2 page A-1 3 Please provide the service life estimates for transmission and distribution poles used in each of 4 Hydro's depreciation studies completed since 2004. Please identify and describe any change in 5 6 service life estimates from study to study. 7 8 9 Please refer to Table 1 for the service life estimates for transmission and distribution poles used Α. in the depreciation studies completed since 2004.1 10

Reference: Volume II, Wood Pole Line Management Program - Various, Tab 11, Appendix A,

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Table 1: Service Life Estimates

	Unit of Property	2005	2009	2011	2016	
	Officer Property	2003	2009	2011	Deemed Rate	Whole Life
Transmission	P05: Pole Structures - Wood	1.59-3.39%	1.39-4.83%	3.03%	2.43%	1.75%
Distribution	P07: Poles - Wood	2.63-3.21%	1.73-4.14%	3.44%	2.42%	2.33%

The service life estimates for transmission and distribution poles are reasonably consistent through the 2005 to 2011 studies. Additional details regarding the history of account P05 and P07 are included in Newfoundland and Labrador Hydro's response to NP-NLH-048, Attachment 1 at pp.II-15 to II-17.

¹ In the 2005 and 2009 depreciation studies there were 23 types of "Pole Structures – Wood" Unit of Property's ("UOP") ranging from 1.59% to 3.39% (2005) and 1.39% to 4.83% (2009). In addition, there were 9 "Poles – Wood" UOPs ranging from 2.63% to 3.21% (2005) and 1.73% to 4.14% (2009). Whereas, in the 2011 and 2016 depreciation study there was just one UOP for 'pole structures – wood' and one UOP for 'poles – wood'.

NEWFOUNDLAND AND LABRADOR HYDRO

ST. JOHN'S, NEWFOUNDLAND

2016 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES APPLICABLE TO PLANT IN SERVICE AS OF DECEMBER 31, 2015

Revised: September 19, 2017

Prepared by:



Calgary. Alberta



September 15, 2017

Newfoundland and Labrador Hydro Hydro Place, 500 Columbus Drive P.O. Box 12400 St. John's, NL A1B 4K7

Attention: Mr. Michael Conway, CA, CPA Manger Regulatory Finance

Ladies and Gentlemen:

Pursuant to your request, we have conducted a review and assessment of the electric generation, transmission and distribution systems of Newfoundland and Labrador Hydro ("NL Hydro") as of December 31, 2015. Our report presents a description of the methods used in the estimation of depreciation, the statistical analyses of service life and net salvage percentages and, the summary and detailed tabulations of annual and accrued depreciation.

We gratefully acknowledge the assistance of NL Hydro personnel in the completion of the review.

Respectfully submitted,

CONCENTRIC ADVISORS CANADA ULC

LARRY E. KENNEDY Vice President

LEK/ Project: 061170

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NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

EXECUTIVE SUMMARY

Pursuant to Newfoundland and Labrador Hydro's ("NL Hydro" or "Company") request, Concentric Advisors Canada ULC ("Concentric Advisors") conducted a depreciation study related to generation, transmission, distribution, and general plant accounts as of December 31, 2015.

Concentric Advisors is proposing changes from NL Hydro's last approved depreciation study. The first change is applicable to 2015 investment only. For all vintages up to and including 2014, depreciation rates are based on the straight line method using the Average Service Life (ASL) group procedure and applied on a remaining life basis consistent with the previous depreciation study. For current plant (i.e. 2015 vintage) the depreciation rates are based on the straight line method using the Equal Life Group (ELG) procedure and were applied on a remaining life basis. The calculations were based on attained ages and estimated average service life.

Secondly, this study makes provision for the recovery of the original cost of investment (net of anticipated gross salvage proceeds) and for the cost of removal¹ to be collected through depreciation expense, as compared to the current collection of cost of removal in the year of occurrence.

Third, to recognize the early and complete retirement of a large portion of the Holyrood Generating Station assets, the assets that are anticipated to be retired have been identified by NL Hydro and have been subjected to a truncation date of March 31, 2021. The truncation date results in a corresponding increase in each account's depreciation rate to reflect the complete recovery of the Holyrood assets that will be retired by the recommended truncation date of March 31, 2021. This change and results are shown in Table 1A and 1B.

Fourth, to recognize that NL Hydro utilizes deemed cost in its accounting systems for financial disclosure purposes, Concentric Advisors has developed deemed cost

¹ Does not include the expected costs of retirement that are included in Asset Retirement Obligation calculations



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accrual rates for each depreciable account as shown on Tables 1A and 1B. For post 2015 additions Concentric Advisors recommends and has provided whole life accrual rates that do not reflect the booked depreciation deficiency or surplus position as of December 31, 2015. These deemed cost accrual rates will then ensure the accurate recovery of NL Hydro's deemed cost investment as of December 31, 2015.

Fifth, in this report Concentric Advisors recommends the conversion to a more traditional group accounting concept. This recommendation is in response to a PUB directive resulting from the last depreciation study and negotiated settlement application relating to the historical NL Hydro departure from the use of typical regulated group depreciation accounting. Concentric Advisors has prepared a report titled "Evidence of Larry E. Kennedy Related To The Conversion To Group Accounting Methods" which is attached as Appendix 1 to this report. This evidence discusses the issues and concepts related to Group Depreciation and provides a recommendation to convert to Group Depreciation accounting. Under Group Depreciation no gain or loss on disposal is recognized since the accumulated depreciation relates to the entire group rather than to specific assets within the group. This recommendation was used in the development of the depreciation rates that are determined in the Concentric Advisors Depreciation Study.

The effect of the proposed partial incorporation of the ELG procedure, the changes to the average service lives, the introduction of the recovery of cost of removal related to the final retirement of assets and the elimination of losses on retirements², when applied to 2015 original cost is an approximate \$0.8M increase in annual depreciation expense as detailed below.

	<u>Expense</u>	<u>Change</u>
Previous Parameters	\$60,623,582	
Life Parameter Change	\$56,736,099	-\$3,887,483
Net Salvage Change	\$64,912,188	\$8,176,089
ELG Change	\$66,402,637	\$1,490,449
Losses on Retirements ³		-\$4,969,000

³ For the period 2012 to 2015.



² Includes costs associated with loss on retirement, disposal costs, and salvage proceeds that were previously charged to NL Hydro's income statement.

Total Change \$ 810,055

Concentric Advisors recommends the calculated annual depreciation accrual rates set forth herein as summarized by Tables 1A and 1B of the study by account detail. Supporting data and calculations are provided in Parts V and VI in the Supporting Documents.



NP-NLH-048, Attachment 1 2020 Capital Budget Application Page 8 of 695

PART I. INTRODUCTION



NEWFOUNDLAND AND LABRADO HYDRO DEPRECIATION STUDY PART I. INTRODUCTION

SCOPE

This report sets forth the results of the depreciation study for NL Hydro to determine the annual depreciation accrual rates and amounts for book purposes applicable to the original cost of NL Hydro's generation, transmission, distribution, and general plant assets as of December 31, 2015. The rates and amounts are based on the straight line remaining life method of depreciation. This report also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to the electric plant in service.

The service life and net salvage estimates resulting from the study were based on: consideration of current practice in the electric generation, transmission and distribution industry, including knowledge of service lives used for other electric utilities; a review of company practice and outlook as they relate to plant operation and retirement; a review of the company's upcoming capital and retirement projects; and informed professional judgment which incorporated analyses of historical plant retirement data as recorded through December 31, 2015.

PLAN OF REPORT

Part I. Introduction, contains statements with respect to the plan of the report, and the basis of the study. Part II. Development of Depreciation Parameters, presents descriptions of the methods used and factors considered in the service life and net salvage studies. Part III. Calculation of Annual and Accrued Depreciation presents the methods and procedures used in the calculation of depreciation. Part IV. Results of Study, presents summaries by depreciable group of annual and accrued depreciation. The Additional Evidence of Larry Kennedy Related to the Conversion to Group Accounting Methods is presented in Appendix 1. An overview of Iowa curves and the Retirement Rate Analysis are set forth in Appendix 2 of the report. Parts V and VI of this report are found in the Supporting Documents. Part V presents the results of the Retirement Rate



and Service Life Statistics and detailed tabulations of annual and accrued depreciation are presented in Part VI.

BASIS OF THE STUDY

Depreciation

As mentioned in the Executive Summary, Concentric Advisors is proposing a change in procedure for current plant from the ASL procedure to the ELG procedure. Concentric Advisors is proposing a gradual phased in approach to the ELG procedure which will result in a more accurate alignment of the depreciation expense to the consumption of the service value of the assets providing utility service. The Board of Commissioners of Public Utilities Board (the "Board") has long accepted the better accuracy of ELG depreciation rates for Newfoundland Power. In the circumstances of Newfoundland Power, the Board first accepted ELG rates for new plant in their 1978 general rate hearing. Following the 1982 general rate hearing, the Board accepted that ELG rates would be used for all plant, and since 1983 the procedure has been in place for Newfoundland Power. Concentric Advisors recommends a similar gradual phased in process as described above in order to minimize the impact to current customers while implementing a change that will benefit future customers.

Other jurisdictions in Canada and the United States have also concluded that ELG procedure is the most appropriate depreciation procedure⁴. In the United States, more utilities use ASL, although ELG is still used in some states. However, in Canada the use of ELG is much more pronounced. The ELG procedure is widely accepted for depreciation rates in Canada, and is the long-standing practice of Newfoundland Power. Its use for more than three decades by Newfoundland Power provides a net benefit to current customers and the transition of NL Hydro to ELG provides a net benefit for future customers for NL Hydro as well.

The incorporation of ELG procedure in the depreciation rate calculation is in compliance with the International Financial Reporting Standards (IFRS) when using group

⁴ In Canada, this includes most utilities in Alberta and Saskatchewan, in addition to Gaz Metro and Yukon Electrical Company Limited



I-3

accounting methods. External Auditors have generally been very accepting of the group accounting process when the ELG procedure is used by utilities reporting under the IFRS. The acceptance is based on the better and proper matching of the depreciation expense to the consumption of service value of the assets with the ELG procedure. Both the ASL and ELG procedures will result in 100% recovery of original costs. However, the ASL procedure utilizes an averaging principle which under recovers the original cost on assets that retire prior to the average service life while over recovering the original cost on assets that retire after the average service life. This inherent assumption results in an under recovery during the early years of a fixed asset account (or UOP) compensated by an over recovery in the later years but still reflecting complete recovery over the fixed asset account's life. The ELG procedure, however, recognizes that some assets retire before and after the average service. By recognizing the actual physical life retirements through its inherent calculations, the ELG procedure more accurately reflects each asset's original cost recovery to its physical life.

To recognize the early and complete retirement of a large portion of the Holyrood Generating Station assets, the assets that are anticipated to be retired have been identified by NL Hydro and have been subjected to a truncation date of March 31, 2021. This represents a small update from the previous Depreciation study where a truncation date of 2020 was identified. The current truncation date results in a corresponding increase in each account's depreciation rate to reflect the complete recovery of the Holyrood assets that will be retired by the recommended truncation date of March 31, 2021. This change and results are shown in Table 1A and 1B.

For most accounts, the annual and accrued depreciation were calculated by the straight line method ASL procedure for all vintages up to and including 2014 and the straight line method ELG procedure for 2015 vintages. For certain General Plant accounts, the annual and accrued depreciation are based on amortization accounting. Amortization accounting is used for certain General Plant accounts because of the disproportionate plant accounting effort required to track small assets in these accounts. Many regulated utilities in North America have received approval to adopt amortization accounting for these accounts. All the calculations were based on original cost, attained ages, and estimates of service lives and salvage.



This study also recommends the incorporation of the anticipated cost of removal within the depreciation rate calculations. However, the cost of removal percentage recommendations were moderated to ensure continuity of the past practices of NL Hydro. NL Hydro policy is to capitalize site preparation costs to the new assets in replacement projects. NL Hydro has indicated that they will continue with this practice which results in a less cost of removal percentage as compared to a number of the industry peers including Newfoundland Power. The NL Hydro policy reflects the IFRS view that the replacement of an asset is dependent upon the removal of the existing asset and thus should be capitalized to the new replacement asset. However, if there are no replacement assets (i.e. meaning replacement in the exact same location), NL Hydro currently records the removal costs to an income statement account in the year occurred. This practice has required that the removal entries be forecast for all test periods which requires estimation and inclusion in the test year's revenue requirement. Given the current practices requirement to estimate forecast removal costs, there exists a potential of material over or under recovery of NL Hydro's net income. Therefore Concentric Advisors recommends that cost of removal be charged to accumulated depreciation. The inclusion of an allowance for cost of removal in this manner provides for the proper matching of expenses to revenues, without any double counting of the estimates in revenue requirement request. The recovery of cost of removal in the depreciation rates is widely accepted throughout North America⁵, including Newfoundland Power for many Delaying collection until such costs are incurred results in a charge to decades. customers for plant from which they did not receive service and, as a result of the delay in recovery, also results in higher revenue requirements related to cost of removal. The appropriateness and accuracy of including cost of removal into NL Hydro's rates should be reviewed during each depreciation study to ensure they reflect that the most up to date information has been incorporated into net salvage rate development.

Gross salvage (i.e. proceeds upon retirement) have been incorporated into the Life component of depreciation rates (i.e. Table 1A-Life) and cost of removal (i.e. removal

⁵ For example, Canadian jurisdictions such as Alberta, British Columbia, Saskatchewan, Manitoba, Ontario, Quebec, Northwest Territories, Nova Scotia, and many jurisdictions in the United States.



expenditures upon retirement) into the Cost of Removal component of depreciation rates (i.e. Table 1B-Cost of Removal). This delineation of gross salvage and cost of removal is consistent with financial disclosure requirements of IFRS.

Service Life and Cost of Removal Estimates

The service life and cost of removal estimates used in the depreciation and amortization calculations were based on informed professional judgment which incorporated a review of management's plans, policies and outlook, a general knowledge of the electric utility industry, and comparisons of the service life and cost of removal estimates from our studies of other electric utilities. The use of survivor curves to reflect the expected dispersion of retirement provides a consistent method of estimating depreciation for electric plant. Iowa type survivor curves were used to depict the estimated survivor curves for the plant accounts not subject to amortization accounting.

The procedure for estimating service lives consisted of compiling historical data for the plant accounts or depreciable groups, analyzing this history through the use of widely accepted techniques, and forecasting the survivor characteristics for each depreciable group on the basis of interpretations of the historical data analyses and the probable future, which included reviews of detailed upcoming project business cases and operational staff interviews. Additionally, detailed asset retirement information (where known) for upcoming retirement projects was incorporated into the data files for the analysis of average service life. The combination of the historical experience and the estimated future yielded estimated survivor curves from which the average service lives were derived.

The procedure for estimating cost of removal considered to a large extent the approved cost of removal parameters for Newfoundland Power's 2015 depreciation study. However, due to differing accounting policies related to cost of removal between NL Hydro and Newfoundland Power, adjustments to NL Hydro's recommended cost of removal were required. Since at least the early 1980's, Newfoundland Power charges all cost of removal to accumulated depreciation (in accordance with Newfoundland Power's financial disclosure under Canadian and USGAAP) whereas NL Hydro's policy is to capitalize cost of removal to the new assets in replacement projects (in accordance with the IFRS requirements) and NL Hydro has indicated that they will continue with this



practice. This reflects NL Hydro's view that the replacement of an asset is dependent upon the removal of the existing asset and thus should be capitalized to the new replacement asset. However, if there are no replacement assets (i.e. meaning replacement in the exact same location), then Concentric Advisors recommends that cost of removal will be charged to accumulated depreciation. The effect of this policy is a reduced cost of removal expectation as NL Hydro is capitalizing a portion of the removal costs. NL Hydro does not have account specific cost of removal results however corporate removal costs are available and have been provided for the past four years. To reflect this recent corporate cost of removal experience, Concentric Advisors has applied a reduced percentage to all cost of removal accounts accordingly.

The depreciation rates should be reviewed periodically to reflect the changes that result from plant and reserve account activity. A depreciation reserve deficiency or surplus will develop if future capital expenditures vary significantly from those anticipated in this study.



PART II. DEVELOPMENT OF DEPRECIATION PARAMETERS



PART II. DEVELOPMENT OF DEPRECIATION PARAMETERS

DEPRECIATION

Depreciation, in public utility regulation, is the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are wear and tear, deterioration, action of the elements, inadequacy, and obsolescence, changes in the art, changes in demand, and the requirements of public authorities.

Depreciation, as used in accounting, is a method of distributing fixed capital costs, less net salvage, over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing electric utility service. Normally, the period of time over which the fixed capital cost is allocated to the cost of service is equal to the period of time over which an item renders service, that is, the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the straight-line method of depreciation.

The calculation of annual and accrued depreciation based on the straight line method requires the estimation of survivor curves and is described in the following sections of this report. The development of the proposed depreciation rates also requires the selection of group depreciation procedures, as discussed in Part III of this report.

ESTIMATION OF SURVIVOR CURVES

Survivor Curves

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages using the retirement rate method of analysis.



The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the lowa type curves. There are four families in the lowa system, labeled in accordance with the location of the modes of the retirements in relationship to the average life and relative height of the modes. The left-moded curves are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical-moded curves are those in which the greatest frequency of retirement occurs at average service life. The right-moded curves are those in which the greatest frequency occurs to the right of, or after, the average service life. The origin-moded curves are those in which the greatest frequency of retirement occurs at the origin, or immediately after age 0. The letter designation of each family of curves (L, S, R or O) represents the mode of the associated frequency curve with respect to the average service life. The numerical subscripts represent the relative heights of the modes of the frequency curves within each family.

A discussion of the general concept of survivor curves and retirement rate method is presented in Appendix 2 of this report.

Survivor Curve and Net Salvage Judgments

The survivor curve estimates were based on judgment which considered a number of factors. The primary factors were the statistical analysis of data; current policies and outlook as determined during conversations with management personnel, knowledge and review of upcoming capital projects, which included reviews of detailed upcoming project business cases and operational staff interviews. The average service life analysis also included a review of the impact of large retirements caused by forces of nature, and on the knowledge Concentric Advisors developed through the completion of numerous electric utility studies. Additionally, detailed asset retirement information (where known) for upcoming retirement projects was incorporated into the data files for the analysis of average service life in order to ensure that all known impacts of retirements could be considered.

NL Hydro has indicated that there is minimal historical net salvage data. As such, the initial estimates of net salvage were based on peer comparison and on the knowledge and experience of Concentric Advisors.



NL Hydro Accounts

Account B02 – Boiler System - The investment in Boiler System comprises 2.2% of the total depreciable plant. The investment in this account mainly consists of steam generator, boiler structure & boiler secondary super-heater. The currently approved average service life estimate is the lowa 35-R3. The retirement rate analysis prepared in this study reviewed the plant installed over the period of 1968 through 2015 and the retirement experience covering the period of 1968 through 2015. Over this period this account has experienced \$11,281,692 of retirements over a widely sparse range of ages as summarized on the observed life table provided on pages V-12 and V-13 of this report. An analysis of the currently approved Iowa 35-R3 did not provide a good fit over the observed data. To better fit the data a five-year increase to the average service life was deemed appropriate. As shown on the fitted smooth curve on page V-11, an Iowa 40-R3 provides a better fit to the observed data. Discussions and review with NL Hydro representatives suggested that the recommended 40-R3 was reasonable for this account. Therefore, the current approved Iowa 40-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has used its knowledge and experience, peer comparisons, knowledge of NL Hydro's capitalization and removal policies, and discussions with NL Hydro representatives to recommend negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is a reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account B05 – Buildings - Other - The investment in Buildings - Other comprises 2.7% of the total depreciable plant. The investment in this account mainly consists of building structures and components including HVAC systems, security, etc. The currently approved average service life estimate is the lowa 50-R0.5. The retirement rate analysis prepared in this study reviewed the plant over the period of 1965 through 2015. Over this period this account has experienced \$11,256,905 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-21 and V-22 of this report. As shown on the fitted smooth curve on page V-20, the currently approved lowa 50-R0.5 provides a reasonable fit to the complete observed data. A peer



comparison of Canadian utilities produced a wide range from 20 to 70 years. Discussions and review with NL Hydro representatives suggested that the currently approved lowa 50-R0.5 is a reasonable expectation for this account. Based on the above, the current approved lowa 50-R0.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 30 percent for their Hydro Production Structures, negative 35 percent for their Diesel Structures, 0 percent for their Substation Structures, negative 5 percent for their Distribution Structures, and 5 percent and 15 percent for their small and large General Plant Structures respectively. Nova Scotia Power Inc. utilizes negative 5 percentage for their Distribution Structures and for their General Plant Structures. Newfoundland Power Inc. has a net salvage percentage of negative 10 percent for their Hydro Production Structures, negative 20% for their Diesel Structures, negative 15 percent for their Transmission Substation Structures, and negative 10 percent and 0 percent for their small and large buildings respectively. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 3 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 3 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 3 percent to best represent the future expectations for the equipment in this account.

Account B06 – Buildings - Metal - The investment in Buildings - Metal comprises 1.3% of the total depreciable plant. The investment in this account mainly consists of powerhouse and pump-house structures and components, and metal control buildings in stations. The currently approved average service life estimate is the Iowa 55-R3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1965 through 2015. Over this period this account has experienced \$1,895,706 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-24 and V-25 of this report. As shown on the fitted smooth curve on page V-23, the currently approved Iowa 55-R3 still provides a reasonable fit to the complete observed data. A peer comparison of Canadian utilities produced a wide range from 20



to 70 years. Discussions and review with NL Hydro representatives suggested that the currently approved Iowa 55-R3 is a reasonable expectation for this account. Based on the above, the currently approved Iowa 55-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of 5 percent and 15 percent for their small and large buildings respectively. Nova Scotia Power Inc. utilizes negative 5 percentage. Newfoundland Power Inc. has a net salvage percentage of negative 10 percent and 0 percent for their small and large buildings respectively. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 3 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 3 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 3 percent to best represent the future expectations for the equipment in this account.

Account C09 – Circuit Breakers - The investment in Circuit Breakers comprises 1.5% of the total depreciable plant. The investment in this account mainly consists of breakers & upgrades, switches and switchgear. The currently approved average service life estimate is the lowa 55-R3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1965 through 2015. Over this period this account has experienced \$2,751,415 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-49 and V-50 of this report. A significant amount of retirements have occurred relatively early at ages 0.0 to 9.5. Concentric Advisors has placed less emphasis on this early retirement activity. An analysis of the currently approved lowa 55-R3 did not provide a good fit over the observed data. As shown on the fitted smooth curve on page V-48, an lowa 60-R2.5 provides an excellent fit to the observed data. Discussions and review with NL Hydro representatives agreed that the recommended lowa 60-R2.5 is a reasonable expectation for this account. Based on the above, the current approved lowa 60-R2.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has used its knowledge and experience, peer comparisons, knowledge of NL Hydro's capitalization and removal policies, and discussions with NL



Hydro representatives to recommend negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is a reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account C13 - Conductor - Transmission - The investment in Conductor -Transmission account comprises 2.6% of the total depreciable plant. The investment in this account mainly consists of transmission conductor. The currently approved average service life estimate is the lowa 60-R3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1967 through 2015. Over this period this account has experienced \$3,158,000 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-58 and V-59 of this report. As shown on the fitted smooth curve on page V-57, the currently approved Iowa 60-R3 provides a good fit over the available observed data. A peer comparison of Canadian utilities produced a range from 45 to 80 years. Discussions and review with NL Hydro representatives indicated that while there are no major issues with conductor, the smaller communities are converting to electrical power sources so there is a need to upgrade conductor size. They also indicated that existing conductor is mainly bare but there is some coated conductor and that there are no salt water issues. NL Hydro representatives suggested that the current 60-R3 was reasonable for this account. Based on the above, the current approved lowa 60-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 25 percent. Nova Scotia Power Inc. utilizes negative 10 percentage for their Transmission Conductor. Newfoundland Power Inc. utilizes negative 35 percentage for their Transmission Conductor. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 20 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 20 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 20 percent to best represent the future expectations for the equipment in this account.



Account C14 - Conductor - Distribution - The investment in Conductor -Distribution comprises 1.3% of the total depreciable plant. The investment in this account mainly consists of distribution conductors at 25 kV and below including primary, secondary and service drop conductors. The currently approved average service life estimate is the lowa 55-R3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1971 through 2015. Over this period this account has experienced \$2,500,908 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-61 and V-62 of this report. An analysis of the currently approved Iowa 55-R3 did not provide a good fit to the observed data. As shown on the fitted smooth curve on page V-60, an lowa 45-R3 provides an excellent fit over the available observed data. A peer comparison of Canadian utilities produced a wide range from 29 to 60 years. Discussions and review with NL Hydro representatives indicated that there are no major issues with conductor, the smaller communities are converting to electrical power sources so there is a need to upgrade conductor size. They also indicated that existing conductor is mainly bare but there is some coated conductor and that there are no salt water issues. NL Hydro representatives agreed that the recommended 45-R3 was reasonable for this account. Based on the above, the currently approved Iowa 45-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 25 percent. Nova Scotia Power Inc. utilizes negative 15 percentage for their Distribution Conductor. Newfoundland Power Inc. utilizes a range of negative 25 percent to negative 35 percent for their Distribution Conductor. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 14 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 14 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 14 percent to best represent the future expectations for the equipment in this account.

<u>Account C15 – Control, Meter, Relaying</u> - The investment in Control, Meter, Relaying account comprises 1.1% of the total depreciable plant. The investment in this



account mainly consists of plant and turbine protection, control meter/relay including revenue metering, station controls and protection. The currently approved average service life estimate is the lowa 30-R1. The retirement rate analysis prepared in this study reviewed the plant over the period of 1966 through 2015. Over this period this account has experienced \$2,594,863 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-64 and V-65 of this report. An analysis of the currently approved lowa 30-R1 did not provide a good fit to the observed data. As shown on the fitted smooth curve on page V-63, a recommended lowa 40-R2.5 provides a good fit to the observed data. Discussions and review with NL Hydro representatives suggested that the recommended lowa 40-R2.5 is a reasonable expectation for this account. Based on the above, the currently approved lowa 40-R2.5 is recommended to best represent the future expectations for the equipment in this account.

NL Hydro representatives have indicated that 0 percent is a reasonable net salvage expectation for this account. Based on these comments, Concentric Advisors recommends 0 percent to best represent the future expectations for the equipment in this account.

Account D01 – Dams, Dykes, Canals and Tunnels – The investment in Dams, Dykes, Canals and Tunnels is the largest account and comprises approximately 13.8% of the total depreciable plant. The investment in this account mainly consists of dams, dykes, canals, and tunnels. The currently approved average service life estimate is an lowa 100-R4. The retirement experience has been very small and as such has not resulted in any reliable historical indications. As such, the average service life recommendations were based primarily on the comments received from the NL Hydro operational staff, and on the experience of Concentric Advisors. A peer comparison of Canadian utilities was conducted which indicated a range from 70 years to 125 years. Discussions and review with NL Hydro representatives indicated that an active condition assessment program along with routine surveillance is utilized. No large capital programs are forecasted other than for routine maintenance. There was also general agreement that a 110-year life was reasonable for this account. Based on these comments and on



the peer comparison of Canadian utilities, an Iowa 110-R4 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 30 percent with Nova Scotia Power Inc. utilizing a range for all Hydro accounts of negative 20 percentage to negative 445 percent with an investment weighted average of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 25 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account D02 – Diesel Systems and Engines - The investment in Diesel Systems and Engines comprises 1.6% of the total depreciable plant. The investment in this account mainly consists of engines, generators, cooling systems, and switchgear. The currently approved average service life estimate is the lowa 25-S0.5. The retirement rate analysis prepared in this study reviewed the plant over the period of 1965 through 2015. Over this period this account has experienced \$20,478,011 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-79 and V-80 of this report. An analysis of the currently approved lowa 25-S0.5 did not provide a good fit over the observed data. As shown on the fitted smooth curve on page V-78, an lowa 25-L0.5 provides an excellent fit over the observed data. Discussions and review with NL Hydro representatives indicated that the historical indications and recommended 25-L0.5 was reasonable for this account. Therefore, an lowa 25-L0.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from two electric utilities. Northwest Territories Power Corporation has a recommendation of negative 25 percent and negative 5 percent for their Diesel Primer Movers and Generators respectively. Newfoundland Power Inc. has a net salvage percentage range of negative 20 percent to negative 65 percent for their Primer Movers and Generators. In



consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 11 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 11 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 11 percent to best represent the future expectations for the equipment in this account.

Account F06 – Fuel Systems - The investment in Fuel Systems comprises 1.6% of the total depreciable plant. The investment in this account mainly consists of fuel systems including storage tanks. The currently approved average service life estimate is the Iowa 50-R1.5. The retirement rate analysis prepared in this study reviewed the plant over the period of 1956 through 2015. Over this period this account has experienced \$4,654,704 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-109 and V-110 of this report. As shown on the fitted smooth curve on page V-108, an Iowa 50-R1.5 still provides a good fit over the observed data. Discussions and review with NL Hydro representatives indicated that the historical indications and recommended 50-R1.5 was reasonable for this account. Therefore, an Iowa 50-R1.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from two electric utilities. Northwest Territories Power Corporation has a recommendation of negative 75 percent. Newfoundland Power Inc. has a net salvage range of negative 20 percent to negative 65 percentage. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 11 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 11 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 11 percent to best represent the future expectations for the equipment in this account.

Account G01 – Gas Turbine Systems - The investment in Gas Turbine Systems comprises 2.6% of the total depreciable plant. The investment in this account mainly consists of turbine engine and generators. The currently approved average service life estimate is the Iowa 35-R4. The retirement rate analysis prepared in this study reviewed the plant over the period of 1968 through 2015. Over this period this account has



experienced \$5,403,986 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-112 and V-113 of this report. An analysis of the currently approved Iowa 35-R4 did not provide a good fit over the observed data. As shown on the fitted smooth curve on page V-111, an Iowa 45-R3 provides a good fit over the observed data. A peer comparison of Canadian utilities produced a range from 30 to 55 years. Discussions and review with NL Hydro representatives indicated that there are four Gas Turbines in NL Hydro's system. These turbines are mainly used for stand by and peaking purposes and that there has been little historical use and that this will likely continue in the near future. Discussions and review with NL Hydro representatives suggested that the current 35-year average service life appeared short and that the recommended 45-R3 was reasonable for this account. Therefore, the current approved Iowa 45-R3 is recommended to best represent the future expectations for the equipment in this account.

Newfoundland Power Inc. has a net salvage of negative 3 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 2 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 2 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 2 percent to best represent the future expectations for the equipment in this account.

Account G03 – Generators - The investment in Generators comprises 4.0% of the total depreciable plant. The investment in this account mainly consists of the electric power generator and assembly including rotor, bearings and excitation systems. The currently approved average service life estimate is the lowa 60-S4. The retirement rate analysis prepared in this study reviewed plant over the period of 1966 through 2015. Over this period this account has experienced \$2,804,759 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-118 and V-119 of this report. The currently approved lowa 60-S4 did not fit the observed data as well as the lowa 65-S3. A peer comparison of Canadian utilities indicated a range from 50 years to 70 years. Discussions and review with NL Hydro representatives suggested that the current 60-S4 appeared a little short and that an increase to a 65 year average service life was more reasonable for the equipment in this account. Based on



the above and the peer comparison of Canadian utilities, an Iowa 65-S3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 15 percent with Nova Scotia Power Inc. utilizing a range for all Hydro accounts of negative 20 percentage to negative 445 with an investment average of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 25 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account I03 – Insulators - The investment in Insulators comprises 1.6% of the total depreciable plant. The investment in this account mainly consists of insulators for transmission lines and stations. The currently approved average service life estimate is the Iowa 30-L3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1966 through 2015. Over this period this account has experienced \$6,332,763 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-136 and V-137 of this report. An analysis of the currently approved Iowa 30-L3 did not provide a good fit over the observed data. As shown on the fitted smooth curve on page V-135, an Iowa 35-L3 provides an excellent fit over the observed data. A peer comparison of Canadian utilities produced a range from 31 to 37 years. Discussions and review with NL Hydro representatives indicated that porcelain and glass insulators are used in NL Hydro's system. They also viewed that the historical indications of a recommended 35-L3 was reasonable for this account. Therefore, an Iowa 35-L3 is recommended to best represent the future expectations for the equipment in this account.

NL Hydro representatives have indicated an expectation of 0 percent as a reasonable net salvage expectation for this account. Based on these comments, Concentric Advisors recommends 0 percent to best represent the future expectations for the equipment in this account.



Account M10 – Miscellaneous Units of Property - The investment in Miscellaneous Units of Property comprises 1.0% of the total depreciable plant. The investment in this account mainly consists of studies and assessments. The currently approved average service life estimate is the lowa 20-R1. The retirement rate analysis prepared in this study reviewed the plant over the period of 1966 through 2015. Over this period this account has experienced \$3,507,943 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-176 and V-177 of this report. As shown on the fitted smooth curve on page V-175, a recommended lowa 22-R1.5 provides a good fit to the observed data. Discussions and review with NL Hydro representatives suggested that the recommended lowa 22-R1.5 is a reasonable expectation for this account. Based on the above, the current approved lowa 22-R1.5 is recommended to best represent the future expectations for the equipment in this account.

NL Hydro representatives have indicated that 0 percent is a reasonable net salvage expectation for this account. Based on these comments, Concentric Advisors recommends 0 percent to best represent the future expectations for the equipment in this account.

Account P03 – Penstock - The investment in Penstock comprises 2.2% of the total depreciable plant. The investment in this account mainly consists of penstock. The currently approved average service life estimate is an lowa 70-R4. The retirement experience has been very small and as such has not resulted in reliable historical indications. A peer comparison of Canadian utilities indicated a 60-year average service life. Discussions and review with NL Hydro representatives suggested that the current 70-R4 was reasonable for this account. Therefore, the currently approved lowa 70-R4 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from two electric utilities. Nova Scotia Power Inc. utilizes a range for all Hydro accounts of negative 20 percentage to negative 445 with an investment average of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 25 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this



account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account P04 - Pole Cribs and Pole Hardware - The investment in Pole Cribs and Pole Hardware comprises 4.5% of the total depreciable plant. The investment in this account mainly consists of pole cribs and pole hardware at the distribution level including cross arms, insulators, brackets, pole gains, and cut-outs/fuse assemblies. The currently approved average service life estimate is the lowa 50-L2. The retirement rate analysis prepared in this study reviewed plant over the years 1966 through 2015. Over this period this account has experienced \$9,700,360 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-196 and V-197 of this report. The currently approved lowa 50-L2 provided a good fit up to age 15, but does not fit to the ages afterwards. The lowa 35-S2.5 provides a more appropriate fit to the complete observed data. A peer comparison of Canadian utilities produced a range from 31 to 85 years. Discussions and review with NL Hydro representatives suggested that the historical experience and the recommended lowa 35-S2.5 is a reasonable expectation for this account. Based on the above and the peer comparison of Canadian utilities, the lowa 35-S2.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized the net salvage recommendation of Account P05 of negative 20 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 20 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 20 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 20 percent to best represent the future expectations for the equipment in this account.

Account P05 – Pole Structures - Wood - The investment in Pole Structures – Wood comprises 4.9% of the total depreciable plant. The investment in this account mainly consists of wood pole structures including inspection and refurbishment at the transmission level (46 kV and above). The currently approved average service life estimate is an Iowa 53-R4. The retirement rate analysis prepared in this study reviewed the plant installed over the period of 1960 through 2015 and the retirement experience



covering the period of 1965 through 2015. Over this period this account has experienced \$11,310,961 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-199 to V-200 of this report. The currently approved lowa 53-R4 did not provide a good fit to the observed data. As shown on the fitted smooth curve on page V-198, the lowa 57-R3 provides an excellent fit to the observed data. A peer comparison of Canadian utilities produced a range from 40 to 65 years. NL Hydro representatives suggested that the historical experience and resultant lowa 57-R3 are reasonable expectations for this account. Based on the above, the lowa 57-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 25 percent. Nova Scotia Power Inc. utilizes negative 35 percentage. Newfoundland Power Inc. has a net salvage percentage of negative 35 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 20 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 20 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 20 percent to best represent the future expectations for the equipment in this account.

Account P07 – Poles - Wood - The investment in Poles - Wood comprises 2.8% of the total depreciable plant. The investment in this account mainly consists of wood poles generally at the distribution level 25 kV and below. The currently approved average service life estimate is the lowa 37-R3. The retirement rate analysis prepared in this study reviewed the plant over the period of 1967 through 2015. Over this period this account has experienced \$11,072,192 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-204 and V-205 of this report. The currently approved lowa 37-R3 provided a poor fit on the observed data. A peer comparison of Canadian utilities produced a range from 38 to 65 years. NL Hydro representatives indicated that the historical life for this account appeared too short. They indicated that the purchase previously owned facilities and subsequent retirements (with an original vintage equal to the acquisition date) has resulted in a short average service

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life. Based on this, it was agreed that a peer comparison of Canadian utilities, Iowa 43-R1 would be a more appropriate estimate. As such, the Iowa 43-R1 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation for their station equipment of negative 25 percent with Nova Scotia Power Inc. utilizing a negative 40 percent. Newfoundland Power Inc. has a net salvage percentage of negative 35 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 20 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 20 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 20 percent to best represent the future expectations for the equipment in this account.

