressures, are

1 made to stay within the overall business groups operating cost target set by the
2 top-down approach. BC Hydro's senior management reviews the operating plans for
3 consistency and alignment with BC Hydro's priorities and strategic objectives from
4 an overall consolidated view.

5 With respect to the capital-like accounts, there is a matching of costs incurred with
6 the long-term benefits that are being delivered to future generations of customers.
7 Shortening the amortization periods of these accounts to reduce the balances
8 sooner would be counter to one of BC Hydro's goals of achieving intergenerational
9 equity and the matching of costs and benefits.

10 For these reasons, and as discussed further in this report, BC Hydro believes that
11 the account balances remaining at the end of F2024 are acceptable and do not
12 cause BC Hydro undue concern in terms of intergenerational equity nor in terms of
13 its financial health.

14 However, if there was a concern about the overall level of BC Hydro's regulatory
15 account balances, deviations from this approach could be considered, though it
16 would be contrary to BC Hydro's principles guiding the recovery of the regulatory
17 account balances.

18 Three points are worth noting with respect to the regulatory account recovery
19 periods that BC Hydro is proposing in this report. In the report, accounts currently
20 subject to the Deferral Account Rate Rider (**DARR**) will continue to be recovered at
21 amounts determined through the existing mechanism, as discussed in section [3.1.1](#).
22 Although, in accordance with Directions No. 6 and 7, and as further discussed in
23 section [3.1.1](#), the DARR itself will remain at 5 per cent in each year, regardless of
24 the balances of the three energy deferral accounts. In addition, BC Hydro proposes
25 that the recovery mechanisms are to be applied consistently over the life of the
26 regulatory account. As well, there is an alignment between costs and benefit
27 recognition to achieve intergenerational equity.

BC Hydro still expects to seek approval of new regulatory accounts over the period of this report, if warranted by one or more of the following three guiding criteria (discussed further in section [2.2](#)): a) to better match costs and benefits for future generations of customers; b) to smooth out the rate impacts of large non-recurring costs or to smooth out rate increases; or c) to defer to a future period differences between forecast and actual costs or revenues. However, BC Hydro only plans to apply for new regulatory accounts in exceptional cases or for un-forecasted or uncontrollable material expenditures that would have a significant impact on BC Hydro's net income if not recovered from customers. BC Hydro considers that cumulative expenditures that would have a net income impact of \$10 million or more in a year would be material.

The report begins by setting out a brief history of regulatory account use at BC Hydro and then describes BC Hydro's main regulatory accounts and their particular reasons for being in place. This is followed by a discussion of the rationale for the recovery plan for each regulatory account. The application of interest to the regulatory accounts and a forecast of regulatory account balances is then provided, followed by a discussion on the sensitivity of the regulatory account balances to changes in key earnings variables. Finally, in Appendix A, BC Hydro discusses the issues and concerns regarding the regulatory accounts that have been raised by the BCUC and interveners, the Auditor General of B.C., and by the Government Review Panel and in Appendix B, BC Hydro provides a detailed explanation of each regulatory account.

2 Regulatory Accounts at BC Hydro

2.1 History

BC Hydro must apply to the BCUC in order to establish regulatory accounts, and must also seek approval for the timeline and mechanism to recover the balances in

1 the accounts from ratepayers. BC Hydro can also be directed by the BCUC to
2 establish regulatory accounts.

3 BC Hydro has used various forms of regulatory accounts since the 1980s. In 1982,
4 the BCUC directed BC Hydro to create a Rate Stabilization Account to capture
5 revenue from export sales of surplus energy less associated expenses. In 1990, the
6 BCUC rescinded the export sales rate stabilization account and replaced it with a
7 new rate stabilization account to mitigate the impact of volatile earnings. Transfers
8 were made to this new account during high income years to reduce the need for rate
9 increases in lower income years.

10 During the period F1995 to F2003 BC Hydro was under a rate freeze; however,
11 during this time BC Hydro was directed to establish, or requested the approval of,
12 several regulatory accounts.

13 In 1995, the BCUC directed all regulated gas, electric and steam heat utilities in
14 British Columbia to defer and amortize into rates, costs associated with DSM
15 activities that achieve energy savings. The DSM activities and associated costs
16 generate energy savings to customers over a period of time longer than the year of
17 expenditure, so the deferral and amortization of these costs aligns the recognition of
18 costs with the period that customers receive benefits.

19 In 2002 BC Hydro applied for and received approval for a regulatory account to
20 capture foreign exchange gains and losses due to the translation of foreign currency
21 denominated long-term monetary items. Foreign exchange gains and losses are
22 subject to external market forces over which BC Hydro has no control.

23 In 2004, subsequent to an inquiry into BC Hydro's heritage generation assets,
24 Heritage Special Direction No. HC2 was issued by the Province. It required the
25 BCUC to direct the establishment of the Heritage Deferral Account and the Trade
26 Income Deferral Account. The former captures the variances between BC Hydro's

1 actual and forecast cost of supply from heritage assets, and the latter captures
2 variances between the actual and forecast net income of Powerex.

3 The BCUC directed the establishment of the Heritage Deferral Account and the
4 Trade Income Deferral Account in its final order regarding BC Hydro's F05/F06 RRA.
5 By the same order, the BCUC directed the establishment of the Non-Heritage
6 Deferral Account to capture and defer variances between the forecast and actual
7 energy costs that are not associated with the heritage assets.

8 BC Hydro must apply to the BCUC in order to establish regulatory accounts, and
9 must also seek approval for the timeline and mechanism to recover the balances in
10 the accounts from ratepayers. Since F2005 BC Hydro has sought and received
11 approval from the BCUC for a number of regulatory accounts.

12 **2.2 Description of Regulatory Accounts**

13 Regulatory accounts can either be regulatory assets (amounts potentially to be
14 recovered from BC Hydro ratepayers) or regulatory liabilities (amounts potentially to
15 be refunded to BC Hydro ratepayers).

16 As BC Hydro has previously stated to the BCUC¹, the purpose of a regulatory
17 account is to defer, for potential future recovery or refund, costs or revenues that
18 would otherwise be recorded in the current accounting period. BC Hydro continues
19 to believe that there are three situations where a regulatory account may be
20 warranted:

- 21 • To better match costs and benefits for different generations of customers
- 22 • To smooth out the rate impact of a large non-recurring cost or to smooth out
- 23 rate increases

¹ BC Hydro Amended F12-F14 RRA – section 7.1.2.

-
- To defer to future periods, differences between forecast and actual costs or revenues

With respect to the deferral of differences between forecast and actual costs, BC Hydro remains of the view that it should assume financial responsibility for controllable risks and create regulatory accounts for uncontrollable risks. However, to address concerns around the proliferation of regulatory accounts, BC Hydro also believes that with regard to the establishment of new regulatory accounts, there should be an objective measure used as a hurdle.

BC Hydro will only propose that a new regulatory account be established for amounts that are material and un-forecast or uncontrollable, and that should be collected from ratepayers. BC Hydro proposes that an un-forecast expenditure with a net income impact of greater than \$10 million would be considered material and be deferred for future recovery upon approval by the BCUC. BC Hydro also expects that there may also be circumstances in which a regulatory account may be required to address a required accounting treatment of costs and to ensure proper recovery of those costs in rates, in which case the net impact test would not apply.

In its F2005/F2006 Revenue Requirements Application (**F05/F06 RRA**), BC Hydro set out the criteria that were to be used to assess whether a risk was controllable or uncontrollable as follows:

1. BC Hydro's ability to directly or indirectly influence the cost category
2. The volatility of the cost category
3. The predictability of the cost category
4. The materiality of the cost category to the revenue requirement
5. The frequency of major exceptions within the cost category²

² BC Hydro F05/F06 RRA Final Argument, page 7.

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6. The BCUC, in its Decision concerning the F05/F06 RRA, accepted these criteria but also concluded that risk/reward considerations were a relevant criterion

3 Recovery of Regulatory Account Balances

3.1 Categorization of Regulatory Accounts

For the purpose of establishing appropriate recovery mechanisms, BC Hydro categorizes its regulatory accounts into the following categories, which also align with the three purposes for which BC Hydro uses regulatory accounts, as previously stated:

1. Variance Accounts (defer to a future period the differences between forecast and actual costs):
 - (a) Cost of Energy Variance Accounts
 - (b) Other Cash Variance Accounts
 - (c) Non-Cash Variance Accounts
2. Benefit Matching Accounts (matching of costs to benefits for future generations)
3. Rate Smoothing Accounts (smooth out rate impact of large non-recurring costs or rate increases)
4. IFRS Transition Accounts (both smooth out the impacts of transition to IFRS and match benefits to future generations)

In addition, BC Hydro also has three regulatory accounts that are Non-Cash Provisions and which are required under Canadian Generally Accepted Accounting Principles (**CGAAP**) in order to create a regulatory asset to match an accounting liability.

The amortization period for the recovery of individual regulatory accounts is first dependent on which of the above categories the account falls into (with the exception of the Non-Cash Provision accounts, which are drawn down as expenses are actually incurred) as different recovery mechanisms have been developed for each category which consider the characteristics of that category, as further described below.

Three points are worth noting regarding the recovery of regulatory accounts over the ten-year period of this report. First, accounts currently subject to the DARR will continue to be recovered through that mechanism, as modified by Directions No. 6 and 7 and as discussed further in section [3.1.1](#). BC Hydro believes that the DARR remains an appropriate recovery mechanism that minimizes the risk of not achieving intergenerational equity. Second, BC Hydro proposes that the recovery mechanisms are applied consistently over the life of the regulatory account. Finally, there is an alignment of costs and benefit recognition to address intergenerational equity concerns. This latter point is reflected in the contrasting shorter and longer recovery periods for different regulatory accounts based on the nature of the costs in the accounts. BC Hydro notes that these objectives may, from time to time need to be balanced with the objective of keeping rates low, which may give rise to rate mitigation or smoothing mechanisms or regulatory accounts, as discussed in the Executive Summary of this report.

The recovery mechanisms for each category of regulatory account is next discussed in further detail, with a summary of the rationale for each account, in [Table 3](#) and a summary of the amortization periods for each account in [Table 4](#).

3.1.1 Variance Accounts

Variance accounts capture the difference between forecast costs and revenues, on which rates are set in BC Hydro's revenue requirements applications, and the actual costs and revenues that are incurred or received by BC Hydro. Not all forecast costs

1 will be subject to variance account treatment. For those costs that BC Hydro has
2 control over, it generally accepts the financial risk of the difference between the
3 forecasted and actual costs. However, for those costs that BC Hydro does not have
4 control over, it can be difficult to accurately forecast them and therefore regulatory
5 accounts are often set up to capture the difference between the forecast and actual
6 costs and recover or refund the variance, through the rates charged to ratepayers.

7 This effectively transfers the forecast cost risk of these uncontrollable costs to
8 customers. BC Hydro considers that it is appropriate that these costs be paid by
9 ratepayers, as the costs are being incurred in the provision of service to its
10 ratepayers.

11 With regard to forecast revenue variances, it can also be difficult for BC Hydro to
12 forecast exactly when some revenues will be received. The current example of this
13 situation is the Real Property Sales Regulatory Account which will be set up in
14 F2015. The 10-Year Plan sets rates in F2015 and F2016 on the forecast assumption
15 that BC Hydro will earn \$10 million per year in real estate sales. In actual fact, real
16 estate sales may be greater or lesser than that amount in each of F2015 and F2016
17 and the Real Property Sales Regulatory Account will capture the difference between
18 the forecast and actual sales.

19 *Cost of Energy Variance Accounts:*

20 The cost of energy variance accounts are made up of the Heritage Deferral Account,
21 the Non-Heritage Deferral Account and the Trade Income Deferral Account. The
22 Heritage Deferral Account and Trade Income Deferral Account were created
23 pursuant to Heritage Special Direction No. HC2 and BC Hydro included in the
24 F05/F06 RRA a request to also set up the Non-Heritage Deferral Account to capture
25 variances between the forecast and actual energy costs that are not associated with
26 heritage assets.

1 The purpose of the cost of energy variance accounts (the three of which are also
2 referred to as the “Deferral Accounts”) is to defer the difference between forecast
3 and actual costs of energy and trade income, for recovery in a future period. For
4 example, the Deferral Accounts are used to smooth net income when energy costs
5 are unexpectedly higher or lower than forecast. This may happen due to variations in
6 reservoir water levels (due to more or less precipitation and snow melt in any given
7 year), resulting in the requirement for BC Hydro to change its mix of energy
8 resources to meet load demand. While rates are set assuming average water inflow
9 levels, the lower cost Hydro generation levels can fluctuate by +/- 5,000 GWh
10 between low and high water years, resulting in the need to sell surplus power or
11 purchase energy from the market. As water inflow levels are uncontrollable it is
12 appropriate that the risk of this cost should be borne by BC Hydro’s customers and
13 recovered in rates.

14 BC Hydro recovers the balances in the cost of energy Deferral Accounts using the
15 DARR. In the F09/F10 RRA Decision, the BCUC approved BC Hydro’s proposal that
16 the level of the DARR, to be effective on April 1 of a given year, be based on the net
17 balance in the Deferral Accounts as of September 30 of the previous year in
18 accordance with [Table 1](#) (this methodology is referred to as the **DARR Table**
19 **Mechanism**).

1

Table 1 Deferral Account Rate Rider

| Net Forecast Balance at March 31 | | % Rate Rider Following April 1st |
|----------------------------------|--------------|-------------------------------------|
| >\$ million | <=\$ million | |
| < -500 | -500 | (5.0) |
| -500 | -450 | (4.5) |
| -450 | -400 | (4.0) |
| -400 | -350 | (3.5) |
| -350 | -300 | (3.0) |
| -300 | -250 | (2.5) |
| -250 | -200 | (2.0) |
| -200 | -150 | (1.5) |
| -150 | -100 | (1.0) |
| -100 | -50 | (0.5) |
| -50 | 0 | 0.0 |
| 0 | 50 | 0.0 |
| 50 | 100 | 0.5 |
| 100 | 150 | 1.0 |
| 150 | 200 | 1.5 |
| 200 | 250 | 2.0 |
| 250 | 300 | 2.5 |
| 300 | 350 | 3.0 |
| 350 | 400 | 3.5 |
| 400 | 450 | 4.0 |
| 450 | 500 | 4.5 |
| 500 | > 500 | 5.0 |

2 The BCUC also determined in the F09/F10 RRA Decision that if BC Hydro considers
3 a deviation from the DARR Table Mechanism is warranted due to special
4 circumstances then BC Hydro should seek BCUC approval of such deviation. In the
5 Amended F12-14 RRA Decision Order No. G-77-12A, the BCUC determined that the
6 DARR was to be set at 5 per cent for F2013 and F2014. In addition, on
7 March 6, 2014 the Province issued Directives No. 6 and 7 which require that the
8 DARR be maintained at 5 per cent and the amount collected in excess of what
9 would otherwise be collected under the DARR Table Mechanism be used to offset
10 general rate increases. The DARR percentages that are expected to be applied to

the Deferral Accounts over the next 10 years are shown in [Table 2](#). [Table 2](#) indicates that the DARR percentages applied to Deferral Accounts will be nil for F2024, however, as noted in the Executive Summary, BC Hydro expects that due to the nature of these cost of energy Deferral Accounts, there will likely be balances in these accounts in each of the forecast years. The amounts shown in [Table 2](#) are based on the forecast of balances shown in [Table 6](#)

Table 2 DARR Percentages Applied to Deferral Accounts

| | F15 (%) | F16 (%) | F17 (%) | F18 (%) | F19 (%) | F20 (%) | F21 (%) | F22 (%) | F23 (%) | F24 (%) |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DARR | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Amount applied to Deferral Accounts | 5.0 | 5.0 | 4.5 | 3.5 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0 |
| Amount applied to general revenues | 0 | 0 | 0.5 | 1.5 | 3.5 | 4.0 | 4.5 | 4.5 | 4.5 | 5.0 |

Also, in Appendix H of the Amended F12-F14 RRA, BC Hydro provided an analysis and simulation of the DARR mechanism. The analysis looked at the probability of the cost of energy Deferral Account balances becoming zero at some point due to the revenues from the DARR and the fluctuations, positive and negative, in multi-year variations in water inflows. The analysis concluded that by using the DARR table mechanism there was an 80 per cent probability that the total balance in the deferral accounts would reach zero in the next 10 years, and almost a 100 per cent probability that the total balance in the deferral accounts would reach zero in the next 20 years.

Other Cash Variance Accounts:

Other Cash Variance Accounts capture the difference between forecast and actual costs for other non-energy related costs that BC Hydro considers to be uncontrollable, and for which it should not carry the risk. Examples of such accounts

are the Storm Restoration and the Total Finance Charges regulatory accounts. Balances in these accounts are generally recovered in the next test period, as they represent costs that do not provide long-lasting benefits to future generations of ratepayers and that therefore should be recovered from current ratepayers.

Non-Cash Variance Accounts:

The purpose of these accounts is to capture the differences between forecast and actual uncontrollable costs, which are non-cash in nature, for recovery from or refund to ratepayers in a future period. There are two regulatory accounts in this category: 1) the Foreign Exchange Gain/Losses and 2) Non-Current Pension Cost regulatory accounts. The recovery period for these accounts should match the underlying attribute. For example, the non-current pension cost account is amortized over the average remaining service life of employees and the foreign exchange gain/loss account is amortized on a straight-line pool basis over the weighted average life of the related debt.

3.1.2 Benefit Matching Accounts

The purpose of these accounts is to better match current costs to future benefits, so that each generation of customers pays its fair share of the costs. Benefit matching accounts include those regulatory accounts with some of the most significant balances. The largest balances are forecast for the DSM, SMI and Site C regulatory accounts, all of which are related to long-lasting assets that should not be paid entirely by current customers, but whose cost should be spread out for recovery from future customers to ensure intergenerational equity. Even though CGAAP accounting rules (that now include IFRS)³ may not permit the capitalizing of these costs, BC Hydro believes that capturing these amounts in a regulatory account provides for cost matching and a degree of rate smoothing for large expenditures

³ Government Organization Accounting Standards Regulation 257/2010 requires BC Hydro to adopt IFRS, subject to United States Financial Accounting Standards Board Accounting Standards Codification 980 (ASC 980), effective April 1, 2012 (F2013). ASC 980 provides for the use of regulatory accounting where directed by a rate-regulated utility's rate regulator.

1 that have a lasting benefit. For example, the Site C Regulatory Account was
2 established to provide a better matching of the up-front investigation costs with the
3 future benefits from this project. If the Site C investigation costs were expensed as
4 required under IFRS, it would cause an unfair rate impact on current customers,
5 considering the long development period before the Site C dam will be completed
6 and placed into service and the fact that customers over many decades after the
7 completion of the project will be receiving the benefits that incurring these costs
8 today will have allowed.

9 **3.1.3 Non-cash Provisions**

10 Non-cash provisions are regulatory accounts set up in response to loss provision
11 liabilities required under CGAAP. As such, these provisions are not recovered in
12 rates until such time as actual cash expenditures are made against the provision.
13 These regulatory accounts will remain until the requirement for the provision is no
14 longer required under CGAAP. The regulatory assets preserve BC Hydro's right to
15 collect in rates, subject to BCUC approval, any actual amounts paid in respect of
16 these provisions. The three non-cash provision regulatory accounts that BC Hydro
17 currently has are the First Nations Provisions, Environmental Provisions and Arrow
18 Water Provision regulatory accounts. These accounts are forecast to still have
19 significant balances at the end of F2024 totalling \$427 million in the First Nations
20 Provisions regulatory account (after accounting for actual costs and accretion over
21 the 10-year period)⁴ and \$131 million in the Environmental Provisions regulatory
22 account (drawdowns of this account extend out to F2045).

23 **3.1.4 Rate Smoothing Accounts**

24 Rate Smoothing accounts serve to mitigate the rate impact of either large one-time
25 expenditures or overall general rate increases that may otherwise be required to
26 recover BC Hydro's approved revenue requirements. During the period of the

⁴ The balance in the First Nations Provision Regulatory account also reflects the fact that some of the First Nations Settlement Agreements include payments in perpetuity.

1 F12-F14 ARRA, BC Hydro had two rate smoothing accounts 1) the Waneta rate
2 smoothing account; and 2) the F12-F14 rate smoothing account. Both of these
3 accounts will have expired by the end of F2015.

4 The Province, as part of the 10-Year Plan, by way of Directive No. 7 to the BCUC
5 requires BC Hydro to establish a rate smoothing regulatory account in F2015 in
6 order to smooth the impacts of the rate increases that would otherwise be applicable
7 in order to mitigate rate shock in any particular year. BC Hydro is forecasting that the
8 balance in the F2015 rate smoothing regulatory account will be nil at the end of
9 F2024.

10 **3.1.5 IFRS Transition Accounts**

11 Finally, IFRS Transition regulatory accounts have been put in place to smooth the
12 impact of the transfer to IFRS accounting rules, which came into effect at the start of
13 F2013. The move to IFRS does not create new costs nor increase financial risks;
14 rather the move to IFRS changes the timing of the recognition of revenues and costs
15 into income. The two IFRS Transition Accounts are the IFRS Pension and the IFRS
16 Property Plant & Equipment (**PP&E**) regulatory accounts. The IFRS Pension
17 regulatory account is required due to the different treatment under IFRS of
18 unamortized experience gains and losses on BC Hydro's pension and other
19 post-employment benefit plans. IFRS requires recognition of these amounts on the
20 balance sheet, which was not required under the previous accounting rules. The
21 IFRS PP&E regulatory account will phase in overhead costs of capital projects that
22 can no longer be capitalized under IFRS. These costs were previously recorded on
23 the balance sheet as property, plant and equipment, and will be amortized on the
24 same schedule as the assets they are associated with.

25 The IFRS Transition regulatory accounts have been set up under the criteria of rate
26 smoothing and benefit matching of asset costs with their useful lives. If BC Hydro
27 were to have recognized the impact of the transition to IFRS in its rates at the time of

the transition, the rate impact for customers would have been significant followed by a drop in rates the following year. The IFRS Transition regulatory accounts also act to recover the transition costs of pension and capital assets over the same period of time as if the IFRS rules had not come into being, and therefore have very long recovery periods of 20 years for the IFRS Pension regulatory account and 40 years for the IFRS PP&E regulatory account. The IFRS Transition regulatory accounts are forecast to have significant balances remaining at the end of F2024; the IFRS Pension regulatory account balance is forecast to be \$306 million, while the IFRS PP&E regulatory account balance is forecast to be \$976 million.

[Table 3](#) provides a summary of the rationale for determining appropriate recovery mechanisms for BC Hydro's regulatory accounts, based on the foregoing discussion regarding the nature of the accounts, and BC Hydro's objectives in recovering the account balances.

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Table 3 Rationale for Regulatory Account Recovery

| Type of Regulatory Account | Rationale for Recovery Mechanism |
|----------------------------------|--|
| Variance Accounts: | |
| Cost of Energy Variance Accounts | The DARR mechanism minimizes intergenerational inequity by being responsive to the changing net balance in the cost of energy variance accounts, while maintaining rate stability for customers to the extent practicable. |
| Other Cash Variance Accounts | To minimize intergenerational inequity, cash variance accounts should be recovered in the subsequent test period. |
| Non-Cash Variance Accounts | Non-cash variances should be recovered over the remaining period of the associated asset or liability (e.g. remaining service life of employees or remaining term of debt issues). |
| Benefit Matching Accounts | To achieve intergenerational equity, the recovery period should match the future benefit period of the expenditure. |
| Non-Cash Provisions | Since non-cash provisions are not recovered in rates, no recovery mechanism is required. The provision is drawn down when actual expenditures are charged to the deferral account. |
| Rate Smoothing Accounts | To balance the concerns of rate shock and intergenerational equity, the balances in rate smoothing accounts should be recovered over a period not exceeding 10 years. |
| IFRS Transition Accounts | To smooth in the impact of the transition to IFRS, the balances in these accounts should be recovered on the same basis as they would have been recovered in the absence of IFRS. |

3.2 Summary of Regulatory Account Recovery Mechanisms

[Table 4](#) provides a summary of the recovery mechanisms for each of BC Hydro's regulatory accounts.

Table 4 Recovery Mechanisms for Regulatory Accounts

| | Recovery Mechanism |
|---|-------------------------------------|
| Cost of Energy Variance Accounts | |
| Heritage Deferral Account | DARR |
| Non-Heritage Deferral Account | DARR |
| Trade Income Deferral Account | DARR |
| Other Cash Variance Accounts | |
| Storm Restoration | Next Test Period |
| Amortization of Capital Additions | Next Test Period |
| Total Finance Charges | Next Test Period |
| Rock Bay Remediation Costs | Next Test Period |
| Arrow Water Divestiture Costs | Next Test Period |
| Asbestos Remediation Costs | Next Test Period |
| Home Purchase Option Plan | Next Test Period |
| Real Property Sales (new) | Next Test Period |
| Non-Cash Variance Accounts | |
| Foreign Exchange Losses (Gains) | Straight-line Pool Method |
| Non-Current Pension Cost | Average Remaining Service Life |
| Benefit Matching Accounts | |
| Demand-Side Management | 15 Years |
| First Nations Costs | 10 Years (see Note 1, below) |
| Site C | To Be Determined |
| Future Removal & Site Restoration | As Dismantling Costs Are Incurred |
| Pre-1996 Contributions | 45 Years (to F2040) |
| Capital Project Investigation (closed) | 10 Years (to F2021) |
| Smart Metering & Infrastructure | 15 Years (starting in F2015) |
| Non-Cash Provisions | |
| First Nations Provisions | N/A |
| Environmental Provisions | N/A |
| Arrow Water Provision | N/A |
| Rate Smoothing Accounts | |
| F2010 ROE Adjustment (closed) | 6 Years (to F2015) |
| Waneta (closed) | 5 Years (to F2015) |
| F12-F14 Rate Smoothing (closed) | 3 Years (to F2014) |
| Rate Smoothing (new) | 10 years |
| IFRS Transition Accounts | |
| IFRS PP&E | 40 Years (to F2061) |
| IFRS Pension | 20 Years (to F2032) |

Note 1: BC Hydro proposes for the First Nations Costs regulatory account that the F2014 closing balance related to settlement payments and negotiation costs will be amortized over 10 years beginning in F2015. Future lump sum settlement payments are to be amortized over 10 years and annual negotiation costs and settlement payments will be expensed in the year of expenditure.

As shown in [Table 4](#) above, BC Hydro will be adding two new regulatory accounts as part of the 10-Year Plan related to the following:

- Real Property Sales – Due to the uncertainty in the timing of transactions, variances related to actual gain on sales compared to the gains included in the forecast used to set rates would be captured in this new account
- Rate Smoothing - As part of the Province's rate plan a Rate Smoothing regulatory account is needed to mitigate rate increases in the short-term

4 Application of Interest to Regulatory Accounts

The same principle of matching costs with benefits results in some regulatory accounts also attracting interest, as the carrying costs of maintaining the account balances may have a real cost in any particular period that needs to be recovered in rates. For cash variance regulatory accounts that come about through a direct cash outlay from BC Hydro, the related interest costs are generally included as part of the regulatory accounts. BC Hydro incurs financing charges to carry amounts that were paid in cash but not recovered in rates in the same test period. This category of account is recovered over a short period of time. For some accounts, the interest cost may be immediately expensed from the regulatory account to rates, rather than being carried over and amortized for recovery in future rates.

Variance regulatory accounts such as energy deferral accounts also attract interest because BC Hydro does not forecast variances in the accounts. When borrowing costs are incurred to fund these unplanned expenditures, they are deferred to keep ratepayers and the shareholder cost-neutral in the test period. For the remaining regulatory accounts, interest is generally applied when there is a working capital effect on BC Hydro.

Generally, benefit-matching accounts such as Site C also attract interest because of their similarities to PP&E under construction and Interest During Construction (IDC).