Account P10 – Powerhouse - The investment in Powerhouse comprises 3.9% of the total depreciable plant. The investment in this account mainly consists of powerhouse structures. The currently approved average service life estimate is an Iowa 75-R3. The retirement experience has been very small and as such has not resulted in any reliable historical indications. A peer comparison produced a life of 75 years. Discussions and review with NL Hydro representatives suggested that the current 75-R3 was reasonable for the equipment in this account. Based on the above and the peer comparison, an Iowa 75-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 30 percent with Nova Scotia Power Inc. utilizing a range for all Hydro accounts of negative 20 percentage to negative 445 with an investment average for all their Hydro accounts of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 10 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this account. Based on the above, Concentric Advisors recommends



negative 8 percent to best represent the future expectations for the equipment in this account.

Account R13 – Roads - The investment in Roads comprises 3.2% of the total depreciable plant. The investment in this account mainly consists of gravel and access roads. The currently approved average service life estimate is the Iowa 50-R4. The retirement experience has been very small and as such has not resulted in any reliable historical indications. A peer comparison of Canadian utilities produced a range from 40 years to 65 years. Discussions and review with NL Hydro representatives suggested that the current 50-year average service life appeared a little short and that an increase to a 60 year average service life was more reasonable for the equipment in this account. Based on the above and the peer comparison of Canadian utilities, an Iowa 60-R4 is recommended to best represent the future expectation for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation for their station equipment of negative 5 percent with Nova Scotia Power Inc. utilizing a range for all Hydro accounts of negative 20 percentage to negative 445 with an investment average of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 15 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.

Account T04 – Towers - The investment in Towers comprises 3.0% of the total depreciable plant. The investment in this account mainly consists of steel towers including inspection and refurbishment. The currently approved average service life estimate is the Iowa 65-R3. The retirement rate analysis prepared in this study reviewed plant over the period of 1967 through 2015. Over this period this account has experienced \$1,861,164 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-301 and V-302 of this report. Although the historical data is limited, it did indicate that a slightly higher Iowa curve of R4 did provide



a better fit to the historical data than the currently approved R3 curve. A peer comparison of Canadian utilities produced a range from 55 years to 85 years. Discussions and review with NL Hydro representatives suggested that the recommended 65-R4 was reasonable for this account. Based on the above, an Iowa 65-R4 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation for their station equipment of negative 25 percent with Nova Scotia Power Inc. utilizing a negative 35 percent. Newfoundland Power Inc. has a net salvage percentage of negative 35 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 20 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 20 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 20 percent to best represent the future expectations for the equipment in this account.

Account T05 – Transformers - Other - The investment in Transformers - Other comprises 3.4% of the total depreciable plant. The investment in this account mainly consists of transformers including power transformers, autotransformers and generator step-up transformers. The currently approved average service life estimate is the lowa 55-R3. The retirement rate analysis prepared in this study reviewed plant over the period of 1964 through 2015. Over this period this account has experienced \$6,447,435 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-304 and V-305 of this report. As shown on the fitted smooth curve on page V-303, the currently approved lowa 55-R3 provides a good fit over the observed data. A peer comparison of Canadian utilities produced a range from 40 to 50 years. Discussions and review with NL Hydro representatives suggested that the historical experience and currently approved lowa 55-R3 are reasonable expectations for this account. Based on the above, the current approved lowa 55-R3 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation for their station equipment of negative 20 percent with Nova Scotia Power Inc. utilizing a negative 69



percent. Newfoundland Power Inc. has a net salvage percentage of negative 15 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 6 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 6 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 6 percent to best represent the future expectations for the equipment in this account.

Account T07 – Transformers – Pole Mounted - The investment in Distribution Transformers – Pole Mounted comprises 1.4% of the total depreciable plant. The investment in this account mainly consists of pole mounted distribution transformers. The currently approved average service life estimate is the Iowa 30-R2. The retirement rate analysis prepared in this study reviewed plant over the period of 1965 through 2015. Over this period this account has experienced \$7,011,936 of retirements over a widely dispersed range of ages as summarized on the observed life table provided on pages V-310 and V-311 of this report. An analysis of the currently approved Iowa 30-R2 did not provide a good fit to the observed data. As shown on the fitted smooth curve on page V-309, an Iowa 30-L1 provides an excellent fit over the observed data. A peer comparison of Canadian utilities produced a range from 33 to 40 years. Discussions and review with NL Hydro representatives suggested that the historical experience of an Iowa 30-L1 is a reasonable expectation for this account. Based on the above, the currently approved Iowa 30-L1 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 20 percent. Nova Scotia Power Inc. utilizes negative 5 percentage for their Substation Equipment. Newfoundland Power Inc. utilizes negative 15 percentage for their Substation Equipment. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 8 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 8 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 8 percent to best represent the future expectations for the equipment in this account.



Account T09 – Turbines - The investment in Turbines comprises 3.5% of the total depreciable plant. The investment in this account mainly consists of turbines. The currently approved average service life estimate is the Iowa 50-R3. The retirement experience has been very small and as such has not resulted in any reliable historical indications. A peer comparison of Canadian utilities produced a range of 30 to 55 years. Discussions and review with NL Hydro representatives indicated that there are four gas turbines utilized for mainly stand-by and peaking purposes and have little historical usage. Discussions and review with NL Hydro representatives also suggested that the current 50-year average service life appeared a little short and that an increase to a 55-year average service life was more reasonable for the equipment in this account. Based on the above and the peer comparison of Canadian utilities, an Iowa 55-R2.5 is recommended to best represent the future expectations for the equipment in this account.

Concentric Advisors has utilized net salvage recommendations from three electric utilities. Northwest Territories Power Corporation has a recommendation of negative 15 percent with Nova Scotia Power Inc. utilizing a range for all Hydro accounts of negative 20 percentage to negative 445 with an investment average for all their Hydro accounts of negative 69 percent. Newfoundland Power Inc. has a net salvage percentage of negative 25 percent. In consideration of the above and knowledge of NL Hydro's capitalization and removal policies, Concentric Advisors views negative 14 percent as a net salvage expectation. NL Hydro representatives have indicated that negative 14 percent is reasonable for this account. Based on the above, Concentric Advisors recommends negative 14 percent to best represent the future expectations for the equipment in this account.



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PART III. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION



PART III. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION Review of Conversion to a Group Accounting Method

In the Public Utilities Board Order No P.U. 40(2012), the Board directed as follows:

"In accordance with the terms of the Settlement Agreement Hydro has agreed to provide, at the time of its next depreciation study, a report, on a limited number of groups of property, comparing the agreed methodology to the application of depreciation on a pure group basis. The Board notes that the findings of this report would not be applied retroactively but rather would provide information for future rate making purposes. In the Board's view this is a reasonable approach to resolve what appears to have been a difference in expert opinion on this specific issue. The Board will accept this recommendation."

Attached as Appendix 1 to this report is the "Evidence of Larry E. Kennedy Related to the Conversion to Group Accounting Methods" (Additional Evidence of Larry Kennedy"). This Evidence provides the detailed response to the above PUB directive resulting from the last depreciation study and negotiated settlement application relating to the historical NL Hydro departure from the use of typical regulated group depreciation accounting.

Group depreciation refers to the widely accepted procedure for rate regulated utilities where, rather than depreciating each item by itself (unit depreciation), a group containing homogenous units of plant which are alike in character, used in the same manner throughout the utilities service territory, and operated under the same general conditions is formed. Group depreciation recognizes that there will be differing lives for individual units within the group. For example, poles are often combined into a single group. Some poles will be retired due to storms or third party damage (for example automobile accidents, for strikes by farm equipment, etc.). Others will decay, while some will be displaced due to road relocations, and some will be replaced due to the need to provide underground service. However they are combined into the same group because they are homogenous units. With group depreciation, the entire group is considered as

⁶ Order No. P.U. 40(2012), page 3, lines 28-35.



the asset being depreciated, therefore, one depreciation rate is applied to the entire group and only one accumulated depreciation account is tracked for the entire group.

Under group depreciation no gain or loss is recognized for retirement of individual assets, as only one depreciation calculation is made on the entire group. Upon retirement of an asset from the group, the total original cost of the asset is debited to the accumulated depreciation account and credited to the asset account. Gross salvage received (if applicable) for the retired asset is credited to the accumulated depreciation account and cost of removal is debited to the accumulated depreciation account. Under group depreciation, since the accumulated depreciation relates to the entire group rather than to specific assets within the group, no gain or loss is recognized. This assumes that the group depreciation rate is accurate for the group as a whole and that the cost of the retired asset, net of gross salvage and cost of removal, is being fully provided for in the accumulated depreciation account.

A full description of the review is provided in the Additional Evidence of Larry Kennedy. Based on the review it is noted that long life accounts such as Wood Poles and Conductor are virtually neutral as to the use of the current hybrid approach versus traditional grouping accounting approaches. The Additional Evidence of Larry Kennedy recommends that:

- NL Hydro convert to a more traditional Group Accounting and Depreciation Practice for all accounts other than Amortized accounts as discussed below;
- That Amortized accounts (as noted with a Square or SQ Iowa curve) be subjected to a pure amortization procedure wherein the investment in these accounts is retired when it reaches its full amortization period. All retirements in these accounts should be made only at the expiration of the amortization period.

Group Depreciation Procedures

Based on the recommended conversion to Group Accounting, the selection of a group depreciation procedure is required. When more than a single item of property is under consideration, a group procedure for depreciation is appropriate because normally



all of the items within a group do not have identical service lives, but have lives that are dispersed over a range of time. There are two primary group procedures, namely, Average Service Life (ASL) and Equal Life Group (ELG).

In the average service life procedure, the rate of annual depreciation is based on the average service life of the group, and this rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to the average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

In the ELG procedure, the property group is subdivided according to service life. That is, each equal life group includes that portion of the property which experiences the life of that specific group. The relative size of each equal life group is determined from the property's life dispersion curve. The calculated depreciation for the property group is the summation of the calculated depreciation based on the service life of each equal life group.

In the determination of the depreciation rates in this study, the use of the average service life procedure has been continued for all vintages up to and including 2014. For current plant (i.e. 2015 vintages), the use of the equal life group procedure will be utilized providing an enhanced matching of depreciation expense to the consumption of service value.

Impact of the International Financial Reporting Standards (IFRS) in this Study

In the determination of the depreciation rates for Regulatory purposes Concentric Advisors has applied its depreciation parameters on an original cost basis. However, upon implementation of IFRS NL Hydro's reported asset values are calculated on a deemed cost basis in the disclosure of the plant in service in its accounting systems for financial disclosure purposes. Therefore the depreciation rates need to recognize that the cost basis is a deemed cost rather than an original cost. To ensure proper and accurate recovery, Concentric Advisors has applied its developed depreciation expense (as determined from an original cost base) to NL Hydro's deemed costs to develop



deemed cost accrual rates for each depreciable account as shown on Table 1. Concentric Advisors notes that the deemed cost depreciation rates are for financial disclosure purposes only. These deemed cost accrual rates will then ensure the accurate recovery of NL Hydro's deemed cost investment as of December 31, 2015.

The above deemed cost accrual rates reflect the position of each account's booked depreciation reserve as of December 31, 2015. If an account's booked depreciation reserve is in a deficiency or surplus position, the resultant accrual rate reflects an adjustment to correct this deficiency or surplus over the applicable account's composite remaining life. However, for future additions (i.e. post 2015), the application of the developed deemed cost accrual rates will incorrectly adjust the post 2015 addition's depreciation expense due to the above 2015 book depreciation reserve adjustment for each applicable account. As such, Concentric Advisors recommends, and has provided whole life accrual rates that do not reflect the booked depreciation deficiency or surplus position as of December 31, 2015. This will more accurately reflect the correct depreciation expense on post 2015 additions.

The Concentric Advisors recommendation of including an accrual provision for the recovery of future costs of removal in the depreciation expense, and to implement traditional group accounting practices are in accordance with the IFRS 14. However, in order to rely upon IFRS 14, the cost of removal component being recovered through depreciation expense needs to be specifically identified and tracked in accordance with IFRS 14. Therefore, this study separately provides for the depreciation rates associated with the recovery of future cost of removal in Table 1B provided in the Results section of this report. Additionally, the impacts of the conversion to traditional group accounting will also require the tracking of gains or losses on retirements through the reporting as directed under IFRS 147. While Concentric Advisors notes that the use of the ELG procedure and accruing for cost of removal will ultimately eliminate the need to calculate gains and losses on most retirement transactions, it will take a number of years of use of

⁷ Including gains and losses associated with original costs of retirements, costs of removal and gross salvage proceeds



the ELG procedure and cost of removal accrual before the tracking of gains and losses through IFRS 14 can be eliminated.

CALCULATION OF ANNUAL AND ACCRUED AMORTIZATION

Amortization is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period through the use of a square lowa curve, which assumes no retirement over the life of the investment through to its final retirement at the end of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment which incorporated a consideration of the period during which the assets will render most of their service, the amortization period and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

For the purpose of calculating annual amortization amounts as of December 31, 2015, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The book reserve assigned to vintages with an age greater than the amortization period is equal to the vintage's original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage's age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

Amortization accounting is proposed for a number of accounts that represent a small portion of depreciable December 31, 2015 plant in service. The accounts and their amortization periods are as follows:



AMORTIZATION

<u>ACCOUNT</u>	<u>TITLE</u>	PERIOD, YEARS
C11	Computers	5
O01	Office Equipment	20
O02	Office Furniture	20
P11	Printers	6
R14	Routers and LAN	5
S03	Servers	7
S05	Software	7
T02	Test Equipment	20
T03	Tools and Equipment	20
T10	Holyrood Turbines - Combustor Overham	ul 3
T11	Holyrood Turbines – Turbine Overhaul	6
T12	Holyrood Turbine – Combustor Overhau	l 12

For the above accounts where amortization accounting is proposed, Concentric Advisors recommends that for each vintage, for each applicable account, the complete amortization period be utilized irrespective of whether the related fixed asset equipment is removed from active service. Likewise, Concentric Advisors further recommends that when each vintage for each applicable account reaches the complete amortization period, that vintage be fully retired irrespective of whether the associated equipment is still in service.

MONITORING OF BOOK ACCUMULATED DEPRECIATION

The calculated accrued depreciation or amortization represents that portion of the depreciable cost which will not be allocated to expense through future depreciation accruals, if current forecasts of service life characteristics and net salvage materialize and are used as a basis for depreciation accounting. Thus, the calculated accrued depreciation provides a measure of the book accumulated depreciation. The use of this measure is recommended in the amortization of book accumulated depreciation variances to insure complete recovery of capital over the life of the property.

The recommended amortization of the variance between the book accumulated depreciation and the calculated accrued depreciation is based on an amortization period



equal to the composite remaining life for each property group where the variance exceeds five percent of the calculated accrued depreciation.

The composite remaining life for use in the calculation of accumulated depreciation variances is derived by developing the composite sum of the individual equal life group remaining lives in accordance with the following equation:

The book costs and lives of the several equal life groups, which are summed in the foregoing equation, are defined by the estimated future survivor curve. Inasmuch as book cost divided by life equals the whole life annual accrual, the foregoing equation reduces to the following form:

Or

 $Composite Remaining Life = \frac{\sum Book \ Cost - Calc. \ Reserve}{\sum Whole \ Life \ Annual \ Accrual}.$



PART IV. RESULTS OF STUDY



PART IV. RESULTS OF STUDY

QUALIFICATION OF RESULTS

The calculated annual and accrued depreciation are the principal results of the study. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage and for the change of the composition of property in service. The annual accrual rates and the accrued depreciation were calculated in accordance with the straight line method, using the equal life group procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

DESCRIPTION OF DETAILED TABULATIONS

The service life estimates were based on judgment that incorporated statistical analysis of retirement data, discussions and review with management and consideration of estimates made for other electric utilities. The results of the statistical analysis of service life are presented in Part V beginning on V-2 of the Supporting Documents.

For each depreciable group analyzed by the retirement rate method, a chart depicting the original and estimated survivor curves followed by a tabular presentation of the original life table(s) plotted on the chart. The survivor curves estimated for the depreciable groups are shown as dark smooth curves on the charts. Each smooth survivor curve is denoted by a numeral followed by the curve type designation. The numeral used is the average life derived from the entire curve from 100 percent to zero percent surviving. The titles of the chart indicate the group, the symbol used to plot the points of the original life table, and the experience and placement bands of the life tables which where plotted. The experience band indicates the range of years for which retirements were used to develop the stub survivor curve. The placements indicate, for the related experience band, the range of years of installations which appear in the experience.

The tables of the calculated annual depreciation applicable to depreciable assets as of December 31, 2015 are presented in account sequence starting on page VI-2 of the



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Supporting Documents. The tables indicate the estimated average survivor curves used in the calculations. The tables set forth, for each installation year, the original cost, calculated accrued depreciation, and the calculated annual accrual.



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NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

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WHOLE LIFE ACCRUAL RATE	4.27	3.55	5.37	5.52	1.64	4.42	2.66	2.13	3.55	2.37	1.77	3.33	2.37	4.00	20.00	2.13	1.96	2.90	4.10	2.39	1.69	6.96	2.39	3.36	2.25	2.90	7.09	2.25	2.13	1.01	3.36	2.60	1.33	2.15	2.68	2.30	5.90	3.23	0.97	4.81	2.13	2.02	4.25	5.11	2.37	2:92	3.15	5.05	4.82	96.9
DEEMED COST ACCRUAL RATE	1.08	3.68	9.78	11.03	2.03	2.37	3.08	2.60	3.42	1 94	2.24	9.28	1.82	3.55	14.38		2.82	3.20	3.38	2.74	2.22	1.27	2.20	2.82	70.0	3.27	6.13	2.24	2.18	2.13	2.77	2.52	1.94	1.81	4.91	4.62	3.43	3.86	1.27	7.07	1.85	2.12	. !	2.73	2.21	98.9	2.94	5.55	6.25	3.67
DEEMED COST DECEMBER 31, 2015	106,867	3,875,070	6,859,869	112,339	965,004	40,332,978	10,433,007	3,340,456	393,321	2,776,722	4.494.725	690,109	18,552	31,594,197	4,407,813	0	42,025,239	18,501,762	7,732,067	2,310,209	6,044,509	340,976,393 27 128 109	15,314,119	745,693	100 671	349.053	2,007,509	4,183,349	8,924,743	755,877	19,575,128	46,097,528	70,110,107	17,789,053	98,436	6,562,987	1,113,173	25,983,406	18,225,951	176,682	483.472	3,984,825	0	288,042	669.662	13,519	438,378	4,566,868	166,747	24,143,424
COMPOSITE REMAINING LIFE	22.5	21.0	79.7	8.6	42.7	39.3	29.1	30.4	26.5	20.9	36.8	8.3	20.6	43.6 26.8	4.0	15.1	31.8	27.7	28.0	32.2	41.8	19.1	41.5	30.1	3.4.5	22.6	10.5	41.4	42.8	35.5	34.3	37.3	48.8	46.7	17.4	18.5	25.0	21.6	75.3	6.4	41.4	44.5	0.0	33.2	31.5	11.6	29.2	9.1	11.4	17.7
ORIGINAL COST ACCRUAL RATE	0.24	2.36	0.22	7.06	0.46	1.38	2.09	1.19	0.51	1.27	0.95	6.44	0.07	3.03	12.94	0.00	1.76	202	2.61	1.75	1.94	2.82	1.61	0.85	0.00	1.22	4.90	1.24	1.40	0.80	1.90	1.67	1.68	1.31	0.91	3.87	0.64	2.39	1.19	2.39	0.96	1.36	0.00	1.42	0.66	1.59	1.95	0.61	3.96	3.44
ACCRUAL AMOUNT	1,156	142,690	51,160	12,386	19,633	954,632	30.373	86,974	13,452	113,135	36,632	64,049	338	505 554	633,911	0	1,185,060	599,361	261,458	63,340	133,894	4,330,896	336,802	21,022	0 000	6,332	123,050	93,592	194,950	10.505	542,202	1,160,219	320,794	321,672	4,831	303,354	38,194	1,002,854	231,764	12,485	8.923	84,364	0	7,867	9,669	928	12,873	285,363	10,414	887,243
FUTURE ACCRUALS	28,380	3,191,657	5,568,076	106,740	898,223	37,586,631	19,969,391	2,797,755	356,800	2,454,264	4.003.596	536,751	13,747	30,020,020	2,556,063	0	38,370,727	16.577.763	7,332,452	2,066,316	5,602,992	326,557,053	14.143,160	677,828	150 000	257.689	1,293,616	3,928,303	8,338,121	694 864	18,598,681	43,534,643	74 451 734	15,038,454	84,147	5,700,697	956,682	21,661,840	17,463,005	150,471	369.251	3,753,934	0	263,353	515.163	10,800	376,440	3,692,927	118,512	15,732,742
BOOK DEPRECIATION RESERVE	447,118	2,863,282	5,831,921	68,815	3,356,067	31,590,131	546.113	4,510,152	2,286,539	6,446,852	6.547.333	457,993	495,386	3,030,053	2,343,713	125,930	28,952,047	13 067 444	2,674,586	1,556,773	1,299,150	35,352,203	6.740,368	1,799,505	89,800	678.187	1,215,404	3,627,286	5,568,798	1 758 713	9,915,217	25,791,118	3,368,711	9.576,304	446,507	2,139,962	5,010,716	20,326,481	1,973,440	371,033	557.052	2,439,676	11,226	289,587	1,718,481	47,500	283,977	2,181,741	144,342	10,083,214
ORIGINAL COST DECEMBER 31, 2015	475,498	6,054,939	73 876 046	175,556	4,254,290	69,176,761	1,456.108	7,307,906	2,643,339	8,901,116	10.550.929	994,744	509,132	39,656,672	4,899,775	125,930	67,322,774	29 645 208	10,007,038	3,623,089	6,902,142	361,909,256	20,883,528	2,477,333	89,800	935.876	2,509,020	7,555,589	13,906,919	20,413,239	28,513,898	69,325,761	19,048,533	24.614,758	530,654	7,840,659	5,967,398	41,988,322	19,436,445	521,505	926.303	6,193,610	11,226	552,940	2,233,645	58,301	660,416	5,8/4,668	262,853	25,815,956
NET SALVAGE PERCENTAGE	0	0	o c	0	0	0 0	0	0	0	0 0	0	0	0	o c	0	0	0 0	o c	0	0	0 0	o c	0	0	0 0	0 0	0	0	0 0	o c	0	0	0 0	0	0	0 0	0	0	0	0 0	0 0	0	0	0 6	0	0	0	o c	0	0
SURVIVOR CURVE	33-R2	30-R4	20-L1.5 40-B3	25-R2	65-R4	50-R0.5	30-R3	50-R4	30-R4	45-R4 60-S4	60-R4	35-R3	45-R4	60-R2.5 41-R1.5	5-80	55-R3	60-R3	40-R3	40-R1.5	55-R2.5	70-R3	110-R4	55-R2.5	42-L1.5	45-S5	35-R2.5	15-R4	52-R3	50-R4	65-R3	50-R1.5	45-R3	80-K4	50-83	40-S3	45-84	30-L0.5	35-13	110-R4	25-S1.5	50-R4	58-R3	24-R5	42-R0.5	65-R4	35-R5	37-R3	25-13	22-14	22-R1.5
ACCOUNT DESCRIPTION	AIRCRAFT LANDING STRIP	AUXILIARY POWER SYSTEMS	BALLERY AND POWER SYSTEMS ROLLER SYSTEM	BOOMS - TIMBER	BRIDGES	BUILDINGS - OTHER	BUS DUCT GENERATOR	BUSWORK AND HARDWARE	CABLES - TELECONTROL	CABLE - SUBMARINE	CABLES - UNDERGROUND CABLES - ABOVE GROUND	CAPACITORS	CHEMICAL FEED SYSTEMS	COMPRESSED AIR SYSTEMS	COMPUTERS	CONDENSERS	CONDUCTOR - TRANSMISSION	CONTROL METERING RELAYING	COOLING SYSTEMS	COUNTERPOISE	CRANES	DIESEL SYSTEMS AND ENGINES	DISCONNECT SWITCHES	DYKES AND LINERS	ELEVATORS	ENVISONMENTAL EQUIPMENT	FALL ARREST EQUIPMENT	FENCING	FIRE FIGHTING EQUIPMENT	FREDLIENCY CONVERSION	FUEL SYSTEMS	GAS TURBINE SYSTEMS	GALES	GENERATOR - WINDINGS	GLYCOL SYSTEMS	GOVENORS	INSTRUMENTATION	INSULATORS	INTAKE STRUCTURES	INVERTERS	LIGHTING SYSTEMS	LIGHTNING ARRESTORS	LINE COUPLING EQUIPMENT	MAIN BREAKERS	METALCLAD SWITCHGEAR CUB/EQU 4kv/600	METER TEST SWITCHES	METERING TANKS	METERS - DIGITAL METERS - ANALOGUE	METERS - OTHER	MISCELLANEOUS UNITS OF PROPERTY
ACCOUNT	A01.	A04.	B01.	B03.	B04.	B05.	B06.	B08.	C01.	C02.	C03.	C06.	C07.	C10	C11.	C12.	C13.	5. 5.	C16.	C17.	C18.	. 200	D03.	D04.	E01.	E03.	F01.	F02.	F03.		F06.	G01.	G02.	90.0	G05.			103.	104.	05.	104	L05.	F00.	M01.	MO3.	M04.	M05.	MO5.	M08.	M10.



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Newfoundland and Labrador Hydro 2016 Depreciation Study 2016 De

NEWFOUNDLAND AND LABRADOR HYDRO TABLE 1A. ESTIMATED SURVIVOR CURYES,ORIGINAL AND DEEMED COSTAND ANNUAL ACCRUALS RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015 LIFE

NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

WHOLE LIFE ACCRUAL RATE	25.00 26	4.10 5.14 2.39
DEEMED COST ACCRUAL RATE	8 4 4 6 6 8 8 6 6 8 8 8 8 8 8 8 8 8 8 8	2.58 3.88 2.92
DEEMED COST DECEMBER 31, 2015	1,630,167 191,898 191,898 191,898 2,074 7,180,044 7,180,044 7,180,044 7,180,044 82,813,090 82,813,090 82,813,090 82,813,090 82,813,090 82,813,090 82,813,090 82,813,090 83,000 83,000 83,000 83,000 83,000 83,000 84,007 88,007	16,335,856 29,543,794 42,271,663
COMPOSITE REMAINING LIFE	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	36.8 36.8 22.9 29.9
ORIGINAL COST ACCRUAL RATE	6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2.37 3.09 1.89
ACCRUAL	1.32 82 2. 1.32 82 3. 1.32 82 82 3. 1.32 82 82 82 3. 1.32 82 82 82 82 3. 1.32 82 82 82 82 82 82 82 82 82 82 82 82 82	420,766 1,145,163 1,233,955
FUTURE ACCRUALS	236.552 22.807 (40.239) 40.239, 620, 239, 40.239, 639, 639, 639, 639, 639, 639, 639, 6	15,535,579 26,375,763 37,805,733
BOOK DEPRECIATION RESERVE	988 833 922 829 220 728 622 829 6220 728 6220 728 6220 728 6220 728 6220 728 6220 728 6220 728 6220 728 6220 728 72 820 728 72 820 72 8	2,188,073 10,664,694 27,353,903
ORIGINAL COST DECEMBER 31, 2015	1,906,739 422,046 281,287 10,581,312 2,812,217 1,286,313,12 2,812,217 1,286,310,003 88,98,421 1,181,003 88,98,421 1,181,003 88,98,421 1,182,71,166 1,282,074 1,282,074	17,723,652 37,040,457 65,159,636
NET SALVAGE PERCENTAGE	28888	0000
SURVINOR CURVE	6 - L3 18-S15 18-S15 19-S5 20-S0	40-R1.5 30-L1 55-R2.5
ACCOUNT DESCRIPTION	MOBILE ATV.S AND SNOWMOBILES MOBILE - AR COMPRESSOR ATTACHMENT AND BOAT MOBILE - AR COMPRESSOR ATTACHMENT AND BOAT MOBILE - REXPORKLOAD/GRADE/MUSK/TRAILER MOBILE - REXPORKLOAD/GRADE/MUSK/TRAILER MOBILE - REXPORKLOAD/GRADE/MUSK/TRAILER PECE FIRMITUDE POLE STORAGE COMPROL BRANCH EXCHANGE POLE STRUCTURES - WOOD POLE STRUCTURES - WOOD POLE STRUCTURES - WOOD POLES - WOOD POLES - WOOD POWER LINE CARRIER POWER SYSTEMS RADIO TOWERS (WOOD OR STEEL) RADIO STRUCTURES - WOOD POWER LINE CARRIER POWER SYSTEMS RADIO STRUCTURES RADIO STRUCTURES RADIOS - FIXED WHF COUMMENT RADIOS - FIXED WH COUMMENT RADIOS - FIXED WH CREATER SCADA EQUIPMENT SCADA EQUIPMENT SCADA EQUIPMENT STATIC EXCITATION STEEL) STRUCTURAL SUPPORTS (WOOD OR STEEL) STRUCTURAL SUPPORTS (WOOD OR STEEL) STRUCTURAL SUPPORTS (WOOD OR STEEL) STRUCH SYSTEMS STATION SWITCHING ST	TRANSPORMERS - PAD MOUNT TRANSPORMERS - POLE MOUNTED TURBINES
ACCOUNT	MM1.1. MM4.4.	706. T07.



NEWFOUNDIAND AND LABRADOR HYDRO
TABLE 1A. ESTIMATED SURVIVOR CURVESORIGINAL AND DEEMED COST AND ANNUAL ACCRUALS
RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015
LIFE

								ORIGINAL			DEEMED	WHOLE
					BOOK			COST	COMPOSITE		COST	HFE
		SURVIVOR	NET SALVAGE	ORIGINAL COST	DEPRECIATION	FUTURE	ACCRUAL	ACCRUAL	REMAINING	DEEMED COST	ACCRUAL	ACCRUAL
ACCOUNT	ACCOUNT DESCRIPTION	CURVE	PERCENTAGE	DECEMBER 31, 2015	RESERVE	ACCRUALS	AMOUNT	RATE	THE	DECEMBER 31, 2015	RATE	RATE
T10.	HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL	3-80	0	2,206,062	40,444	2,165,618	866,247	39.27	2.5	2,206,062	39.27	33.33
T11.	HOLYROOD GAS TURBINE - TURBINE OVERHAUL	0S-9	0	2,206,062	40,444	2,165,618	393,749	17.85	5.5	2,206,062	17.85	16.67
T12.	HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL	12-SQ	0	3,088,487	56,622	3,031,865	263,640	8.54	11.5	3,088,487	8.54	8.33
.001	VACUUM CLEANING SYSTEM	60-R4	0	72,451	086'99	5,471	212	0.29	25.8	660'9	3.48	1.77
.002	VALVES - PENSTOCK	65-R3	0	7,567,760	2,366,964	5,200,796	128,332	1.70	40.1	5,558,323	2.31	1.81
V03.	VEHICLES - 1 TON	8-L4	15	51,648	16,140	27,761	5,047	9.77	5.5	51,648	9.77	11.29
.404	VEHICLES - 3/4 TON AND UNDER	7-L3	15	5,167,170	3,260,796	1,131,298	203,617	3.94	5.6	4,033,711	5.05	13.71
.405	VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS	12-L3	15	14,954,546	5,943,877	6,767,488	839,148	5.61	8.1	10,855,821	7.73	8.02
.006	VEHICLES - CARS, STATION WAGONS AND VAN	6-L3	15	1,795,372	1,516,681	9,385	2,081	0.12	4.5	1,134,905	0.18	15.96
.407	VEHICLES - DUMP TRUCKS	10-L5	15	11,535	11,535	(1,730)	0	0.00	0.0	0		10.28
W01.	WATER REGULATING STRUCTURES	65-S4	0	22,451,738	5,101,189	17,350,549	415,932	1.85	41.3	18,454,117	2.25	1.59
W02.	WATER SUPPLY SYSTEMS	30-L4	0	3,394,554	1,790,681	1,603,873	105,993	3.12	14.0	1,972,019	5.37	3.53
W03.	WATER SYSTEMS - FEED	55-R2.5	0	6,531,260	3,595,245	2,936,015	74,656	1.14	37.0	3,023,065	2.47	2.39
W04.	WATER TREATMENT	55-R2.5	0	11,921,573	6,449,340	5,472,233	134,521	1.13	40.3	6,307,665	2.13	2.39
	Sub-Total			2,458,776,655	852,381,210	1,600,456,929	49,040,034	1.99	·	1,756,107,129	2.79	



NEWFOUNDLAND AND LABRADOR HYDRO
TABLE 1A. ESTIMATED SURVIVOR CURYES,ORIGINAL AND DEEMED COSTAND ANNUAL ACCRUALS
RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015
LIFE

ACCOUNT DESCRIPTION	SURVINOR CURVE	NET SALVAGE PERCENTAGE	ORIGINAL COST DECEMBER 31, 2015	BOOK DEPRECIATION RESERVE	FUTURE ACCRUALS	ACCRUAL AMOUNT	ORIGINAL COST ACCRUAL RATE	COMPOSITE REMAINING LIFE	DEEMED COST DECEMBER 31, 2015	DEEMED COST ACCRUAL RATE	WHOLE LIFE ACCRUAL RATE
TRUCATION DATE	3/31/2021										
	30-R4	0	620,866	313,020	307,846	58,749	9.46	5.2	492,554	11.93	24.32
	26-L1.5	0	106,627	45,121	61,506	13,957	13.09	4.4	660'98	16.21	24.53
	40-R3	0	35,073,430	27,260,865	7,812,565	1,538,636	4.39	5.0	12,295,071	12.51	24.37
	50-R0.5	0	1,300,250	763,274	536,976	104,628	8.05	5.1	859,162	12.18	25.12
	55-R3	0	72,011	39,551	32,460	6,195	8.60	5.2	51,935	11.93	24.35
	30-R4	0	89,750	63,121	26,629	5,121	5.71	5.2	42,606	12.02	24.32
	60-S4	0	544,049	481,561	62,488	12,017	2.21	5.2	68,519	17.54	24.31
	60-R4	0	629,827	560,583	69,244	13,419	2.13	5.2	78,084	17.19	24.32
	45-R4	0	77,164	99'99	10,508	2,024	2.62	5.2	16,813	12.04	24.32
	55-R3	0	2,329,667	2,087,816	241,851	46,983	2.02	5.1	386,962	12.14	24.35
	40-R3	0	119,880	48,437	71,443	13,634	11.37	5.2	115,036	11.85	24.37
	45-R2.5	0	1,280,261	883,404	396,857	76,415	5.97	5.2	624,419	12.24	24.45
	50-R4	0	797,150	545,433	251,716	49,563	6.22	5.1	290,151	17.08	24.32
	65-R3	0	56,613	46,927	9,685	1,866	3.30	5.2	10,668	17.49	24.34
	50-R1.5	0	13,309,152	7,877,261	5,431,891	1,050,852	7.90	5.2	8,233,153	12.76	24.70
	45-R3	0	24,645	23,906	739	146	0.59	5.0	887	16.46	24.36
	65-83	0	1,067,438	367,373	700,064	133,346	12.49	5.3	1,228,857	10.85	24.31
	45-S4	0	2,144,383	1,652,526	491,857	94,078	4.39	5.2	773,352	12.16	24.31
	30-L0.5	0	6,727,326	4,902,728	1,824,598	379,394	5.64	4.8	2,327,089	16.30	24.94
	25-S1.5	0	24,417	17,670	6,747	1,391	5.70	4.8	10,794	12.89	24.35
	75-R3	0	5,766	4,965	801	153	2.65	5.2	1,281	11.94	24.34
	65-R4	0	468,523	358,934	109,589	20,895	4.46	5.2	175,342	11.92	24.32
MISCELLANEOUS UNITS OF PROPERTY	22-R1.5	0	1,611,947	407,422	1,204,525	236,325	14.66	5.1	1,583,560	14.92	25.26
	20-SQ	0	58,975	48,674	10,302	4,121	6.99	2.5	16,483	25.00	24.31
	75-R3	0	8,903,432	7,852,132	1,051,300	202,559	2.28	5.2	1,133,208	17.87	24.34
PROTECTIVE CONTROL AND RELAY PANELS	35-R3	0	106,685	65,531	41,154	7,899	7.40	5.2	65,847	12.00	24.38
	60-R4	0	1,859	1,635	224	43	2.31	5.2	248	17.35	24.32
	55-R4	0	9,202,119	6,183,907	3,018,212	582,779	6.33	5.2	4,786,711	12.17	24.32
	32-R4	0	1,461,435	1,004,244	457,191	332,027	22.72	1.4	729,359	45.52	24.32
	20-SQ	0	351,262	183,716	167,546	31,914	60.6	5.2	268,073	11.90	24.31
	55-R3	0	126,690	38,007	88,683	16,924	13.36	5.2	126,690	13.36	24.35
	55-R2.5	0	27,077,372	12,977,563	14,099,810	2,700,859	9.97	5.2	20,041,663	13.48	24.43
	55-R2.5	0	2,818,634	1,772,494	1,046,140	203,526	7.22	5.1	1,270,349	16.02	24.43
	55-R2.5	0	2,792,962	1,648,626	1,144,336	219,631	7.86	5.2	1,772,842	12.39	24.43
			121,382,565	80,595,081	40,787,483	8,162,069	6.72		59,963,868	13.61	
			2.580.159.221	932.976.291	1.641.244.412	57.202.103	2.22		1.816.070.997	3.15	
						20.10				5	



NP-NLH-048, Attachment 1

NEWFOUNDLAND AND LABRADOR HYDRO
TABLE 1B. ESTIMATED SURVIVAR. DAYS, ORGINAL AND DEEMED COST AND ANNUAL ACCRUALS
RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015
COST OF REMOVAL

NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

	2020 Capital Budg	Page 51 of 695
WHOLE LIFE ACCRUAL RATE		idor Hydro
DEEMED COST ACCRUAL RATE	1,29 0,046 0,024 0,036 0,0	Newfoundland and Labrador Hydro 2016 Depreciation Study
DEEMED COST DECEMBER 31, 2015	106. 887 987. 707 10.339 985. 315 10.339 985. 315 3.40, 468 3.930, 248 3.930, 248 3.930, 248 3.930, 248 3.930, 248 3.930, 248 4.407, 813 4.407, 813 8.907, 772 8.907, 773 8.907, 773	Newfoundlar 2
COMPOSITE REMAINING LIFE	222 222 233 233 24 25 25 25 25 25 25 25 25 25 25 25 25 25	
ORIGINAL COST ACCRUAL RATE	0.29 0.29 0.00	
ACCRUAL AMOUNT	1,374 1,374 1,884 1,1886 1,04,912 2,388 2,2388 2,4380 3,021 1,1201 1,1201 8,142 1,1206 8,172 8,047 8,0	
FUTURE	28 530 181 648 342,000 1,910,004 467,972 2,075,302 11,203,832 387,632	
BOOK DEPRECIATION S RESERVE		
ORIGINAL COST DECEMBER 31, 2015	475 488 4 224 299 11 399 198 52 876 198 4 224 299 6 9 176 77 198 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7-/1
NET SALVAGE PERCENTAGE	ଭ୍ରତ୍ତ - ମିର୍ଦ୍ରତ ଓ ନିନ୍ଦି ପ୍ରତ୍ତ - ୧୪୪ ନିଜ୍ରତ ଓ ୧୯୪ ନିଜ୍ରତ ଓ ୧୯୪ ନିଜ୍ରତ ଓ ୧୯୯ ନ	
SURVIVOR CURVE	33.R2 39.R4 39.R4 39.R4 39.R4 39.R4 39.R4 39.R4 39.R4 39.R4 39.R4 39.R2 41.R1 39.R2 41.R1 42.L1 43.R2 55.R2 55.R3 46	
ACCOUNT DESCRIPTION	ARCRAAT LANDING STRIP AUXILARY POWER SYSTEMS BOLLER SYSTEMS BOLLER SYSTEMS BOLLER SYSTEMS BOLLER SYSTEMS BOLLER SYSTEMS BULDINGS. METAL BUSDUCT GENERATOR BULDINGS. METAL BUSDUCT GENERATOR CABLES - LBURANING CABLES - LBURANING CABLES - LBURANING CABLES - LADING GROUND CONDENSERS COUNDERSES	CONCENTRIC
ACCOUNT	A A A A A A A A A A A A A A A A A A A	



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Capital Budget Application
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NEW FOUNDLAND AND LABRADOR HYDRO TABLE 1B. ESTIMATED SURVIVOR CURVES,ORIGINAL AND DEEMED COST AND ANNUAL ACCRUALS	RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015	COST OF REMOVAL
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NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

WHOLE LIFE ACCRUAL RATE								0.23	1.10	0.72	1.49	1.52	0.57	0.24		. 3	ia:0					' 0	0.36	SS: -	٠	0.27					0.19	. ;	0.15	0.33	0.24	0.21			0.68	0.19						0.57	0.21	0.61	0.60
DEEMED COST ACCRUAL RATE								0.33	1.38	0.87	53.65	0.94	0.94	0.22			07:1						0.40	- ·	٠	0:30					0.41	. ;	0.12	3.27	17.09	0.37			0.85	0.40						. 0	0.36	0.25	0.79
DEEMED COST DECEMBER 31, 2015	1,630,167	131,898	7,185,044	822,074	731,009	743,513	1,463	44.875.320	82,813,901	89,077,051	55,346	49,437,902	457.452	77,547,345	968,970	7,232,549	3,006,850	81.822	153,938	3,124,097	935,272	903,491	3 706 121	3,706,121	12,488,097	75,174,354	2,448,737	6,821,838	45 666	1,643,300	1,121,167	8,980,374	26,004,636 4 868 525	5.117,789	16,538	3,966,436	7,650,931	283.067	2,805,557	6,251,538	561,992	4,069,890	2.071.699	6,362,279	955,358	6,300,802	55,908,373	16,335,856	29,543,794 42,271,663
COMPOSITE REMAINING LIFE	4.0	17.3	13.5	11.3	15.0	13.5	10.6	33.4	24.0	36.3	3.0	32.2	10.0	45.2	4.4	29.1	0.76	10.6	10.9	7.0	16.8	21.4	38.1	20.9	38.4	30.5	1.4.1	12.7	4.0	5.6	41.4	3.4	75.2	6.51	15.7	28.1	34.2	38.00	12.5	35.4	17.9	37.5	31.8	18.4	14.8	14.3	31.8	36.8	22.9
ORIGINAL COST ACCRUAL RATE	0.00	0.00	0.00	0.00	0.00	0.00	8.6	0.25	0.96	0.59	8.90	0.64	0.48	0.18	0.00	0.00	0.39	00.0	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.26	0.00	0.00	000	0.00	0.15	0.00	0.10	2.01	0.38	0.28	0.00	000	0.62	0.22	0.00	0.00	000	00.00	0.00	0.00	0.23	0.23	0.37
ACCRUAL AMOUNT	0	0 0	0	0	0 (0 0		145.974	1,142,374	771,662	29,693	464,761	4 300	169,522	0	0 24 400	8C/'/S	0	0	0	0	0 000	18,065	0,930	0	223,049	0	0 0	0 0	0	4,593	0	30,004	167,515	2,827	14,642		0	23,891	25,273	0	0 0	0	0	0	0 084	201,653	40,372	136,116 333,332
FUTURE	0	0 0	0	0	0 (0 0		4.712.674	23,674,231	25,958,057	66,752	14,520,926	39.876	7,497,499	0	0 000 7	0/2'005'1	0	0	0	0	0 000	572,689	0	0	6,755,260	0	0 0	0 0	0	175,159	0	2,249,621	499,984	44,059	314,000	0 0	0	232,500	700,657	0	0 0	0	0	0	15 547 885	5,355,317	1,417,893	2,963,236 9,122,349
BOOK DEPRECIATION RESERVE	0	0 0	0	0	0 0	0 0		0	0	0	0	0 0	0 0	0	0	0 0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0 0	0 0	0	0	0	0 0	0	0	0 (0 0	0	0	0	0	0 0	0	0	0 0	0	0	0	00
ORIGINAL COST DECEMBER 31, 2015	1,906,739	432,046	10,581,312	2,812,217	1,286,440	1,477,990	1 181 000	58.908.421	118,371,156	129,790,285	333,760	72,604,630	4,971,972	93,718,745	1,038,001	9,507,129	9,739,106	101.662	560,166	7,278,664	1,593,558	1,225,065	7,158,607	1,242,916	21,729,649	84,440,747	2,730,978	11,669,844	4,323,333	3,019,204	2,919,319	10,081,799	28,120,270	8,333,065	734,327	5,233,336	3,114,097	1.308.713	3,874,989	11,677,609	667,245	6,972,889	2.304.609	12,429,279	1,955,314	11,434,328	89,255,274	17,723,652	37,040,457 65,159,636
NET SALVAGE PERCENTAGE	0	0 0	0	0	0 (0 0	0 0	. @	(50)	(20)	(20)	(50)	6)	(8)	0	0 \$	(14)		0	0	0	0 \$	(a) (b)	(0)	0	(8)	0 0	0 0	o c	0	(9)	0	® ®	(9)	(9)	(9)	0 0		9)	(9)	0	0 0		0	0 0	0 (0	(6)	(8)	(8) (14)
SURVIVOR CURVE	6-L3	20-10	18-L3	18-S1.5	20-SQ	20-80	30-R4	70-R4	35-S2.5	57-R3	25-R4	43-R1	20-R3	75-R3	08-9 9	35-R3	19-R5	15-L0.5	19-R3	15-R4	25-R3	40-S4	48-K3	35-R3	65-R4	60-R4	5-SQ	25-K3	25-R5	7-SQ	55-R4	7-SQ	110-R4 55-R4	32-R4	45-R4	50-R4	80-K 40-R3	55-R4	20-R2	55-R4	35-R4	60-R4	60-R5	25-L1.5	20-SQ	20-50 65-84	55-R3	40-R1.5	30-L1 55-R2.5
ACCOUNT DESCRIPTION	MOBILE - A.T.V.'S AND SNOWMOBILES	MOBILE - AIR COMPRESSOR ATTACHMENT AND BOAT	MOBILE - FLEX/FORK/LOAD/GRADE/MUSK/TRAILER	MULTIPLEX EQUIPMENT	OFFICE EQUIPMENT	OFFICE FURNITURE	P.C.B. STORAGE CONTAINER DARK - DRIVATE ALITO REANCH EXCHANGE	PENSTOCK	POLE CRIBS AND POLE HARDWARE	POLE STRUCTURES - WOOD	POLES - CONCRETE	POLES - WOOD	POWER SYSTEMS	POWERHOUSE	PRINTERS	PROTECTIVE CONTROL AND RELAY PANELS	RADIO LOWERS (WOOD OR STEEL) RADIOS - FIXED MICROWAVE FOLIDMENT	RADIOS - FIXED UHF EQUIPMENT	RADIOS - FIXED VHF EQUIPMENT	RADIOS - MOBILE VHF BASE STATION	RAMPS - YARD STORAGE	REACTORS AND RESISTORS	RECLUSERS DEDIT ATORS	REVENUE METERING	RIGHT-OF-WAYS	ROADS	ROUTERS AND LAN	SOADA EOLIDARENIT	SECTIONALIZERS	SERVERS	SEWAGE DISPOSAL SYSTEM	SOFTWARE	SPILLWAY STRUCTURES STACKS	STATIC EXCITATION SYSTEM	STATIC EXCITATION - TRANSFORMERS	STATION SERVICE	STORAGE PALLETS AND BACKINGS	STORM AND YARD DRAINAGE	STREET LIGHTS	STRUCTURAL SUPPORTS (WOOD OR STEEL)	SUMP SYSTEMS	SURGE SYSTEMS STATION SWITCHING	SWITCHING SYSTEMS - LV.	TELECONTROL SYSTEM	TEST EQUIPMENT	TOWERS	TRANSFORMERS - OTHER	TRANSFORMERS - PAD MOUNT	IRANSFORMERS - POLE MOUN IED TURBINES
ACCOUNT	M11.	M12.	M14.	M16.	001.		P01.	P03.	P04.	P05.	P06.	P07.	. 604	P10.	P11.	P12.	R01.	R03.	R04.	R05.	R06.	R07.	K08.	R11.	R12.	R13.	R14.	K15.	. 202	S03.	S04.	S05.	S06.	. 808	S09.	S10.	517.	513	S14.	S15.	S17.	S18.	S20.	T01.	T02.	T03.	T05.	T06.	107. T09.



NEWFOUNDLAND AND LABRADOR HYDRO
TABLE 1B. ESTHMATED SURVIVOR CURVES ORGINAL AND DEEMED COST AND ANNUAL ACCRUALS
RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015
COST OF REMOVAL

WHOLE	ACCRUAL					0.27						0.24	0.53	0.36	0.24	
COST	ACCRUAL					0:30						0.26	1.43	0.62	0:30	0.40
	DECEMBER 31, 2015	2,206,062	2,206,062	3,088,487	660'9	5,558,323	51,648	4,033,711	10,855,821	1,134,905	0	18,454,117	1,972,019	3,023,065	6,307,665	1,756,107,129
COMPOSITE	REMAINING	2.5	5.5	11.5	25.8	40.1	5.5	5.6	8.1	4.5	0.0	41.3	14.0	37.0	40.3	
COST	ACCRUAL	0.00	0.00	00'0	0.00	0.21	0.00	0.00	00'0	0.00	00'0	0.21	0.83	0.29	0.16	0.29
	ACCRUAL	0	0	0	0	16,573	0	0	0	0	0	47,213	28,124	18,729	18,997	7,038,181
!	FUTURE	0	0	0	0	605,421	0	0	0	0	0	1,796,139	271,564	522,501	715,295	217,605,468
BOOK	DEPRECIATION RESERVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ORIGINAL COST DECEMBER 31, 2015	2,206,062	2,206,062	3,088,487	72,451	7,567,760	51,648	5,167,170	14,954,546	1,795,372	11,535	22,451,738	3,394,554	6,531,260	11,921,573	2,458,776,655
	NET SALVAGE PERCENTAGE	0	0	0	0	(8)	0	0	0	0	0	(8)	(8)	(8)	(9)	
	SURVIVOR CURVE	3-80	0-SQ	12-SQ	60-R4	65-R3	8-L4	7-L3	12-L3	6-L3	10-15	65-84	30-L4	55-R2.5	55-R2.5	
	ACCOUNT DESCRIPTION	HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL	HOLYROOD GAS TURBINE - TURBINE OVERHAUL	HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL	VACUUM CLEANING SYSTEM	VALVES - PENSTOCK	VEHICLES - 1 TON	VEHICLES - 3/4 TON AND UNDER	VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS	VEHICLES - CARS, STATION WAGONS AND VAN	VEHICLES - DUMP TRUCKS	WATER REGULATING STRUCTURES	WATER SUPPLY SYSTEMS	WATER SYSTEMS - FEED	WATER TREATMENT	Sub-Total
	ACCOUNT	T10.	T11.	T12.	.101	.002	.003	.404	.005	.006	.407.	W01.	W02.	W03.	W04.	



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Ret Application Page 54 of 695 Newfoundland and Labrador Hydro 2016 Depreciation Study 2016 Depreciati

NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

NEWFOUNDLAND AND LABRADOR HYDRO
TABLE 1B. ESTIMATED SURVINCH CURVES ORGINAL, AND DEEMED COST AND ANNUAL ACCRUALS
RELATED TO PLANT IN SERVICE AS OF DECEMBER 31, 2015
COST OF REMOVAL

								ORIGINAL			DEEMED	WHOLE
		SURVIVOR	NET SALVAGE	ORIGINAL COST	BOOK DEPRECIATION	FUTURE	ACCRUAL	COST ACCRUAL	COMPOSITE REMAINING	DEEMED COST	COST ACCRUAL	LIFE ACCRUAL
ACCOUNT	ACCOUNT DESCRIPTION	CURVE	PERCENTAGE	DECEMBER 31, 2015	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE	DECEMBER 31, 2015	RATE	RATE
HOLYROOD ASSETS	SSETS TRUCATION DATE	ਲੌ										
A04.1	AUXILIARY POWER SYSTEMS	30-R4	(3)	620,866	0	18,626	3,555	0.58	5.2	492,554	0.72	1.21
B01.1	BATTERY AND POWER SYSTEMS	26-L1.5	(6)	106,627	0	3,199	764	0.72	4.4	660'98	0.89	1.22
B02.1	BOILER SYSTEM	40-R3	(8)	35,073,430	0	2,805,875	576,238	1.64	5.0	12,295,071	4.69	3.65
B05.1	BUILDINGS - OTHER	50-R0.5	(3)	1,300,250	0	39,007	7,601	0.58	5.1	859,162	0.88	1.26
B06.1	BUILDINGS - METAL	55-R3	(3)	72,011	0	2,160	412	0.57	5.2	51,935	0.79	1.22
C01.1	CABLES - TELECONTROL	30-R4	(3)	89,750	0	2,692	518	0.57	5.2	42,606	1.22	1.21
C03.1	CABLES - UNDERGROUND	60-84	(14)	544,049	0	76,167	14,647	2.69	5.2	68,519	21.38	80.9
C04.1	CABLES - ABOVE GROUND	60-R4	(14)	629,827	0	88,176	17,089	2.71	5.2	78,084	21.89	80.9
C07.1	CHEMICAL FEED SYSTEMS	45-R4	(9)	77,164	0	4,630	893	1.16	5.2	16,813	5.31	2.43
C12.1	CONDENSERS	55-R3	(3)	2,329,667	0	068'69	13,684	0.58	5.1	386,962	3.54	1.22
C15.1	CONTROL, METERING, RELAYING	40-R3	0	119,880	0	0	0	0.00	5.2	115,036		
E03.1	ENVIRONMENTAL EQUIPMENT	45-R2.5	0	1,280,261	0	0	0	0.00	5.2	624,419		
F03.1	FIRE FIGHTING EQUIPMENT	50-R4	0	797,150	0	0	0	0.00	5.1	290,151		
F04.1	FOOTINGS AND FOUNDATIONS	65-R3	(8)	56,613	0	4,529	873	1.54	5.2	10,668	8.18	3.65
F06.1	FUEL SYSTEMS	50-R1.5	(13)	13,309,152	0	1,464,007	285,329	2.14	5.2	8,233,153	3.47	4.94
G01.1	GAS TURBINE SYSTEMS	45-R3	(2)	24,645	0	493	86	0.40	5.0	887	11.05	0.73
G03.1	GENERATORS	65-83	(8)	1,067,438	0	85,395	16,264	1.53	5.3	1,228,857	1.32	3.65
G06.1	GOVENORS	45-S4	(14)	2,144,383	0	300,214	57,784	2.69	5.2	773,352	7.47	80.9
102.1	INSTRUMENTATION	30-L0.5	0	6,727,326	0	0	0	0.00	4.8	2,327,089		
105.1	INVERTERS	25-S1.5	(8)	24,417	0	1,953	405	1.66	4.8	10,794	3.75	3.66
L03.1	LAND IMPROVEMENTS	75-R3	0	5,766	0	0	0	0.00	5.2	1,281		
M02.1	MARINE TERMINAL	65-R4	(9)	468,523	0	28,111	5,363	1.14	5.2	175,342	3.06	2.43
M10.1	MISCELLANEOUS UNITS OF PROPERTY	22-R1.5	0	1,611,947	0	0	0	0.00	5.1	1,583,560		
002.1	OFFICE FURNITURE	20-SQ	0	58,975	0	0	0	0.00	2.5	16,483		
P10.1	POWERHOUSE	75-R3	(8)	8,903,432	0	712,275	137,239	1.54	5.2	1,133,208	12.11	3.65
P12.1	PROTECTIVE CONTROL AND RELAY PANELS	35-R3	0	106,685	0	0	0	0.00	5.2	65,847		
R13.1	ROADS	60-R4	(8)	1,859	0	149	53	1.56	5.2	248	11.70	3.65
S07.1	STACKS	55-R4	(8)	9,202,119	0	736,169	144,478	1.57	5.2	4,786,711	3.02	3.65
S08.1	STATIC EXCITATION SYSTEM	32-R4	(9)	1,461,435	0	82,686	70,971	4.86	1.4	729,359	9.73	2.43
T03.1	TOOLS AND EQUIPMENT	20-SQ	0	351,262	0	0	0	0.00	5.2	268,073		
T05.1	TRANSFORMERS	55-R3	(9)	126,690	0	7,602	1,451	1.14	5.2	126,690	1.15	2.43
T09.1	TURBINES	55-R2.5	(14)	27,077,372	0	3,790,832	730,053	2.70	5.2	20,041,663	3.64	6.11
W03.1	WATER SYSTEMS - FEED	55-R2.5	(8)	2,818,634	0	225,491	44,198	1.57	5.1	1,270,349	3.48	3.66
W04.1	WATER TREATMENT	55-R2.5	(9)	2,792,962	0	167,578	32,417	1.16	5.2	1,772,842	1.83	2.44
	Sub-Total			121,382,565	0	10,722,906	2,162,353	1.78		59,963,868	3.61	
	TOTAL			2,580,159,221	0	228,328,374	9,200,534	0.36		1,816,070,997	0.51	



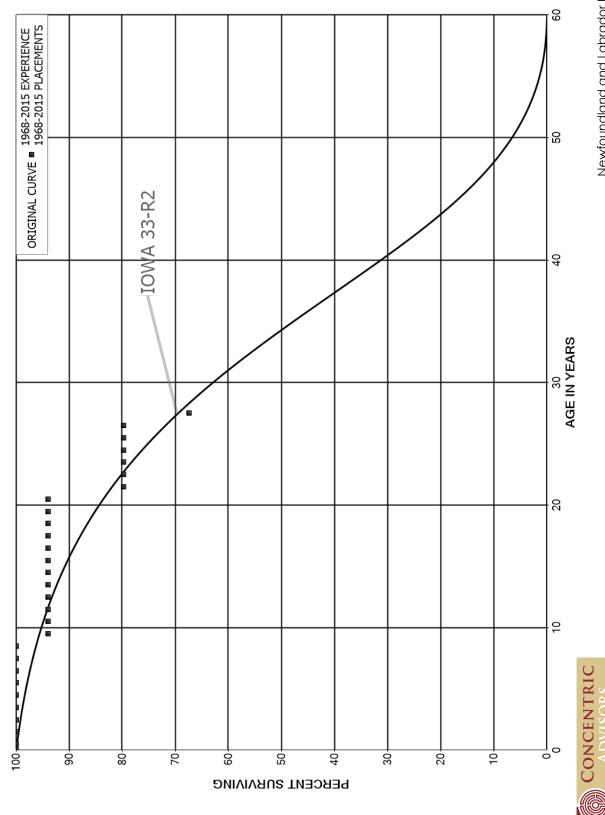
PART V. SERVICE LIFE STATISTICS



V-2

NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT A01 - AIRCRAFT LANDING STRIP ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT A01 - AIRCRAFT LANDING STRIP

ORIGINAL LIFE TABLE

PLACEMENT	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	583,066 580,763 580,763 580,763 580,763 580,763 580,763 580,763 580,763	35 , 373	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9391	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	467,000 467,000 467,000 467,000 467,000 467,000 467,000 467,000 467,000		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	93.91 93.91 93.91 93.91 93.91 93.91 93.91 93.91 93.91
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	467,000 467,000 201,633 9,425 9,425 9,425 9,425 9,425 7,976	70,746 1,449	0.0000 0.1515 0.0000 0.0000 0.0000 0.0000 0.0000 0.1537 0.0000 0.0000	1.0000 0.8485 1.0000 1.0000 1.0000 1.0000 0.8463 1.0000	93.91 93.91 79.68 79.68 79.68 79.68 79.68 79.68 67.43
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	67.43 67.43 67.43 67.43 67.43 67.43 67.43 67.43



NEWFOUNDLAND AND LABRADOR HYDRO

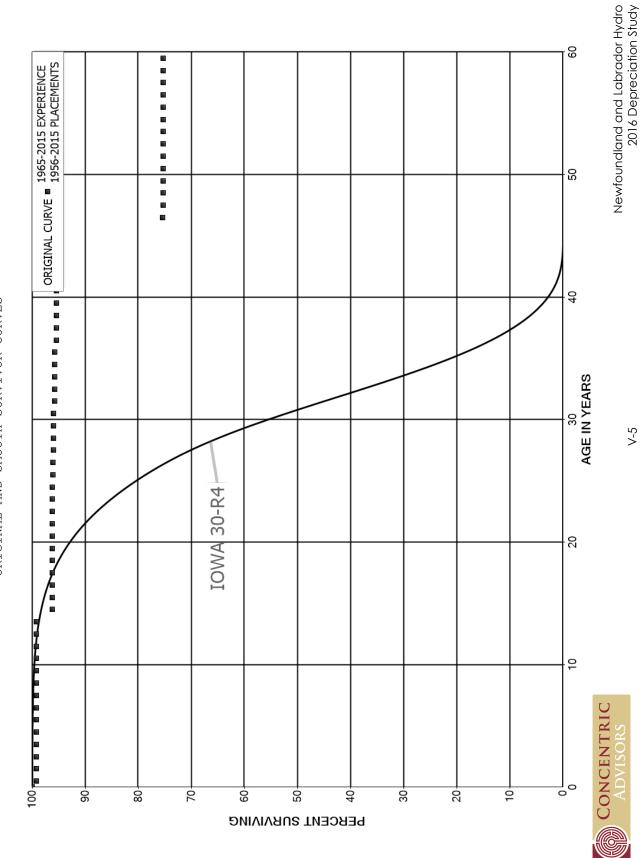
ACCOUNT A01 - AIRCRAFT LANDING STRIP

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2015 EXPERIENCE B					ID 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5	7,976 7,976		0.0000	1.0000	67.43 67.43 67.43



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT A04 - AUXILIARY POWER SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT A04 - AUXILIARY POWER SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT	BAND 1956-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	6,844,251 5,450,620 5,450,620 4,648,143 4,435,128 4,375,301 3,417,839 3,417,839 3,417,839 3,503,309	56,321	0.0082 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9918 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 99.18 99.18 99.18 99.18 99.18 99.18 99.18 99.18
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,503,309 3,405,766 3,405,766 2,957,369 2,957,369 2,500,316 2,336,231 2,320,175 2,320,175 2,320,175	88,784	0.0000 0.0000 0.0000 0.0000 0.0300 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9700 1.0000 1.0000 1.0000 1.0000	99.18 99.18 99.18 99.18 99.18 96.20 96.20 96.20 96.20
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,320,175 2,320,175 2,320,175 2,320,175 2,256,451 2,256,451 2,252,016 1,571,875 1,404,505 1,404,505	4,435 1,465	0.0000 0.0000 0.0000 0.0000 0.0000 0.0020 0.0000 0.0009 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9980 1.0000 0.9991 1.0000	96.20 96.20 96.20 96.20 96.20 96.01 96.01 95.92 95.92
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,404,505 1,404,505 1,181,198 1,137,700 724,162 724,162 588,602 486,440 484,440 484,440	2,233	0.0000 0.0016 0.0000 0.0000 0.0000 0.0000 0.0041 0.0000 0.0000	1.0000 0.9984 1.0000 1.0000 1.0000 0.9959 1.0000 1.0000	95.92 95.92 95.77 95.77 95.77 95.77 95.77 95.38 95.38



NEWFOUNDLAND AND LABRADOR HYDRO

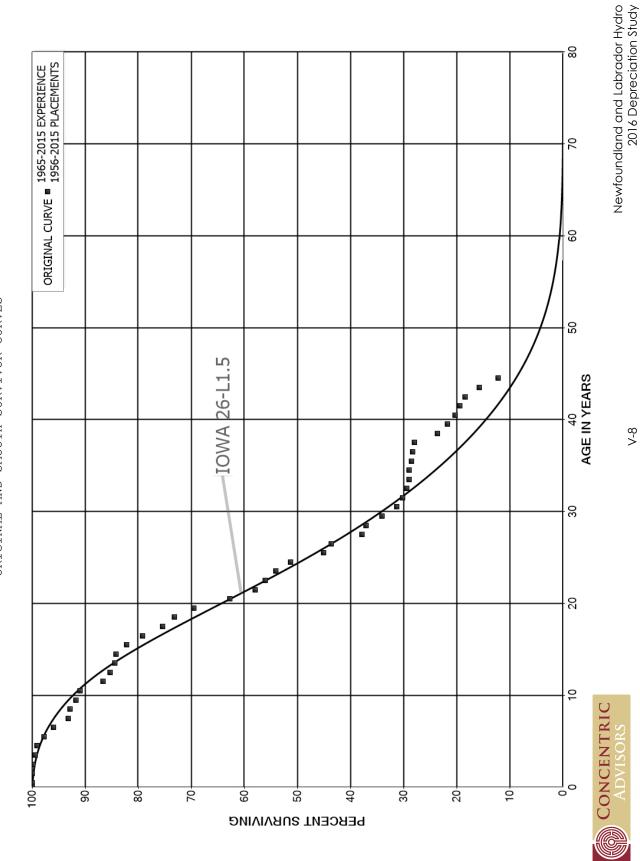
ACCOUNT A04 - AUXILIARY POWER SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1956-2015 EXPERIENCE BAND 196					D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	484,440 484,440 479,390 479,390 479,390 479,390 467,390 369,390 369,101	98,000 289		1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.7903 0.9992 1.0000	95.38 95.38 95.38 95.38 95.38 95.38 95.38 75.32 75.32
49.5 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5 58.5	85,470 85,470 85,470 85,470 85,470 85,470 85,470 85,470 85,470		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	75.32 75.32 75.32 75.32 75.32 75.32 75.32 75.32 75.32 75.32
59.5					75.32



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B01 - BATTERY AND POWER SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B01 - BATTERY AND POWER SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT	BAND 1956-2015		EXPEF	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	15,741,039 14,914,911 14,548,815 13,711,017 12,451,002 11,702,891 10,984,190 10,009,380 9,362,565 8,847,535	31,712 47,671 40,274 159,679 207,966 288,121 34,448 107,713	0.0000 0.0000 0.0022 0.0035 0.0032 0.0136 0.0189 0.0288 0.0037 0.0122	1.0000 1.0000 0.9978 0.9965 0.9968 0.9864 0.9811 0.9712 0.9963 0.9878	100.00 100.00 100.00 99.78 99.44 99.11 97.76 95.91 93.15 92.81
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	8,339,058 7,835,000 7,037,952 5,559,047 5,492,709 4,629,876 4,336,216 4,154,340 3,769,965 3,643,147	67,934 371,208 106,152 59,727 13,768 108,926 161,634 195,177 115,058 180,715	0.0081 0.0474 0.0151 0.0107 0.0025 0.0235 0.0373 0.0470 0.0305 0.0496	0.9919 0.9526 0.9849 0.9893 0.9975 0.9765 0.9627 0.9530 0.9695 0.9504	91.68 90.93 86.62 85.32 84.40 84.19 82.21 79.14 75.42 73.12
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	3,280,050 2,887,798 2,641,652 2,556,201 2,300,838 2,183,195 1,635,643 1,569,780 1,354,635 1,326,794	320,349 221,046 85,451 90,249 117,643 266,372 52,049 208,599 25,667 107,122	0.0977 0.0765 0.0323 0.0353 0.0511 0.1220 0.0318 0.1329 0.0189 0.0807	0.9023 0.9235 0.9677 0.9647 0.9489 0.8780 0.9682 0.8671 0.9811 0.9193	69.49 62.71 57.91 56.03 54.06 51.29 45.03 43.60 37.81 37.09
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5	1,219,672 1,006,195 970,576 946,881 851,124 851,124 530,788 516,555 470,539 398,027	100,855 35,619 23,696 17,400 10,357 5,270 6,470 72,512 32,393	0.0827 0.0354 0.0244 0.0184 0.0000 0.0122 0.0099 0.0125 0.1541 0.0814	0.9173 0.9646 0.9756 0.9816 1.0000 0.9878 0.9901 0.9875 0.8459 0.9186	34.10 31.28 30.17 29.43 28.89 28.54 28.26 27.90 23.60



NEWFOUNDLAND AND LABRADOR HYDRO

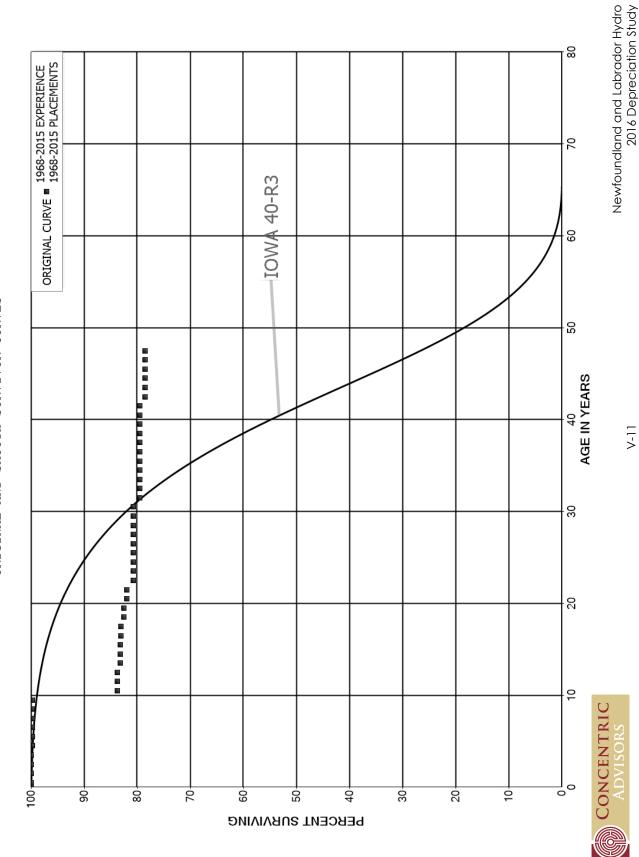
ACCOUNT B01 - BATTERY AND POWER SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1956-2015 EXPERIENCE BAND 1965					D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	365,634 335,847 322,147 304,702 242,923 126,300 122,665 110,240 1,466	23,740 13,700 17,094 44,588 55,185	0.0531 0.1463 0.2272 0.0000	0.9351 0.9592 0.9469 0.8537 0.7728 1.0000 0.8987 1.0000 1.0000	21.68 20.27 19.45 18.42 15.72 12.15 10.92 10.92
49.5 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5	1,466 1,466 1,466 1,466 1,466 1,466 1,466 1,466 1,466		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	10.92 10.92 10.92 10.92 10.92 10.92 10.92 10.92 10.92
59.5					10.92



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT BO2 - BOILER SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B02 - BOILER SYSTEM

ORIGINAL LIFE TABLE

PLACEMENT	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	70,231,168 70,137,735 69,218,304 69,135,617 67,758,844 66,863,796 65,506,295 64,184,236 59,966,281 54,489,872	180,285	0.0000 0.0000 0.0000 0.0000 0.0027 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9973 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 99.73 99.73 99.73 99.73
9.5 10.5 11.5 12.5 13.5	54,489,872 45,768,177 45,768,177 45,768,177 45,439,745	8,721,695 328,432	0.1601 0.0000 0.0000 0.0072 0.0000	0.8399 1.0000 1.0000 0.9928 1.0000	99.73 83.77 83.77 83.77 83.17
14.5 15.5 16.5 17.5 18.5	45,031,090 45,031,090 44,714,746 44,714,746 43,412,932	42,746 292,387	0.0000 0.0009 0.0000 0.0065 0.0000	1.0000 0.9991 1.0000 0.9935 1.0000	83.17 83.17 83.09 83.09 82.55
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	43,383,798 43,045,370 43,045,370 42,231,334 42,066,888 42,066,888 42,066,888 37,715,238 37,234,903 37,066,712	338,428 629,544	0.0078 0.0000 0.0146 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9922 1.0000 0.9854 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	82.55 81.90 81.90 80.71 80.71 80.71 80.71 80.71 80.71
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	36,922,122 36,885,398 36,231,939 34,026,361 33,958,330 33,644,077 15,993,526 15,971,096 15,971,096	564,681	0.0000 0.0153 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 0.9847 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	80.71 80.71 79.47 79.47 79.47 79.47 79.47 79.47 79.47 79.47



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B02 - BOILER SYSTEM

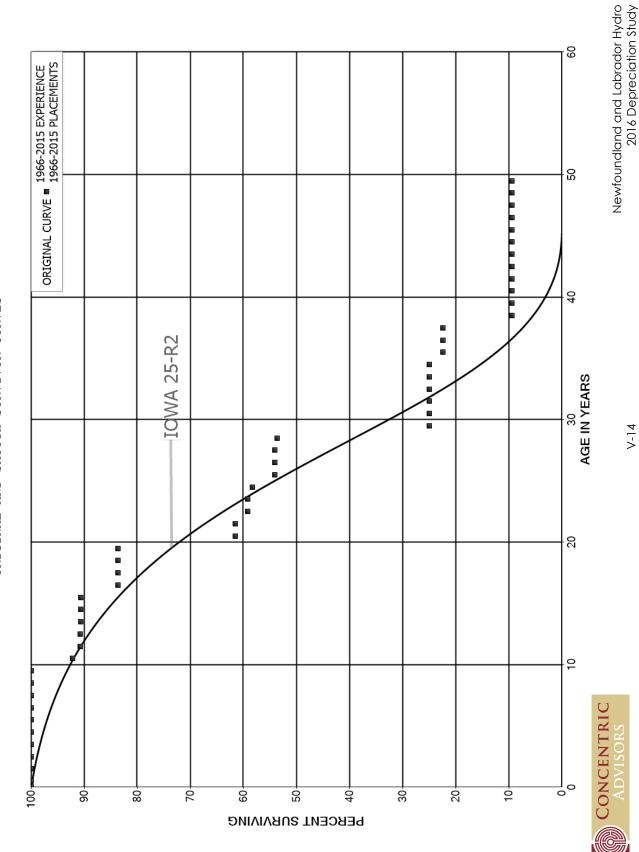
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2015 EXPERIENCE BAN					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	15,964,723 15,964,723 15,964,723 15,781,230 15,781,230 14,985,641 14,985,641 14,985,641	183,493	0.0000 0.0000 0.0115 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9885 1.0000 1.0000 1.0000 1.0000	79.47 79.47 79.47 78.56 78.56 78.56 78.56 78.56