BC Hydro incurs financing charges as a result of not immediately recovering the costs of construction of large assets. It is therefore fair that these costs be recovered from future ratepayers, rather than be recovered from current ratepayers, so that there is intergenerational equity between current and future ratepayers who will be enjoying the benefits of the earlier expenditures.

Interest applied to regulatory accounts does not have the effect of increasing or decreasing BC Hydro's allowed net income, as the capitalized interest merely offsets the unbudgeted incremental interest costs. BC Hydro uses the weighted average cost of debt of the current period as the interest rate for regulatory accounts and IDC. The current interest rate is 4.73 per cent, and is applied on a monthly basis to the regulatory accounts.

Based on the forgoing criteria, BC Hydro applies interest to all regulatory accounts, with the exception of the following accounts:

- (a) Non-cash regulatory accounts (such as provisions)
- (b) Rate-smoothing regulatory accounts (since the annual transfers to a rate-smoothing regulatory account already reflect the impact of the account on finance charges)
- (c) The Total Finance Charges Regulatory Account (since interest costs are part of total finance charges)
- (d) Regulatory accounts that capture timing differences (such as pre-1996 Contributions)

BC Hydro has three accounts that should attract interest based on the above criteria, but which have not been subject to interest historically:

- (a) The Future Removal and Site Restoration Regulatory Account (**FRSR Regulatory Account**)

(b) The Capital Project Investigation Costs Regulatory Account (**CPI Regulatory Account**)

(c) The First Nations Costs Regulatory Account (**FNC Regulatory Account**)

The FRSR Regulatory Account is expected to be depleted by F2016 and the CPI Regulatory Account was closed in F2011 with the balance being amortized over 10 years beginning in F2012. Therefore, BC Hydro is not proposing any change to these accounts.

In addition, interest is not charged to the DSM regulatory account, as DSM expenditures generally go into service in the year of expenditure, and BC Hydro does not defer interest on capital projects after they enter service, similar to the treatment for PP&E.

However, in accordance with the above criteria for the charging of interest and as directed by Directive No. 6, BC Hydro will begin to apply interest to the FNC Regulatory Account commencing in F2015. The interest forecast to be charged to the FNC Regulatory Account will be added to the forecast annual amortization for the account.

[Table 5](#) below summarizes the application of interest to BC Hydro's regulatory accounts.

Table 5 Application of Interest to Regulatory Accounts

| | Interest Applied | Rationale |
|---|------------------|-------------------|
| Cost of Energy Variance Accounts | | |
| Heritage Deferral Account | Yes | |
| Non-Heritage Deferral Account | Yes | |
| Trade Income Deferral Account | Yes | |
| Other Cash Variance Accounts | | |
| Storm Restoration | Yes | |
| Amortization of Capital Additions | Yes | |
| Total Finance Charges | No | Finance Charges |
| Rock Bay Remediation Costs | Yes | |
| Arrow Water Divestiture Costs | Yes | |
| Asbestos Remediation Costs | Yes | |
| Home Purchase Option Plan | Yes | |
| Real Property Sales (new) | Yes | |
| Non-Cash Variance Accounts | | |
| Foreign Exchange Losses (Gains) | No | Non-Cash |
| Non-Current Pension Cost | No | Non-Cash |
| Benefit Matching Accounts | | |
| Demand-Side Management | No | Similar to PP&E |
| First Nations Costs | Yes | Starting in F2015 |
| Site C | Yes | |
| Future Removal & Site Restoration | No | Exception |
| Pre-1996 Contributions | No | Timing Difference |
| Capital Project Investigation (closed) | No | Exception |
| Smart Metering & Infrastructure | Yes | |
| Non-Cash Provisions | | |
| First Nations Provisions | No | Non-Cash |
| Environmental Provisions | No | Non-Cash |
| Arrow Water Provision | No | Non-Cash |
| Rate Smoothing Accounts | | |
| F2010 ROE Adjustment (closed) | No | Rate Smoothing |
| Waneta (closed) | No | Rate Smoothing |
| F12-F14 Rate Smoothing (closed) | No | Rate Smoothing |
| IFRS Transition Accounts | | |
| IFRS PP&E | No | Rate Smoothing |
| IFRS Pension | No | Non-Cash |

5 Forecast of Regulatory Account Balances

At the beginning of F2014, BC Hydro's regulatory accounts had a combined net balance of \$4.4 billion.⁵ The overall net balance will continue to increase by \$700 million billion to a forecasted maximum net balance in F2018 and F2019 of \$5.1 billion. As noted earlier in the Executive Summary, of the \$4.4 billion balance at the beginning of F2014, BC Hydro is already collecting in its rates 19 of the 27 regulatory accounts representing account balances of \$3.5 billion, or 80 per cent of the total balance.

The following [Figure 1](#) illustrates the actual and forecast regulatory account balances over the 20-year period from F2005 to F2024. As the amounts shown for F2014 forward are forecasts, actual results in future years will be different than those discussed in this report. [Figure 1](#) illustrates that there has been significant growth in the total regulatory account balances, the largest increase occurring in F2013, when the two IFRS Transition regulatory accounts and the Non-Current Pension Cost regulatory account added almost \$1.4 billion, as a result of the transition to IFRS accounting. As noted earlier, the move to IFRS does not create new costs nor increase financial risks, it merely changes the timing of the recognition of revenues and costs into income.

⁵ Forecast amounts will be updated in F15-F16 RRA.

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Figure 1 BC Hydro – Actual and Forecast
Regulatory Account Balances (\$ million)

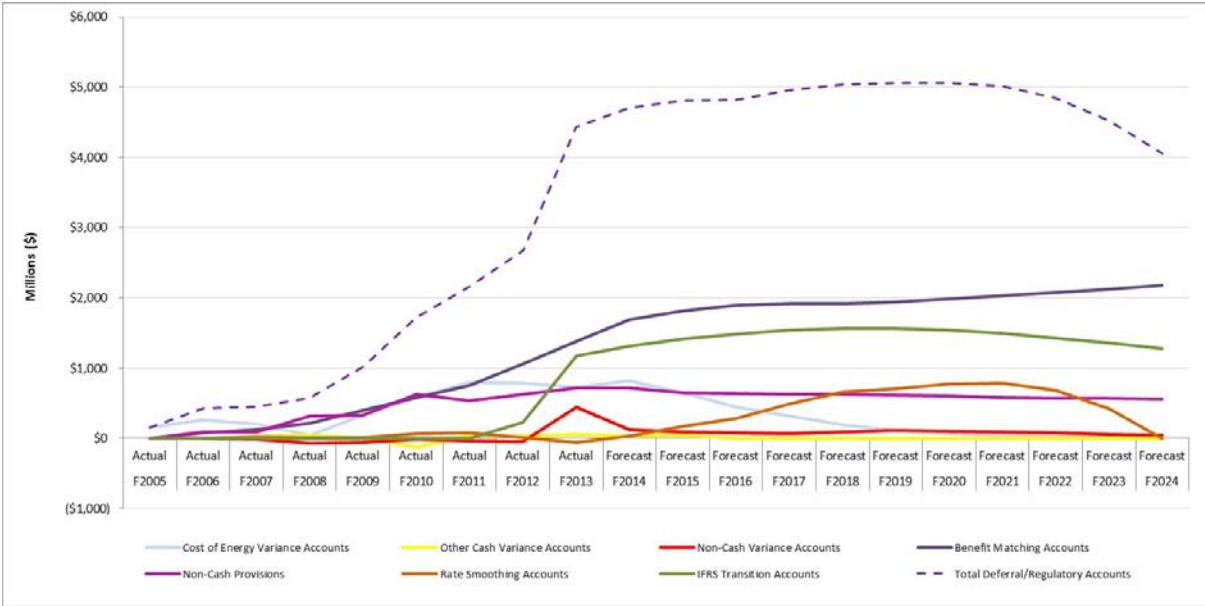


Table 6 Regulatory Account Balances – Actual F2005 to F2013 and Forecast F2014 to F2024 (\$ million)

| | | F2005 | F2006 | F2007 | F2008 | F2009 | F2010 | F2011 | F2012 | F2013 | F2014 | F2015 | F2016 | F2017 | F2018 | F2019 | F2020 | F2021 | F2022 | F2023 | F2024 |
|---|--|---------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | (\$ million) | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Actual | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast |
| Cost of Energy Variance Accounts | | | | | | | | | | | | | | | | | | | | | |
| 1 | Heritage Deferral Account | \$138 | \$241 | \$178 | \$78 | \$329 | \$325 | \$248 | \$244 | \$70 | \$65 | \$51 | \$35 | \$70 | \$41 | \$26 | \$15 | \$10 | \$4 | - | - |
| 2 | Non-Heritage Deferral Account | 131 | 205 | 209 | 52 | 74 | 119 | 362 | 367 | 468 | 386 | 303 | 209 | 129 | 75 | 47 | 27 | 18 | 7 | - | - |
| 3 | Trade Income Deferral Account | (115) | (213) | (202) | (103) | (80) | 122 | 188 | 175 | 190 | 370 | 290 | 200 | 124 | 71 | 45 | 26 | 17 | 7 | - | - |
| 4 | BCTC Deferral Account | N/A | 25 | 13 | 22 | 10 | 19 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Total | 154 | 257 | 198 | 49 | 333 | 585 | 798 | 786 | 728 | 822 | 644 | 445 | 323 | 187 | 117 | 69 | 45 | 18 | - | - |
| Other Cash Variance Accounts | | | | | | | | | | | | | | | | | | | | | |
| 5 | Storm Restoration | N/A | N/A | 33 | 43 | (2) | (5) | (1) | 1 | (3) | (3) | (1) | - | - | - | - | - | - | - | - | - |
| 6 | Amortization on Capital Additions | N/A | N/A | N/A | N/A | (3) | (6) | (10) | (2) | (6) | (18) | (9) | - | - | - | - | - | - | - | - | - |
| 7 | Total Finance Charges | N/A | N/A | N/A | N/A | 1 | (104) | (4) | 6 | 1 | (51) | (26) | - | - | - | - | - | - | - | - | - |
| 8 | Rock Bay Remediation Costs | N/A | N/A | N/A | N/A | N/A | N/A | 2 | 4 | 29 | 52 | 49 | - | - | - | - | - | - | - | - | - |
| 9 | Arrow Water Divestiture Costs | N/A | N/A | N/A | N/A | N/A | N/A | 8 | 8 | 8 | 9 | 4 | - | - | - | - | - | - | - | - | - |
| 10 | Asbestos Remediation | N/A | N/A | N/A | N/A | N/A | N/A | N/A | - | 8 | 19 | 10 | - | - | - | - | - | - | - | - | - |
| 11 | Total Taxes (closed) | N/A | N/A | N/A | N/A | (2) | (7) | (13) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 12 | GM Shrum 3 (closed) | N/A | N/A | N/A | N/A | 42 | 41 | 43 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 13 | Net Employment Costs (closed) | N/A | N/A | N/A | N/A | (29) | (62) | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 14 | Home Option Purchase Plan | N/A | N/A | N/A | N/A | 1 | 11 | 18 | 20 | 21 | 22 | 11 | - | - | - | - | - | - | - | - | - |
| 15 | Real Property Sales | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | - | - | - | - | - | - | - | - | - | - | - |
| | Total | - | - | 33 | 43 | 8 | (131) | 43 | 37 | 58 | 30 | 38 | - | - | - | - | - | - | - | - | - |
| Non-Cash Variance Accounts | | | | | | | | | | | | | | | | | | | | | |
| 16 | Foreign Exchange Losses (Gains) | (2) | 2 | (16) | (66) | (57) | (101) | (107) | (103) | (100) | (96) | (94) | (94) | (91) | (50) | (10) | (8) | (6) | (4) | (3) | (3) |
| 17 | Non-Current Pension Cost | N/A | N/A | N/A | N/A | N/A | 86 | 72 | 55 | 544 | 219 | 186 | 171 | 155 | 140 | 124 | 109 | 93 | 78 | 62 | 47 |
| | Total | (2) | 2 | (16) | (66) | (57) | (15) | (35) | (49) | 444 | 123 | 92 | 77 | 64 | 90 | 115 | 100 | 87 | 74 | 59 | 44 |
| Benefit Matching Accounts | | | | | | | | | | | | | | | | | | | | | |
| 18 | Demand-Side Management | 207 | 269 | 282 | 309 | 362 | 443 | 506 | 638 | 732 | 821 | 898 | 946 | 982 | 1,012 | 1,065 | 1,126 | 1,197 | 1,266 | 1,327 | 1,389 |
| 19 | First Nations Costs | 29 | 33 | 36 | 41 | 62 | 91 | 99 | 153 | 168 | 175 | 174 | 155 | 137 | 118 | 98 | 79 | 59 | 39 | 20 | 0 |
| 20 | Site C | N/A | N/A | 4 | 9 | 35 | 59 | 103 | 181 | 258 | 362 | 377 | 394 | 412 | 434 | 459 | 486 | 515 | 545 | 576 | 610 |
| 21 | Future Removal & Site Restoration | (238) | (227) | (211) | (192) | (172) | (159) | (140) | (120) | (88) | (66) | (41) | (10) | - | - | - | - | - | - | - | - |
| 22 | Pre-1996 Contributions | N/A | N/A | 14 | 27 | 38 | 49 | 59 | 67 | 75 | 81 | 87 | 92 | 95 | 96 | 91 | 86 | 81 | 76 | 71 | 65 |
| 23 | Smart Metering & Infrastructure | N/A | N/A | N/A | N/A | 9 | 19 | 34 | 92 | 192 | 282 | 287 | 286 | 264 | 242 | 220 | 198 | 176 | 154 | 132 | 110 |
| 24 | Capital Project Investigation (closed) | N/A | N/A | N/A | 12 | 32 | 43 | 49 | 44 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 6 | 1 | - | - | - |
| 25 | Procurement Enhancement (closed) | N/A | N/A | N/A | 7 | 29 | 40 | 38 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Total | (2) | 75 | 125 | 213 | 396 | 585 | 747 | 1,055 | 1,377 | 1,689 | 1,812 | 1,887 | 1,911 | 1,917 | 1,944 | 1,980 | 2,029 | 2,079 | 2,126 | 2,175 |
| Non-Cash Provisions | | | | | | | | | | | | | | | | | | | | | |
| 26 | First Nations Provisions | N/A | 88 | 90 | 319 | 326 | 308 | 300 | 391 | 386 | 416 | 401 | 405 | 407 | 413 | 418 | 420 | 413 | 418 | 422 | 427 |
| 27 | Arrow Water Provision | N/A | N/A | N/A | N/A | N/A | N/A | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 1 | 0 | - | - |
| 28 | Environmental Provisions | N/A | N/A | N/A | N/A | N/A | 321 | 229 | 230 | 331 | 295 | 239 | 231 | 220 | 208 | 195 | 181 | 166 | 151 | 141 | 131 |
| | Total | 0 | 88 | 90 | 319 | 326 | 629 | 533 | 625 | 720 | 714 | 644 | 640 | 631 | 625 | 616 | 602 | 581 | 569 | 564 | 557 |
| Rate Smoothing Accounts | | | | | | | | | | | | | | | | | | | | | |
| 29 | F07/F08 Depreciation Study (closed) | N/A | N/A | 19 | 14 | 10 | 5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 30 | Waneta (closed) | N/A | N/A | N/A | N/A | N/A | N/A | 30 | 40 | 25 | 15 | - | - | - | - | - | - | - | - | - | - |
| 31 | F2010 ROE Adjustment (closed) | N/A | N/A | N/A | N/A | N/A | 56 | 45 | 34 | 23 | 11 | - | - | - | - | - | - | - | - | - | - |
| 32 | F12-F14 Rate Smoothing (closed) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | (70) | (111) | - | - | - | - | - | - | - | - | - | - | - |
| 33 | Rate Smoothing | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | - | 166 | 287 | 491 | 663 | 703 | 775 | 785 | 686 | 425 | - |
| | Total | - | - | 19 | 14 | 10 | 61 | 75 | 4 | (63) | 26 | 166 | 287 | 491 | 663 | 703 | 775 | 785 | 686 | 425 | - |
| IFRS Transition Accounts | | | | | | | | | | | | | | | | | | | | | |
| 34 | IFRS Pension | N/A | N/A | N/A | N/A | N/A | N/A | N/A | - | 723 | 688 | 650 | 612 | 574 | 535 | 497 | 459 | 421 | 382 | 344 | 306 |
| 35 | IFRS PP&E | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 222 | 447 | 617 | 758 | 873 | 962 | 1,025 | 1,064 | 1,079 | 1,071 | 1,039 | 1,007 | 976 |
| | Total | - | - | - | - | - | - | - | 222 | 1,170 | 1,306 | 1,408 | 1,485 | 1,535 | 1,561 | 1,561 | 1,538 | 1,491 | 1,421 | 1,352 | 1,282 |
| | Total | \$ 150 | \$ 422 | \$ 449 | \$ 573 | \$ 1,016 | \$ 1,713 | \$ 2,160 | \$ 2,679 | \$ 4,434 | \$ 4,710 | \$ 4,804 | \$ 4,821 | \$ 4,955 | \$ 5,041 | \$ 5,055 | \$ 5,064 | \$ 5,017 | \$ 4,848 | \$ 4,525 | \$ 4,058 |