V-14

ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B03 - BOOMS - TIMBER



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B03 - BOOMS - TIMBER

ORIGINAL LIFE TABLE

BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
723,485 671,923 634,914 634,914 634,914 634,914 634,914 634,914		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
634,914 584,914 576,242 576,242 575,423 575,423 575,423 531,022 531,022	50,000 8,673 818 44,401	0.0788 0.0148 0.0000 0.0014 0.0000 0.0000 0.0772 0.0000 0.0000	0.9212 0.9852 1.0000 0.9986 1.0000 1.0000 0.9228 1.0000 1.0000	100.00 92.12 90.76 90.76 90.63 90.63 90.63 83.64 83.64
531,022 390,753 390,753 375,791 375,791 370,363 343,589 343,589	140,269 14,962 5,428 26,774	0.2641 0.0000 0.0383 0.0000 0.0144 0.0723 0.0000	0.7359 1.0000 0.9617 1.0000 0.9856 0.9277 1.0000	83.64 61.54 61.54 59.19 59.19 58.33 54.12
340,555 158,489 158,489 158,489 158,489 158,489 158,489 142,425 95,631 95,631	3,034 182,066 16,064 55,440	0.5346 0.0000 0.0000 0.0000 0.0000 0.1014 0.0000 0.5797	0.4654 1.0000 1.0000 1.0000 1.0000 0.8986 1.0000 1.0000 0.4203	54.12 53.64 24.96 24.96 24.96 24.96 24.96 24.96 22.43 22.43 22.43 9.43
	EXPOSURES AT BEGINNING OF AGE INTERVAL 723,485 671,923 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 584,914 576,242 576,242 575,423 575,423 575,423 575,423 575,423 575,721 370,363 343,589	EXPOSURES AT BEGINNING OF AGE INTERVAL 723,485 671,923 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 634,914 50,000 584,914 576,242 576,242 576,242 576,242 576,242 575,423 575,423 575,423 575,423 575,423 575,423 575,423 575,791 31,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,022 531,026 531,027 5,428 370,363 390,753 39	EXPOSURES AT BEGINNING OF AGE INTERVAL DURING AGE RETMT RATIO 723,485	EXPOSURES AT BEGINNING OF AGE INTERVAL INTERVAL RATIO RATIO 723,485



NEWFOUNDLAND AND LABRADOR HYDRO

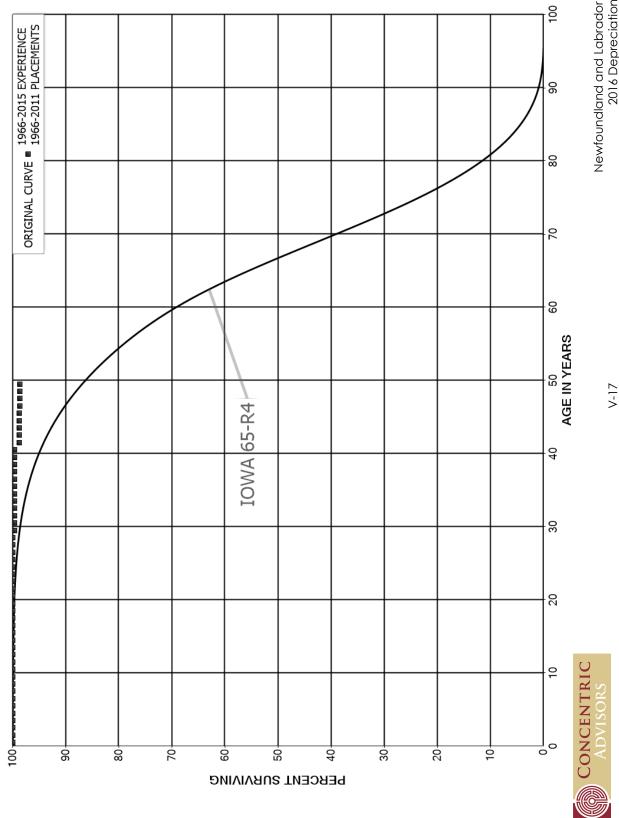
ACCOUNT B03 - BOOMS - TIMBER

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1966-2015 EXPERIENCE BAND 1966-					D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	40,191 40,191 40,191 40,191 40,191 40,191 38,209 38,209 38,209 38,209		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	9.43 9.43 9.43 9.43 9.43 9.43 9.43 9.43
49.5					9.43



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B04 - BRIDGES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B04 - BRIDGES

PLACEMENT I	BAND 1966-2011		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	4,270,789 4,270,789 4,270,789 4,270,789 4,270,789 4,251,595 4,251,595 4,251,595 4,251,595 3,914,583		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,914,583 3,914,583 3,914,583 3,602,553 3,602,553 3,602,553 3,602,553 3,602,553 3,602,553 3,602,553 3,538,953		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	3,502,566 3,502,566 3,447,001 3,447,001 2,817,693 2,817,693 2,817,693 2,817,693 2,817,693 2,817,693	11,000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9961	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,806,693 2,806,693 818,463 791,716 791,716 570,290 570,290 570,290 570,290		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.61 99.61 99.61 99.61 99.61 99.61 99.61 99.61



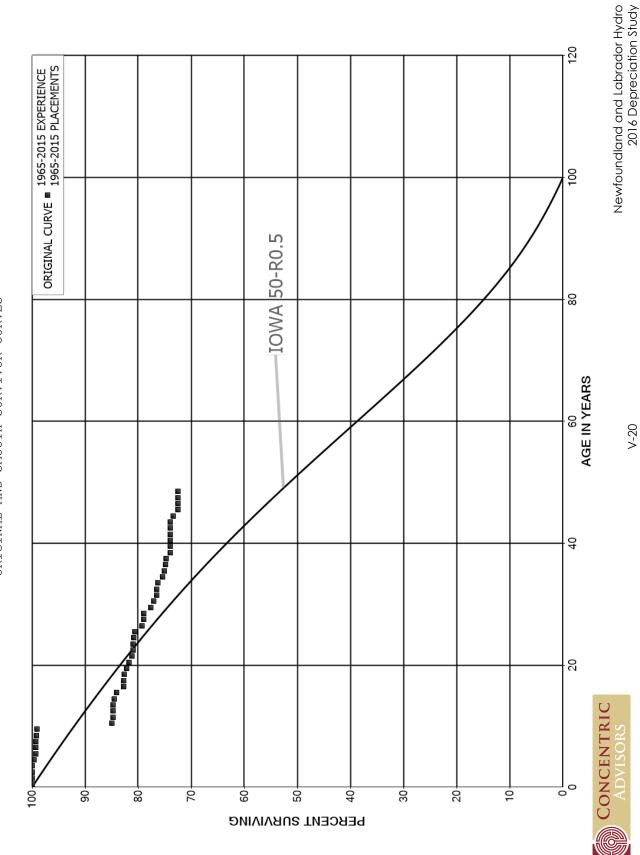
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B04 - BRIDGES

PLACEMENT BAND 1966-2011				RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	570,290 570,290 565,270 565,270 565,270 565,270 565,270 564,791 564,791	5,021 479	0.0000 0.0088 0.0000 0.0000 0.0000 0.0000 0.0008 0.0000 0.0000	1.0000 0.9912 1.0000 1.0000 1.0000 0.9992 1.0000 1.0000	99.61 99.61 98.73 98.73 98.73 98.73 98.65 98.65 98.65
49.5					98.65



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B05 - BUILDINGS - OTHER ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B05 - BUILDINGS - OTHER

PLACEMENT	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	81,733,917 79,467,544 77,165,990 75,417,722 73,220,560 69,160,675 62,203,059 61,310,444 60,347,764 59,310,893	76,705 204,506 199,241 18,672 10,000 69,496 78,986	0.0000 0.0000 0.0000 0.0010 0.0028 0.0029 0.0003 0.0002 0.0012	1.0000 1.0000 1.0000 0.9990 0.9972 0.9971 0.9997 0.9998 0.9988	100.00 100.00 100.00 100.00 99.90 99.62 99.33 99.30 99.29
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	54,131,652 45,260,382 44,413,636 40,998,859 40,933,193 38,775,766 38,080,243 37,082,626 37,008,045 36,051,567	7,733,707 59,708 25,765 132,098 158,952 634,408 13,958 10,389 220,139	0.1429 0.0013 0.0000 0.0006 0.0032 0.0041 0.0167 0.0004 0.0003	0.8571 0.9987 1.0000 0.9994 0.9968 0.9959 0.9833 0.9996 0.9997	99.04 84.89 84.78 84.72 84.45 84.11 82.70 82.67
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	34,768,422 34,024,736 33,292,621 33,080,894 32,821,223 32,650,258 30,874,977 8,899,240 8,611,291 7,364,753	180,807 238,434 66,910 35,887 34,419 66,998 526,647 33,373	0.0052 0.0070 0.0020 0.0011 0.0010 0.0021 0.0171 0.0038 0.0000 0.0171	0.9948 0.9930 0.9980 0.9989 0.9990 0.9979 0.9829 0.9962 1.0000 0.9829	82.15 81.72 81.15 80.98 80.89 80.81 80.64 79.27 78.97
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,738,268 6,471,512 6,173,052 6,052,164 5,143,479 4,896,879 4,261,803 4,115,454 4,093,941 3,616,834	44,289 46,983 3,730 14,175 58,976 27,511 13,489 5,307 40,283	0.0066 0.0073 0.0006 0.0023 0.0115 0.0056 0.0032 0.0013 0.0098 0.0000	0.9934 0.9927 0.9994 0.9977 0.9885 0.9944 0.9968 0.9987 0.9902 1.0000	77.62 77.11 76.55 76.50 76.32 75.45 75.02 74.79 74.69 73.95



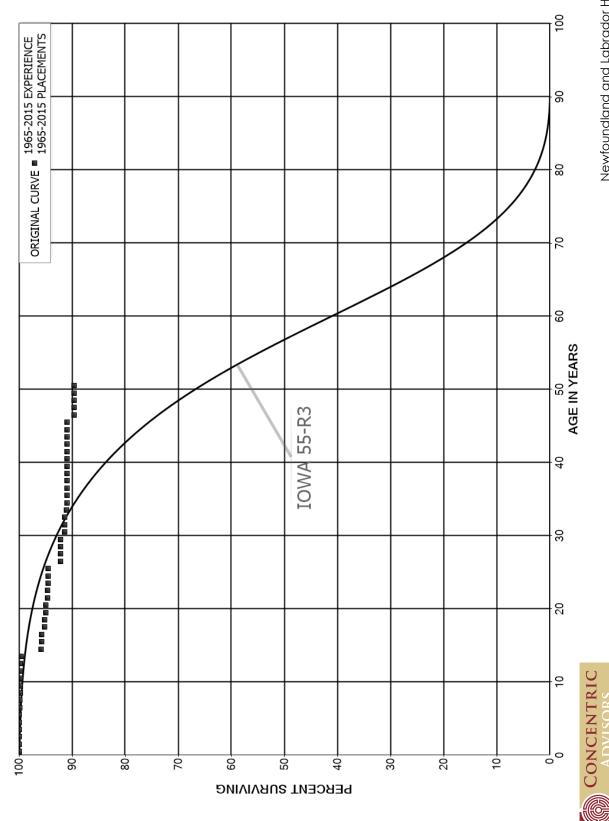
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B05 - BUILDINGS - OTHER

PLACEMENT BAND 1965-2015 EXPERIENCE BAND 1965-20					D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	3,616,834 2,711,994 2,686,482 2,409,250 2,345,598 2,277,587 2,128,116 2,025,591 321,303	18,731 27,000	0.0000 0.0000 0.0000 0.0000 0.0080 0.0119 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9920 0.9881 1.0000 1.0000	73.95 73.95 73.95 73.95 73.95 73.36 72.49 72.49 72.49 72.49



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT BO6 - BUILDINGS - METAL ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B06 - BUILDINGS - METAL

PLACEMENT	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5	35,996,791 25,168,176 24,278,983 24,278,983 24,278,983 24,247,337 24,247,337 24,058,787 24,040,969	41,104 18,990	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0017 0.0000 0.0008	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9983 1.0000 0.9992	100.00 100.00 100.00 100.00 100.00 100.00 99.83 99.83
8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5	23,972,589 23,957,044 23,672,091 23,621,849 23,454,997 22,659,992 21,685,002 21,655,096 21,365,644 21,365,644	15,545 14,030 864,917 29,906 112,921 54,966	0.0006 0.0000 0.0000 0.0000 0.0006 0.0382 0.0014 0.0000 0.0052 0.0000 0.0026	0.9994 1.0000 1.0000 0.9994 0.9618 0.9986 1.0000 0.9948 1.0000	99.75 99.69 99.69 99.69 99.63 95.82 95.69 95.19 95.19
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	20,800,414 20,696,799 20,608,897 20,117,742 19,159,276 17,668,718 16,093,101 15,552,437 15,116,988 14,832,765	76,056 26,025 0 393,729	0.0000 0.0037 0.0000 0.0013 0.0000 0.0000 0.0245 0.0000 0.0000	1.0000 0.9963 1.0000 0.9987 1.0000 1.0000 0.9755 1.0000 1.0000	94.95 94.95 94.60 94.60 94.48 94.48 92.17 92.17
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	14,816,075 14,613,697 14,205,534 12,806,433 10,823,937 10,234,044 7,095,177 6,847,351 6,163,042 6,043,170	115,181 57,461 5,733	0.0078 0.0000 0.0000 0.0045 0.0005 0.0000 0.0000 0.0000 0.0011 0.0000	0.9922 1.0000 1.0000 0.9955 0.9995 1.0000 1.0000 0.9989 1.0000	92.17 91.45 91.45 91.45 91.04 90.99 90.99 90.99 90.99



NEWFOUNDLAND AND LABRADOR HYDRO

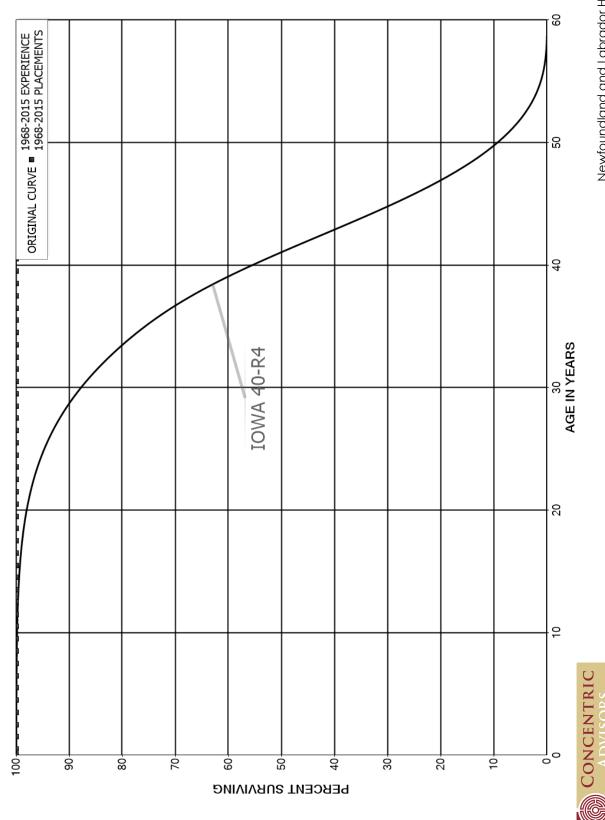
ACCOUNT B06 - BUILDINGS - METAL

PLACEMENT E	BAND 1965-2015	5 EXPERIENCE BAND 1965-201			
AGE AT BEGIN OF	EXPOSURES AT BEGINNING OF	RETIREMENTS DURING AGE	RETMT	SURV	PCT SURV BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
39.5	5,731,924		0.0000	1.0000	90.89
40.5	5,180,227		0.0000	1.0000	90.89
41.5	5,180,227		0.0000	1.0000	90.89
42.5	5,180,227		0.0000	1.0000	90.89
43.5	5,180,227		0.0000	1.0000	90.89
44.5	4,480,030		0.0000	1.0000	90.89
45.5	4,332,844	62,342	0.0144	0.9856	90.89
46.5	2,926,199		0.0000	1.0000	89.58
47.5	1,577,877		0.0000	1.0000	89.58
48.5	781,601		0.0000	1.0000	89.58
49.5 50.5	496,681		0.0000	1.0000	89.58 89.58



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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B07 - BUS DUCT GENERATOR ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B07 - BUS DUCT GENERATOR

PLACEMENT I	BAND 1968-2015		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,456,108 825,804 825,804 825,804 825,804 825,804 825,804 825,804 825,804 825,804		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	825,804 825,804 825,804 459,833 459,833 459,833 459,833 459,833 459,833		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	459,833 459,833 459,833 459,833 459,833 459,833 459,833 338,955		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	338,955 338,955 338,955 338,955 338,955 27,238 27,238 27,238 27,238		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



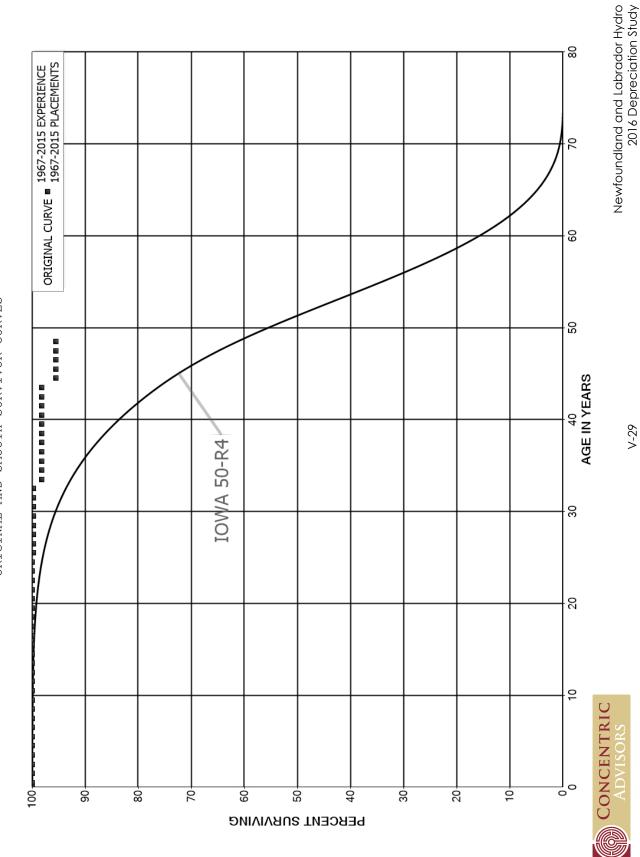
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B07 - BUS DUCT GENERATOR

PLACEMENT BAND 1968-2015 EXPERIENCE BANK				D 1968-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	27,238 27,238 27,238 27,238 27,238 27,238 27,238 27,238		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT BO8 - BUSWORK AND HARDWARE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B08 - BUSWORK AND HARDWARE

PLACEMENT I	BAND 1967-2015		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	7,379,408 7,333,002 7,286,779 7,286,779 6,251,243 6,251,243 6,251,243 6,217,568 6,217,568 6,217,568		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	6,217,568 6,211,235 6,099,010 6,061,904 6,013,333 6,013,333 5,713,849 5,713,849 5,387,459 5,331,543		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	5,232,676 4,767,022 4,617,644 4,584,516 4,029,183 3,321,720 3,160,022 2,759,996 2,737,453 2,626,785	10,856	0.0000 0.0000 0.0000 0.0000 0.0000 0.0033 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9967 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.67 99.67 99.67
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,542,611 2,518,812 2,518,812 2,352,400 2,078,238 1,866,029 1,733,264 1,577,519 1,254,807 1,016,669	35,777	0.0000 0.0000 0.0000 0.0152 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9848 1.0000 1.0000 1.0000 1.0000	99.67 99.67 99.67 99.67 98.16 98.16 98.16 98.16 98.16



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B08 - BUSWORK AND HARDWARE

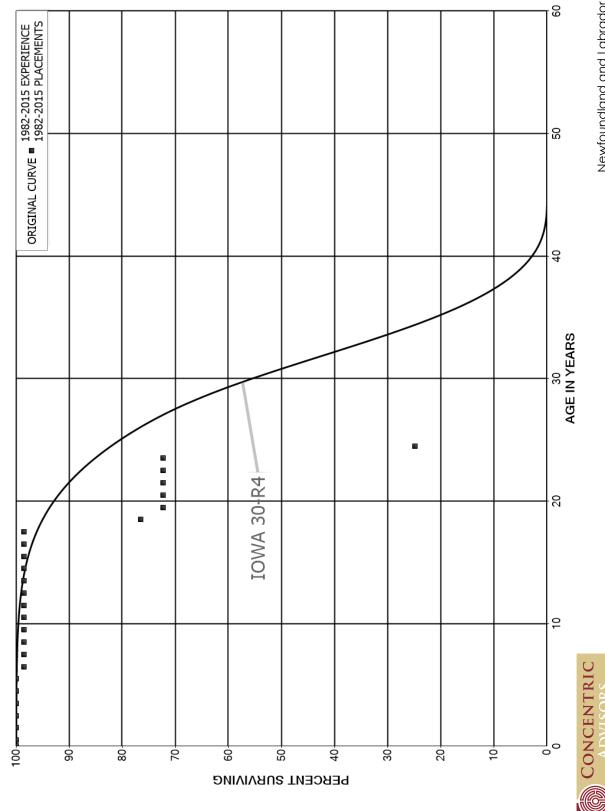
PLACEMENT E	BAND 1967-2015	267-2015 EXPERIENCE BAND 1967-20			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	1,014,371 946,331 937,636 937,636 937,636 912,767 391,137 373,137 268,548	24,869	0.0000 0.0000 0.0000 0.0000 0.0265 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9735 1.0000 1.0000 1.0000	98.16 98.16 98.16 98.16 95.55 95.55 95.55 95.55



Newfoundland and Labrador Hydro 2016 Depreciation Study

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ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT C01 - CABLES - TELECONTROL NEWFOUNDLAND AND LABRADOR HYDRO



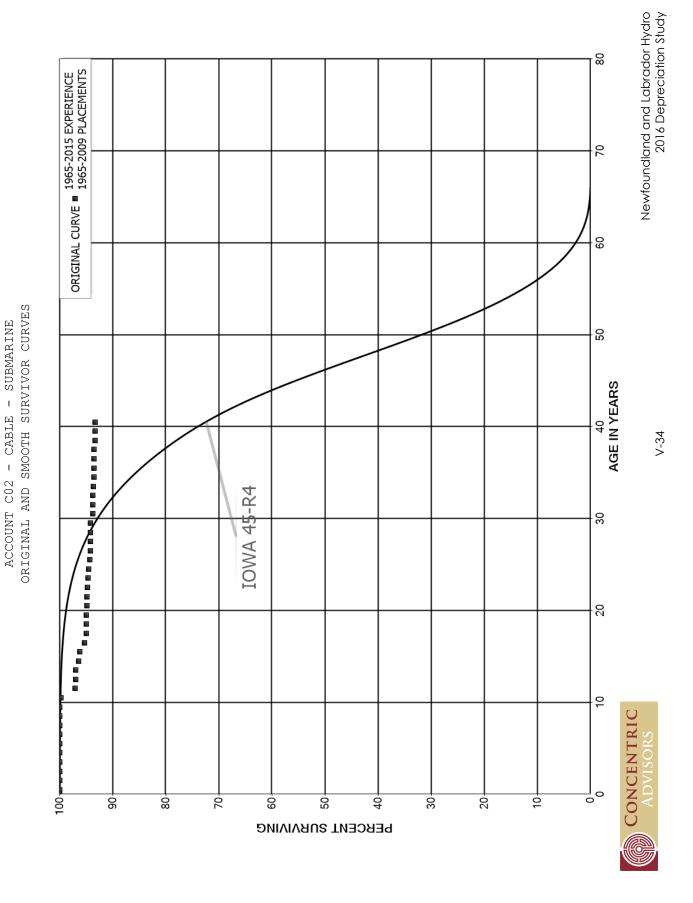
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C01 - CABLES - TELECONTROL

PLACEMENT E	BAND 1982-2015		EXPE	RIENCE BAN	D 1982-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,838,620 2,836,079 2,836,079 2,824,227 1,900,728 1,900,728 1,801,277 1,773,885 1,773,885 1,773,885	0 0 27,391	0.0000 0.0000 0.0000 0.0000 0.0000 0.0152 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9848 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 98.48 98.48 98.48
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,773,885 1,773,885 1,684,136 791,888 531,510 401,932 379,901 203,293 203,293 157,849	45,443 8,519	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.2235 0.0540	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.7765 0.9460	98.48 98.48 98.48 98.48 98.48 98.48 98.48 98.48 98.48
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	149,330 149,330 149,330 36,789 36,789 12,612 12,612 12,612 12,612 12,612	24,177	0.0000 0.0000 0.0000 0.0000 0.6572 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.3428 1.0000 1.0000 1.0000	72.34 72.34 72.34 72.34 72.34 24.80 24.80 24.80 24.80
29.5 30.5 31.5 32.5 33.5	12,612 12,612 12,612 12,612		0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000	24.80 24.80 24.80 24.80 24.80



NEWFOUNDLAND AND LABRADOR HYDRO



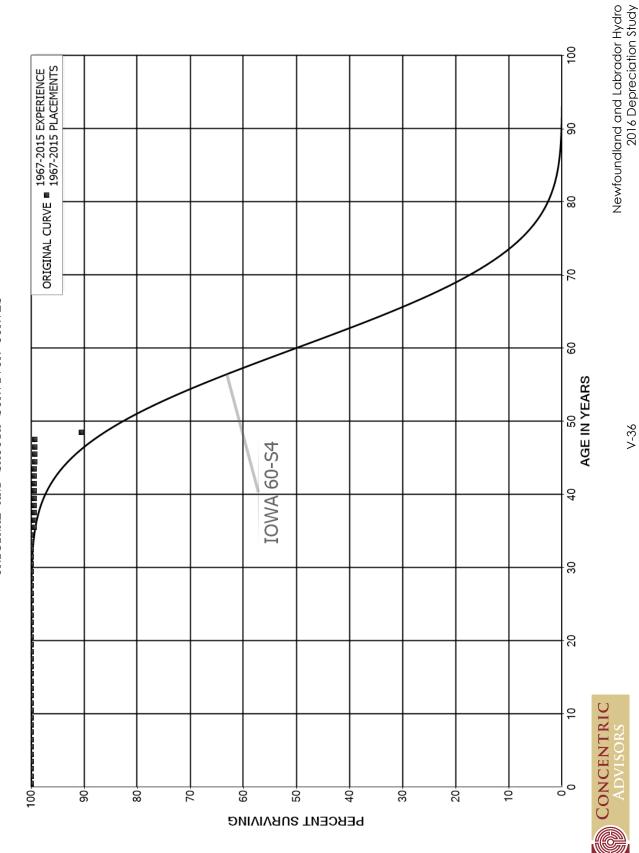
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C02 - CABLE - SUBMARINE

PLACEMENT BAND 1	965-2009		EXPER	IENCE BAN	D 1965-2015
BEGIN OF BEGI	SURES AT NNING OF INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	9,425,415 9,425,415 9,425,415 9,425,415 9,425,415 9,425,415 9,425,415 9,344,728 9,302,171 9,197,890	262	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	9,197,890 9,173,102 8,927,976 8,917,190 8,914,958 8,866,762 8,846,986 7,837,422 7,815,998	24,789 245,126 10,786 2,233 48,195 19,777 87,216 21,424 5,358	0.0027 0.0267 0.0012 0.0003 0.0054 0.0022 0.0099 0.0027 0.0000 0.0007	0.9973 0.9733 0.9988 0.9997 0.9946 0.9978 0.9901 0.9973 1.0000 0.9993	100.00 99.73 97.06 96.95 96.92 96.40 96.18 95.23 94.97 94.97
20.5 21.5 22.5 23.5 24.5 25.5	7,810,640 7,808,650 7,807,353 7,794,208 7,789,963 7,781,358 4,784,397 2,325,408 775,017	1,990 1,297 13,145 4,245 8,605 17,612 5,538	0.0003 0.0002 0.0017 0.0005 0.0011 0.0023 0.0012 0.0000 0.0000	0.9997 0.9998 0.9983 0.9995 0.9989 0.9977 0.9988 1.0000 1.0000	94.91 94.88 94.87 94.71 94.66 94.55 94.34 94.23 94.23
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	775,017 770,414 770,414 770,414 646,975 646,007 476,448 476,448 476,448	4,602 39 968 443	0.0059 0.0000 0.0000 0.0001 0.0015 0.0007 0.0000 0.0000 0.0014 0.0000	0.9941 1.0000 1.0000 0.9999 0.9985 0.9993 1.0000 1.0000 0.9986 1.0000	94.23 93.67 93.67 93.67 93.53 93.46 93.46 93.33
39.5 40.5	475 , 797		0.0000	1.0000	93.33 93.33



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT CO3 - CABLE - UNDERGROUND ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C03 - CABLE - UNDERGROUND

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	3,395,635 2,844,830 2,379,940 2,270,771 1,947,270 1,947,270 1,947,270 1,947,270 1,947,270 1,947,270		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,947,270 1,947,270 1,947,270 1,947,270 1,947,270 1,929,618 1,861,337 1,861,337 1,839,011		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,829,125 1,663,088 1,663,088 1,656,465 1,604,291 1,510,195 1,429,264 1,351,971 1,351,971 1,357,375		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,307,375 1,307,375 1,307,375 1,274,153 1,174,801 1,127,018 513,619 429,332 344,220 337,437	7,281	0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9935 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.35 99.35 99.35 99.35



NEWFOUNDLAND AND LABRADOR HYDRO

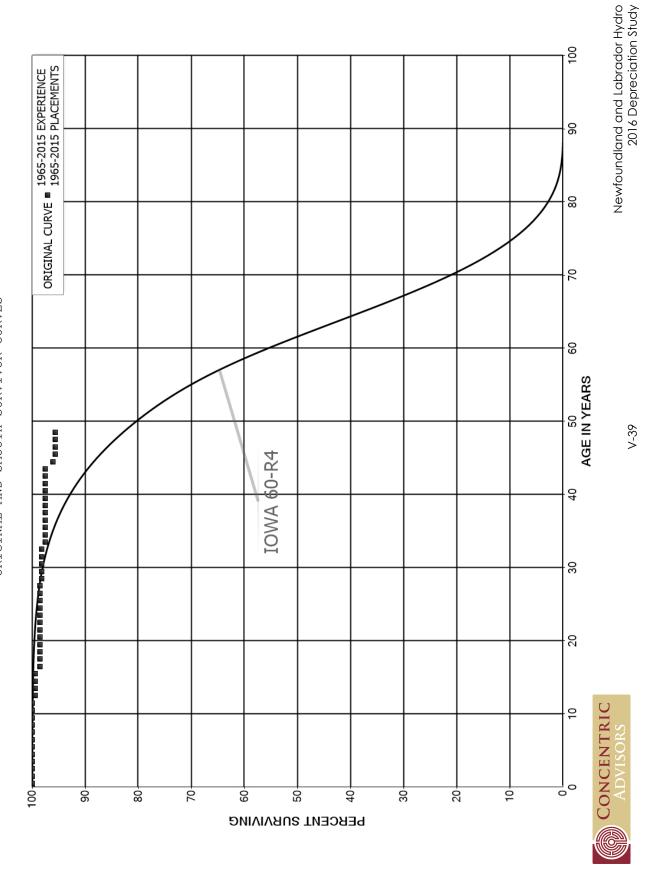
ACCOUNT C03 - CABLE - UNDERGROUND

PLACEMENT B	AND 1967-2015		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	333,739 318,436 318,436 318,436 305,575 276,579 141,503 141,503 74,406	188 6,571	0.0000 0.0000 0.0000 0.0000 0.0006 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9994 1.0000 1.0000 0.9117	99.35 99.35 99.35 99.35 99.29 99.29 99.29 99.29



NEWFOUNDLAND AND LABRADOR HYDRO
DEPRECIATION STUDY

NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT CO4 - CABLE - ABOVE GROUND ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C04 - CABLE - ABOVE GROUND

PLACEMENT H	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	11,401,564 11,299,810 11,299,810 11,137,698 10,286,672 9,987,308 9,926,759 9,926,759 9,926,759 9,926,759		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	9,884,286 9,769,662 9,769,662 9,614,621 9,580,028 9,464,487 9,346,771 9,174,365 8,884,088 8,863,231	63,219 84,913	0.0000 0.0000 0.0065 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9935 1.0000 1.0000 0.9909 1.0000 1.0000	100.00 100.00 100.00 99.35 99.35 99.35 99.35 98.45 98.45 98.45
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	8,769,635 8,542,287 7,870,443 7,815,792 7,433,724 6,964,552 6,674,759 6,267,887 6,150,181 5,978,081	19,117	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0031	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9969 1.0000	98.45 98.45 98.45 98.45 98.45 98.45 98.45 98.45 98.45 98.45
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,893,892 4,979,674 4,952,895 4,388,615 4,088,745 4,023,163 2,236,296 2,091,333 1,565,100 1,447,446	27,298 134	0.0000 0.0000 0.0000 0.0062 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9938 1.0000 1.0000 1.0000 1.0000	98.14 98.14 98.14 97.53 97.53 97.53 97.53 97.53 97.53



NEWFOUNDLAND AND LABRADOR HYDRO

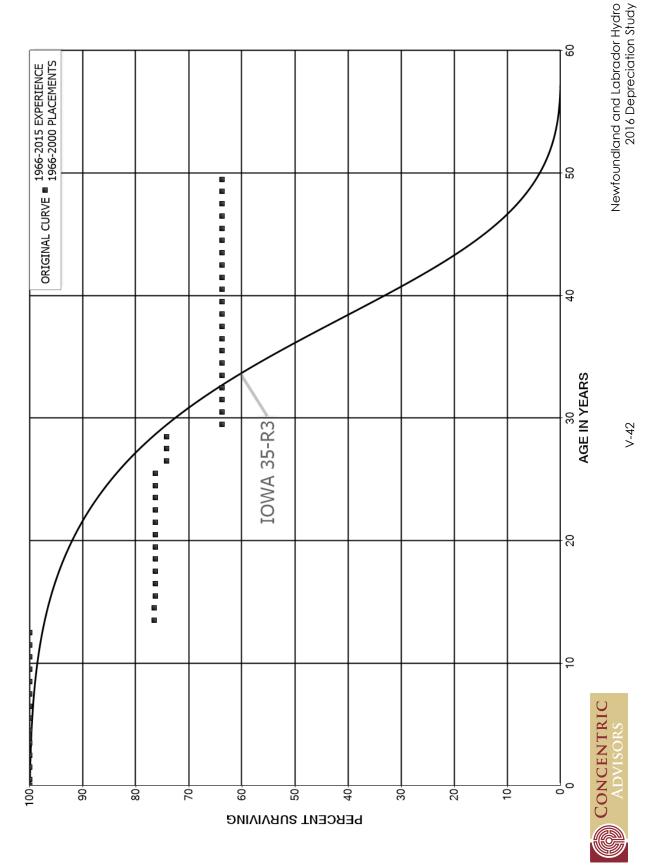
ACCOUNT C04 - CABLE - ABOVE GROUND

PLACEMENT	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	1,429,253 1,415,740 1,360,687 1,359,668 1,359,668 1,145,684 808,553 808,553 176,786	20,755 5,372	0.0000 0.0000 0.0000 0.0000 0.0153 0.0047 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9847 0.9953 1.0000 1.0000	97.53 97.53 97.53 97.53 97.53 96.04 95.59 95.59 95.59



NEWFOUNDLAND AND LABRADOR HTDRO
DEPRECIATION STUDY

NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C06 - CAPACITORS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C06 - CAPACITORS

PLACEMENT F	BAND 1966-2000		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,417,922 1,417,922 1,417,922 1,417,922 1,417,922 1,417,922 1,417,922 1,417,922 1,417,922 1,417,922		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,417,922 1,417,922 1,417,922 1,417,922 1,085,549 1,085,549 924,455 924,455 924,455	332,373 4,448	0.0000 0.0000 0.0000 0.2344 0.0000 0.0041 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.7656 1.0000 0.9959 1.0000 1.0000	100.00 100.00 100.00 100.00 76.56 76.56 76.25 76.25 76.25
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	608,625 599,093 599,093 599,093 599,093 599,093 599,093 582,416 582,416 498,690	16,678 69,680	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0278 0.0000 0.0000 0.1397	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9722 1.0000 1.0000 0.8603	76.25 76.25 76.25 76.25 76.25 76.25 76.25 74.12 74.12
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	429,010 429,010 429,010 429,010 405,743 405,743 332,630 332,630 332,630 332,630		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	63.77 63.77 63.77 63.77 63.77 63.77 63.77 63.77 63.77