As shown in [Table 7](#), by the end of F2024 almost 84 per cent of the total balance in the regulatory accounts will be in five accounts, three that are benefit matching and two that relate to the transition to IFRS. In addition, \$557 million of the balance is comprised of non-cash provision accounts, which are not recovered in rates until such time as an actual cash expenditure is made against the provision.

Table 7 BC Hydro's Five Major Regulatory Accounts F2013 to F2024

| Regulatory Accounts - Year-End balances (\$ million) | | | | F2013 Actual | F2014 Forecast | F2024 Forecast |
|---|--|--|--|-----------------|-------------------|-------------------|
| Demand-Side Management | | | | 732 | 821 | 1,389 |
| Site C | | | | 258 | 362 | 610 |
| Smart Metering & Infrastructure | | | | 192 | 282 | 110 |
| IFRS Property, Plant & Equipment | | | | 447 | 617 | 976 |
| IFRS Pension | | | | 723 | 688 | 306 |
| Subtotal | | | | 2,352 | 2,770 | 3,390 |
| Cost of Energy Variance Accounts | | | | 728 | 822 | (0) |
| Non-Cash Provisions | | | | 720 | 714 | 557 |
| Other Regulatory Accounts | | | | 634 | 404 | 110 |
| Total | | | | 4,434 | 4,710 | 4,058 |
| Subtotal as Per Cent of Total | | | | 53% | 59% | 84% |

Further detail on each of the three benefit-matching and two IFRS Transition regulatory accounts is provided below.

DSM

This regulatory account captures expenditures made on DSM activities related to achieving customer energy savings. The 2002 and 2007 BC Energy Plans established DSM savings targets for BC Hydro, which were subsequently updated in the *Clean Energy Act*. The current targets are to reduce the expected increase in demand for electricity by the year 2020 by at least 66 per cent. The level of DSM expenditures has been set to achieve the targets set in the *Clean Energy Act*. As noted in section [2.1](#), in 1995 the BCUC directed that electric utilities in British Columbia were to defer and amortize into rates costs associated with DSM activities

that achieve energy savings. BC Hydro's historical and future DSM costs are amortized over 15 years in accordance with the ARRA Decision, BCUC Order No. G-77-12A. The DSM forecasted amounts in [Table 6](#) and [Table 7](#), above, are based on the amounts in the 2013 Integrated Resource Plan and expenditure levels may vary from the current forecast depending on targets established in the future. As a result, the DSM regulatory account balance could be greater or less in 10 years than is currently forecast.

Site C

This regulatory account captures the pre-capitalization Site C project expenditures. These costs are not eligible for capitalization under previous CGAAP nor IFRS as the Site C project has not completed the feasibility assessment phase and BC Hydro has not made the decision to proceed with the project. BC Hydro will apply to the BCUC to recover the costs through rates at a future time and over an appropriate time frame, when the asset is completed and benefits to the ratepayers from the investment are being realized. The expected in-service date for the project is F2024.

Smart Metering & Infrastructure

As directed by Government Direction No. 4 issued on September 25, 2013, this regulatory account will commence amortization in F2015, when the SMI program is fully implemented and in operation across BC Hydro's system. BC Hydro is proposing in this report that the SMI account be amortized over a 15-year period, based on the weighted average life of SMI assets.

IFRS Property, Plant & Equipment (PP&E)

This regulatory account enables the deferral of overhead costs that can no longer be capitalized under IFRS as they are not directly attributable to the construction of an asset. In the Amended F12-F14 RRA, BC Hydro proposed that overhead costs that can no longer be capitalized should not be immediately absorbed in rates as it would result in a significant rate impact, but rather should be deferred and transitioned into

operating expenditures over 10 years. In order to transition the overhead costs that can no longer be capitalized under IFRS into rates over a 10-year period, BC Hydro will reduce the amount of ineligible overhead costs that it would otherwise charge to this deferral account by 10 per cent per year, and instead charge the corresponding amount to operating costs. For example, BC Hydro charged 100 per cent of ineligible overhead costs to the PP&E regulatory account in F2012, and starting in F2013 will reduce the percentage of ineligible overhead costs that will be charged to the deferral account by 10 per cent each year. The amounts not charged to the deferral account will be included in current year operating costs.

BC Hydro is amortizing the additions to the regulatory account over 40 years, based on the composite life of BC Hydro's assets and to match the overhead costs with the benefits of the underlying assets.

IFRS Pension

Under previous CGAAP, BC Hydro recognized actuarial gains and losses related to pension costs in net income over the remaining service period of employees.

On the transition to IFRS, BC Hydro had to recognize all unamortized experience gains and losses on the pension and other post-employment benefit plans not previously recognized in its financial statements. To maintain its ability to recover this amount from customers, BC Hydro placed the amount that would otherwise be charged to its retained earnings on the transition to IFRS, into the IFRS Pension regulatory account.

BC Hydro is amortizing the amount in the IFRS Pension account over 20 years. This level of amortization results in approximately the same total revenue requirement under IFRS as under previous CGAAP.

6 Sensitivity Analysis

As was mentioned in the Executive Summary, one of the caveats to be considered with regard to the regulatory account balances shown in this report is that they are forecast amounts as of the end of F2014 and subject to change. The actual balances will be subject to sensitivities. The following table shows the effect on BC Hydro's costs of changes in some key variables. Each of the changes in costs shown will have an impact on regulatory account balances. For example, changes in hydro generation will impact actual energy costs and result in additions or reductions to the energy deferral accounts. Electricity trade margins will have a direct impact on forecasted balances in the trade income deferral account. One of the most dramatic impacts is due to market discount rates and their impact on BC Hydro's non-current pension costs regulatory account. A 1 per cent change in the market discount rate will result in a difference of approximately \$300 million in the non-current pension cost regulatory account balance.

Table 8 Cost Sensitivities

| Factor | Change | Approximate change in costs before regulatory account transfers (\$ million) |
|--|--|--|
| Hydro Generation (GWh) ⁶ | +/- 1% | +/- 15 |
| Electricity trade margins | +/- 10% | +/- 20 |
| Interest rates | +/- 1% | +/- 50 |
| Exchange rates (CAN\$ relative to US\$) | +/- \$0.01 | +/- 5 |
| Weather | +/- 1 degree C (in average temperature) | +/- 20 (colder weather decreases costs) |
| Market discount rate applicable to pension obligations | +/- 1% | +/- 300 |

⁶ Hydro generation levels can fluctuate by as much as +/- 5,000 GWh from average based on higher or lower water inflow levels. Average hydro generation levels are approximately 45,000 GWh/year.

7 Conclusion

In this report, BC Hydro has described and summarized its regulatory accounts, discussed the differing regulatory account categories and the recovery mechanisms that apply to each category, and set out the individual recovery period for each regulatory account.

The report shows that at the end of F2024, BC Hydro forecasts that it will have total regulatory account balances of \$4.06 billion, which is slightly less than the actual balance at the beginning of F2014 of \$4.4 billion. However, this is a reduction of just over \$1 billion from the forecast maximum amount of \$5.1 billion in F2019. In addition, over the 10-year period thirteen of the existing regulatory accounts will have their balances reduced to zero. Not included in those thirteen accounts are the three energy deferral accounts, which will be expected to have balances in them at the end of F2024, even though the forecast of the reductions of the current balances through the DARR mechanism show the balances being eliminated in F2023. As well, at the end of F2024 almost 84 per cent of the outstanding regulatory account balances (approximately \$3.4 billion) will be in five regulatory accounts that either match costs with associated benefits (DSM, Site C and SMI), or that relate to the transition to IFRS (IFRS PP&E and IFRS Pension) and 14 per cent will be comprised of non-cash provision accounts that are not recovered in rates until such time as an actual cash expenditure is made against the provision. In addition, of the \$4.4 billion balance at the beginning of F2014, BC Hydro is already collecting in its rates 19 of the 27 regulatory accounts representing account balances of \$3.5 billion, or 80 per cent of the total balance.

Finally, it should be noted that the forecast of regulatory account balances is subject to revisions as a result of changing spending priorities and changes in Government energy policy that may come about over the next 10 years. In addition, as the balances are forecasts, actual balances will be different and are subject to sensitivities to various factors, some which are described in section [6](#).

1 Although large, BC Hydro views the balances in its regulatory accounts as
2 acceptable and a reflection of BC Hydro's goals and objectives of ensuring
3 intergenerational equity and maintaining low rates for its customers. Regulatory
4 accounts are not uncommon in the utility industry; however, BC Hydro is aware of
5 the concerns about the growth in the balances of its regulatory accounts and their
6 potential effects on intergenerational equity. As a Crown Corporation, BC Hydro has
7 differing priorities and risk considerations than many IOUs. One of BC Hydro's
8 primary goals is to keep rates as low as practical, in addition to providing reliable
9 service and value. The goal of low rates is assisted by a matching of the costs of
10 major programs and projects such as DSM and SMI with the long-lasting benefits
11 that each deliver to future generations of ratepayers. BC Hydro believes that the use
12 of regulatory accounts is necessary to ensure that there is proper intergenerational
13 equity between its current and future customers. This growth has occurred, for the
14 most part, with approvals from the BCUC and full disclosure by BC Hydro.

15 In terms of financial risk, BC Hydro is backed by the full support of the Government
16 of British Columbia, which provides BC Hydro with the benefit of low borrowing costs
17 and avoids the need for it to directly access the financial markets for financing
18 needs. This support allows BC Hydro to carry balances in its regulatory accounts
19 that an IOU may find difficult to sustain, as large balances could impair the ability of
20 an IOU to access financing at low interest rates.

21 Looking at each regulatory account in isolation, there is a clear purpose for its
22 existence and a clear matching of costs incurred either to be recovered from
23 ratepayers over the short term for those costs that do not have a lasting benefit or
24 over a longer term for those costs with long-term benefits that are being delivered to
25 future generations of customers. Changing the amortization periods of these
26 accounts to reduce the balances sooner would violate BC Hydro's principled
27 approach of addressing intergenerational equity concerns and the proper matching
28 of costs and benefits. However, BC Hydro also recognizes that there are concerns

1 about the growth in the balances of its regulatory accounts and the length of time
2 that will be required to recover those balances.

3 In summary, BC Hydro acknowledges the concerns that have been raised by
4 interveners and stakeholders and does not dismiss them out of hand. However,
5 BC Hydro believes that the number and balances contained in its regulatory
6 accounts, and the recovery periods as set out in this report are not unreasonable
7 and are a reflection of BC Hydro's goals and objectives of ensuring intergenerational
8 equity and maintaining low rates for its customers.

Regulatory Accounts Report

Appendix A

**Discussion of Issues Raised by Interveners/BCUC in
RRA, the B.C. Government Review Panel and the
Auditor General of B.C.**

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1 Use of DARR Table Mechanism

Background

In the F09/F10 RRA Decision, the BCUC approved BC Hydro's proposal to implement the DARR Table Mechanism. At that time, it was expected that the net balance in the Deferral Accounts would not exceed the range of plus or minus \$500 million, and that the net balance in the Deferral Accounts would be both positive and negative over a reasonable period of time. However, there has never been a net credit balance in the Deferral Accounts, and the net debit balance has grown to be well in excess of \$500 million. The reasons for the growth in the net debit balance include:

1. Losses on energy hedges in F2009
2. Trade Income that was lower in F2010 than the forecast established by the BCUC in the F09/F10 RRA Decision, and that was lower in F2011 than the forecast established in the F11 RRA NSA
3. The debiting to the Trade Income Deferral Account in F2014 of the California Settlement amount of \$214 million
4. Transfers to the Non-Heritage Deferral Account in F2011 through F2014 of forecast increases in the cost of energy
5. Constraining the DARR below the level of the DARR that would result from application of the DARR Table Mechanism in F2011 and F2012

BCUC and Intervener Concerns with Current DARR Table Mechanism

Through information requests and intervener evidence, the BCUC and interveners have raised various concerns with the current DARR Table Mechanism, including:

-
1. The view that since variations from normal water inflows will be symmetric over time the Deferral Accounts should be self-clearing, or at a minimum should be cleared over a long period of time. In provision 9(i) of the F11 RRA NSA, BC Hydro committed to analyze a DARR based on a five-year amortization of the Trade Income Deferral Account and a ten-year amortization of the Heritage and Non-Heritage Deferral Accounts (the “Alternate DARR Mechanism”). BC Hydro responded to this commitment in Amended Appendix H of the Amended F12-F14 RRA. The analysis demonstrated that even though variations in water inflows might be symmetric over time, the additions to Deferral Accounts are not symmetric over time. Furthermore, under the Alternate DARR Mechanism, the net balance in the Deferral Account reaches plus or minus \$1 billion, and there is almost a 50 per cent probability that the total balance in the Deferral Accounts would not reach zero even once during the next 20 years. Conversely, the current DARR Table Mechanism would maintain the net balance in the Deferral Accounts in the range of plus or minus \$500 million and there is almost a 100 per cent probability that the total balance in the Deferral Accounts would reach zero at least once within the next 20 years.
 2. Given the current net balance in the Deferral Accounts, it was suggested that the DARR table be expanded beyond the current range of plus or minus \$500 million. As discussed above, the net balance in the Deferral Accounts should return to the range anticipated in the design of the current DARR Table Mechanism.
 3. It was noted that the DARR applies to a customer’s total bill (which includes distribution costs for customers served at distribution voltage) even though the Deferral Accounts relate only to generation costs. This has the effect of under-recovering costs from Transmission customers and over-recovering costs from smaller customers. Furthermore, the DARR applies to all components of a customer’s bill, potentially distorting marginal cost-based energy price signals.

1 While these concerns are valid, if the net balance in the Deferral Accounts
2 returns to lower levels, and if the net balance is both positive and negative over a
3 reasonable period of time, then these concerns would be mitigated to a large
4 degree.

5 4. It was also suggested that a quarterly adjustment to the DARR might be
6 appropriate, as is commonly done with cost of energy type riders in other
7 jurisdictions. However, since water inflows and Powerex net income can vary
8 widely from month to month, setting the DARR more frequently than annually
9 could result in unstable customer bills.

10 5. Variations on the current DARR Table Mechanism, including the Revenue
11 Stabilization Mechanism used by Pacific Northern Gas Ltd. and incorporating the
12 deferral account recovery in base rates, were explored in information requests,
13 but none offered any material improvement over the current DARR
14 Table Mechanism

15 6. It was suggested that the interest on the net balance in the Deferral Accounts be
16 expensed in the current period rather than deferred. However, the annual interest
17 on the net balance in the Deferral Accounts is not material, and furthermore all
18 differences between forecast and actual finance charges are subject to deferral
19 through the Total Finance Charges Regulatory Account.

20 7. It has been pointed out that due to load growth and rate increases the average
21 recovery period for the net balance in the Deferral Accounts will shorten over
22 time. This is mathematically correct, and may need to be addressed in future.
23 However, given the large debit balances that have been experienced, and
24 recognizing that the net balance in the Deferral Accounts was expected to be
25 both positive and negative over time, it is recommended that the current DARR
26 Table Mechanism be retained until the balance clears at least once.

8. In its decision on the Amended F12-14 RRA, the BCUC directed BC Hydro to include in its next RRA, as per Order No. G-77-12A, section 4:

- a. an analysis of, and a proposal for, a formulaic method for clearing the net balance in the Deferral Accounts that considers the forecast changes to the balance and does not contain a maximum/minimum limit in a range which has already been surpassed;
- e. an analysis as to whether the Trade Income Deferral Account should be treated as one of the Deferral Accounts. BC Hydro must also show what the rate relief would be in the absence of the TIDA being treated as one of the Deferral Accounts.

The response to Directive 4 (a) is discussed in item 2, above. With respect to item 4 (e), BC Hydro notes that Direction No. 7, issued on March 6, 2014 continues to treat the Trade Income Deferral Account as one of the Deferral Accounts that is subject to the DARR Table Mechanism.

However, for illustrative purposes, BC Hydro has undertaken the analysis and the impact of the suggested treatment of the Trade Income Deferral Account is shown in [Table A-1](#) Trade Income Deferral Account Analysis below which provides the rate impact analysis of removing the Trade Income Deferral Account from the DARR mechanism and amortizing the Trade Income Deferral Account balance to rates over five years. The analysis indicates that removing the TIDA from the DARR mechanism results in a rate increase of 0.9 per cent in F0215 and then rate decreases or no rate impacts for the remainder of the years to F2024.

1

Table A-1 Trade Income Deferral Account Analysis

| Options | \$ millions | Deferral / Regulatory Account Balance | | | | | | | | | |
|---|------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | F2015 | F2016 | F2017 | F2018 | F2019 | F2020 | F2021 | F2022 | F2023 | F2024 |
| 1. Remove TIDA from DARR; Amortize over 5 years (F15-F19) | Change in Account Balances: | | | | | | | | | | |
| | Heritage Deferral Account | (1) | (0) | 0 | (0) | (0) | (1) | (0) | (0) | (0) | (0) |
| | Non-Heritage Deferral Account | (48) | (20) | 3 | (9) | (16) | (31) | (0) | (0) | (0) | (0) |
| | Trade Income Deferral Account | 15 | 25 | 24 | 7 | (14) | (9) | - | - | - | - |
| | Total | (35) | 4 | 27 | (2) | (31) | (40) | (0) | (0) | (0) | (0) |
| | Change in Rate Increase: | | | | | | | | | | |
| | Annual | 0.9% | -0.1% | -0.1% | -0.1% | 0.0% | -0.5% | 0.0% | 0.0% | 0.0% | 0.0% |
| | Cumulative | 0.9% | 0.9% | 0.8% | 0.7% | 0.7% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% |
| | Rate Rider change | 0.0% | -1.5% | -1.0% | 0.0% | 0.0% | 0.1% | -0.6% | 0.0% | 0.0% | 0.0% |
| | | | | | | | | | | | |

2 With respect to item 4 (e), BC Hydro agrees with Direction No. 7 that the Trade
3 Income Deferral Account should continue to be treated as one of the Deferral
4 Accounts that are subject to recovery through the DARR Table Mechanism, for the
5 following reasons:

- 6 • The balance in the Trade Income Deferral Account could be in a credit position
7 while the overall balance in the Deferral Accounts is in a debit position. For
8 example, as shown in Table 1 of Appendix H of the Amended F12-F14 RRA, in
9 five of the seven years from F2005 to F2011 the Trade Income Deferral
10 Account had a credit balance whereas there was an overall debit balance in the
11 Deferral Accounts in every year. Had the Trade Income Deferral Account been
12 treated separately, there would have been a refund of a portion of the Trade
13 Income Deferral Account balance in those five years, thereby increasing the
14 Deferral Account balances to be recovered through the DARR. Since balances
15 in the individual Deferral Accounts may offset, it would be appropriate to
16 continue to manage the overall balance in the Deferral Accounts on a net basis.
- 17 • Since there is overlap between the drivers of the balances in the Heritage
18 Deferral Account, the Non-Heritage Deferral Account and the Trade Income
19 Deferral Account, including uncertainty in both water inflows and the cost of

market energy, it would be appropriate to continue to manage the overall balance in the Deferral Accounts using a single recovery mechanism

- The Trade Income Deferral Account exists because of the volatility of Trade Income. If recovery and/or refund amounts for the Trade Income Deferral Account were fixed for a particular test period as part of an approved revenue requirement, there would be no opportunity to vary these amounts in response to changing circumstances (such as a change in the balance in the Trade Income Deferral Account from a debit to a credit, or vice versa). Fixing the recovery and/or refund amounts for the test period as part of the approved revenue requirement could therefore increase the actual balance in the Trade Income Deferral Account at the end of the test period.

2 Issues Raised by the Auditor General of B.C.

The Auditor General of B.C. raised a number of concerns regarding BC Hydro's use of regulatory accounts in the Report: ***BC Hydro: The Effects of Rate Regulated Accounting***, including the following issues:

- The growth in BC Hydro's regulatory accounts to date and the forecast continued growth in the future
- Lack of a plan to recover the net deferred costs in its regulatory accounts
- Preference that BC Hydro fully adopt IFRS reporting, and ending the use of rate-regulated accounting, to ensure financial transparency

As discussed in section 5, the growth in BC Hydro's regulatory accounts over the next ten years is primarily in benefit matching accounts, including DSM and Site C which will provide benefits to ratepayers in the future, and in regulatory accounts related to the transition to IFRS, including the IFRS PP&E and IFRS Pension accounts. The balance in all other regulatory accounts is forecast to decrease by

almost \$1.3 billion over the ten years to the end of F2024, primarily due to recoveries from the DARR mechanism (refer to Table 6).

BC Hydro believes that its recovery plan for the regulatory accounts will result in the recovery of existing regulatory account balances over a reasonable time frame. In addition, as discussed in section 2.2 of the report, BC Hydro will be limiting requests for new regulatory accounts that are material and unforecasted or uncontrollable and that should be collected from ratepayers, with material defined as have a net income impact greater than \$10 million.

The Auditor General also raised several issues with respect to the operation of the regulatory accounts themselves, including:

- The use of regulatory accounts for expenditures that would otherwise be expensed impacts the presentation of BC Hydro's financial results, and could mislead users of the financial reports as to BC Hydro's performance.

BC Hydro Response: BC Hydro publishes audited financial reports in compliance with prescribed accounting regulations (reflecting current CGAAP with modified IFRS standards), in addition to reporting using regulatory accounting, for regulatory proceedings. BC Hydro therefore does not agree that the comprehensive disclosures in its financial statements are misleading to users.

- The inclusion of notional interest on regulatory account balances in its financial statements, which would give rise to an increase in the regulatory account balances and a longer time frame for the recovery of the account balance. In addition, the Auditor stated that this notional interest has the effect of increasing net income, and also influences calculations on return on equity, and dividend payments to government.

BC Hydro Response: BC Hydro agrees that inclusion of interest on certain regulatory accounts will result in an increase in the balance to be recovered from ratepayers at a later date. However, as discussed in section 4 of the report, interest applied to regulatory accounts does not increase or decrease BC Hydro's allowed net income, as the interest added to the regulatory account offsets the unbudgeted incremental interest costs.

- The Auditor General also raised questions about BC Hydro's relatively long, or in some cases the undetermined, time period for recovery of several of the regulatory account balances, and whether this gives rise to intergenerational equity issues, whereby future ratepayers pay for the benefits received by earlier generations of ratepayers.

BC Hydro Response: BC Hydro shares concerns about anything that would give rise to intergenerational inequity. However, BC Hydro believes that generational equity can be enhanced through the appropriate use and recovery of regulatory accounts. The greatest forecast growth in the regulatory accounts and the largest regulatory account balances are for those accounts in which the matching of costs and benefits for different generations is the basis of the deferral and amortization of costs.

3 BC Government Review Recommendations

Recommendation No. 53 directed BC Hydro to:

"Work with the province to perform a more in-depth review of the growth of regulatory accounts and determine a more sustainable approach to utilizing them over the long term."

BC Hydro has worked with the Province in the development of this Regulatory Accounts Report, which the Province has accepted as responsive to the above recommendation.

Regulatory Accounts Report

Appendix B

Detailed Description of Existing Regulatory Accounts

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1 Introduction

This appendix provides a detailed description of BC Hydro's regulatory accounts.

[Table B-1](#) below provides a summary of the actual balances in each of BC Hydro's regulatory accounts for the period F2007 to F2013.

[Table B-2](#) summarizes the currently approved recovery mechanism and applicability of interest for each of BC Hydro's regulatory accounts, and provides the BCUC Orders establishing or amending each account.¹

The remaining sections in this appendix describe each of BC Hydro's regulatory accounts that were active at the beginning of F2014, in the order presented in

[Table B-2.](#)

¹ Three of the regulatory accounts on Table 1 which are closed and have had zero balances for the last three years are not included on Table 2: the BCTC Deferral Account, the Net Employment Costs Regulatory Account and the F07/F08 RRA Depreciation Study Regulatory Account.