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C06 - CAPACITORS

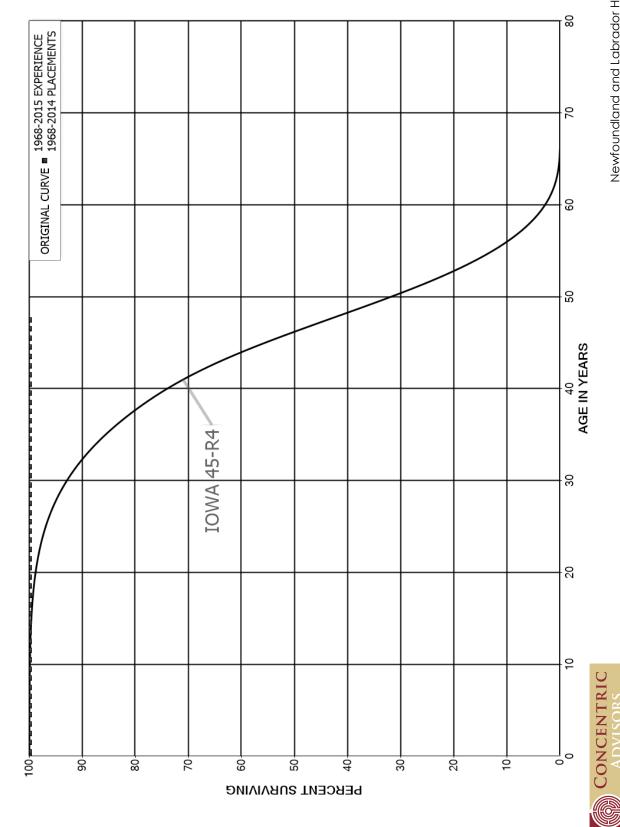
PLACEMENT H	BAND 1966-2000		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	308,195 308,195 308,195 308,195 308,195 47,294 44,471 44,471 44,471		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	63.77 63.77 63.77 63.77 63.77 63.77 63.77 63.77 63.77
49.5					63.77



Newfoundland and Labrador Hydro 2016 Depreciation Study

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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT CO7 - CHEMICAL FEED SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C07 - CHEMICAL FEED SYSTEMS

PLACEMENT E	BAND 1968-2014		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	586,296 586,296 573,005 573,005 573,005 573,005 573,005 573,005 573,005		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	573,005 573,005 573,005 573,005 573,005 573,005 573,005 573,005 573,005 544,329		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	544,329 476,006 476,006 476,006 476,006 476,006 476,006 476,006 476,006		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	467,165 467,165 467,165 467,165 467,165 467,165 417,847 367,295 367,295		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO

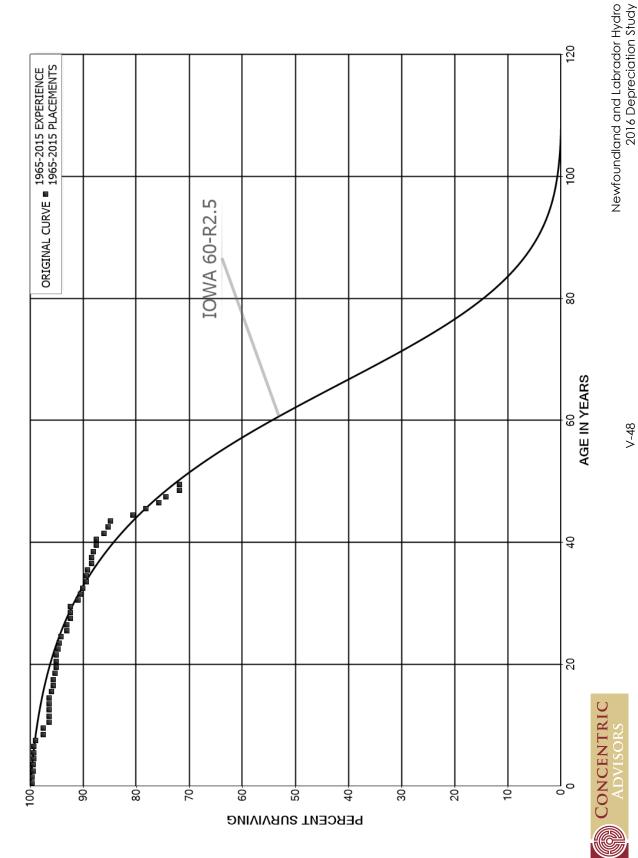
ACCOUNT C07 - CHEMICAL FEED SYSTEMS

PLACEMENT :	BAND 1968-2014		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	367,295 367,295 367,295 367,295 367,295 295,111 295,111 50,552		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00



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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C09 - CIRCUIT BREAKERS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C09 - CIRCUIT BREAKERS

PLACEMENT H	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	42,408,089 28,938,215 27,073,477 23,420,774 20,102,925 19,123,433 18,642,875 18,034,521 17,678,078 17,139,665	160,899 51,514 27,294 7,293 60,978 249,244	0.0038 0.0000 0.0019 0.0000 0.0014 0.0004 0.0000 0.0034 0.0141 0.0000	0.9962 1.0000 0.9981 1.0000 0.9986 0.9996 1.0000 0.9966 0.9859 1.0000	100.00 99.62 99.62 99.43 99.30 99.26 99.26 98.92 97.53
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	16,953,058 16,702,131 16,621,648 16,272,210 15,850,732 15,832,173 15,499,963 15,441,670 15,287,303 15,043,281	200,915 67,355 58,294 50,464 40,862	0.0119 0.0000 0.0000 0.0000 0.0000 0.0043 0.0038 0.0000 0.0033 0.0027	0.9881 1.0000 1.0000 1.0000 1.0000 0.9957 0.9962 1.0000 0.9967 0.9973	97.53 96.37 96.37 96.37 96.37 96.37 95.96 95.60 95.60
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	14,573,151 13,743,654 13,718,206 13,398,595 12,287,999 12,137,656 11,610,539 11,025,638 10,808,151 10,733,766	47,162 20,279 45,251 149,323 72,655	0.0000 0.0000 0.0034 0.0015 0.0037 0.0123 0.0000 0.0066 0.0000	1.0000 1.0000 0.9966 0.9985 0.9963 0.9877 1.0000 0.9934 1.0000	95.03 95.03 95.03 94.70 94.56 94.21 93.05 93.05 92.44 92.44
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	10,696,675 10,483,633 10,436,857 10,067,873 8,982,702 8,780,905 8,005,967 7,862,991 7,494,955 6,871,566	173,483 46,776 56,847 75,026 22,391 65,599 32,264 43,798	0.0162 0.0045 0.0054 0.0075 0.0000 0.0025 0.0082 0.0000 0.0043 0.0064	0.9838 0.9955 0.9946 0.9925 1.0000 0.9975 0.9918 1.0000 0.9957 0.9936	92.44 90.94 90.53 90.04 89.37 89.37 89.14 88.41 88.41 88.03



NEWFOUNDLAND AND LABRADOR HYDRO

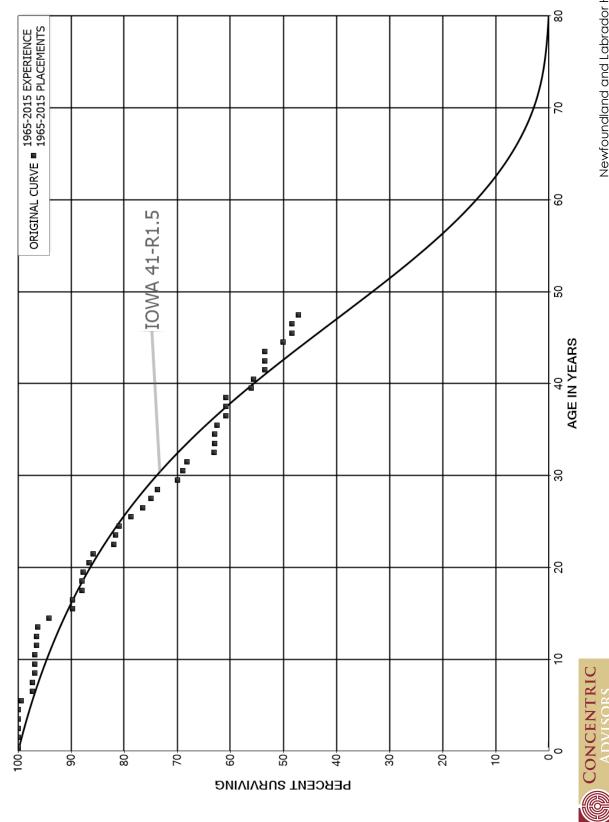
ACCOUNT C09 - CIRCUIT BREAKERS

PLACEMENT	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT	EXPOSURES AT	RETIREMENTS			PCT SURV
BEGIN OF	BEGINNING OF	DURING AGE	RETMT	SURV	BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
39.5	6,781,445		0.0000	1.0000	87.47
40.5	6 , 497 , 180	102,890	0.0158	0.9842	87.47
41.5	6,251,013	54,215	0.0087	0.9913	86.08
42.5	6,196,798	32 , 682	0.0053	0.9947	85.34
43.5	5,594,010	278 , 870	0.0499	0.9501	84.89
44.5	4,868,135	149,825	0.0308	0.9692	80.65
45.5	3,050,359	94,629	0.0310	0.9690	78.17
46.5	2,843,847	49,956	0.0176	0.9824	75.75
47.5	1,997,293	68 , 207	0.0341	0.9659	74.42
48.5	886,988		0.0000	1.0000	71.87
49.5	519,843	94,176	0.1812	0.8188	71.87
50.5	•	,			58.85



V-51

NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C10 - COMPRESSED AIR SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C10 - COMPRESSED AIR SYSTEMS

PLACEMENT I	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	18,045,846 9,907,229 7,959,480 6,442,427 6,442,427 5,847,852 5,674,885 5,380,906 4,943,013 4,678,473	32,529 125,289 19,135	0.0000 0.0000 0.0000 0.0000 0.0000 0.0056 0.0221 0.0000 0.0039 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9944 0.9779 1.0000 0.9961 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.44 97.25 97.25 96.87
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	4,647,855 4,629,884 4,429,884 4,377,956 4,133,050 3,745,763 3,579,639 3,425,631 3,397,099	17,971 10,656 96,947 192,426 1,766 70,987 8,231	0.0000 0.0039 0.0000 0.0024 0.0221 0.0466 0.0005 0.0198 0.0000 0.0024	1.0000 0.9961 1.0000 0.9976 0.9779 0.9534 0.9995 0.9802 1.0000 0.9976	96.87 96.87 96.50 96.50 96.27 94.13 89.75 89.71 87.93 87.93
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	3,378,212 3,205,312 2,943,004 2,766,426 2,237,625 2,185,057 2,083,992 1,949,912 1,796,026 1,730,649	43,863 27,663 132,489 13,168 16,940 59,522 58,872 39,150 29,172 91,004	0.0130 0.0086 0.0450 0.0048 0.0076 0.0272 0.0282 0.0201 0.0162 0.0526	0.9870 0.9914 0.9550 0.9952 0.9924 0.9728 0.9718 0.9799 0.9838 0.9474	87.72 86.58 85.83 81.97 81.58 80.96 78.75 76.53 74.99 73.77
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,639,645 1,617,494 1,433,255 1,269,188 1,114,126 1,114,126 876,987 811,553 749,163 610,688	22,151 17,783 107,523 1,504 9,569 23,423	0.0135 0.0110 0.0750 0.0012 0.0000 0.0086 0.0267 0.0000 0.0000 0.0779	0.9865 0.9890 0.9250 0.9988 1.0000 0.9914 0.9733 1.0000 1.0000	69.89 68.95 68.19 63.08 63.00 62.46 60.79 60.79 60.79



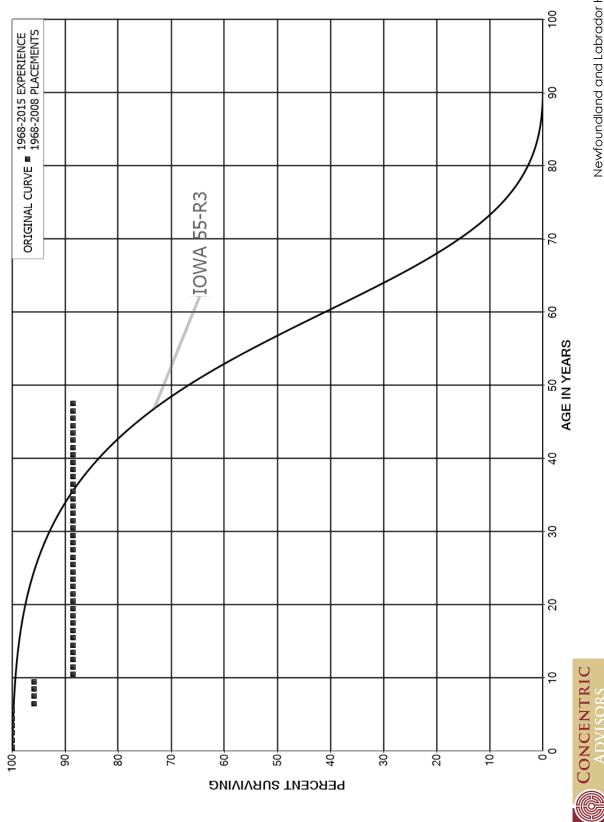
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C10 - COMPRESSED AIR SYSTEMS

PLACEMENT BAND 1965-2015 EXPERIENCE				RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	521,153 506,641 391,903 391,903 391,903 251,208 237,023 195,996 170,490 36,402	4,512 18,589 25,370 8,181 5,167	0.0087 0.0367 0.0000 0.0000 0.0647 0.0326 0.0000 0.0264 0.0000	0.9913 0.9633 1.0000 1.0000 0.9353 0.9674 1.0000 0.9736 1.0000	56.06 55.57 53.53 53.53 53.53 50.07 48.44 48.44 47.16 47.16
49.5					47.16



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C12 - CONDENSERS



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C12 - CONDENSERS

PLACEMENT H	BAND 1968-2008		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,754,393 2,754,393 2,754,393 2,754,393 2,754,393 2,754,393 2,754,393 2,640,894 2,405,299 2,405,299	113,499	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0412 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9588 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 95.88 95.88 95.88
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,405,299 2,220,002 2,220,002 2,220,002 2,220,002 2,220,002 2,220,002 2,220,002 2,220,002 2,168,448	185,297	0.0770 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9230 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	95.88 88.49 88.49 88.49 88.49 88.49 88.49 88.49
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	88.49 88.49 88.49 88.49 88.49 88.49 88.49 88.49 88.49 88.49
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 2,168,448 125,930 125,930 125,930 125,930		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	88.49 88.49 88.49 88.49 88.49 88.49 88.49 88.49 88.49



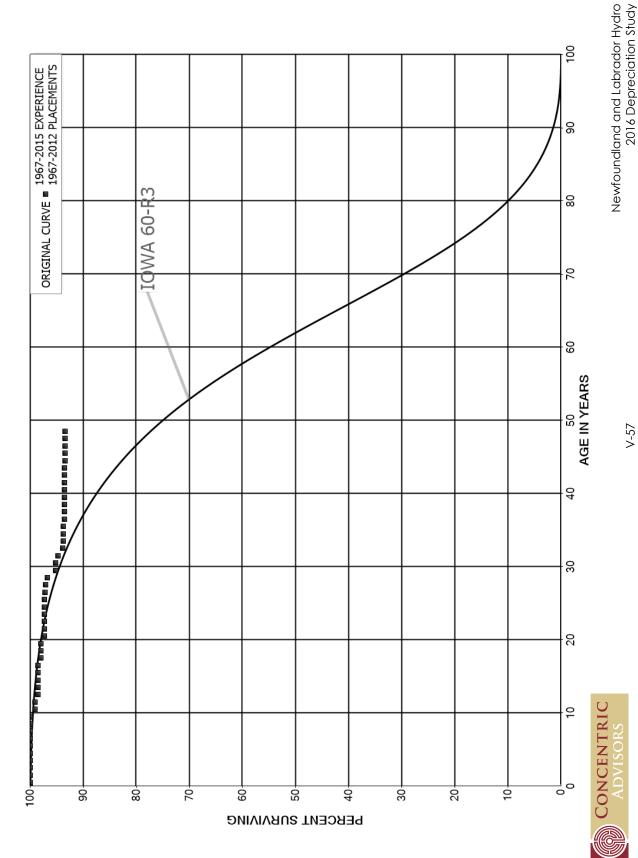
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C12 - CONDENSERS

PLACEMENT BAND 1968-2008 EXPERIENCE BAND 1					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	125,930 125,930 125,930 125,930 125,930 125,930 125,930		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	88.49 88.49 88.49 88.49 88.49 88.49 88.49



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C13 - CONDUCTOR ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C13 - CONDUCTOR

PLACEMENT	BAND 1967-2012		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	70,480,775 70,480,775 70,480,775 70,480,775 70,181,749 70,181,749 70,181,749 70,069,982 70,002,002 70,002,002	67,979	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9990 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.90 99.90
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	69,296,481 68,717,933 68,257,032 67,665,869 65,058,158 62,746,193 59,738,827 59,717,138 57,857,546 56,648,660	578,547 26,504 370,056 12,891 285,994 63,133	0.0083 0.0004 0.0054 0.0002 0.0000 0.0000 0.0000 0.0048 0.0011 0.0000	0.9917 0.9996 0.9946 0.9998 1.0000 1.0000 0.9952 0.9989 1.0000	99.90 99.07 99.03 98.49 98.48 98.48 98.48 98.00 97.90
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	55,424,640 53,661,174 53,600,351 53,558,762 53,558,762 53,458,029 42,935,498 42,910,364 41,350,890 38,513,640	14,600 990 25,135 85,533 119,028 625,623	0.0062 0.0000 0.0000 0.0000 0.0003 0.0000 0.0006 0.0020 0.0029 0.0162	0.9938 1.0000 1.0000 1.0000 0.9997 1.0000 0.9994 0.9980 0.9971 0.9838	97.90 97.29 97.29 97.29 97.29 97.27 97.27 97.21 97.02 96.74
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5	37,888,017 32,483,669 32,302,920 25,980,143 22,557,226 18,394,525 18,213,456 18,160,298 13,235,211 10,190,032	133,501 324,580 24,442 53,158	0.0000 0.0041 0.0100 0.0009 0.0000 0.0000 0.0029 0.0000 0.0000	1.0000 0.9959 0.9900 0.9991 1.0000 1.0000 0.9971 1.0000 1.0000	95.16 95.16 94.77 93.82 93.73 93.73 93.73 93.46 93.46



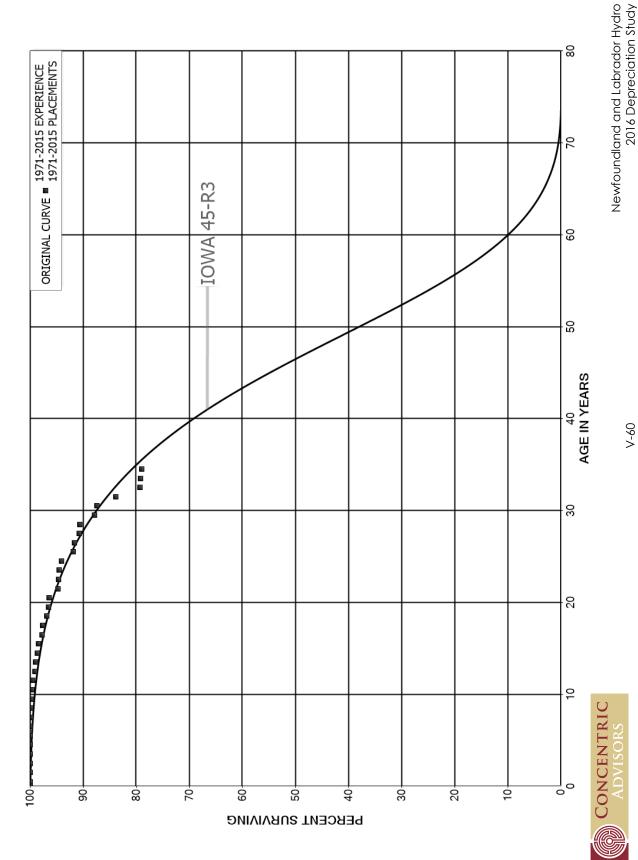
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C13 - CONDUCTOR

PLACEMENT BAND 1967-2012 EXPERIENCE BAND 1967-2					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	10,074,089 10,074,089 8,354,258 8,354,258 8,354,258 8,349,019 7,575,829 7,323,183 4,914,311	5,238	0.0000 0.0000 0.0000 0.0000 0.0006 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9994 1.0000 1.0000 1.0000	93.46 93.46 93.46 93.46 93.40 93.40 93.40 93.40 93.40



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C14 - CONDUCTOR - DISTRIBUTION ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C14 - CONDUCTOR - DISTRIBUTION

PLACEMENT H		EXPERIENCE BAND 1971-2			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	36,819,940 35,645,992 33,936,800 31,408,042 29,890,463 29,206,735 28,940,399 28,226,144 27,708,336 27,179,759	479 544 1,531 4,045 8,981 13,474 4,465 25,140 16,412	0.0000 0.0000 0.0000 0.0000 0.0001 0.0003 0.0005 0.0002 0.0009	1.0000 1.0000 1.0000 1.0000 0.9999 0.9997 0.9995 0.9998 0.9991	100.00 100.00 100.00 100.00 99.99 99.98 99.95 99.90 99.89
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	26,327,109 26,097,119 25,761,069 25,181,970 21,302,356 20,663,414 19,912,890 19,283,755 18,725,840 17,183,862	18,031 33,970 122,738 33,062 59,365 60,355 123,096 28,595 154,385 59,009	0.0007 0.0013 0.0048 0.0013 0.0028 0.0029 0.0062 0.0015 0.0082 0.0034	0.9993 0.9987 0.9952 0.9987 0.9972 0.9971 0.9938 0.9985 0.9918 0.9966	99.73 99.67 99.54 99.06 98.93 98.66 98.37 97.76 97.62 96.81
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	16,388,655 15,598,113 14,806,008 14,073,831 13,845,454 13,101,525 11,985,146 10,692,019 9,672,675 8,730,110	23,093 260,829 13,268 19,353 69,553 305,608 25,544 106,506 13,277 270,431	0.0014 0.0167 0.0009 0.0014 0.0050 0.0233 0.0021 0.0100 0.0014	0.9986 0.9833 0.9991 0.9986 0.9950 0.9767 0.9979 0.9900 0.9986 0.9690	96.48 96.34 94.73 94.65 94.52 94.04 91.85 91.65 90.74 90.61
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	7,794,514 6,628,324 5,486,386 4,824,825 4,490,644 684,485 4,409 4,409 4,409 3,753	35,049 272,343 295,579 9,868 11,911	0.0045 0.0411 0.0539 0.0020 0.0027 0.0000 0.0000 0.0000 0.0000	0.9955 0.9589 0.9461 0.9980 0.9973 1.0000 1.0000 1.0000	87.81 87.41 83.82 79.31 79.14 78.93 78.93 78.93 78.93 78.93



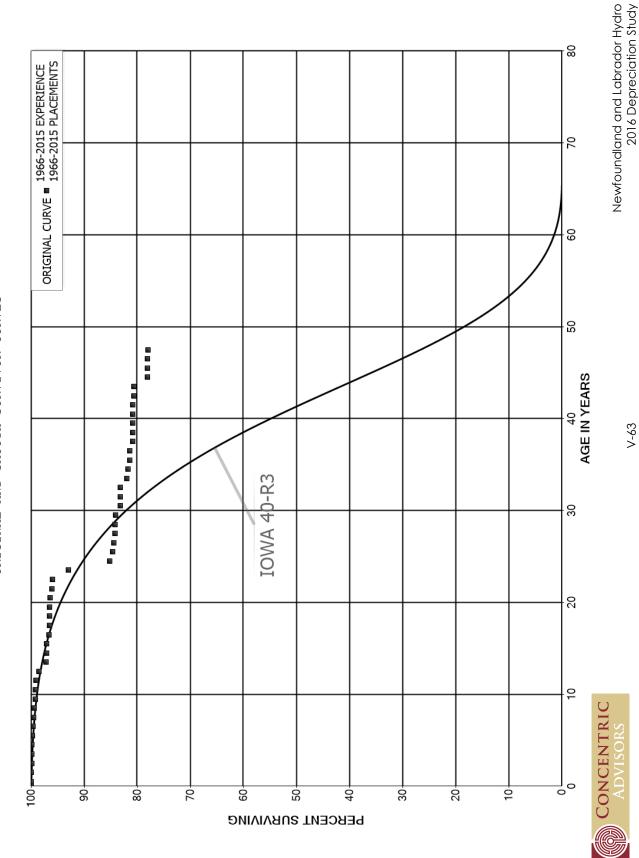
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C14 - CONDUCTOR - DISTRIBUTION

PLACEMENT BAND 1971-2015 EXP				RIENCE BAN	D 1971-2015
AGE AT BEGIN OF INTERVAL 39.5 40.5	EXPOSURES AT BEGINNING OF AGE INTERVAL 3,753 3,753	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO 0.0000 0.0000	SURV RATIO 1.0000 1.0000	PCT SURV BEGIN OF INTERVAL 78.93 78.93
41.5 42.5 43.5 44.5	3,753 3,753 3,753		0.0000	1.0000 1.0000 1.0000	78.93 78.93 78.93 78.93



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C15 - CONTROL, METER / RELAYING ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C15 - CONTROL, METER / RELAYING

PLACEMENT F	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	32,359,950 25,771,532 25,058,141 24,421,940 23,172,790 22,753,741 22,213,253 21,274,185 21,038,684 20,930,332	13,320 34,993 6,163 788 44,781 12,423 25,993 51,041	0.0000 0.0005 0.0014 0.0000 0.0003 0.0000 0.0020 0.0006 0.0012 0.0024	1.0000 0.9995 0.9986 1.0000 0.9997 1.0000 0.9980 0.9994 0.9988 0.9976	100.00 100.00 99.95 99.81 99.78 99.78 99.78 99.58 99.52 99.40
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	20,469,755 20,042,613 19,586,316 19,028,560 18,520,510 17,559,692 16,727,758 16,117,217 15,372,825 14,807,238	10,665 111,002 268,994 10,359 9,026 80,152 13,444	0.0000 0.0005 0.0057 0.0141 0.0006 0.0005 0.0048 0.0008 0.0000	1.0000 0.9995 0.9943 0.9859 0.9994 0.9995 0.9952 0.9992 1.0000 1.0000	99.15 99.15 99.10 98.54 97.15 97.09 97.04 96.58 96.50
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	14,402,480 13,323,080 12,679,908 12,475,358 10,815,343 9,593,893 8,683,391 8,180,693 7,887,390 7,515,959	13,424 45,052 18,113 395,390 903,684 55,378 30,154 13,142 2,980 12,667	0.0009 0.0034 0.0014 0.0317 0.0836 0.0058 0.0035 0.0016 0.0004	0.9991 0.9966 0.9986 0.9683 0.9164 0.9942 0.9965 0.9984 0.9996	96.50 96.41 96.08 95.94 92.90 85.14 84.65 84.35 84.22 84.19
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	7,143,772 6,816,996 6,712,760 6,324,697 5,577,905 5,391,777 4,914,807 4,538,826 4,132,037 3,885,274	74,334 3,704 88,202 15,672 21,753 33,134	0.0104 0.0005 0.0000 0.0139 0.0028 0.0040 0.0000 0.0073 0.0000 0.0000	0.9896 0.9995 1.0000 0.9861 0.9972 0.9960 1.0000 0.9927 1.0000	84.05 83.17 83.13 83.13 81.97 81.74 81.41 81.41 80.81 80.81



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C15 - CONTROL, METER / RELAYING

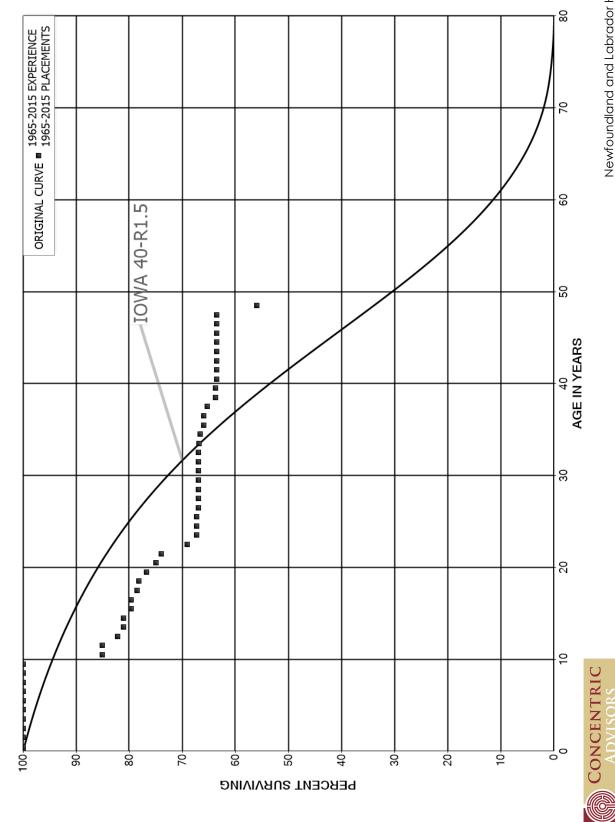
PLACEMENT BAND 1966-2015 EXPERIENCE BA				RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	3,869,706 3,268,599 3,147,635 3,140,755 3,140,755 3,041,639 2,507,838 2,492,160 2,298,558	6,881 99,116 6,399 62,541	0.0000 0.0000 0.0022 0.0000 0.0316 0.0000 0.0000 0.0026 0.0272	1.0000 1.0000 0.9978 1.0000 0.9684 1.0000 1.0000 0.9974	80.81 80.81 80.81 80.64 80.64 78.09 78.09 78.09 77.89
48.5	36,521		0.0000	1.0000	75.77 75.77



Newfoundland and Labrador Hydro 2016 Depreciation Study

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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C16 - COOLING SYSTEMS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C16 - COOLING SYSTEMS

PLACEMENT :	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	11,150,185 7,898,071 7,340,820 5,631,985 5,615,933 5,169,926 4,821,164 4,340,913 3,999,987 3,920,744		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,785,623 3,190,712 3,190,712 2,998,348 2,916,218 2,916,218 2,712,372 2,605,704 2,255,278 2,247,395	566,030 106,045 42,775 51,412 36,863 7,884 42,898	0.1495 0.0000 0.0332 0.0143 0.0000 0.0176 0.0000 0.0141 0.0035 0.0191	0.8505 1.0000 0.9668 0.9857 1.0000 0.9824 1.0000 0.9859 0.9965 0.9809	100.00 85.05 85.05 82.22 81.05 81.05 79.62 79.62 78.49 78.22
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,204,497 1,991,939 1,612,007 1,495,645 1,420,769 1,420,769 1,420,769 1,283,107 1,250,535	50,693 27,142 107,059 36,960	0.0230 0.0136 0.0664 0.0247 0.0000 0.0000 0.0058 0.0000 0.0000	0.9770 0.9864 0.9336 0.9753 1.0000 1.0000 0.9942 1.0000 1.0000	76.73 74.96 73.94 69.03 67.32 67.32 67.32 66.94 66.94
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,250,535 1,250,535 1,001,226 992,289 824,036 795,673 761,282 623,479 617,248 319,207	1,500 3,274 7,916 6,231 14,120	0.0000 0.0000 0.0000 0.0015 0.0040 0.0099 0.0000 0.0100 0.0229 0.0000	1.0000 1.0000 0.9985 0.9960 0.9901 1.0000 0.9900 0.9771 1.0000	66.94 66.94 66.94 66.83 66.57 65.91 65.25 63.76



NEWFOUNDLAND AND LABRADOR HYDRO

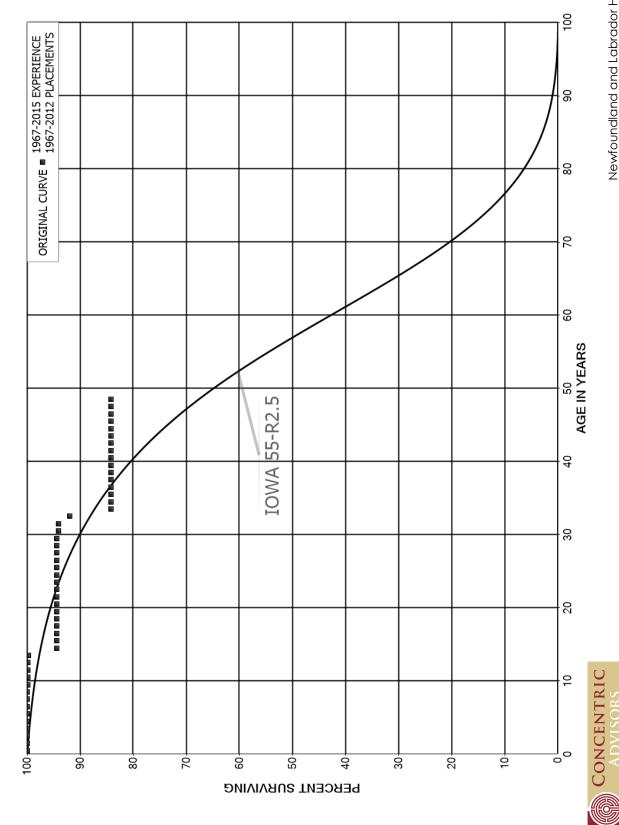
ACCOUNT C16 - COOLING SYSTEMS

PLACEMENT BAND 1965-2015 EXPERIENCE BAND 19				D 1965-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	319,207 318,052 318,052 298,713 298,713 262,697 262,697 213,556 210,322 185,322	1,155 25,000	0.0036 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.1189 0.0000	0.9964 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.8811 1.0000	63.76 63.52 63.52 63.52 63.52 63.52 63.52 63.52 63.52 55.97
49.5 50.5	49,715		0.0000	1.0000	55.97 55.97



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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C17 - COUNTERPOISE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C17 - COUNTERPOISE

PLACEMENT E	BAND 1967-2012		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	3,915,332 3,915,332 3,915,332 3,915,332 3,871,953 3,871,953 3,871,953 3,871,953 3,871,953 3,871,953	5,928	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9985	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,866,025 3,866,025 3,866,025 3,513,115 3,326,719 2,933,725 2,652,937 2,649,779 2,649,779 2,601,336	5,192 176,142	0.0000 0.0000 0.0000 0.0015 0.0529 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9985 0.9471 1.0000 1.0000 1.0000	99.85 99.85 99.85 99.85 99.70 94.42 94.42 94.42 94.42
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,583,450 2,564,439 2,233,040 1,867,771 1,705,947 1,705,388 1,671,216 1,523,554 1,308,437 1,297,319		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	94.42 94.42 94.42 94.42 94.42 94.42 94.42 94.42 94.42
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,190,515 971,350 971,350 934,320 827,814 818,308 818,308 818,308 694,989 694,989	4,514 21,504 78,963	0.0038 0.0000 0.0221 0.0845 0.0000 0.0000 0.0000 0.0000 0.0000	0.9962 1.0000 0.9779 0.9155 1.0000 1.0000 1.0000 1.0000 1.0000	94.42 94.06 94.06 91.98 84.21 84.21 84.21 84.21 84.21



NEWFOUNDLAND AND LABRADOR HYDRO

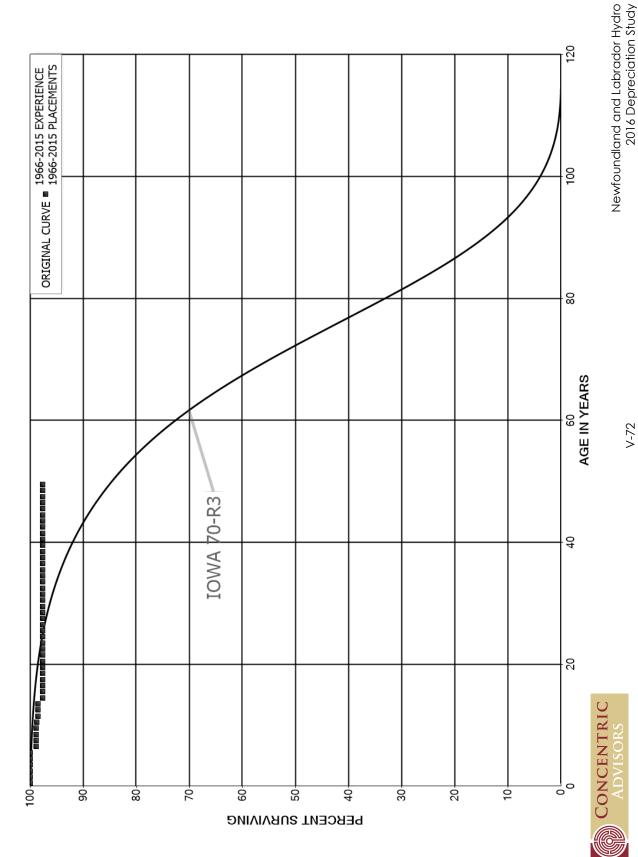
ACCOUNT C17 - COUNTERPOISE

PLACEMENT	BAND 1967-2012		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	694,989		0.0000	1.0000	84.21
40.5	694 , 989		0.0000	1.0000	84.21
41.5	679 , 437		0.0000	1.0000	84.21
42.5	679 , 437		0.0000	1.0000	84.21
43.5	679 , 437		0.0000	1.0000	84.21
44.5	679 , 437		0.0000	1.0000	84.21
45.5	678 , 891		0.0000	1.0000	84.21
46.5	678 , 891		0.0000	1.0000	84.21
47.5	431,098		0.0000	1.0000	84.21
48.5					84.21