Table B-1 Historical Regulatory Account Balances

| End of Year Balance (\$ million) | | F2007 | F2008 | F2009 | F2010 | F2011 | F2012 | F2013 |
|---|--|--------------|--------------|----------------|----------------|----------------|----------------|----------------|
| Cost of Energy Variance Accounts | | | | | | | | |
| 1 | Heritage Deferral Account | 178.1 | 78.0 | 328.9 | 324.9 | 247.7 | 243.8 | 69.9 |
| 2 | Non-Heritage Deferral Account | 208.8 | 51.6 | 74.4 | 119.5 | 362.1 | 367.0 | 467.5 |
| 3 | Trade Income Deferral Account | (202.2) | (102.6) | (79.9) | 121.7 | 187.5 | 174.7 | 190.2 |
| 4 | BCTC Deferral Account (closed) | 13.3 | 21.5 | 9.7 | 18.6 | 0.0 | 0.0 | 0.0 |
| 5 | Total | 198.1 | 48.5 | 333.2 | 584.7 | 797.3 | 785.6 | 727.6 |
| Other Cash Variance Accounts | | | | | | | | |
| 6 | Storm Restoration Costs | 32.9 | 43.2 | (2.0) | (4.8) | (1.4) | 0.6 | (2.5) |
| 7 | GM Shrum 3 (closed) | 0.0 | 0.0 | 42.4 | 41.5 | 43.2 | 0.0 | 0.0 |
| 8 | Net Employment Costs (closed) | 0.0 | 0.0 | (29.1) | (61.6) | 0.0 | 0.0 | 0.0 |
| 9 | Total Taxes (closed) | 0.0 | 0.0 | (1.7) | (7.4) | (13.4) | (0.0) | (0.0) |
| 10 | Amortization of Capital Additions | 0.0 | 0.0 | (2.8) | (5.7) | (9.5) | (1.7) | (5.8) |
| 11 | Total Finance Charges | 0.0 | 0.0 | 0.6 | (104.1) | (4.0) | 5.5 | 1.2 |
| 12 | Rock Bay Remediation Costs | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 3.8 | 28.6 |
| 13 | Arrow Water Divestiture Costs | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 8.1 | 8.5 |
| 14 | Asbestos Remediation Costs | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| 15 | Home Purchase Option Plan | 0.0 | 0.0 | 0.7 | 11.0 | 18.4 | 20.1 | 21.3 |
| 16 | Total | 32.9 | 43.2 | 8.2 | (131.2) | 43.1 | 36.4 | 59.2 |
| Non-Cash Variance Accounts | | | | | | | | |
| 17 | Foreign Exchange Losses (Gains) | (15.8) | (66.0) | (57.0) | (100.8) | (106.7) | (103.1) | (100.1) |
| 18 | Non-Current Pension Costs | 0.0 | 0.0 | 0.0 | 85.6 | 71.5 | 54.6 | 543.9 |
| 19 | Total | (15.8) | (66.0) | (57.0) | (15.2) | (35.2) | (48.6) | 443.8 |
| Benefit Matching Accounts | | | | | | | | |
| 20 | Demand Side Management | 282.1 | 309.3 | 362.4 | 442.9 | 506.4 | 638.0 | 732.4 |
| 21 | First Nations Costs | 36.3 | 40.9 | 62.4 | 91.2 | 98.6 | 152.6 | 167.9 |
| 22 | Site C | 3.7 | 8.7 | 34.7 | 59.4 | 103.3 | 181.1 | 258.4 |
| 23 | Future Removal & Site Restoration | (210.9) | (192.2) | (172.2) | (159.4) | (140.3) | (120.4) | (87.4) |
| 24 | Pre-1996 Contributions | 14.0 | 26.7 | 38.3 | 49.0 | 58.7 | 67.3 | 74.8 |
| 25 | Procurement Enhancement (closed) | 0.0 | 7.3 | 29.2 | 40.3 | 38.0 | 0.0 | 0.0 |
| 26 | Capital Project Investigation (closed) | 0.0 | 12.2 | 32.0 | 42.8 | 49.0 | 44.3 | 39.5 |
| 27 | Smart Metering & Infrastructure | 0.0 | 0.0 | 8.9 | 18.5 | 34.0 | 91.9 | 191.6 |
| 28 | Total | 125.2 | 212.9 | 395.6 | 584.7 | 747.8 | 1,054.9 | 1,377.2 |
| Non-Cash Provisions | | | | | | | | |
| 29 | First Nations Provisions | 89.9 | 319.4 | 326.2 | 308.1 | 300.2 | 390.7 | 385.8 |
| 30 | Environmental Provisions | 0.0 | 0.0 | 0.0 | 320.5 | 229.0 | 230.2 | 330.9 |
| 31 | Arrow Water Systems Provision | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 3.6 | 3.4 |
| 32 | Total | 89.9 | 319.4 | 326.2 | 628.6 | 532.5 | 624.5 | 720.2 |
| Rate Smoothing Accounts | | | | | | | | |
| 33 | F07/F08 RRA Depn Study (closed) | 19.2 | 14.4 | 9.6 | 4.8 | 0.0 | 0.0 | 0.0 |
| 34 | F2010 ROE Adjustment (closed) | 0.0 | 0.0 | 0.0 | 56.4 | 45.1 | 33.8 | 22.6 |
| 35 | Waneta Rate Smoothing (closed) | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 40.0 | 25.0 |
| 36 | F12-F14 Rate Smoothing (closed) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | (69.7) | (110.9) |
| 37 | Total | 19.2 | 14.4 | 9.6 | 61.2 | 75.1 | 4.1 | (63.3) |
| IFRS Transition Accounts | | | | | | | | |
| 38 | IFRS PP&E | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 221.8 | 446.7 |
| 39 | IFRS Pension & OPEB | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 723.0 |
| 40 | Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 221.8 | 1,169.7 |
| 41 | Total | 449.5 | 572.4 | 1,015.8 | 1,712.8 | 2,160.6 | 2,678.8 | 4,434.3 |

**Table B-2 Recovery Mechanism, Applicability of
Interest and BCUC Order Numbers**

| Regulatory Accounts | Recovery Mechanism | Interest | BCUC Order No. |
|---|-----------------------------------|----------|---------------------------------------|
| Cost of Energy Variance Accounts | | | |
| Heritage Deferral Account | DARR | Yes | G-96-04, G-143-06 |
| Non-Heritage Deferral Account | DARR | Yes | G-96-04, G-143-06 |
| Trade Income Deferral Account | DARR | Yes | G-96-04, G-143-06 |
| Other Cash Variance Accounts | | | |
| Storm Restoration | Next Test Period | Yes | G-16-09 |
| Amortization of Capital Additions | Next Test Period | Yes | G-16-09, G-180-10, G-77-12A |
| Total Finance Charges | Next Test Period | No | G-16-09, G-180-10, G-77-12A |
| Rock Bay Remediation Costs | Next Test Period | Yes | G-75-11, G-55-12, G-57-13 |
| Arrow Water Divestiture Costs | Next Test Period | Yes | G-90-11 |
| Asbestos Remediation Costs | Next Test Period | Yes | G-7-13 |
| Home Purchase Option Plan | Next Test Period | Yes | G-55-09, G-180-10, G-77-12A |
| Non-Cash Variance Accounts | | | |
| Foreign Exchange Losses (Gains) | Straight-line Pool Method | No | G-47-02 |
| Non-Current Pension Cost | Average Remaining Service Life | No | G-16-09, G-180-10, G-77-12A |
| Benefit Matching Accounts | | | |
| Demand-Side Management | 15 Years | No | G-55-95, G-91-09 |
| First Nations Costs | 10 Years | Yes | G-53-02, G-11-08 |
| Site C | To Be Determined | Yes | G-143-06, G-16-09, G-180-10, G-77-12A |
| Future Removal & Site Restoration | As Dismantling Costs Are Incurred | No | G-96-04 |
| Pre-1996 Contributions | 45 Years (to F2040) | No | G143-06 |
| Capital Project Investigation (closed) | 10 Years (to F2021) | No | G-16-09, G-180-10, G-77-12A |
| Smart Metering & Infrastructure | 15 Years (starting in F2016) | Yes | G-55-09, G67-10, G115-11, G-77-12A |
| Non-Cash Provisions | | | |
| First Nations Provisions | N/A | No | G-56-06, G-11-08 |
| Environmental Provisions | N/A | No | G-88-10, G-7-13 |
| Arrow Water Provision | N/A | No | G-90-11 |
| Rate Smoothing Accounts | | | |
| F2010 ROE Adjustment (closed) | 6 Years (to F2015) | No | G-16-09 |
| Waneta (closed) | 5 Years (to F2015) | No | G-180-10 |
| F12-F14 Rate Smoothing (closed) | 3 Years (to F2014) | No | G-77-12A |
| IFRS Transition Accounts | | | |
| IFRS PP&E | 40 Years (to F2061) | No | G-77-12A |
| IFRS Pension | 20 Years (to F2032) | No | G-77-12A |

Note 1: Interest to be charged on the First Nations Costs Regulatory Account effective F2015.

2 Cost of Energy Variance Accounts

In 2004, subsequent to an inquiry into BC Hydro's heritage generation assets, Heritage Special Direction No. HC2 was issued by the Province. It required the BCUC to direct the establishment of the Heritage Deferral Account and the Trade Income Deferral Account. The former captures the variances between BC Hydro's actual and forecast cost of supply from heritage assets, and the latter captures variances between the actual and forecast net income of Powerex.

The BCUC directed the establishment of the Heritage Deferral Account and the Trade Income Deferral Account in its final order regarding BC Hydro's F05/F06 RRA. By the same order, the BCUC directed the establishment of the Non-Heritage Deferral Account to capture and defer variances between the forecast and actual energy costs that are not associated with the heritage assets.

The purpose of the cost of energy variance accounts (also referred to as the Deferral Accounts) is to defer the difference between forecast and actual costs of energy and trade income, for recovery in a future period. The cost of energy variance accounts are used to smooth BC Hydro's net income as energy costs are always higher or lower than forecast. This happens, for example, due to variations in reservoir water levels (as a result of more or less precipitation and snow melt in any given year), resulting in the requirement for BC Hydro to change its mix of energy resources to meet load demand. While rates are set assuming average water inflow levels, the lower-cost hydro generation levels can fluctuate by +/- 5,000 GWh between low and high water years, resulting in the need to sell surplus power or purchase energy from the market. As water inflow levels are uncontrollable, it is appropriate that the risk of this cost should be borne by BC Hydro's customers and recovered in rates.

BC Hydro recovers the balances in the cost of energy variance accounts using the Deferral Account Rate Rider (**DARR**) and section 3.1.1 of the Regulatory Accounts Report describes how the DARR is used to pay down those accounts.

Each of the Deferral Accounts is described in greater detail below.

2.1 Heritage Deferral Account

The Heritage Deferral Account (**HDA**) captures variances between the forecast and actual cost for the following components of the Heritage Payment Obligation:

- (a) Cost of energy. This item is expanded in greater detail below to provide clarification on the methodology used to determine variances:
 - (i) The total Heritage Energy volume (including Skagit/Seattle City Light commitments) is limited to 49,000 GWh per year. If the Heritage Energy volume including all market electricity purchases exceeds the Heritage Energy limit, the excess is transferred to Non-Heritage Energy in order to reduce the Heritage Energy volume to the Heritage Energy limit.
 - (ii) Cost of energy variances resulting from changes to compensation and mitigation costs, water rental remissions, or Skagit energy transportation contracts are eligible for deferral. These are price variances as they do not vary with volume.
 - (iii) All load curtailment costs are included as part of the Heritage Payment Obligation
 - (iv) Gains/losses on energy derivatives and financial instruments used to minimize energy costs are included as part of total energy costs
- (b) Variable costs related to thermal generation
- (c) Significant unplanned major maintenance costs greater than \$1 million related to single event equipment or infrastructure failure or caused by weather related events
- (d) Significant unplanned major capital expenditures having an incremental annual impact on BC Hydro's income statement greater than \$1 million related to

single event equipment or infrastructure failure or caused by weather related events

- (e) Amortization of unplanned deferred capital costs pursuant to BCUC Order No. G-53-02.
- (f) All net revenues from surplus hydro electricity sales
- (g) Skagit Valley Treaty revenues and ancillary services revenue

Notable changes in the balance in the HDA include the following:

- The balance increased from \$78 million in F2008 to \$329 million in F2009 due to purchases of high cost energy to offset lower than forecast hydro-generation due to low water inflows.
- The balance decreased from \$244 million in F2012 to \$70 million in F2013 primarily due to released water from BC Hydro's portion of the Non-Treaty Storage Agreement, higher surplus sales and rate rider recoveries.

2.2 Non-Heritage Deferral Account

The Non-Heritage Deferral Account (**NHDA**) captures variances between forecast and actual net energy costs in excess of the Heritage Energy limit of 49,000 GWh.

Specifically, the NHDA captures variances between the forecast and the actual cost for the following components of the Non-Heritage Cost of Energy:

- (a) Cost of energy - all non-Heritage energy costs. This item is expanded in greater detail below to provide clarification on the methodology used to determine variances:
 - (i) Any variances relating to fixed price gas transportation contracts flow through the NHDA as they do not vary with volume

-
- (ii) Future Trade: when Powerex purchases energy for future trade the cost of the purchase from the external party and the sale to BC Hydro of this energy is recorded in Powerex and is included as part of Trade Income. The BC Hydro side of the entry is shown as part of domestic energy costs (on consolidation, the Powerex revenue from BC Hydro and the BC Hydro energy costs from Powerex are eliminated). The difference between forecast and actual on the BC Hydro side relating to energy for future trade flows through the NHDA. The Powerex side of the transaction, which is part of Trade Income, flows through the Trade Income Deferral Account. Similar treatment is made when the energy is returned to Powerex.
 - (iii) Future Trade: when Powerex purchases energy for future trade, the Heritage Payment Obligation (**HPO**) is charged with a notional water rental charge for the use of this energy. The other side of this entry is shown as part of Non-Heritage energy. These entries are eliminated on consolidation. The difference between the forecast and actual notional water rentals that is part of the HPO flows through the HDA. The opposite variance relating to the Non-Heritage side of the notional water rental transaction flows through the NHDA.
 - (iv) Gains/losses on energy derivatives and financial instruments used to minimize energy costs are included as part of total energy costs.
 - (b) Significant unplanned major maintenance costs greater than \$1 million related to single event equipment or infrastructure failure.
 - (c) Significant unplanned major capital expenditures having an incremental annual impact on BC Hydro's income statement greater than \$1 million related to single event equipment or infrastructure failure or caused by weather related events
 - (d) Founding Partner Benefits and any CIS Credits under the ABS Contract

(e) Impact of load variance

In 2010, the Province issued the *Clean Energy Act* which consolidated BCTC and BC Hydro effective July 5, 2010. As part of the consolidation process, the BCUC issued Order No. G-16-11 dated February 10, 2011 which approved the transfer of BC Hydro's portion of the regulatory account balances on the books of BCTC and the remaining balance in BC Hydro's BCTC Deferral Account to the NHDA, and subsequent termination of the BCTC Deferral Account. At the time of the BC Hydro and BCTC integration, BCTC had the following 11 deferral accounts:

1. Revenue Deferral Account
2. Cost of Market Deferral Account
3. Emergency Maintenance Deferral Account
4. Regulatory Expenditure Deferral Account
5. International Financial Reporting Standards Deferral Account
6. Section 5 Transmission Inquiry Deferral Account
7. Polychlorinated Biphenyls Mitigation Deferral Account
8. Aboriginal Relations Deferral Account
9. F2011 BCTC Capital Portfolio Sustaining Cost Deferral Account
10. F2011 External Communications Regulatory Account
11. F2011 Labour Contracts Regulatory Account

BCUC Order No. G-16-11 also allowed for BC Hydro, on a go forward basis after the integration of BCTC and BC Hydro, to capture variances associated with the difference between forecast and actual transmission services revenues in the NHDA, as previously captured in the former BCTC Deferral Account. This order also allowed BC Hydro to capture transmission asset expenditures for significant

unplanned major maintenance costs greater than \$1 million related to a single event equipment or infrastructure failure in the NHDA.

Notable changes in the balance in the NHDA include the following:

- The balance decreased from \$209 million in F2007 to \$52 million in F2008 primarily due to lower market electricity purchases and higher transactions with Powerex
- The balance increased from \$119 million in F2010 to \$362 million in F2011 primarily due to an adjustment of \$233 million in accordance with the terms of the F11 RRA NSA
- The balance increased from \$367 million in F2012 to \$468 million in F2013 primarily due to a \$62 million IFRS conversion adjustment (approved by BCUC Order No. G-77-12A and confirmed by letter from the BCUC dated April 10, 2013) and the deferral of an increase in the cost of energy of \$103 million as set out in the F12-F14 RRA Decision

2.3 Trade Income Deferral Account (TIDA)

This deferral account was created pursuant to Heritage Special Direction No. HC2 which directed the BCUC to approve, if requested by BC Hydro, a deferral account to record variances between actual and forecast Trade Income.

Trade Income is defined as the net income of Powerex, as included in BC Hydro's consolidated financial statements, adjusted for rate-setting purposes to be no less than zero.

Prior to May 22, 2012, Trade Income was defined as the net income of Powerex adjusted for rate-setting purposes to be no less than zero and no greater than \$200 million.

On March 6, 2014, the Government issued Directive No. 7 which allows for the inclusion in the Trade Income Deferral account of any F2014 trading net loss from Powerex.

3 Other Cash Variance Accounts

3.1 Storm Restoration Costs

In the F09/F10 RRA Decision, the BCUC approved the ongoing deferral of the difference between actual storm-related restoration costs and the forecast storm-related costs included in each revenue requirements application. The forecast storm-related costs included in a revenue requirements application are average of the actual storm-related restoration costs for the five most recent “normal weather” years available at the time of that application.

Notable changes in the balance in this regulatory account include the following:

- The balance increased from zero in F2006 to \$33 million in F2007 due to restoration costs incurred as a result of major winter storms during the October 2006 to January 2007 period
- The balance increased from \$33 in F2007 to \$43 million in F2008 due to approved incremental operating expenditures to improve BC Hydro’s response to future storms
- The balance decreased from a \$43 million debit in F2008 to a \$2 million credit in F2009 due to the transfer of the F2008 closing balance to the NHDA

3.2 Amortization of Capital Additions

Due to uncertainty in the forecast timing of capital additions, in the F09/F10 RRA Decision the BCUC directed BC Hydro to defer in a regulatory account any differences between forecast and actual amortization of capital additions. The F11 RRA NSA and the F12-F14 RRA Decision extended this regulatory account to

the end of F2014. Government Directive No. 6 extends this regulatory account to F2015 and future years. At the end of F2014, the account is forecasted to have a credit balance of \$18 million.

3.3 Total Finance Charges

As a result of economic uncertainty and the potential volatility of interest rates, in the F09/F10 RRA Decision the BCUC directed BC Hydro to establish a regulatory account to defer any differences between forecast and actual finance charges for F2009 and F2010. The F11 RRA NSA and the F12-F14 RRA Decision extended this regulatory account to the end of F2014. Government Directive No. 6 extends this regulatory account to F2015 and future years.

Notable changes in the balance in this regulatory account include the following:

- The balance changed from a debit of \$1 million at the end of F2009 to a credit of \$104 million at the end of F2010. Due to global economic weakness, the Bank of Canada cut interest rates to unprecedented levels in 2009. As a result, BC Hydro's actual weighted average cost of debt in F2009 was 4.47 per cent compared to BC Hydro forecast of 6.04 per cent.
- The balance in the account changed from a credit of \$104 million at the end of F2010 to a credit of \$4 million at the end of F2011 primarily because the credit balance in the account at the end F2010 was refunded to customers in F2011
- BC Hydro is forecasting a credit at the end of F2014 of \$51 million.

3.4 Rock Bay Remediation Costs

In F2011 and following years, BC Hydro will incur expenditures to remediate properties at the Rock Bay area on Vancouver Island. Remediation costs are difficult to forecast and vary considerably from year to year. Since F2011 remediation costs were not included in the F11 RRA NSA, BC Hydro applied to the BCUC for approval

of a regulatory account to defer for future recovery the actual costs incurred in F2011 in relation to remediation activities at Rock Bay.

By Order No. G-75-11, the BCUC approved the establishment of the Rock Bay Remediation Regulatory Account to defer F2011 actual remediation expenditures. By Order Nos. G-55-12 and G-57-13, the regulatory account was extended to defer actual remediation costs incurred in F2012 and F2013 respectively.

The balance in the Rock Bay Remediation Regulatory Account increased from \$4 million in F2012 to \$29 million in F2013 primarily due to the settlement of legal action with Transport Canada and the balance at the end of F2014 is forecast to be \$52 million as significant remediation expenses have been incurred in F2014. Government Directive No. 6 requires that BC Hydro fully amortize the account balances over F2015 and F2016.

3.5 Arrow Water Systems Divestiture Costs

In the mid-1960s, BC Hydro relocated residents affected by the creation of the Hugh L. Keenleyside Dam and Arrow Lakes Reservoir to the newly constructed towns of Edgewood, Fauquier and Burton, and also to West Robson, all now part of the Regional District of Central Kootenay. BC Hydro built the drinking water systems in Burton, Fauquier and Edgewood when the towns were constructed, and upgraded and assumed control of the West Robson drinking water system to compensate for impacts related to construction of the Keenleyside Dam.

On January 4, 2011, BC Hydro divested the assets of the Arrow water systems to the Regional District of Central Kootenay at a nominal price. Costs related to the divestiture, including the write-down of assets, were not included in the F11 RRA NSA. Therefore, BC Hydro applied to the BCUC for approval to establish a regulatory account to defer for later recovery the costs associated with the divestiture of the Arrow water systems.

By Order No. G-90-11, the BCUC approved the establishment of the Arrow Water Systems Divestiture Costs Regulatory Account and the Arrow Water Systems Provision Regulatory Account. The Arrow Water Systems Divestiture Costs Regulatory Account has a forecasted balance of \$9 million at the end of F2014 will be fully amortized at the end of F2016.

3.6 Asbestos Remediation Costs

In F2013 and following years, BC Hydro will incur expenditures related to asbestos remediation at its facilities.

BC Hydro applied to the BCUC for approval of a regulatory account to defer the actual costs incurred for asbestos remediation that were not included in the Amended F12-F14 RRA.

In Order No. G-7-13, the BCUC approved the establishment of the Asbestos Remediation Regulatory Account for unplanned costs in F2013 and F2014 related to asbestos remediation of BC Hydro's facilities. The account is forecasted to have a balance of \$9 million at the end of F2014. Government Directive No. 6 continues this account for F2015 and future years, as BC Hydro expects to be incurring asbestos remediation expenditures for the foreseeable future.

3.7 Home Purchase Option Program

BC Hydro, through BCTC, undertook to upgrade the existing transmission lines that run through Ladner, Tsawwassen and Galiano, Parker and Salt Spring Islands, and which serve Vancouver Island.

By letter dated December 17, 2008 the Minister of Energy, Mines and Petroleum Resources directed BC Hydro to carry out a Home Purchase Option Program (**HPOP**) in relation to affected owners of residential properties in the Tsawwassen area.

By OIC No. 205 dated March 12, 2009, the Lieutenant Governor in Council made Direction No. 1 to the BCUC to allow BC Hydro to establish a regulatory account for the purpose of recovering from its ratepayers, in a subsequent period, the net HPOP costs incurred by BC Hydro.

In Order No. G-55-09 the BCUC approved the establishment of a regulatory account to defer the net costs of the HPOP in F2009 and F2010, plus interest. The F11 RRA NSA and the F12-F14 RRA Decision extended this regulatory account to the end of F2014 at which time it is forecasted to have a balance of \$22 million. This account will be fully amortized by F2016.

4 Non-Cash Variance Accounts

4.1 Foreign Exchange Gains and Losses

Foreign Exchange gains and losses are subject to external market forces over which BC Hydro has no control.

In Order No. G-47-02 the BCUC approved the deferral and amortization of foreign exchange gains and losses on the translation of foreign denominated long-term monetary items, using the straight-line pool method, for the fiscal year beginning April 1, 2002 and future periods.

The balance in this regulatory account changed from a debit of \$2 million in F2006 to a credit of \$107 million in F2011 primarily due to significant foreign exchange translation gains on un-hedged US debt as a result of the strengthening of the Canadian dollar relative to the US dollar. During this period, the Canadian dollar gained nearly 16 per cent in value relative to the US dollar. BC Hydro is forecasting a credit balance of \$96 million at the end of F2014.

4.2 Non-Current Pension Costs

Prior to International Financial Reporting Standards (**IFRS**) being adopted, experience gains and losses related to both pension and other post-employment benefits plans were not recognized immediately on BC Hydro's balance sheet. Rather, they were amortized over the expected average remaining service life of the employee group as part of non-current pension costs. Experience gains and losses include the difference between the estimated return on the plan assets and the actual amounts earned, the impact of the change in the market discount rate on the benefit obligations, and other impacts on the future benefits to be paid.

In the F09/F10 RRA Decision, the BCUC approved the establishment of a regulatory account to defer the difference between forecast and actual non-current pension costs in F2010 due to the economic crisis that occurred in 2008 and the resulting large negative impact on these costs. The F11 RRA NSA provided that this regulatory account be extended for F2011 and that the closing F2011 balance in the regulatory account be amortized over a five-year period beginning in F2012.

In the F12-F14 RRA Decision, the Non-Current Pension Costs Regulatory Account was continued for the F2012 to F2014 period because of the continuing uncertainty and potential volatility of the capital markets. In addition, the Non-Current Pension Costs Regulatory Account was expanded to include:

1. the difference between forecast and actual non-current other post-employment benefit costs, beginning in F2013
2. the actual amount of experience gains or losses related to BC Hydro's pension and other post-employment benefit plans, beginning in F2012

The balance in this regulatory account changed from a debit of \$55 million in F2012 to a debit of \$544 million in F2013 primarily due to (i) a \$322 million experience loss in F2012 and (ii) an addition of \$184 million for F2013 due to an experience loss in

F2013 and the difference between forecast and actual F2013 non-current pension costs related to other post-employment benefits. At the end of F2014, this account is forecast to have a balance of \$219 million.

5 Benefit Matching Accounts

5.1 Demand Side Management

Under previous CGAAP and IFRS, demand side management (**DSM**) expenditures do not qualify for capitalization.

In 1995, the BCUC directed all regulated gas, electric and steam heat utilities in British Columbia to defer and amortize into rates, costs associated with DSM activities that achieve energy savings. The DSM activities and associated costs generate energy savings to customers over a period of time longer than the year of expenditure, so the deferral and amortization of these costs aligns the recognition of costs with the period that customers receive benefits.

The costs in the DSM Regulatory Account reflect expenditures made on DSM activities, and include the direct and indirect expenditures related to achieving energy savings. Prior to F2013, these costs were amortized over a ten-year period, in accordance with BCUC Order Nos. G-55-95 and G-91-09. In the F12-F14 RRA Decision, the amortization period for historical and future DSM costs was increased from 10 years to 15 years. At the end of F2014, this account is forecast to have a balance of \$821 million.

5.2 First Nations Negotiation and Settlement Costs

In Order No. G-53-02, the BCUC approved the capitalization of actual negotiation and settlement costs related to First Nations settlements and the amortization of actual negotiation costs and approved settlement costs over a ten-year period. In accordance with BCUC Order No. G-11-08, BC Hydro must submit an application to

the BCUC for a determination that settlement costs may be recovered in rates. Beginning in F2015, the F2014 balance in the First Nations Negotiation and Settlement Costs regulatory account will be amortized over 10 years and also beginning in F2015, annual negotiation and settlement payments will be expensed in the year incurred. At the end of F2014 the balance in this account is forecast to have a balance of \$175 million.

5.3 Site C

In Order No. G-143-06, the BCUC approved the creation of a regulatory account in respect of Site C expenditures incurred in F2007 and F2008. The F09/F10 RRA Decision, the F11 RRA NSA and the F12-F14 RRA Decision extended the Site C Regulatory Account to the end of F2014 and Government Directive No. 6 further extended the account to the end of F2016.

This regulatory account captures the pre-capitalization Site C project expenditures. These costs are not eligible for capitalization under previous CGAAP nor IFRS as the Site C project has not completed the feasibility assessment phase and BC Hydro has not made the decision to proceed with the project. BC Hydro will apply to the BCUC to recover the costs through rates at a future time and over an appropriate time frame, when the asset is completed and benefits to the ratepayers from the investment are being realized. At the end of F2014 the account is forecasted to have a balance of \$362 million.

5.4 Future Removal and Site Restoration

Prior to 1995, future dismantling costs were accrued in amortization expense and recovered in rates. In F2005, the accounting rules changed with the introduction of asset retirement obligations, and future dismantling costs are no longer accrued in amortization expense.