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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C18 - CRANES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C18 - CRANES

PLACEMENT H	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	7,041,523 7,028,081 6,964,914 6,749,075 6,749,075 6,605,709 6,605,709 6,529,974 6,514,785 6,514,785	75,734	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0115 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9885 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 98.85 98.85 98.85
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	6,420,884 6,416,061 6,399,518 4,839,368 4,830,953 4,788,672 4,788,672 4,788,672 4,788,672 4,788,672	4,823 16,543 42,281	0.0008 0.0026 0.0000 0.0000 0.0088 0.0000 0.0000 0.0000 0.0000	0.9992 0.9974 1.0000 1.0000 0.9912 1.0000 1.0000 1.0000	98.85 98.78 98.52 98.52 97.66 97.66 97.66 97.66
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	4,782,465 4,778,683 4,778,683 4,763,241 4,763,241 4,763,241 4,763,241 4,739,441 4,434,835 4,434,835		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.66 97.66 97.66 97.66 97.66 97.66 97.66 97.66
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	4,434,835 4,311,217 3,317,260 3,317,260 1,815,849 1,815,849 1,679,562 1,081,985 1,081,985 1,081,985		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.66 97.66 97.66 97.66 97.66 97.66 97.66 97.66



NEWFOUNDLAND AND LABRADOR HYDRO

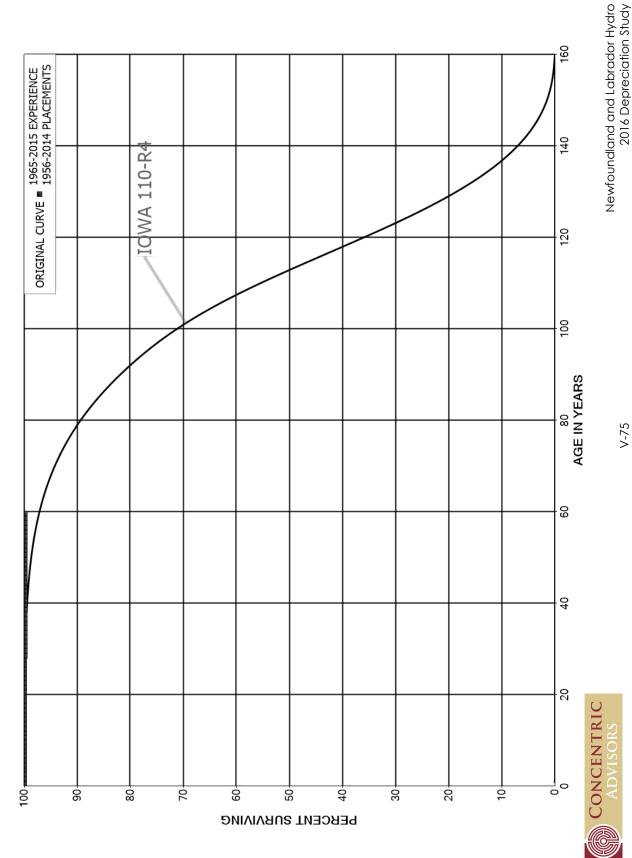
ACCOUNT C18 - CRANES

PLACEMENT	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	1,081,985 1,081,985 1,081,985 1,081,985 1,081,985 1,081,985 1,081,985 847,978 847,978 658,978		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.66 97.66 97.66 97.66 97.66 97.66 97.66 97.66
49.5					97.66



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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT D01 - DAMS AND DIKES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D01 - DAMS AND DIKES

PLACEMENT 1	BAND 1956-2014		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	361,974,611 361,974,611 361,816,305 361,816,305 360,513,319 360,513,319 360,016,433 359,312,256 359,312,256 359,927,562		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	359,927,562 357,064,279 357,064,279 328,845,243 328,845,243 328,845,243 328,845,243 328,845,243 328,845,243 328,845,243		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	328,845,243 328,845,243 328,845,243 328,840,531 328,802,521 328,802,521 328,802,521 328,299,433 316,297,101 315,619,835	677,266	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0021	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9979 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.79
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	315,571,032 304,575,473 191,450,701 169,766,434 114,996,228 114,996,228 106,262,617 79,308,072 75,663,686 75,663,686	134	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.79 99.79 99.79 99.79 99.79 99.79 99.79 99.79 99.79



NEWFOUNDLAND AND LABRADOR HYDRO

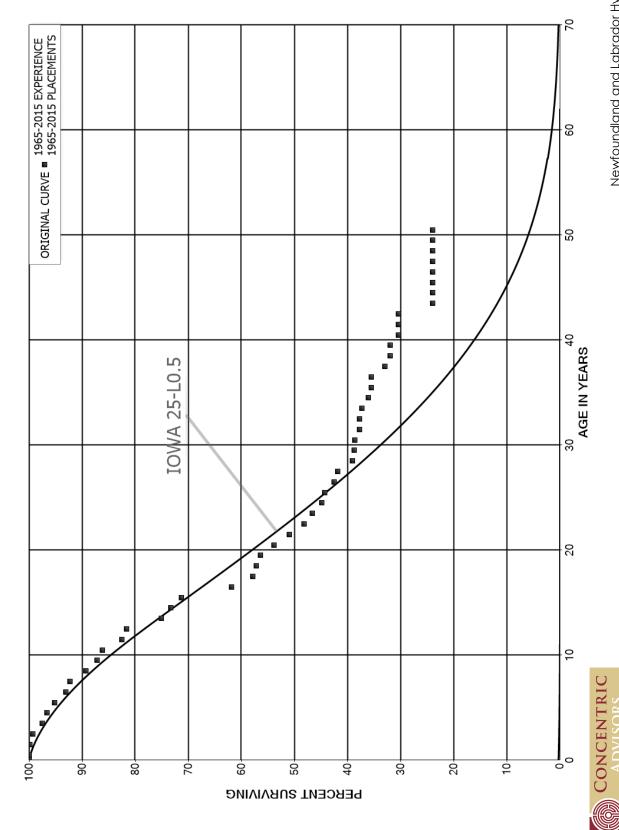
ACCOUNT D01 - DAMS AND DIKES

PLACEMENT 1	BAND 1956-2014		EXPE	RIENCE BAN	D 1965-2015
AGE AT	EXPOSURES AT	RETIREMENTS			PCT SURV
BEGIN OF	BEGINNING OF	DURING AGE	RETMT	SURV	BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
39.5	75,663,686		0.0000	1.0000	99.79
40.5	75,663,686		0.0000	1.0000	99.79
41.5	75,663,686		0.0000	1.0000	99.79
42.5	75,663,686		0.0000	1.0000	99.79
43.5	75,663,686		0.0000	1.0000	99.79
44.5	75,663,686	3,146	0.0000	1.0000	99.79
45.5	70,760,716		0.0000	1.0000	99.78
46.5	70,614,492		0.0000	1.0000	99.78
47.5	70,614,492		0.0000	1.0000	99.78
48.5	43,482,527	116	0.0000	1.0000	99.78
49.5	615,306		0.0000	1.0000	99.78
50.5	615,306		0.0000	1.0000	99.78
51.5	615,306		0.0000	1.0000	99.78
52.5	615,306		0.0000	1.0000	99.78
53.5	615,306		0.0000	1.0000	99.78
54.5	615,306		0.0000	1.0000	99.78
55.5	615 , 306		0.0000	1.0000	99.78
56.5	615,306		0.0000	1.0000	99.78
57.5	615,306		0.0000	1.0000	99.78
58.5	615,306		0.0000	1.0000	99.78
59.5					99.78



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ACCOUNT D02 - DIESEL SYSTEMS AND ENGINES ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D02 - DIESEL SYSTEMS AND ENGINES

PLACEMENT 1	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	60,908,369 58,476,998 51,717,002 49,925,783 46,654,770 42,463,182 39,066,836 35,576,464 35,166,050 33,113,977	126,086 280,669 863,917 449,035 624,574 852,864 301,402 1,135,416 797,058	0.0000 0.0022 0.0054 0.0173 0.0096 0.0147 0.0218 0.0085 0.0323 0.0241	1.0000 0.9978 0.9946 0.9827 0.9904 0.9853 0.9782 0.9915 0.9677 0.9759	100.00 100.00 99.78 99.24 97.53 96.59 95.17 93.09 92.30 89.32
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	31,958,993 30,479,328 29,204,020 28,638,070 24,704,152 22,153,380 20,064,729 17,163,010 14,959,659 13,363,449	373,543 1,275,308 323,119 2,294,762 587,844 608,581 2,668,955 1,093,659 166,917 201,359	0.0117 0.0418 0.0111 0.0801 0.0238 0.0275 0.1330 0.0637 0.0112 0.0151	0.9883 0.9582 0.9889 0.9199 0.9762 0.9725 0.8670 0.9363 0.9888 0.9849	87.17 86.15 82.55 81.63 75.09 73.31 71.29 61.81 57.87 57.22
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	12,632,012 11,445,530 9,299,615 8,673,038 8,367,321 7,670,193 7,097,159 6,746,698 6,567,795 6,089,567	555,987 617,375 517,598 277,348 313,199 100,631 286,403 95,097 436,304 63,530	0.0440 0.0539 0.0557 0.0320 0.0374 0.0131 0.0404 0.0141 0.0664 0.0104	0.9560 0.9461 0.9443 0.9680 0.9626 0.9869 0.9596 0.9859 0.9336 0.9896	56.36 53.88 50.97 48.14 46.60 44.85 44.27 42.48 41.88 39.10
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,871,542 5,862,217 5,391,672 4,153,672 3,171,517 2,612,444 1,432,816 1,432,816 1,332,768 1,290,294	9,325 133,451 48,702 105,997 41,778 100,048 42,474	0.0016 0.0228 0.0000 0.0117 0.0334 0.0160 0.0000 0.0698 0.0319 0.0000	0.9984 0.9772 1.0000 0.9883 0.9666 0.9840 1.0000 0.9302 0.9681 1.0000	38.69 38.63 37.75 37.75 37.31 36.06 35.48 35.48 33.01 31.95



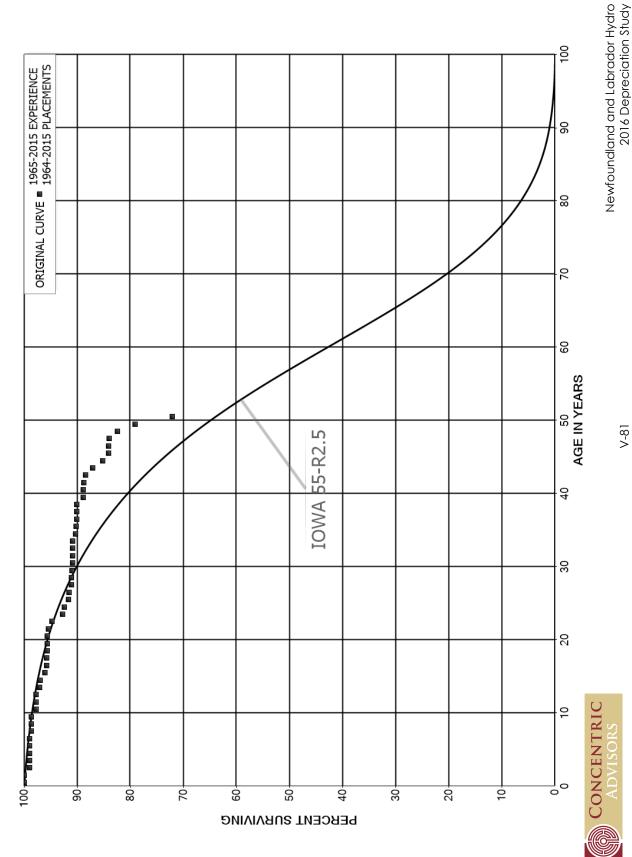
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D02 - DIESEL SYSTEMS AND ENGINES

PLACEMENT 1	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5	1,290,294 1,226,781 1,226,781	63,514	0.0492 0.0000 0.0000	0.9508 1.0000 1.0000	31.95 30.38 30.38
42.5 43.5 44.5 45.5 46.5 47.5 48.5	831,977 654,787 654,787 654,787 654,787 644,462 644,462	177,189	0.2130 0.0000 0.0000 0.0000 0.0000 0.0000	0.7870 1.0000 1.0000 1.0000 1.0000 1.0000	30.38 23.91 23.91 23.91 23.91 23.91
48.5 49.5 50.5	644,462		0.0000	1.0000	23.91 23.91 23.91



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT D03 - DISCONNECT SWITCHES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D03 - DISCONNECT SWITCHES

PLACEMENT E	BAND 1964-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5	22,095,900 17,474,940 14,553,456 13,319,299 11,785,456 10,687,854 10,630,784 10,098,449	152,196 33,780	0.0000 0.0000 0.0105 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9895 1.0000 1.0000 1.0000 0.9967	100.00 100.00 100.00 98.95 98.95 98.95 98.95
7.5 8.5	10,064,669 10,058,833	5,835	0.0006	0.9994	98.62 98.57
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	10,023,738 9,749,421 9,591,623 9,461,971 9,208,933 9,106,778 8,851,445 8,817,307 8,650,640 8,615,939	86,743 65,466 5,635 85,267 34,139 525 4,171	0.0087 0.0000 0.0000 0.0069 0.0006 0.0094 0.0039 0.0001 0.0005	0.9913 1.0000 1.0000 0.9931 0.9994 0.9906 0.9961 0.9999 0.9995 1.0000	98.57 97.71 97.71 97.71 97.04 96.98 96.07 95.70 95.69
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	8,314,559 7,892,188 7,839,960 7,675,252 7,278,498 7,217,752 6,678,456 6,165,686 6,003,213 5,851,512	16,500 59,725 165,724 24,416 57,499 10,004 29,781	0.0000 0.0021 0.0076 0.0216 0.0034 0.0080 0.0015 0.0048 0.0000 0.0007	1.0000 0.9979 0.9924 0.9784 0.9966 0.9920 0.9985 0.9952 1.0000 0.9993	95.65 95.65 95.45 94.72 92.67 92.36 91.63 91.49 91.05 91.05
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,815,459 5,789,888 5,745,574 5,701,491 5,418,574 5,253,728 4,970,406 4,925,181 4,680,873 4,283,650	9,658 1,339 29,924 9,267 2,913 1,802 1,368 55,197	0.0017 0.0000 0.0000 0.0002 0.0055 0.0018 0.0006 0.0004 0.0003 0.0129	0.9983 1.0000 1.0000 0.9998 0.9945 0.9982 0.9994 0.9996 0.9997	90.98 90.83 90.83 90.81 90.31 90.15 90.10 90.06 90.04



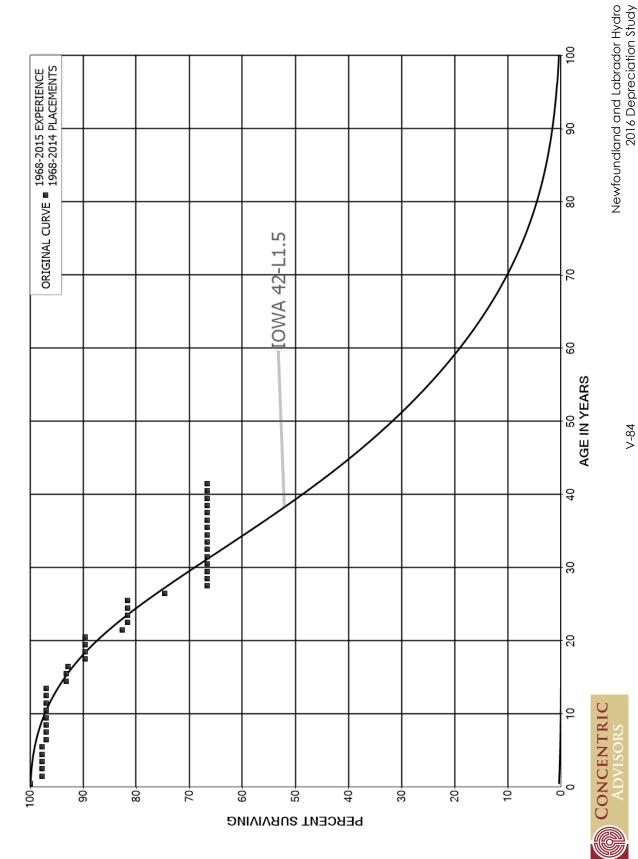
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D03 - DISCONNECT SWITCHES

PLACEMENT BAND 1964-2015 EXPERI				RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	4,206,628 4,034,274 3,868,789 3,853,556 3,515,199 3,207,262 1,890,413 1,682,694 1,198,598 462,249	5,338 15,233 58,335 75,906 43,610 1,656 21,486 18,789	0.0000 0.0013 0.0039 0.0151 0.0216 0.0136 0.0000 0.0010 0.0179 0.0406	1.0000 0.9987 0.9961 0.9849 0.9784 0.9864 1.0000 0.9990 0.9821 0.9594	88.88 88.76 88.41 87.07 85.19 84.03 84.03 83.95 82.44
49.5 50.5	265,793	23,522	0.0885	0.9115	79.09 72.09



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT D04 - DYKES AND LINERS



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NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D04 - DYKES AND LINERS

PLACEMENT 1	BAND 1968-2014		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5	3,257,663 3,257,663 3,132,304 3,132,304 3,132,304 2,653,521	75,464	0.0000 0.0232 0.0000 0.0000 0.0000	1.0000 0.9768 1.0000 1.0000 1.0000	100.00 100.00 97.68 97.68 97.68
5.5 6.5 7.5 8.5	2,653,521 2,634,096 2,634,096 2,634,096	19,425	0.0073 0.0000 0.0000 0.0000	0.9927 1.0000 1.0000 1.0000	97.68 96.97 96.97 96.97
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,634,096 2,617,582 2,617,582 2,617,582 2,541,694 2,443,238 2,443,238 2,299,051 2,178,399 2,178,399	98,455 9,704 81,055	0.0000 0.0000 0.0000 0.0000 0.0387 0.0000 0.0040 0.0353 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9613 1.0000 0.9960 0.9647 1.0000	96.97 96.97 96.97 96.97 93.21 93.21 92.84 89.57
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,178,399 2,178,399 2,009,715 1,984,559 1,767,499 1,767,499 1,503,267 1,374,705 1,227,361 1,045,371	168,684 25,156 128,562 147,344	0.0000 0.0774 0.0125 0.0000 0.0000 0.0000 0.0855 0.1072 0.0000 0.0000	1.0000 0.9226 0.9875 1.0000 1.0000 0.9145 0.8928 1.0000	89.57 89.57 82.63 81.60 81.60 81.60 74.62 66.62
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,045,371 833,860 833,860 765,383 675,487 462,303 408,403 408,403 408,403 408,403		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	66.62 66.62 66.62 66.62 66.62 66.62 66.62 66.62 66.62



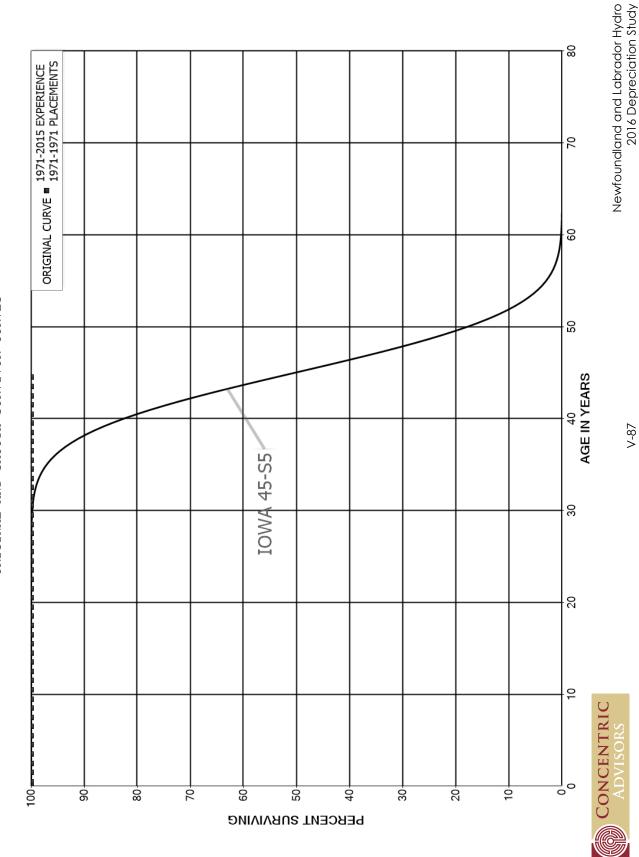
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D04 - DYKES AND LINERS

PLACEMENT BAND 1968-2014 EXPERIENCE BAND 1968-20					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	408,403 195,060 52,960 52,960 26,480 26,480 26,480 26,480	26,480	0.0000 0.0000 0.0000 0.5000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.5000 1.0000 1.0000 1.0000	66.62 66.62 66.62 33.31 33.31 33.31 33.31 33.31



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E01 - ELEVATORS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E01 - ELEVATORS

PLACEMENT E	BAND 1971-1971		EXPEF	RIENCE BAN	D 1971-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	89,800 89,800 89,800 89,800 89,800 89,800 89,800 89,800 89,800		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	89,800 89,800 89,800 89,800 89,800 89,800 89,800 89,800		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	89,800 89,800 89,800 89,800 89,800 89,800 89,800 89,800		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	89,800 89,800 89,800 89,800 89,800 89,800 89,800 89,800		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



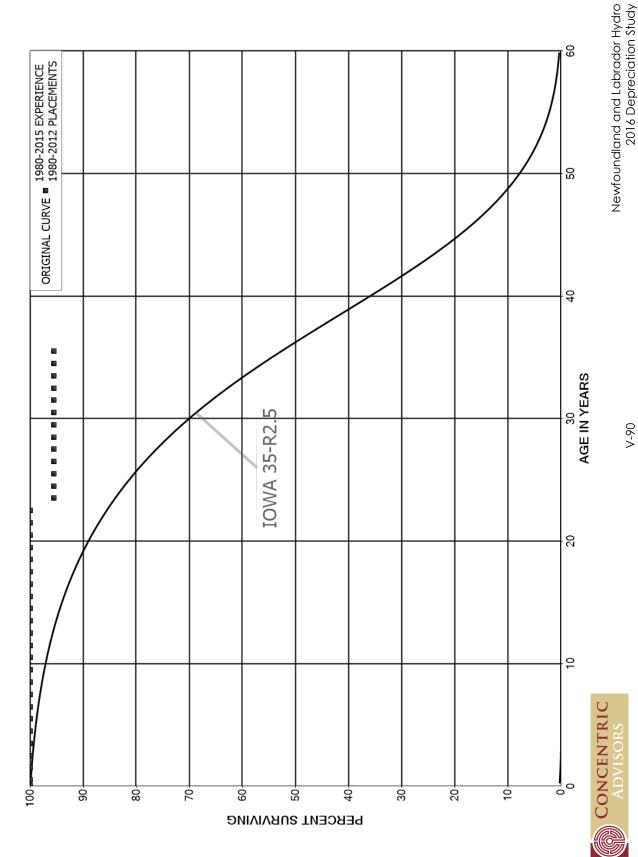
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E01 - ELEVATORS

PLACEMENT 1	EXPE	RIENCE BAN	ID 1971-2015		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5	89,800 89,800 89,800 89,800 89,800		0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E02 - EMS EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

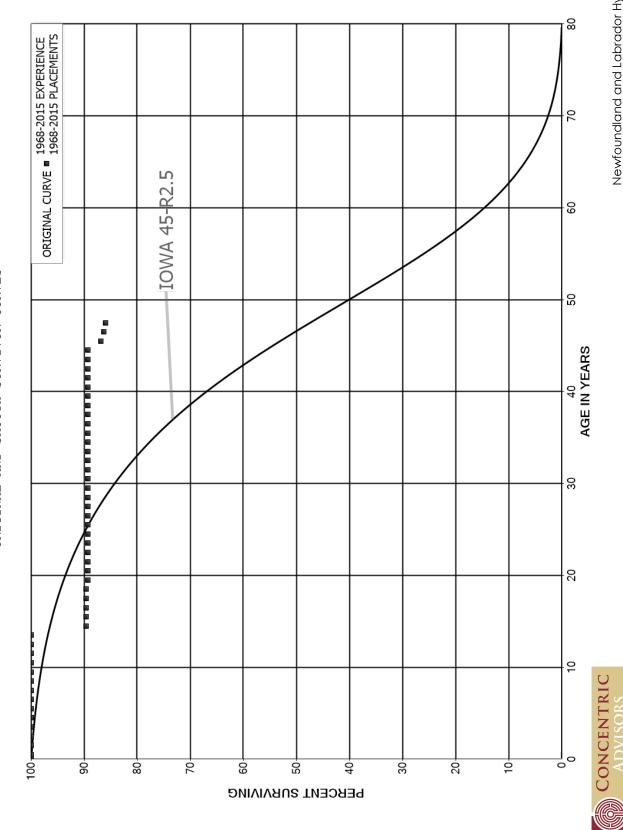
ACCOUNT E02 - EMS EQUIPMENT

PLACEMENT	BAND 1980-2012		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	13,468,716 13,468,716 13,468,716 13,468,716 13,458,915 13,446,886 13,446,886 13,424,526 13,424,526 13,424,526		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5	13,424,526 13,187,338 13,179,305 13,179,305 13,179,305 12,879,444 12,762,329 12,716,366 12,617,281 12,617,281	1,069	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9999 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 99.99 99.99 99.99 99.99 99.99 99.99
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	12,617,281 12,617,281 12,387,941 12,339,009 11,775,720 11,775,720 16,461 16,461 16,461	550,428	0.0000 0.0000 0.0000 0.0446 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9554 1.0000 1.0000 1.0000 1.0000 1.0000	99.99 99.99 99.99 95.53 95.53 95.53 95.53
29.5 30.5 31.5 32.5 33.5 34.5 35.5	16,461 16,461 16,461 16,461 16,461 16,461		0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000	95.53 95.53 95.53 95.53 95.53 95.53



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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E03 - ENVIRONMENTAL EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E03 - ENVIRONMENTAL EQUIPMENT

PLACEMENT E	BAND 1968-2015		EXPEF	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,373,439 2,353,273 2,305,102 2,305,102 2,305,102 2,305,102 2,305,102 2,305,102 2,083,160 2,083,160		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,083,160 2,083,160 2,083,160 1,267,384 1,267,384 1,132,912 869,328 869,328 869,328 740,085	131,792 3,002	0.0000 0.0000 0.0000 0.0000 0.1040 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.8960 1.0000 1.0000 1.0000 0.9959	100.00 100.00 100.00 100.00 100.00 89.60 89.60 89.60 89.60
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	737,083 707,136 607,037 607,037 607,037 607,037 607,037 607,037 607,037		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	89.24 89.24 89.24 89.24 89.24 89.24 89.24 89.24 89.24
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	607,037 607,037 607,037 607,037 607,037 607,037 607,037 607,037 607,037		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	89.24 89.24 89.24 89.24 89.24 89.24 89.24 89.24 89.24



NEWFOUNDLAND AND LABRADOR HYDRO

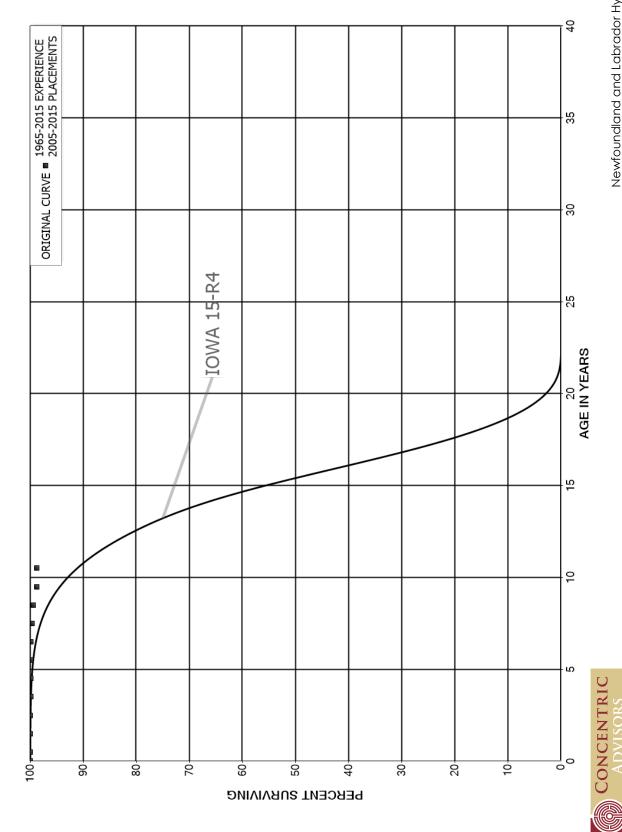
ACCOUNT E03 - ENVIRONMENTAL EQUIPMENT

PLACEMENT BAND 1968-2015 EXPERIENCE BAND 1968-20					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	607,037 607,037 607,037 607,037 607,037 590,730 586,730	16,308 4,000 2,200	0.0000 0.0000 0.0000 0.0000 0.0000 0.0269 0.0068 0.0037	1.0000 1.0000 1.0000 1.0000 1.0000 0.9731 0.9932 0.9963	89.24 89.24 89.24 89.24 89.24 89.24 86.84 86.25



Newfoundland and Labrador Hydro 2016 Depreciation Study

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NEWFOUNDLAND AND LABRADOR HYDRO

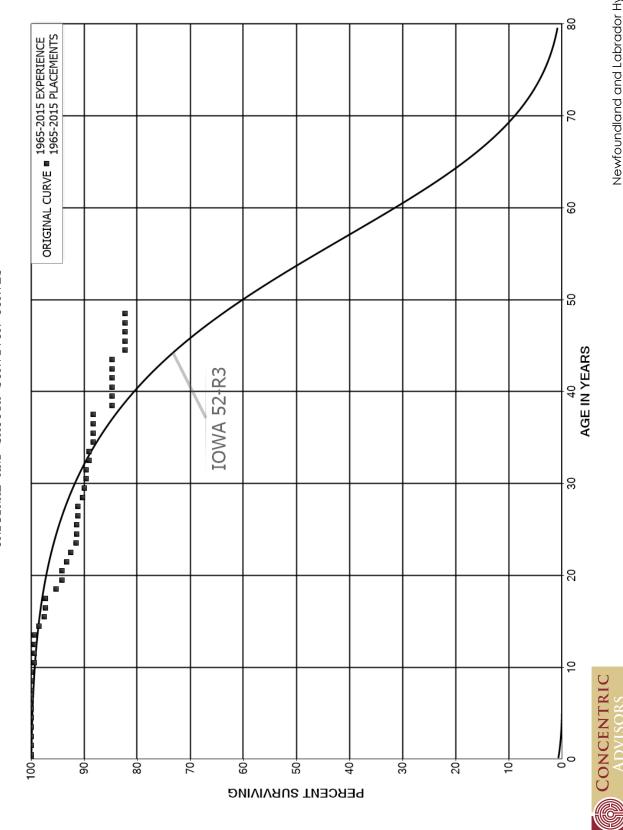
ACCOUNT F01 - FALL ARREST EQUIPMENT

BAND 2005-2015		EXPE	RIENCE BAN	D 1965-2015
EXPOSURES AT BEGINNING OF	RETIREMENTS DURING AGE	RETMT	SURV	PCT SURV BEGIN OF
AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
2,517,730		0.0000	1.0000	100.00
2,337,058		0.0000	1.0000	100.00
2,000,093		0.0000	1.0000	100.00
1,753,322	2,237	0.0013	0.9987	100.00
1,566,843		0.0000	1.0000	99.87
1,361,713		0.0000	1.0000	99.87
1,318,612		0.0000	1.0000	99.87
817 , 528	1,824	0.0022	0.9978	99.87
616,425	1,824	0.0030	0.9970	99.65
418,787	2,824	0.0067	0.9933	99.35
198,105		0.0000	1.0000	98.68
				98.68
	EXPOSURES AT BEGINNING OF AGE INTERVAL 2,517,730 2,337,058 2,000,093 1,753,322 1,566,843 1,361,713 1,318,612 817,528 616,425 418,787	EXPOSURES AT BEGINNING OF AGE INTERVAL 2,517,730 2,337,058 2,000,093 1,753,322 1,566,843 1,361,713 1,318,612 817,528 616,425 418,787 RETIREMENTS DURING AGE INTERVAL 2,237 1,424 1,524 1,824 1,824 1,824 2,824	EXPOSURES AT RETIREMENTS BEGINNING OF DURING AGE RETMT AGE INTERVAL INTERVAL RATIO 2,517,730 0.0000 2,337,058 0.0000 2,000,093 0.0000 1,753,322 2,237 0.0013 1,566,843 0.0000 1,361,713 0.0000 1,361,713 0.0000 1,318,612 0.0000 817,528 1,824 0.0022 616,425 1,824 0.0030 418,787 2,824 0.0067	EXPOSURES AT RETIREMENTS BEGINNING OF DURING AGE RETMT SURV AGE INTERVAL INTERVAL RATIO RATIO 2,517,730 0.0000 1.0000 2,337,058 0.0000 1.0000 2,000,093 0.0000 1.0000 1,753,322 2,237 0.0013 0.9987 1,566,843 0.0000 1.0000 1,361,713 0.0000 1.0000 1,318,612 0.0000 1.0000 817,528 1,824 0.0022 0.9978 616,425 1,824 0.0030 0.9970 418,787 2,824 0.0067 0.9933



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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F02 - FENCING ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F02 - FENCING

PLACEMENT H	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	7,961,463 7,022,742 6,652,096 6,541,634 6,244,965 5,431,072 5,429,160 5,171,316 5,112,854 5,112,854	1,912 2,071	0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0004 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9996 0.9996 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.96 99.93 99.93 99.93
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	5,107,400 4,965,283 4,932,835 3,916,965 3,866,679 3,666,545 3,576,253 3,524,231 3,391,217 3,263,809	26,114 36,546 37,467 8,160 70,232 37,468	0.0051 0.0000 0.0000 0.0000 0.0095 0.0102 0.0023 0.0000 0.0207 0.0115	0.9949 1.0000 1.0000 0.9905 0.9898 0.9977 1.0000 0.9793 0.9885	99.93 99.42 99.42 99.42 98.48 97.47 97.25 97.25
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	3,181,332 3,098,467 2,984,763 2,917,682 2,762,852 2,623,746 2,510,515 2,320,720 2,244,565 2,009,953	29,848 23,138 31,996 1,507 995 7,120 311 21,240 7,243	0.0000 0.0096 0.0078 0.0110 0.0005 0.0004 0.0028 0.0001 0.0095 0.0036	1.0000 0.9904 0.9922 0.9890 0.9995 0.9996 0.9972 0.9999 0.9905 0.9964	94.14 94.14 93.23 92.51 91.50 91.45 91.41 91.15 91.14
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,976,843 1,725,332 1,640,234 1,347,668 1,158,044 1,062,416 782,663 764,382 618,632 574,277	6,454 10,169 10,359 25,113	0.0033 0.0000 0.0062 0.0000 0.0089 0.0000 0.0000 0.0000 0.0406 0.0000	0.9967 1.0000 0.9938 1.0000 0.9911 1.0000 1.0000 1.0000 0.9594 1.0000	89.95 89.66 89.66 89.10 89.10 88.31 88.31 88.31 88.31



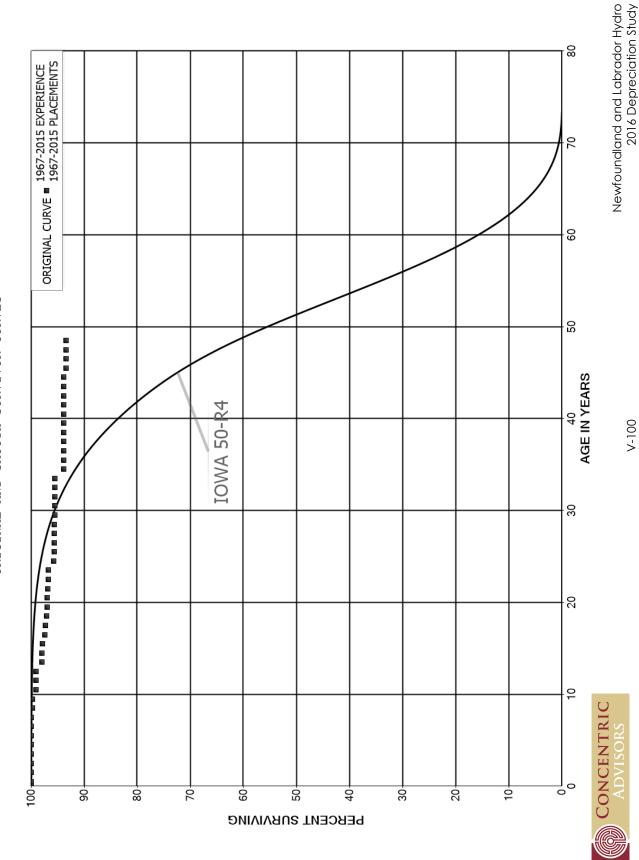
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F02 - FENCING