In the F05/F06 RRA Decision, the BCUC directed BC Hydro to establish a Future Removal and Site Restoration (**FRSR**) regulatory liability equal to the future dismantling costs that had been previously recovered in rates, and to charge future dismantling costs for assets for which an asset retirement obligation has not been recorded against this regulatory account.

This regulatory account is drawn down as actual expenditures on dismantling costs are incurred. This account is forecast to have a credit balance at the end of F2014 in the amount of \$66 million.

5.5 Pre-1996 Contributions in Aid of Construction

In F2006 BC Hydro engaged Gannett Fleming to complete a depreciation study, which was filed as part of the F07/08 RRA. Gannett Fleming recommended that the amortization period for assets referred to as “Profile ID 99403 Distribution Pre-1996 Contributions in Aid” be increased from the then-approved period of 25 years to 45 years. Section 7(iv) of the F07/F08 RRA NSA provided that the amortization period for these assets would be retained at 25 years. In its financial records BC Hydro changed the amortization period for these assets from 25 to 45 years, and implemented the F07/F08 NSA commitment by creating a regulatory account to capture the difference in the revenue requirement impacts of a 45-year amortization period and a 25-year amortization period.

This regulatory account has a 45-year life and will be fully amortized at the end of F2040. This account is forecast to have a balance at the end of F2014 of \$81 million.

5.6 Capital Project Investigation (CPI) Costs (Closed)

Under previous CGAAP and IFRS, capital project investigation costs are to be treated as operating costs. In the F09/10 RRA, BC Hydro proposed the establishment of a regulatory account to defer capital project investigation costs and recover these costs over the useful life of the related assets. In the F09/F10 RRA

Decision, the BCUC approved the establishment of a regulatory account for CPI costs for F2009 and F2010. The F11 RRA NSA provided that additions to the CPI Regulatory Account would be discontinued at the end of F2011, and that the closing F2011 balance would be amortized beginning in F2012.

In the F12-F14 RRA, BC Hydro proposed that the balance in the CPI Regulatory Account be amortized over a ten-year period beginning in F2012. The F12-F14 RRA Decision approved the amortization of the F2011 closing balance in this regulatory account over 10 years commencing in F2012.

This regulatory account is closed and will be fully amortized by the end of F2023. At the end of F2014 the balance is forecast to be \$35 million.

5.7 Smart Metering and Infrastructure Program

The Smart Metering and Infrastructure Regulatory Account is used to capture costs associated with the SMI Program.

In BCUC Order Nos. G-55-09 and G-67-10, the BCUC approved the establishment of a regulatory account to defer the operating costs incurred by BC Hydro with respect to the SMI Program in F2009 and F2010 respectively. By Order No. G-115-11, the BCUC authorized BC Hydro to include its actual F2011 SMI Program operating costs up to \$5.8 million in the SMI Regulatory Account. BC Hydro's actual F2011 SMI Program operating costs were \$5.1 million.

In accordance with CGAAP, BC Hydro began amortizing existing revenue meter assets at an accelerated rate once the SMI Program received BC Hydro Board approval on September 16, 2010. In Order No. G-115-11, the BCUC authorized BC Hydro to accelerate the rate of depreciation on its existing meters and to include the increased amortization incurred in F2011 in the SMI Regulatory Account.

In the F12-F14 RRA Decision, BC Hydro was authorized to defer all net SMI costs over the F2012 to F2014 period to allow for a better matching of the timing of the

costs and benefits of the SMI Program. Specifically, BC Hydro was authorized to defer actual net operating costs, amortization of capital assets, finance charges and return on equity related to the SMI Program from F2012 to F2014. Government Directive No. 6 extends the deferral of these costs, including the costs of the meter choices program, to the end of F2016. BC Hydro will seek approval to recover these costs in F2017.

6 Non-Cash Provisions

6.1 First Nations Provisions

BC Hydro is required under CGAAP to record a loss provision to recognize any claims related to past grievances made against it by First Nations when certain conditions are met in respect of anticipated settlements.

In Order No. G-56-06, the BCUC approved the establishment of a regulatory account in the amount of a loss provision BC Hydro recorded as required under CGAAP in respect of two First Nations claims. In Order No. G-11-08, the BCUC amended the First Nations Provision regulatory asset to allow the balance of the regulatory account to reflect loss provisions as required under CGAAP related to any First Nations claim, and to allow the periodic adjustment of the balance of the regulatory account to reflect adjustments to the loss provisions required under CGAAP.

The recording of the loss provision liability and the corresponding First Nations Provision regulatory asset preserves BC Hydro's ability to seek recovery of actual settlement costs in rates in a future period.

BC Hydro reached settlements with the Kwadacha and Tsay Keh Dene First Nations which both included a lump sum payment in F2010 and ongoing annual payments starting in F2010. BC Hydro also reached a settlement with the St'at'imc First Nation which included a lump sum payment in F2012 and ongoing annual payments.

Settlement payments are transferred to the First Nations Negotiation and Settlement Costs Regulatory Account.

A loss provision liability can change due to the underlying circumstances of the loss exposure. BC Hydro from time to time re-evaluates the loss provision liability to determine whether the amount continues to be reasonable or whether further adjustment is required.

A loss provision liability can also change due to accretion expense. Under IFRS, loss provisions are measured on a present value basis and accretion expense reflects the adjustments required with the passage of time so that the balance of the loss provision liability will be equal to the amount needed to settle the liability provision. The forecast balance in this account at the end of F2014 is \$416 million.

6.2 Environmental Provisions

BC Hydro is required under CGAAP to record a loss provision to recognize environmental liabilities related to new PCB Regulations and the remediation of environmental contamination at Rock Bay.

The new PCB regulations require the removal of equipment contaminated with PCB contamination concentrations of at least 50 mg/kg but less than 500 mg/kg. If the PCB concentration is 50 mg/kg or less, the regulation requires appropriate disposal when the asset is removed from service.

The Environmental Provisions Regulatory Account preserves BC Hydro's ability to seek recovery of actual environmental costs in rates in a future period.

By Order No. G-88-10 the BCUC approved the establishment of the Environmental Provisions Regulatory Account in the amount of the loss provision liability recognized by BC Hydro in respect of compliance with the PCB Regulations and the remediation of environmental contamination at Rock Bay, and to periodically adjust

the amounts in the regulatory account to match the changes required under CGAAP in the loss provision liability.

In Order No. G-7-13, the BCUC approved BC Hydro's application to include in the Environmental Provision Regulatory Account provisions required under CGAPP related to the remediation of asbestos at its facilities. The need for the provision of asbestos remediation is a result of the requirement that BC Hydro immediately identify and remediate asbestos in compliance with recent WorkSafe BC orders concerning the management of asbestos at its facilities.

Actual costs associated with compliance with PCB Regulations are expensed as incurred. Actual costs associated with remediation activities at Rock Bay are deferred and included in the Rock Bay Environmental Costs Regulatory Account. Actual costs associated with asbestos remediation activities at BC Hydro facilities are deferred and included in the Asbestos Remediation Regulatory Account.

Notable changes in the balance in the Environmental Provisions Regulatory Account include:

- The decrease in the balance from \$321 million in F2010 to \$229 million in F2011 was primarily due to a reduction in the environmental provision for PCB remediation based on a review of BC Hydro's PCB remediation requirements
- The increase in the balance from \$230 million in F2012 to \$331 million in F2013 was primarily due to a new asbestos provision of \$43 million and \$61 million related to re-measurement of the discount rate used for the PCB provision

The forecasted balance in this account at the end of F2014 is \$295 million.

6.3 Arrow Water Systems Provision

As described in section 3.7, by Order No. G-90-11 the BCUC approved the establishment of the Arrow Water Systems Divestiture Costs Regulatory Account and the Arrow Water Systems Provision Regulatory Account.

BC Hydro is required under IFRS to record a loss provision liability in regards to the divestiture of the Arrow Water System. The recording of the loss provision liability and the corresponding Arrow Water Systems Provision regulatory asset preserves BC Hydro's ability to seek recovery of actual costs in rates in a future period.

In F2011, the actual provision included in the Arrow Water Systems Provision Regulatory Account was \$3.3 million representing the present value of water rates and parcel tax levies that BC Hydro has agreed to pay until eligible Arrow Water Systems customer property is transferred or there is a change in use. An additional \$0.5 million was added to the regulatory account in F2012 for contingency payments. As payments are made, this account is drawn down and amounts are recovered in rates, subject to approval by the BCUC. This account is forecasted to have a balance at the end of F2014 of \$3 million.

7 Rate Smoothing Accounts

7.1 F2010 ROE Adjustment (Closed)

On February 17, 2009, the B.C. Government issued OIC No. 074 amending sections 4 and 7 of HC2, effective February 17, 2009. The effect of OIC No. 074 was twofold:

- First it required the BCUC to increase BC Hydro's revenue requirements for F2010, F2011 and F2012 in order to afford BC Hydro the opportunity to earn its previously determined pre-income tax annual return on equity plus an additional 1.63 per cent (the ROE adder)

- Secondly, the BCUC was required to allow BC Hydro to establish a regulatory account to defer for recovery in a later fiscal year or years the difference between the F2010 revenue required pre-February 17, 2009 and the F2010 revenue required after the issuance of OIC No. 074

In the F09/F10 RRA Decision the BCUC approved the establishment of the F2010 ROE Adjustment Regulatory Account to defer the impact on BC Hydro's F2010 revenue requirement of the incremental rate of return on deemed equity as prescribed by HSD#2 as amended by OIC No. 074.

The F11 RRA NSA provided that the closing F2010 balance in this regulatory account be amortized over five years beginning in F2011. The regulatory account will be fully amortized by the end of F2015.

7.2 Waneta Rate Impact Smoothing (Closed)

The F11 RRA NSA provided that the initial rate impact of the large one-time \$850 million capital addition related to the Waneta Transaction would be smoothed as set out in the following table:

Table B-3 Waneta Rate Impact Smoothing

| (\$ million) | Deferral/ (Recovery) |
|--------------|-------------------------|
| F2011 | 30.0 |
| F2012 | 10.0 |
| F2013 | (15.0) |
| F2014 | (10.0) |
| F2015 | (15.0) |
| Total | 0.0 |

This regulatory account is closed and will be fully amortized by the end of F2015.

8 IFRS Transition Accounts

8.1 IFRS Property, Plant and Equipment

The IFRS Property, Plant and Equipment (**IFRS PP&E**) Regulatory Account enables the deferral of overhead costs that can no longer be capitalized under IFRS as they are not directly attributable to the construction of an asset.

Prior to IFRS, costs related to indirect overheads such as IT system maintenance and operating costs, HR support costs, finance support costs, building operations costs, training costs and system planning costs could be capitalized as property, plant and equipment. Under IFRS, these costs can no longer be capitalized.

In the Amended F12-F14 RRA, BC Hydro proposed that overhead costs that can no longer be capitalized not be immediately absorbed in rates as it would result in a significant rate impact, but rather be deferred and transitioned into operating expenditures over ten years. In order to transition the overhead costs that can no longer be capitalized under IFRS into rates over a ten-year period, BC Hydro proposed to charge 100 per cent of ineligible overhead costs to the IFRS PP&E Regulatory Account in F2012, and starting in F2013 reduce the percentage of ineligible overhead costs that would be charged to the regulatory account by 10 per cent each year.

BC Hydro also proposed to amortize the additions to the regulatory account over 40 years based on the composite life of BC Hydro's assets, in order to match the overhead costs with the benefits of the underlying assets.

In the Amended F12-F14 RRA, BC Hydro proposed an addition to the IFRS PP&E Regulatory Account for F2012 of \$178 million, plus \$8 million for related IDC.

In the F12-F14 RRA Decision, the IFRS PP&E Regulatory Account was approved as proposed by BC Hydro.

Subsequent to the F12-F14 RRA Decision, BC Hydro completed a capital cost allocation study which identified a further \$37 million of ineligible capital overheads in F2012, above the amount of \$178 million included in the Amended F12-F14 RRA. For F2012, BC Hydro recorded \$222 million in the IFRS PP&E Regulatory Account, consisting of the \$178 million included in the Amended F12-F14 RRA, the additional \$37 million identified in the capital cost allocation study, and \$7 million of related IDC. By letter dated April 10, 2013, the BCUC approved this \$222 million addition to the IFRS PP&E Regulatory Account for F2012.

On May 3, 2013, BC Hydro wrote to the BCUC seeking approval to include in the IFRS PP&E Regulatory Account the reduction to retained earnings on transition to IFRS related to the accounting for mass asset retirements and asset componentization, in the amounts of \$26 million and \$7 million respectively. The increase in the balance of the IFRS PP&E Regulatory Account from \$222 million in F2012 to \$447 million in F2013 is comprised of these amounts of \$26 million and \$7 million, plus F2013 ineligible overheads of \$197 million, less amortization of \$5 million.

The IFRS PP&E Regulatory Account will be fully amortized by F2061.

8.2 IFRS Pension and Other Post-Employment Benefits

Prior to the adoption of IFRS, experience gains and losses on the pension and other post-employment benefit plans were amortized over the average remaining service life of the employee group, but were not recognized on BC Hydro's balance sheet.

On transition to IFRS, BC Hydro was required to recognize on its balance sheet all unamortized experience gains and losses on the pension and other post-employment benefit plans not previously recognized in its financial statements. To maintain BC Hydro's ability to recover this amount from customers, BC Hydro proposed the establishment of the IFRS Pension Regulatory Account with an

opening liability balance in F2013 equal to the actual unamortized experience gains and losses on the pension and other post-employment benefit plans that BC Hydro had to recognize in its financial statements at the time of conversion to IFRS.

BC Hydro also proposed to amortize the balance in the IFRS Pension Regulatory Account over a period of twenty years, which results in approximately the same revenue requirement impact as would have resulted under previous CGAAP.

The amount of the unamortized experience gains and losses recognized on transition to IFRS was \$762 million.

The establishment of the IFRS Pension Regulatory Account was approved in the F12-F14 RRA Decision. The balance in the IFRS Pension Regulatory Account will be fully amortized by F2032.