PLACEMENT BAND 1965-2015 EXPERIENCE BAND 1965-2					D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	514,981 503,692 451,743 427,075 361,336 337,611 220,329 154,156 95,308	10,413	0.0000 0.0000 0.0000 0.0000 0.0288 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9712 1.0000 1.0000 1.0000	84.72 84.72 84.72 84.72 84.72 82.28 82.28 82.28 82.28



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F03 - FIRE FIGHTING EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F03 - FIRE FIGHTING EQUIPMENT

PLACEMENT	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	15,017,245 11,895,429 10,944,270 10,386,193 9,799,981 9,589,416 9,585,000 7,447,725 7,209,032 7,196,595	7,480 12,437	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0008 0.0000 0.0017 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9992 1.0000 0.9983 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.92 99.92 99.75
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	7,196,595 7,095,680 7,095,680 6,437,931 5,736,420 5,517,383 5,508,466 5,390,836 5,319,903 5,123,461	45,673 72,271 2,972 8,917 23,592 2,414 16,189 6,509	0.0063 0.0000 0.0000 0.0112 0.0005 0.0016 0.0043 0.0004 0.0030 0.0013	0.9937 1.0000 1.0000 0.9888 0.9995 0.9984 0.9957 0.9996 0.9970	99.75 99.12 99.12 99.12 98.00 97.95 97.79 97.38 97.33 97.04
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,116,952 5,092,231 5,087,540 5,084,271 4,935,098 4,880,179 4,813,682 4,050,609 3,833,130 3,736,336	203 4,691 3,269 92 54,919 2,170 406	0.0000 0.0009 0.0006 0.0000 0.0111 0.0004 0.0001 0.0000 0.0000	1.0000 0.9991 0.9994 1.0000 0.9889 0.9996 0.9999 1.0000 1.0000	96.91 96.91 96.82 96.76 95.68 95.64 95.63 95.63
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	3,578,679 3,392,687 2,808,935 2,714,260 2,307,362 2,257,774 1,536,580 1,421,399 1,229,262 1,200,404	40,186	0.0000 0.0000 0.0000 0.0000 0.0174 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9826 1.0000 1.0000 1.0000 1.0000	95.51 95.51 95.51 95.51 95.51 93.84 93.84 93.84 93.84



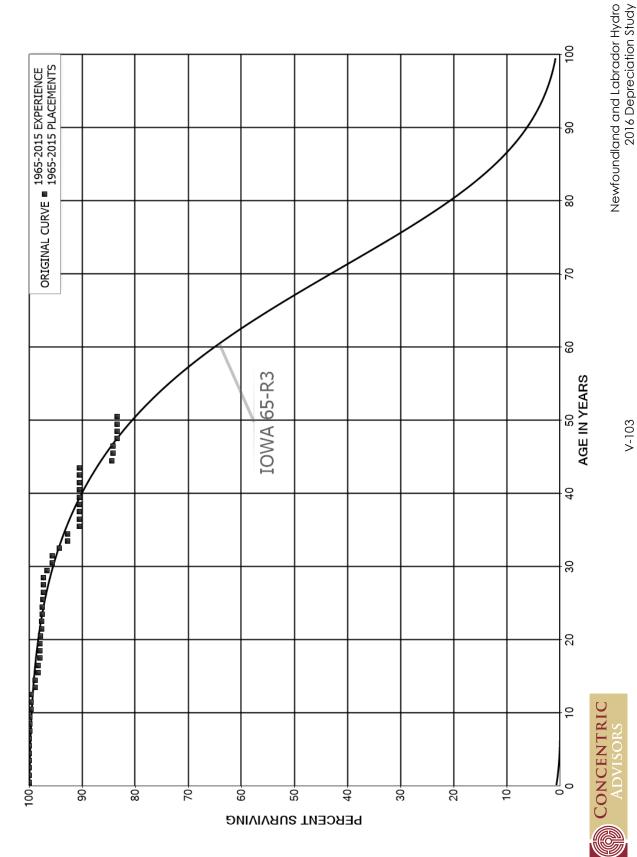
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F03 - FIRE FIGHTING EQUIPMENT

PLACEMENT BAND 1967-2015 EXP				RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	1,142,056 1,132,055 1,132,055 1,110,366 1,110,366 828,411 815,131 713,899 597,273	4,076	0.0000 0.0000 0.0000 0.0000 0.0000 0.0049 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9951 1.0000 1.0000	93.84 93.84 93.84 93.84 93.84 93.38 93.38 93.38



ACCOUNT F04 - FOOTINGS AND FOUNDATIONS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F04 - FOOTINGS AND FOUNDATIONS

PLACEMENT	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	21,754,410 18,902,176 18,221,916 18,221,916 18,199,235 18,158,647 18,158,647 18,158,647 18,102,476 18,102,476	26 , 848 291	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0015 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9985 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.85 99.85
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	18,102,185 18,065,559 18,055,845 17,010,811 14,244,637 14,210,780 14,098,878 14,033,306 13,872,129 13,872,129	36,626 100 140,699 81,410 47,046 1,380	0.0020 0.0000 0.0000 0.0083 0.0000 0.0057 0.0000 0.0034 0.0000 0.0001	0.9980 1.0000 1.0000 0.9917 1.0000 0.9943 1.0000 0.9966 1.0000 0.9999	99.85 99.65 99.65 99.65 98.82 98.26 98.26 97.93 97.93
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	13,721,794 13,242,979 13,213,028 13,118,028 12,486,548 11,462,453 10,137,769 9,792,032 9,669,954 9,306,278	11,757 24,525 10,261 4,866 11,384 12,531 4,864 6,265	0.0009 0.0019 0.0008 0.0004 0.0009 0.0011 0.0005 0.0006 0.0000	0.9991 0.9981 0.9992 0.9996 0.9991 0.9989 0.9995 0.9994 1.0000 0.9932	97.92 97.83 97.65 97.58 97.54 97.45 97.35 97.30 97.24
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	9,195,697 9,082,596 9,065,633 8,181,919 7,572,102 7,272,645 6,560,246 6,225,772 5,118,947 3,852,682	87,255 9,145 117,521 137,940 172,290 331 241	0.0095 0.0010 0.0130 0.0169 0.0000 0.0237 0.0001 0.0000 0.0000	0.9905 0.9990 0.9870 0.9831 1.0000 0.9763 0.9999 1.0000 1.0000	96.58 95.66 95.57 94.33 92.74 92.74 90.54 90.54 90.53



NEWFOUNDLAND AND LABRADOR HYDRO

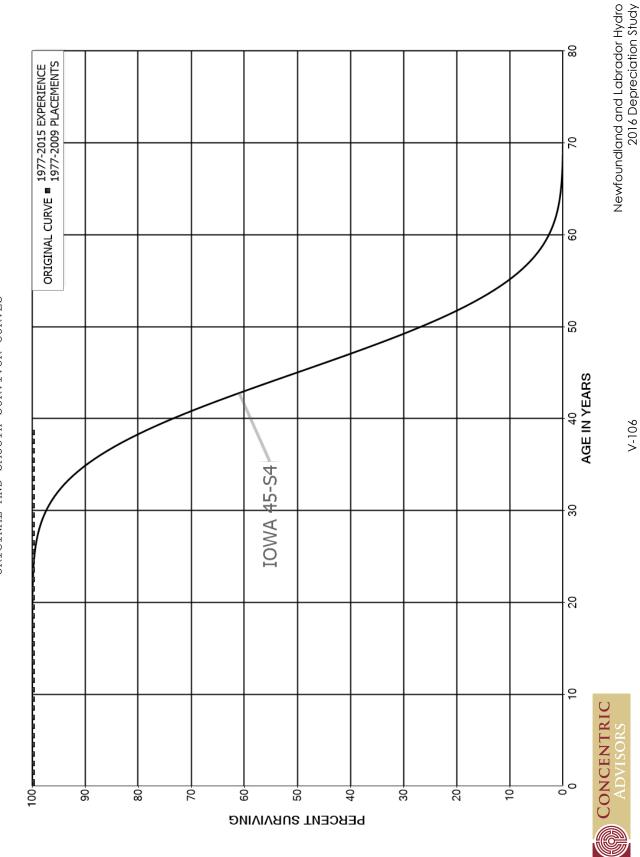
ACCOUNT F04 - FOOTINGS AND FOUNDATIONS

PLACEMENT BAND 1965-2015 EXPERIENCE BAND 1				D 1965-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	3,739,616 3,631,175 3,562,891 3,548,308 3,548,308 3,307,629 2,808,082 2,808,082 1,890,964 167,301	240,679 9,345 26,026	0.0000 0.0000 0.0000 0.0000 0.0678 0.0028 0.0000 0.0093 0.0000	1.0000 1.0000 1.0000 0.9322 0.9972 1.0000 0.9907 1.0000	90.53 90.53 90.53 90.53 90.53 84.39 84.15 84.15 83.37
49.5 50.5	167,301		0.0000	1.0000	83.37 83.37



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ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT F05 - FREQUENCY CONVERSION NEWFOUNDLAND AND LABRADOR HYDRO



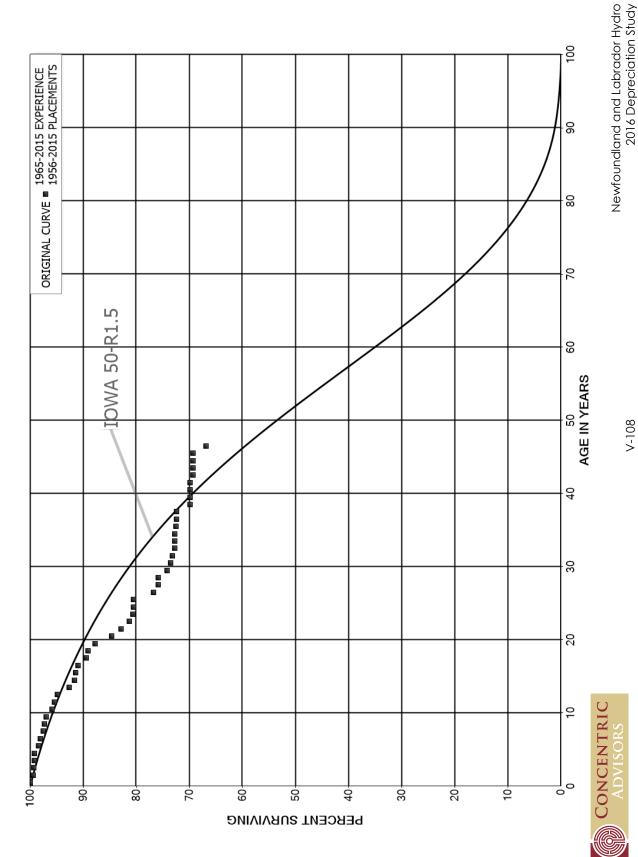
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F05 - FREQUENCY CONVERSION

PLACEMENT I	BAND 1977-2009		EXPER	RIENCE BAN	D 1977-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,453,577 2,453,577 2,453,577 2,453,577 2,453,577 2,453,577 2,453,577 1,694,970 1,666,961		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,666,961 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259 1,619,259		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,619,259 1,619,259 1,619,259 1,619,259 1,607,215 1,607,215 1,607,215 1,607,215		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F06 - FUEL SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F06 - FUEL SYSTEMS

PLACEMENT	BAND 1956-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	46,436,130 37,579,279 35,743,238 33,302,159 29,303,216 27,562,051 24,463,713 22,071,903 20,827,974 20,030,715	244,046 25,840 30,932 16,568 197,053 82,926 119,683 50,544 86,687	0.0000 0.0065 0.0007 0.0009 0.0006 0.0071 0.0034 0.0054 0.0024	1.0000 0.9935 0.9993 0.9991 0.9994 0.9929 0.9966 0.9946 0.9976	100.00 100.00 99.35 99.28 99.19 99.13 98.42 98.09 97.56 97.32
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	19,398,058 18,409,008 18,325,510 17,941,686 17,080,407 15,448,635 15,181,320 14,692,087 14,356,823 14,219,187	208,578 83,498 113,661 424,782 187,859 22,641 78,987 251,530 47,942 217,848	0.0108 0.0045 0.0062 0.0237 0.0110 0.0015 0.0052 0.0171 0.0033 0.0153	0.9892 0.9955 0.9938 0.9763 0.9890 0.9985 0.9948 0.9829 0.9967 0.9847	96.90 95.86 95.42 94.83 92.58 91.57 91.43 90.96 89.40 89.10
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	13,597,437 12,851,694 12,213,145 11,650,530 10,843,133 10,391,654 9,618,285 8,879,299 8,768,843 8,306,579	484,629 267,371 223,790 109,204 4,557 456,005 96,528 2,100 180,152	0.0356 0.0208 0.0183 0.0094 0.0004 0.0000 0.0474 0.0109 0.0002 0.0217	0.9644 0.9792 0.9817 0.9906 0.9996 1.0000 0.9526 0.9891 0.9998 0.9783	87.74 84.61 82.85 81.33 80.57 80.53 76.72 75.88 75.86
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	8,101,753 7,813,484 7,785,668 7,719,714 7,613,667 7,114,455 2,624,538 2,621,425 2,493,155 2,387,033	83,242 27,816 48,759 1,500 3,600 15,000 3,113 89,532	0.0103 0.0036 0.0063 0.0002 0.0005 0.0021 0.0012 0.0000 0.0359 0.0000	0.9897 0.9964 0.9937 0.9998 0.9995 0.9979 0.9988 1.0000 0.9641 1.0000	74.22 73.46 73.19 72.74 72.72 72.69 72.53 72.45 72.45 69.85



NEWFOUNDLAND AND LABRADOR HYDRO

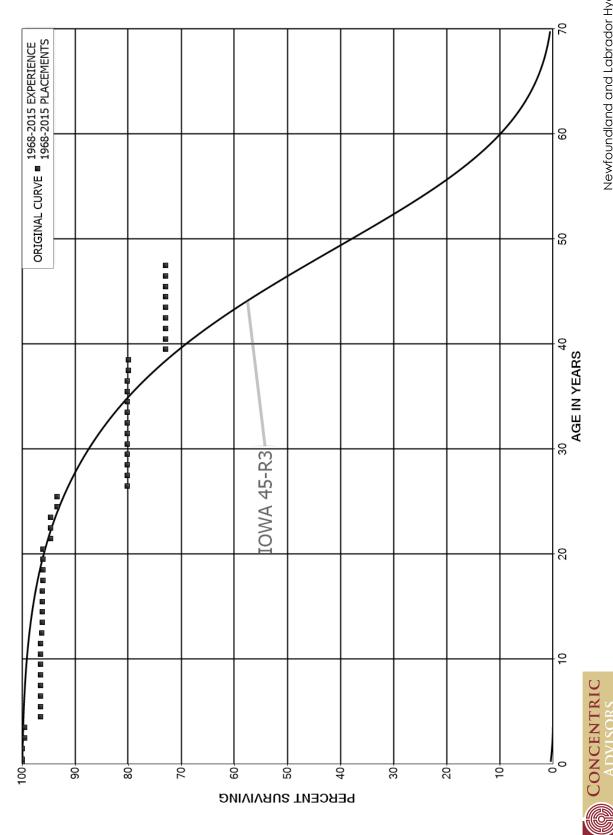
ACCOUNT F06 - FUEL SYSTEMS

PLACEMENT	BAND 1956-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	2,174,446 2,130,030 1,839,417 1,822,895 1,822,895 1,735,607 1,734,807 913,885 85,268	13,277 63,382	0.0000 0.0000 0.0072 0.0000 0.0000 0.0000 0.0365 0.0000 0.0000	1.0000 1.0000 0.9928 1.0000 1.0000 0.9635 1.0000 1.0000	69.84 69.84 69.34 69.34 69.34 69.34 66.81 66.81
49.5 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5	11,786 11,786 11,786 11,786 11,786 11,786 11,786 11,786 11,786		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	66.81 66.81 66.81 66.81 66.81 66.81 66.81 66.81
59.5					66.81



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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G01 - GAS TURBINE SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G01 - GAS TURBINE SYSTEMS

PLACEMENT E	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	74,754,391 43,459,283 41,367,811 33,371,915 32,995,571 31,761,027 30,492,331 30,362,697 30,362,697 30,331,597	185,109 1,011,679	0.0000 0.0000 0.0045 0.0000 0.0307 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9955 1.0000 0.9693 1.0000 1.0000 1.0000	100.00 100.00 100.00 99.55 99.55 96.50 96.50 96.50 96.50
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	30,331,597 30,331,597 30,331,597 30,274,452 30,226,068 30,164,230 30,164,230 30,153,001 30,134,611 29,586,371	57,145 48,384 2,141 18,390	0.0000 0.0000 0.0019 0.0016 0.0000 0.0001 0.0006 0.0000 0.0000	1.0000 1.0000 0.9981 0.9984 1.0000 1.0000 0.9999 0.9994 1.0000	96.50 96.50 96.50 96.32 96.16 96.16 96.16 96.10 96.10
19.5 20.5 21.5 22.5 23.5	29,586,371 29,586,371 29,127,286 29,127,286 16,056,519	459,085 203,409	0.0000 0.0155 0.0000 0.0000 0.0127	1.0000 0.9845 1.0000 1.0000 0.9873	96.10 96.10 94.61 94.61 94.61
24.5 25.5 26.5 27.5 28.5	15,853,110 15,853,110 13,526,225 13,526,225 13,501,580	2,243,280	0.0000 0.1415 0.0000 0.0000 0.0000	1.0000 0.8585 1.0000 1.0000	93.41 93.41 80.19 80.19 80.19
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5	13,501,580 13,501,580 13,501,580 13,501,580 13,501,580 13,290,970 13,290,970	30,595	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0023	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9977	80.19 80.19 80.19 80.19 80.19 80.19 80.19
37.5 38.5	13,260,375 12,876,356	1,144,769	0.0000 0.0889	1.0000 0.9111	80.01 80.01



NEWFOUNDLAND AND LABRADOR HYDRO

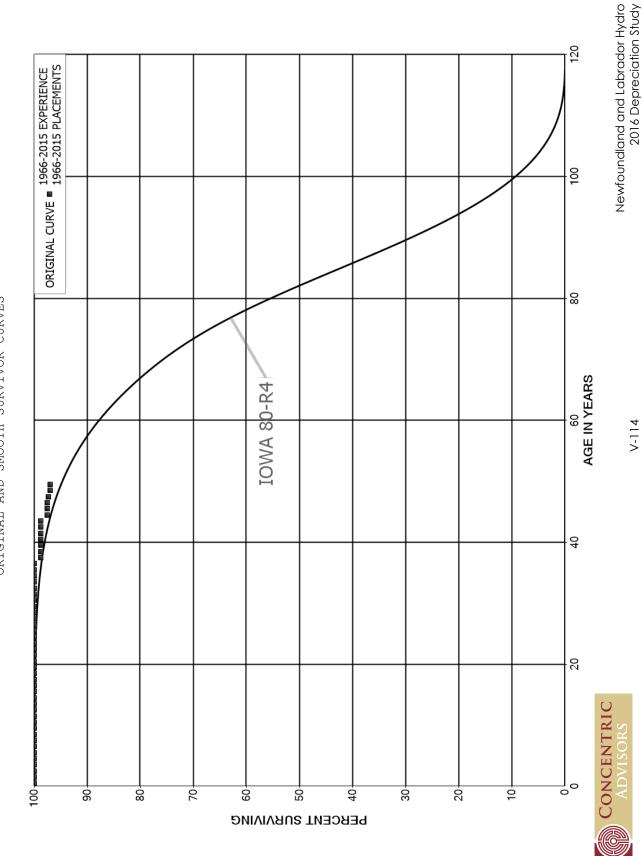
ACCOUNT G01 - GAS TURBINE SYSTEMS

PLACEMENT :	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5	11,731,587 5,699,814 995,759 995,759 995,759 995,759 995,759		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	72.89 72.89 72.89 72.89 72.89 72.89 72.89 72.89



V-114

ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G02 - GATES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G02 - GATES

PLACEMENT	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	19,165,290 17,747,770 17,426,122 15,500,388 15,468,388 15,468,388 15,468,388 15,468,388 15,468,388		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	15,468,388 15,468,388 15,029,276 15,029,276 15,019,776 15,019,776 15,019,776 15,019,776 15,019,776	9,500	0.0000 0.0000 0.0000 0.0006 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9994 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 99.94 99.94 99.94 99.94 99.94
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	15,019,776 15,019,776 15,019,776 15,019,776 15,019,776 15,019,776 15,019,776 14,839,446 13,824,563 13,824,563		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.94 99.94 99.94 99.94 99.94 99.94 99.94 99.94
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5	13,685,101 13,499,888 12,379,584 10,403,078 6,279,829 6,279,829 5,228,337 3,809,007 3,494,554 3,494,554	170 46,760	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0123 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9877 1.0000	99.94 99.94 99.94 99.94 99.94 99.94 99.94 98.71



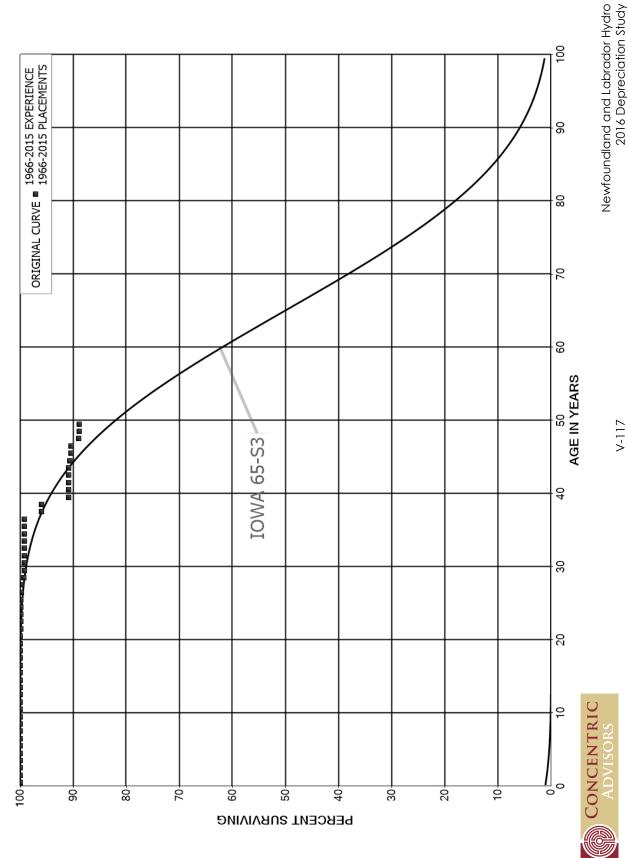
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G02 - GATES

PLACEMENT	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	3,494,554 3,494,554 3,494,554 3,494,554 3,494,554 3,452,554 3,055,727 3,054,510 3,049,102 1,987,063	42,000 425 1,218 5,408 10,366 910	0.0000 0.0000 0.0000 0.0000 0.0120 0.0001 0.0004 0.0018 0.0034 0.0005	1.0000 1.0000 1.0000 0.9880 0.9999 0.9996 0.9982 0.9966 0.9995	98.71 98.71 98.71 98.71 98.71 97.52 97.51 97.47 97.30 96.97
49.5					96.92



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G03 - GENERATORS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G03 - GENERATORS

PLACEMENT 1	BAND 1966-2015		EXPEF	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	111,858,702 79,442,981 72,374,115 69,234,533 67,267,295 66,812,388 64,860,626 64,625,861 62,337,507 62,309,499	4,146 0	0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9999 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 99.99 99.99 99.99 99.99
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	62,308,654 62,308,654 62,308,654 52,323,128 52,286,260 52,189,246 52,188,221 52,022,321 52,022,321 52,022,321	1,025 16,211	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9997	99.99 99.99 99.99 99.99 99.99 99.99 99.99
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	52,006,109 52,006,109 51,941,131 51,933,202 46,839,338 46,839,338 46,666,228 45,412,789 45,335,797 45,120,595	64,978 7,928 52,026 214,354 43,627	0.0000 0.0012 0.0002 0.0000 0.0000 0.0000 0.0011 0.0000 0.0047 0.0010	1.0000 0.9988 0.9998 1.0000 1.0000 0.9989 1.0000 0.9953 0.9990	99.96 99.83 99.82 99.82 99.82 99.82 99.71 99.71
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	45,076,969 35,850,861 35,850,861 35,673,506 30,001,748 29,998,786 17,961,479 17,175,463 16,349,838 13,164,067	1,839 2,961 554,625 698,546	0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0323 0.0000 0.0531	1.0000 1.0000 1.0000 1.0000 0.9999 1.0000 1.0000 0.9677 1.0000 0.9469	99.14 99.14 99.14 99.14 99.13 99.13 99.13 99.13 95.93



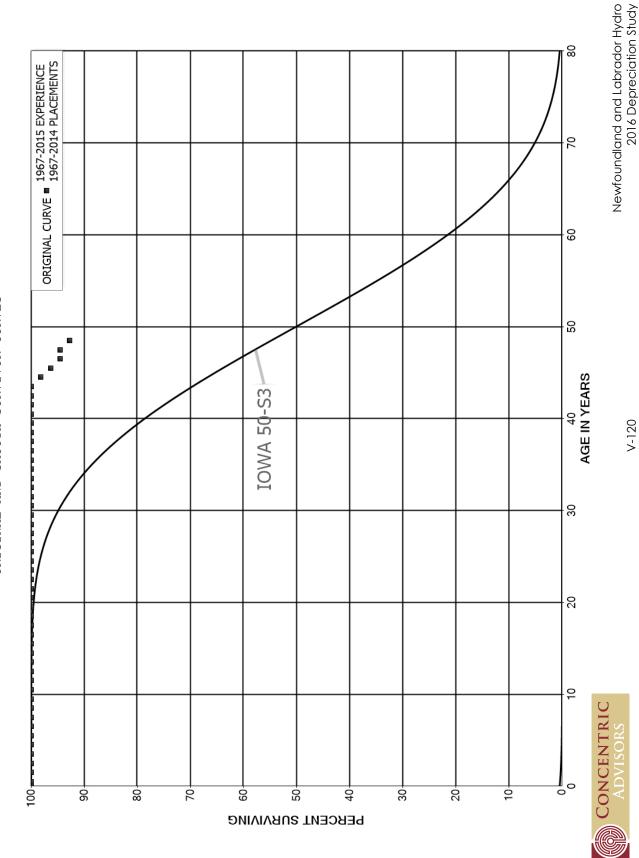
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G03 - GENERATORS

PLACEMENT 1	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	12,465,521 12,465,521 12,465,521 12,465,521 12,465,521 10,845,051 7,376,884 7,376,884 1,723,534 18,140	32,540 20,889 124,689 734	0.0000 0.0000 0.0000 0.0000 0.0026 0.0019 0.0000 0.0169 0.0004 0.0000	1.0000 1.0000 1.0000 1.0000 0.9974 0.9981 1.0000 0.9831 0.9996 1.0000	90.84 90.84 90.84 90.84 90.60 90.42 90.42 88.90 88.86
49.5					88.86



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G04 - GENERATORS - WINDINGS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G04 - GENERATORS - WINDINGS

PLACEMENT H	BAND 1967-2014		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	25,122,055 25,122,055 22,989,529 15,242,801 11,360,350 11,360,350 6,924,795 6,924,795 6,924,795 6,924,795		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,924,795		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



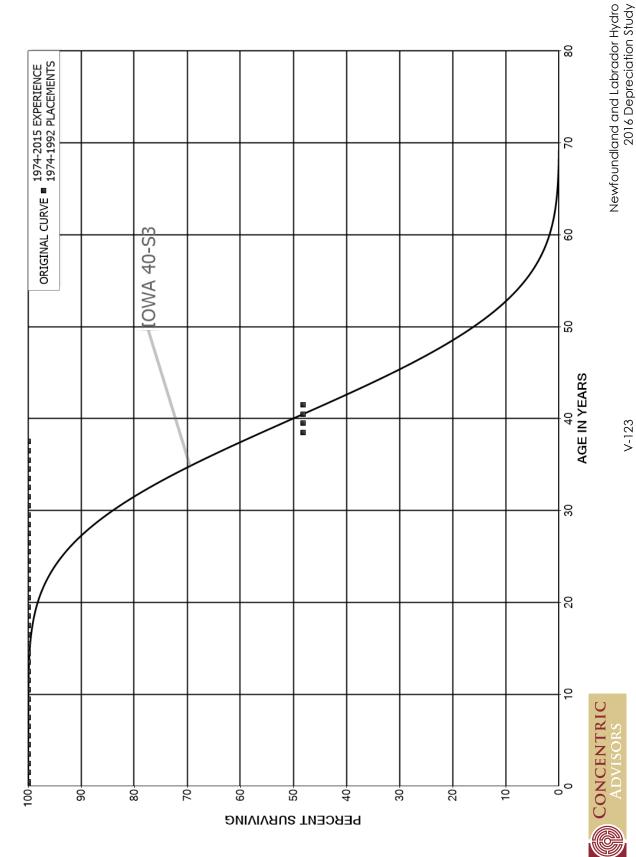
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G04 - GENERATORS - WINDINGS

PLACEMENT BAND 1967-2014 EXPERIENCE BAND :				D 1967-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	6,924,795 6,924,795 6,924,795 6,924,795 6,924,795 6,797,971 6,671,146 6,544,322 6,544,322	126,824 126,824 126,824 126,824	0.0000 0.0000 0.0000 0.0000 0.0183 0.0187 0.0190 0.0000 0.0194	1.0000 1.0000 1.0000 1.0000 0.9817 0.9813 0.9810 1.0000 0.9806	100.00 100.00 100.00 100.00 100.00 98.17 96.34 94.51 94.51



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G05 - GLYCOL SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G05 - GLYCOL SYSTEMS

PLACEMENT E	BAND 1974-1992		EXPER	RIENCE BAN	D 1974-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	620,704 620,704 620,704 620,704 620,704 620,704 620,704 620,704 620,704		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	620,704 620,704 620,704 620,704 620,704 620,704 620,704 620,704 620,704		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	620,704 620,704 620,704 620,704 183,019 183,019 173,749 173,749		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	173,749 173,749 173,749 173,749 173,749 173,749 173,749 173,749 173,749 83,699	90,050	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.5183 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.4817 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 48.17



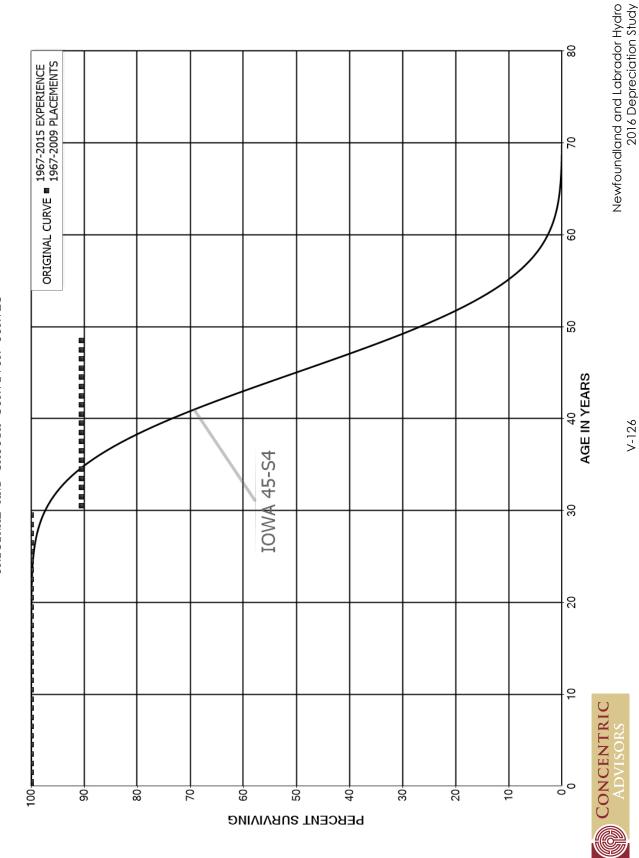
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G05 - GLYCOL SYSTEMS

PLACEMENT	BAND 1974-1992		EXPE	RIENCE BAN	ID 1974-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5	83,699 83,699		0.0000	1.0000	48.17 48.17 48.17



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G06 - GOVENORS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G06 - GOVENORS

PLACEMENT I	BAND 1967-2009		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	10,471,294 10,471,294 10,471,294 10,471,294 10,471,294 10,471,294 10,471,294 9,176,079 9,176,079 9,176,079		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	8,263,566 8,263,566 8,263,566 6,637,157 6,042,522 6,042,522 6,042,522 5,119,741 5,119,741		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,108,302 5,108,302 5,108,302 5,108,302 5,108,302 5,108,302 5,108,302 5,108,302 5,108,302 5,108,302		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,108,302 3,199,933 3,199,933 3,199,933 894,084 424,738 424,738 424,738 281,513	486,252	0.0952 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9048 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 90.48 90.48 90.48 90.48 90.48 90.48 90.48 90.48



NEWFOUNDLAND AND LABRADOR HYDRO

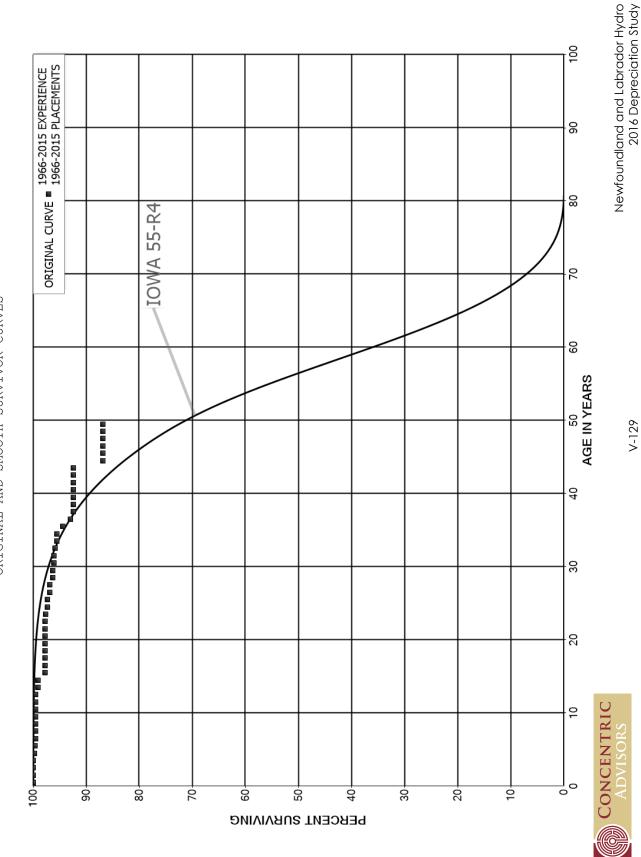
ACCOUNT G06 - GOVENORS

PLACEMENT BAND 1967-2009 EXPERIENCE BAND 1					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	281,513 281,513 281,513 281,513 281,513 203,784 139,962 139,962 62,233		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	90.48 90.48 90.48 90.48 90.48 90.48 90.48 90.48



V-129

ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT G07 - GROUND WIRE SYSTEM NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G07 - GROUND WIRE SYSTEM

PLACEMENT I	BAND 1966-2015		EXPEF	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	10,655,699 10,087,501 9,546,185 8,903,324 8,158,963 7,858,588 7,588,514 7,402,576 6,346,757 6,346,757	2,405 23,099 2,351 11,099 2,960	0.0000 0.0000 0.0000 0.0003 0.0028 0.0003 0.0015 0.0004 0.0000	1.0000 1.0000 1.0000 0.9997 0.9972 0.9997 0.9985 0.9996 1.0000	100.00 100.00 100.00 100.00 99.97 99.69 99.66 99.51 99.47
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	6,276,529 6,256,087 6,246,646 5,838,094 5,753,109 5,399,745 5,217,387 5,217,336 5,188,571 5,160,918	510 21,116 73,158 51 806	0.0001 0.0000 0.0000 0.0036 0.0000 0.0135 0.0000 0.0002 0.0000	0.9999 1.0000 1.0000 0.9964 1.0000 0.9865 1.0000 0.9998 1.0000	99.47 99.47 99.47 99.47 99.11 99.11 97.76 97.76 97.75
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,018,364 4,602,965 4,597,352 4,586,032 4,364,218 3,830,834 3,361,807 3,061,231 3,017,215 2,856,723	6,802 12,497 230 17,549 16,470	0.0000 0.0000 0.0000 0.0015 0.0029 0.0001 0.0052 0.0000 0.0055 0.0001	1.0000 1.0000 1.0000 0.9985 0.9971 0.9999 0.9948 1.0000 0.9945 0.9999	97.75 97.75 97.75 97.75 97.60 97.32 97.32 96.81 96.81 96.28
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,826,921 2,364,792 2,364,019 2,007,180 1,653,358 1,580,951 1,192,468 1,098,806 854,782 810,716	6,426 773 4,607 6,833 281 19,030 17,206 6,546	0.0023 0.0003 0.0019 0.0034 0.0002 0.0120 0.0144 0.0060 0.0000	0.9977 0.9997 0.9981 0.9966 0.9998 0.9880 0.9856 0.9940 1.0000	96.27 96.06 96.02 95.84 95.51 95.49 94.35 92.98 92.43 92.43



NEWFOUNDLAND AND LABRADOR HYDRO

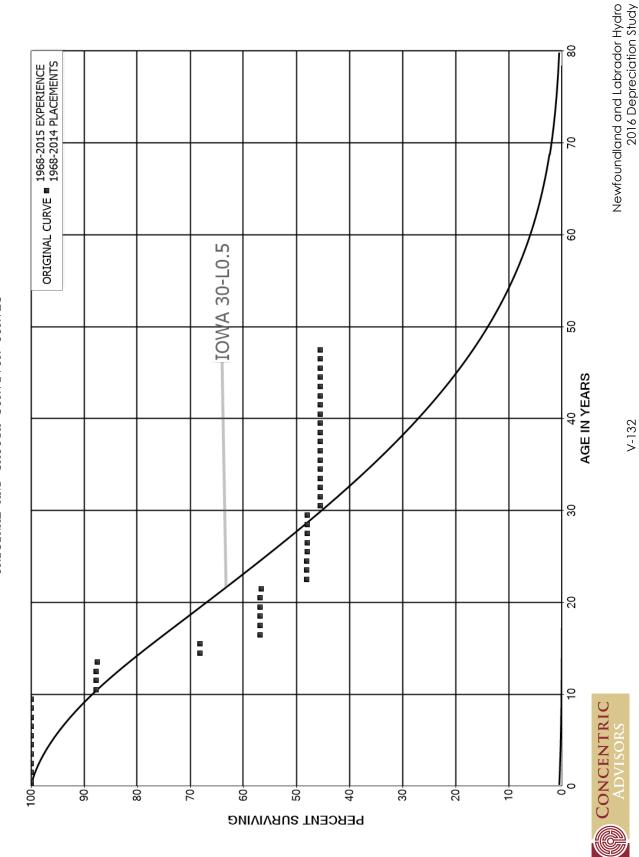
ACCOUNT G07 - GROUND WIRE SYSTEM

PLACEMENT BAND 1966-2015 EXPERIENCE BANK				D 1966-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	806,093 758,178 536,557 536,557 536,557 451,178 278,958 278,958 184,040 2,824	23 20 32,306	0.0000 0.0000 0.0000 0.0000 0.0602 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9398 1.0000 1.0000 1.0000	92.43 92.43 92.43 92.43 92.43 86.86 86.86 86.86 86.86
49.5					86.86



V-132

- ECC ACCOUNT 102 - INFORMATION DELIVERY SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 102 - INFORMATION DELIVERY SYSTEM - ECC

PLACEMENT H	BAND 1968-2014		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	22,261,230 22,261,230 21,913,559 21,913,559 21,868,188 21,868,188 21,868,188 21,446,139 21,101,401 21,101,401	3,719	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9998 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.98 99.98 99.98
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	20,604,043 16,873,034 15,233,831 15,233,831 15,169,709 11,818,693 11,818,693 9,508,569 9,507,771 9,500,762	2,527,190 45,673 3,351,016 1,953,783 798 7,009	0.1227 0.0000 0.0000 0.0030 0.2209 0.0000 0.1653 0.0001 0.0007 0.0000	0.8773 1.0000 1.0000 0.9970 0.7791 1.0000 0.8347 0.9999 0.9993 1.0000	99.98 87.72 87.72 87.72 87.46 68.14 68.14 56.87 56.87 56.83
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	9,500,762 9,500,762 8,701,521 7,392,319 7,372,386 7,371,350 6,834,830 6,783,761 6,499,007 6,008,757	39,474 1,309,202 1,036 18,112	0.0000 0.0042 0.1505 0.0000 0.0001 0.0025 0.0000 0.0000 0.0000	1.0000 0.9958 0.8495 1.0000 0.9999 0.9975 1.0000 1.0000	56.83 56.83 56.59 48.08 48.07 47.95 47.95 47.95
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,008,757 5,699,263 5,699,263 5,699,263 5,699,263 3,391,604 3,366,271 3,366,271 3,366,271	309,494	0.0515 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9485 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	47.95 45.48 45.48 45.48 45.48 45.48 45.48 45.48 45.48



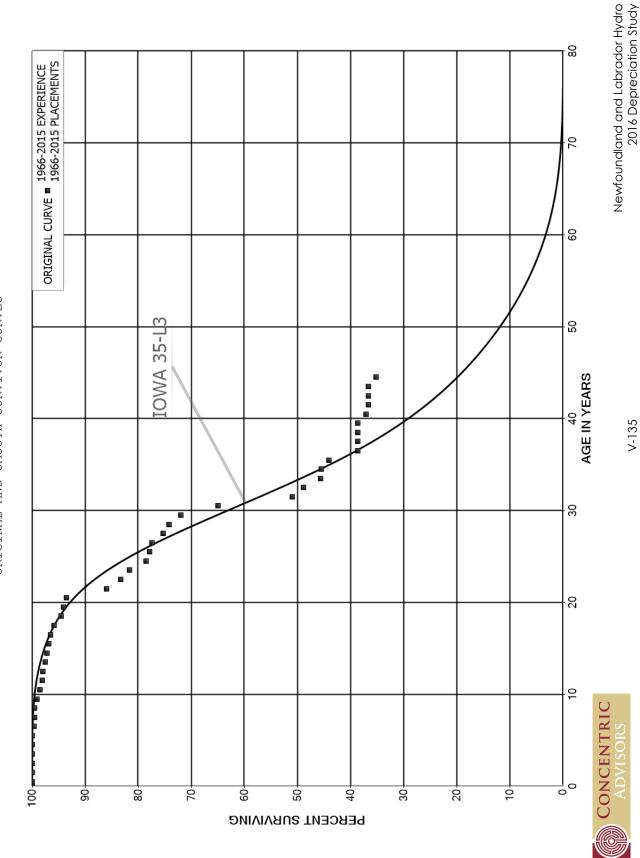
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 102 - INFORMATION DELIVERY SYSTEM - ECC

PLACEMENT BAND 1968-2014				RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	3,366,271 3,366,271 3,366,271 3,366,271 1,803,443 1,803,443		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	45.48 45.48 45.48 45.48 45.48 45.48 45.48 45.48



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT 103 - INSTRUMENTATION ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 103 - INSTRUMENTATION

PLACEMENT BA	ND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
BEGIN OF	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5	48,242,343 48,174,385 45,488,327 45,382,692 44,388,624 43,897,849 43,573,959 41,290,216	324 160,151 43,594	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0037 0.0011	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9963 0.9989	100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.63
7.5 8.5	40,437,876 37,286,948	13,964 146,912	0.0003 0.0039	0.9997 0.9961	99.53 99.49
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5 19.5 20.5 21.5 22.5 23.5 24.5	35,815,777 35,252,361 32,314,895 30,452,396 28,313,477 27,554,054 23,559,738 22,472,689 21,592,182 20,397,103 18,514,891 16,639,757 14,330,008 12,691,805 11,665,780 9,525,743 6,237,944	230,244 161,496 21,157 151,853 77,779 102,287 66,360 160,058 305,202 95,844 116,445 1,340,429 448,710 258,205 439,868 75,091 38,748	0.0064 0.0046 0.0007 0.0050 0.0027 0.0037 0.0028 0.0071 0.0141 0.0047 0.0063 0.0806 0.0313 0.0203 0.0377 0.0079	0.9936 0.9954 0.9993 0.9950 0.9973 0.9963 0.9972 0.9929 0.9859 0.9953 0.9937 0.9194 0.9687 0.9797 0.9623 0.9921 0.9938	99.10 98.46 98.01 97.95 97.46 97.19 96.83 96.56 95.87 94.52 94.07 93.48 85.95 83.26 81.56 78.49 77.87
26.5 27.5 28.5	5,598,358 4,873,463 4,266,325	149,312 73,191 132,011	0.0267 0.0150 0.0309	0.9733 0.9850 0.9691	77.39 75.32 74.19
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	4,126,752 2,731,213 2,069,541 1,353,535 838,678 768,363 732,916 627,421 591,994 541,711	396,364 591,635 85,526 88,424 1,295 24,135 90,713	0.0960 0.2166 0.0413 0.0653 0.0015 0.0314 0.1238 0.0000 0.0000	0.9040 0.7834 0.9587 0.9347 0.9985 0.9686 0.8762 1.0000 1.0000	71.90 64.99 50.91 48.81 45.62 45.55 44.12 38.66 38.66



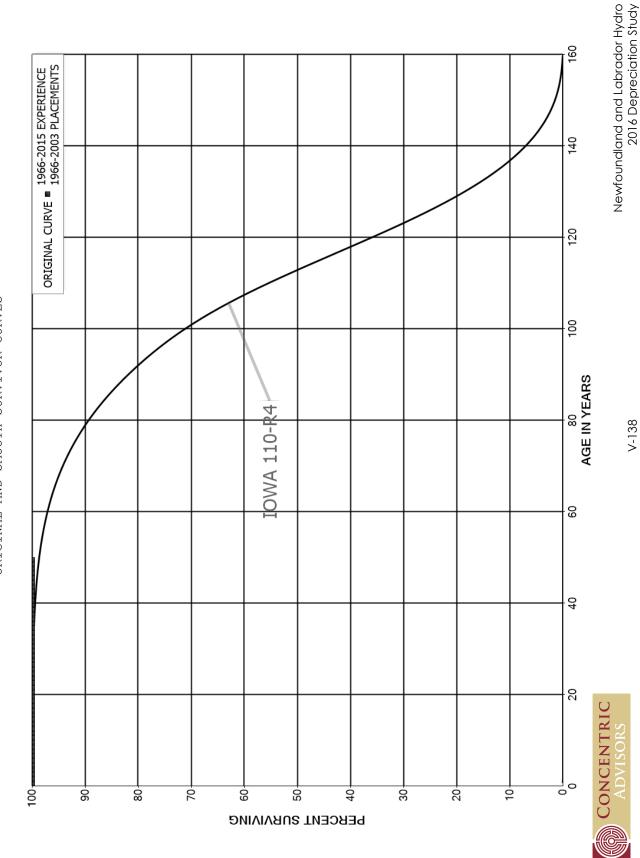
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 103 - INSTRUMENTATION

PLACEMENT BAND 1966-2015 EXPERIENCE BA				RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	529,369 506,864 489,114 489,114 487,870 469,783 373,407 323,008 88,701	21,991 5,271 1,243 18,088	0.0415 0.0104 0.0000 0.0025 0.0371 0.0000 0.0000 0.3718 0.0000	0.9585 0.9896 1.0000 0.9975 0.9629 1.0000 0.6282 1.0000	38.66 37.05 36.67 36.57 35.22 35.22 35.22 22.12



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT 104 - INSULATORS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 104 - INSULATORS

PLACEMENT	BAND 1966-2003		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	19,436,445 19,436,445 19,436,445 19,436,445 19,436,445 19,436,445 19,436,445 19,436,445		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	19,436,445 19,436,445 19,436,445 15,526,631 15,502,585 15,502,585 15,502,585 15,502,585 15,502,585		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	15,492,014 15,492,014 15,486,773 15,486,773 15,486,773 15,486,773 15,486,773 15,480,004 15,480,004		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	15,480,004 15,480,004 12,078,221 12,062,216 7,022,641 7,022,641 5,568,392 5,568,392 5,568,392		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO

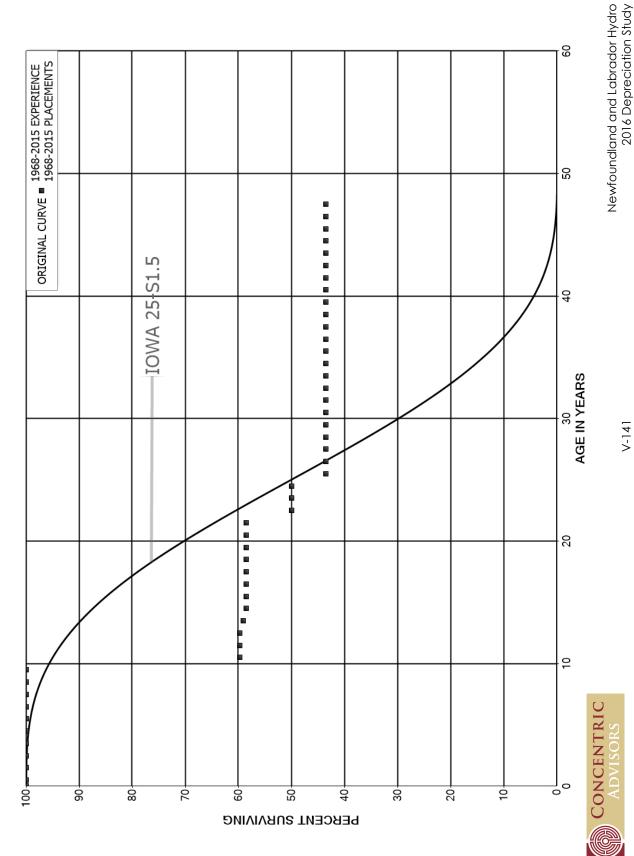
ACCOUNT 104 - INSULATORS

PLACEMENT 1	BAND 1966-2003		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	5,568,392 5,568,392 5,568,392 5,568,392 5,568,392 5,568,392 5,568,392 5,568,392 3,784,392		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
49.5					100.00



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ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT 105 - INTAKE STRUCTURES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 105 - INTAKE STRUCTURES

PLACEMENT E	BAND 1968-2015		EXPEF	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,046,068 996,264 990,621 990,621 985,656 985,656 985,656 985,656 974,645		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	958,372 570,437 570,437 570,437 564,119 447,339 416,460 416,460 416,460 416,460	385,595 6,319 5,824	0.4023 0.0000 0.0000 0.0111 0.0103 0.0000 0.0000 0.0000 0.0000	0.5977 1.0000 1.0000 0.9889 0.9897 1.0000 1.0000 1.0000	100.00 59.77 59.77 59.77 59.10 58.49 58.49 58.49 58.49 58.49
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	398,855 398,855 398,855 340,446 340,446 340,446 296,446 296,446 296,446	58,409 44,000	0.0000 0.0000 0.1464 0.0000 0.0000 0.1292 0.0000 0.0000 0.0000	1.0000 1.0000 0.8536 1.0000 1.0000 0.8708 1.0000 1.0000 1.0000	58.49 58.49 58.49 49.93 49.93 49.93 43.47 43.47 43.47
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	296,446 296,446 296,446 296,446 296,446 296,446 296,446 182,291 182,291		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	43.47 43.47 43.47 43.47 43.47 43.47 43.47 43.47 43.47



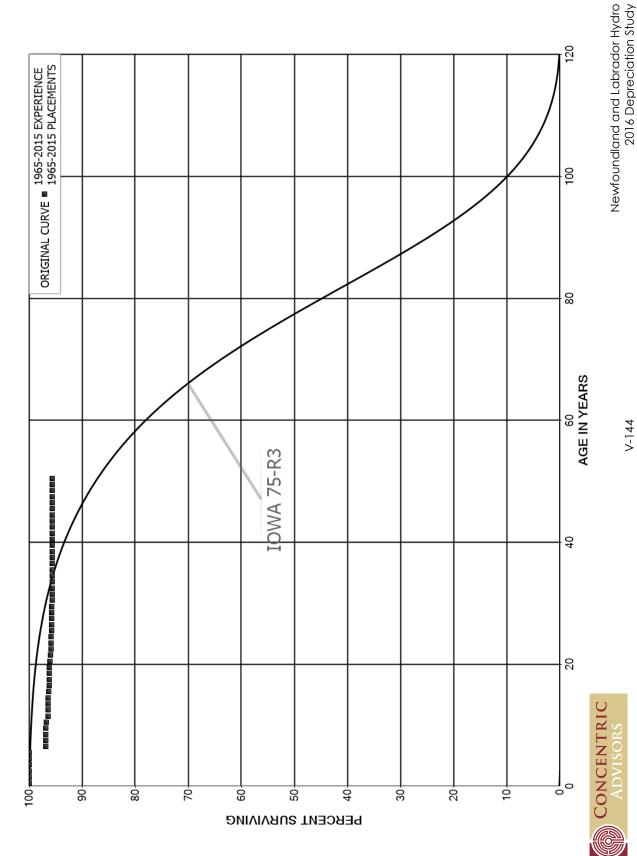
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 105 - INTAKE STRUCTURES

PLACEMENT	BAND 1968-2015		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	182,291 182,291 182,291 182,291 182,291 182,291 182,291		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	43.47 43.47 43.47 43.47 43.47 43.47 43.47 43.47



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT LO3 - LAND IMPROVEMENTS NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L03 - LAND IMPROVEMENTS

PLACEMENT	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	14,785,580 14,405,219 14,035,436 14,035,436 13,985,752 13,920,972 13,907,588 13,205,053 13,140,512 13,136,698	434,171 3,813	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0312 0.0000 0.0003	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9688 1.0000 0.9997 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 96.88 96.88 96.85
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	13,026,208 12,919,808 12,774,710 12,546,047 12,373,363 12,373,363 12,284,887 12,161,087 11,829,964 11,802,786	18,971 42,480 15,446 6,107 9,618 2,739	0.0015 0.0033 0.0000 0.0000 0.0000 0.0012 0.0005 0.0008 0.0002	0.9985 0.9967 1.0000 1.0000 0.9988 0.9995 0.9992 0.9998 1.0000	96.85 96.71 96.39 96.39 96.39 96.27 96.22 96.15 96.12
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	11,546,911 11,195,645 10,996,065 10,758,006 10,182,136 9,741,386 8,969,860 6,750,871 6,562,113 5,992,954	6,476 12,318 11,197 6,203 5,711	0.0006 0.0011 0.0010 0.0006 0.0000 0.0006 0.0000 0.0000 0.0000	0.9994 0.9989 0.9990 0.9994 1.0000 1.0000 1.0000 1.0000	96.12 96.07 95.96 95.87 95.81 95.76 95.76 95.76
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,907,424 5,647,615 5,550,842 5,290,586 4,774,341 4,502,387 3,449,183 3,412,057 2,634,287 2,242,772	7,420 350	0.0013 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9987 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9998	95.76 95.64 95.64 95.64 95.64 95.64 95.64 95.64



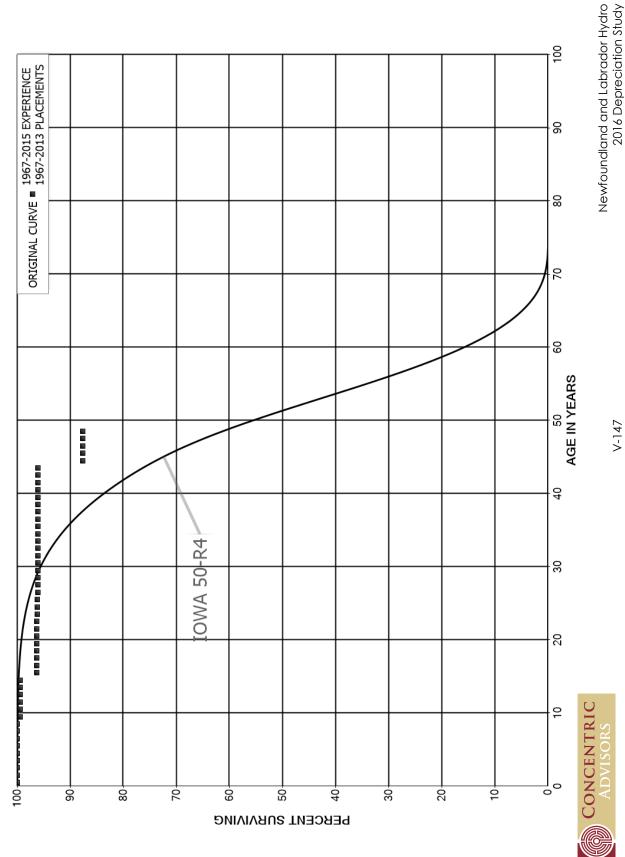
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L03 - LAND IMPROVEMENTS

PLACEMENT	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT	EXPOSURES AT	RETIREMENTS			PCT SURV
BEGIN OF	BEGINNING OF	DURING AGE	RETMT	SURV	BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
39.5	2,181,133		0.0000	1.0000	95.62
40.5	2,121,180		0.0000	1.0000	95.62
41.5	1,858,787		0.0000	1.0000	95.62
42.5	1,858,787		0.0000	1.0000	95.62
43.5	1,572,568		0.0000	1.0000	95.62
44.5	575 , 791		0.0000	1.0000	95.62
45.5	262,197		0.0000	1.0000	95.62
46.5	262,197		0.0000	1.0000	95.62
47.5	180,098		0.0000	1.0000	95.62
48.5	5,754		0.0000	1.0000	95.62
49.5	5,754		0.0000	1.0000	95.62
50.5					95.62



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT LO4 - LIGHTING SYSTEMS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L04 - LIGHTING SYSTEMS

PLACEMENT E	BAND 1967-2013		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	961,466 961,466 961,466 703,475 610,448 610,448 610,448 610,448	3,887	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9936	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	606,561 606,561 606,561 606,561 606,561 587,593 587,593 587,593 587,593	18,968	0.0000 0.0000 0.0000 0.0000 0.0000 0.0313 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9687 1.0000 1.0000 1.0000	99.36 99.36 99.36 99.36 99.36 99.36 96.26 96.26 96.26
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	587,593 587,593 587,593 587,593 584,606 565,775 530,168 511,596 501,759 462,437	251 548	0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0010 0.0000 0.0000	1.0000 1.0000 1.0000 0.9996 1.0000 1.0000 0.9990 1.0000 1.0000	96.26 96.26 96.26 96.26 96.21 96.21 96.21 96.12 96.12
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	456,580 453,017 453,017 442,026 408,180 398,291 372,390 288,819 220,924 190,964		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	96.12 96.12 96.12 96.12 96.12 96.12 96.12 96.12 96.12



NEWFOUNDLAND AND LABRADOR HYDRO

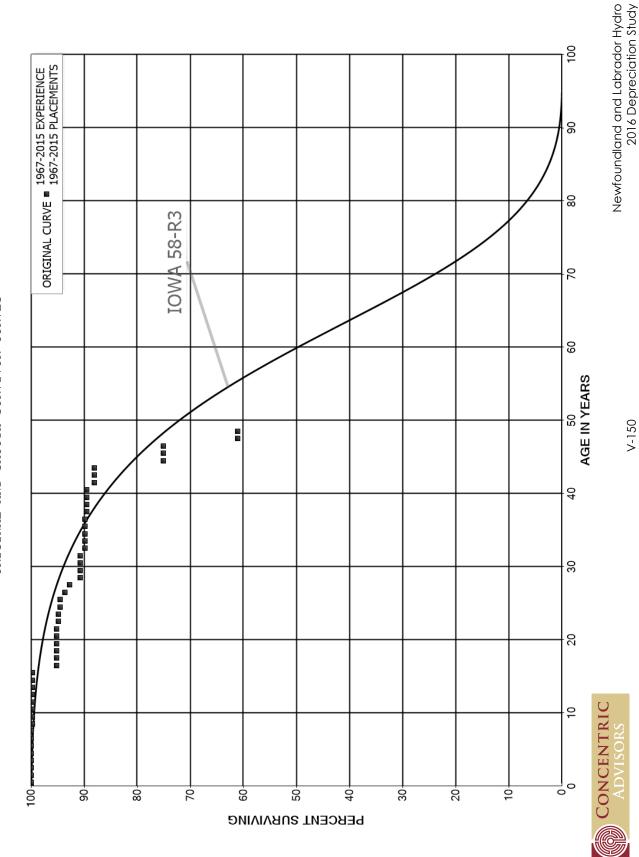
ACCOUNT L04 - LIGHTING SYSTEMS

PLACEMENT BAND 1967-2013 EXPERIENCE BAND 1				D 1967-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	186,557 146,805 130,187 130,187 130,187 90,452 47,965 47,965 45,238	11,509	0.0000 0.0000 0.0000 0.0000 0.0884 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9116 1.0000 1.0000 1.0000	96.12 96.12 96.12 96.12 96.12 87.62 87.62 87.62 87.62 87.62



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ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT LOS - LIGHTNING ARRESTORS NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L05 - LIGHTNING ARRESTORS

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	6,294,940 5,967,202 5,876,747 5,859,055 5,772,890 5,715,551 5,692,652 5,612,650 5,560,060 5,538,693	6,388 314 8,235	0.0010 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0015	0.9990 0.9999 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9985 1.0000	100.00 99.90 99.89 99.89 99.89 99.89 99.89 99.89 99.75
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	5,448,583 5,368,864 5,357,424 5,357,424 5,357,424 301,716 287,769 287,769 287,769	13,947	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0462 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9538 1.0000 1.0000	99.75 99.75 99.75 99.75 99.75 99.75 99.75 95.13 95.13
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	285,304 285,304 282,713 281,769 281,769 280,877 280,877 277,708 274,358 268,310	944 892 2,829 2,538 5,754	0.0000 0.0000 0.0033 0.0000 0.0032 0.0000 0.0101 0.0091 0.0210 0.0000	1.0000 1.0000 0.9967 1.0000 0.9968 1.0000 0.9899 0.9909 0.9790	95.13 95.13 95.13 94.82 94.82 94.52 94.52 93.56 92.71 90.76
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	262,608 262,608 262,608 259,916 234,230 232,163 231,873 231,873 211,893 211,828	2,692 755	0.0000 0.0000 0.0103 0.0000 0.0000 0.0000 0.0000 0.0033 0.0000 0.0000	1.0000 1.0000 0.9897 1.0000 1.0000 1.0000 0.9967 1.0000 1.0000	90.76 90.76 90.76 89.83 89.83 89.83 89.83 89.83 89.83 89.84



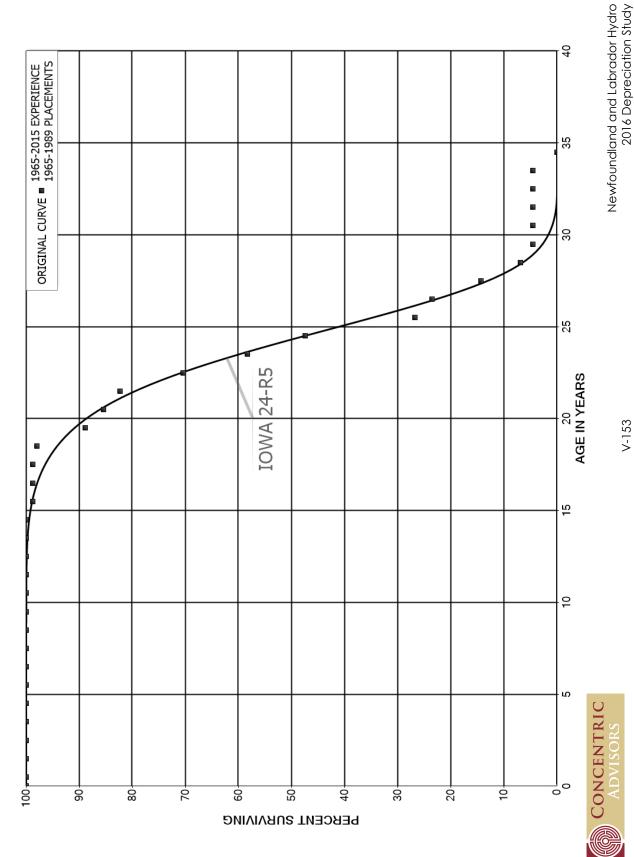
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L05 - LIGHTNING ARRESTORS

PLACEMENT BAND 1967-2015			EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5	211,828 211,828 208,357 208,357 208,357 177,602	3,471 30,755	0.0000 0.0164 0.0000 0.0000 0.1476 0.0000	1.0000 0.9836 1.0000 1.0000 0.8524 1.0000	89.54 89.54 88.07 88.07 88.07 75.07
45.5 46.5 47.5 48.5	116,585 116,585 44,408	21,815	0.0000 0.1871 0.0000	1.0000 0.8129 1.0000	75.07 75.07 61.03 61.03



ACCOUNT LO6 - LINE COUPLING EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



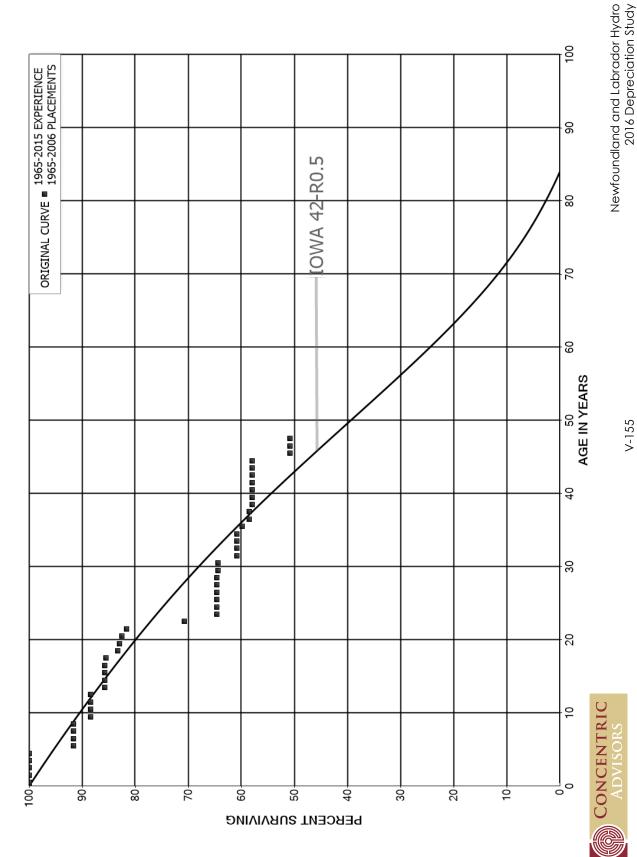
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT LO6 - LINE COUPLING EQUIPMENT

PLACEMENT I	BAND 1965-1989		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	283,845 283,845 283,845 283,845 283,845 283,845 283,845 283,845 283,845		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	283,845 283,845 283,845 283,845 283,845 283,845 280,345 280,345 280,345 278,057	3,500 2,288 25,956	0.0000 0.0000 0.0000 0.0000 0.0000 0.0123 0.0000 0.0000 0.0082 0.0933	1.0000 1.0000 1.0000 1.0000 0.9877 1.0000 1.0000 0.9918 0.9067	100.00 100.00 100.00 100.00 100.00 100.00 98.77 98.77 98.77 97.96
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	252,101 242,488 233,647 199,747 165,546 134,414 75,945 66,654 40,527 19,254	9,613 8,841 33,900 34,202 31,132 58,470 9,291 26,127 21,273 6,528	0.0381 0.0365 0.1451 0.1712 0.1881 0.4350 0.1223 0.3920 0.5249 0.3391	0.9619 0.9635 0.8549 0.8288 0.8119 0.5650 0.8777 0.6080 0.4751 0.6609	88.82 85.43 82.32 70.37 58.32 47.35 26.76 23.48 14.28 6.78
29.5 30.5 31.5 32.5 33.5 34.5	12,726 12,726 1,500 1,500 1,500	1,500	0.0000 0.0000 0.0000 0.0000 1.0000	1.0000 1.0000 1.0000 1.0000	4.48 4.48 4.48 4.48



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M01 - MAIN BREAKERS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M01 - MAIN BREAKERS

PLACEMENT H	BAND 1965-2006		EXPEF	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	736,754 736,754 736,754 736,754 736,754 736,754 674,622 674,622 674,622 674,622	62 , 132 23 , 698	0.0000 0.0000 0.0000 0.0000 0.0000 0.0843 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9157 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 91.57 91.57 91.57
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	531,730 531,730 503,834 411,286 399,286 351,328 351,328 351,328 351,328 326,517 313,682	12,000 1,200 8,319 1,200	0.0000 0.0000 0.0000 0.0292 0.0000 0.0000 0.0000 0.0034 0.0255 0.0038	1.0000 1.0000 1.0000 0.9708 1.0000 1.0000 0.9966 0.9745 0.9962	88.35 88.35 88.35 88.35 85.77 85.77 85.77 85.77 85.48 83.30
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	216,280 215,080 212,680 184,367 168,515 163,837 163,837 163,837 163,837	1,200 2,400 28,313 15,852	0.0055 0.0112 0.1331 0.0860 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9945 0.9888 0.8669 0.9140 1.0000 1.0000 1.0000 1.0000 0.9951	82.98 82.52 81.60 70.74 64.66 64.66 64.66 64.66 64.66
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	148,265 148,265 140,104 126,104 126,104 126,104 109,962 107,562 107,562 106,362	1,941 2,400 1,200	0.0000 0.0550 0.0000 0.0000 0.0000 0.0154 0.0218 0.0000 0.0112	1.0000 0.9450 1.0000 1.0000 1.0000 0.9846 0.9782 1.0000 0.9888 1.0000	64.34 64.34 60.80 60.80 60.80 59.86 58.56 58.56



NEWFOUNDLAND AND LABRADOR HYDRO

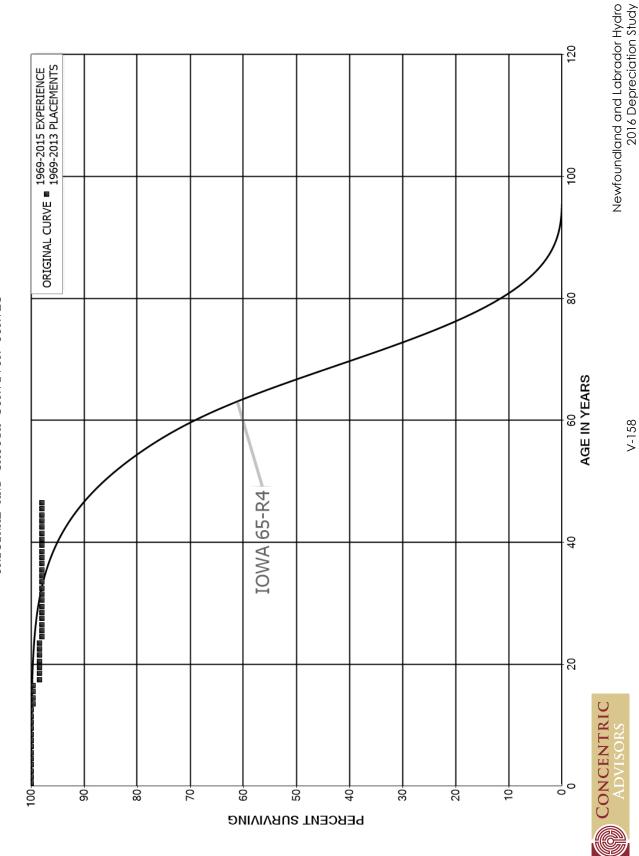
ACCOUNT M01 - MAIN BREAKERS

PLACEMENT	BAND 1965-2006		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	106,362 106,362 106,362 106,362 106,362 106,362 87,097	13,000	0.0000 0.0000 0.0000 0.0000 0.0000 0.1222 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.8778 1.0000	57.90 57.90 57.90 57.90 57.90 57.90 50.83 50.83



V-158

ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO2 - MARINE TERMINAL



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M02 - MARINE TERMINAL

PLACEMENT F	BAND 1969-2013		EXPER	RIENCE BAN	D 1969-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	4,370,678 4,370,678 4,370,678 3,513,142 3,513,142 3,513,142 3,513,142 3,391,551 3,391,551		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,391,551 3,391,551 3,391,551 3,391,551 3,379,359 3,379,359 3,379,359 3,378,245 3,338,336 3,338,336	12,192 1,114 39,909	0.0000 0.0000 0.0000 0.0036 0.0000 0.0003 0.0118 0.0000 0.0000	1.0000 1.0000 1.0000 0.9964 1.0000 1.0000 0.9997 0.9882 1.0000 1.0000	100.00 100.00 100.00 100.00 99.64 99.64 99.64 99.61 98.43 98.43
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,991,404 2,991,404 2,991,404 2,991,404 2,991,404 2,976,335 2,976,335 2,976,335 2,976,335 2,976,335	15,069	0.0000 0.0000 0.0000 0.0000 0.0050 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9950 1.0000 1.0000 1.0000 1.0000	98.43 98.43 98.43 98.43 97.94 97.94 97.94 97.94
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,976,335 2,976,335 2,689,521 2,678,149 2,678,149 2,678,149 2,665,300 2,665,300 2,665,300 2,665,300		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.94 97.94 97.94 97.94 97.94 97.94 97.94 97.94



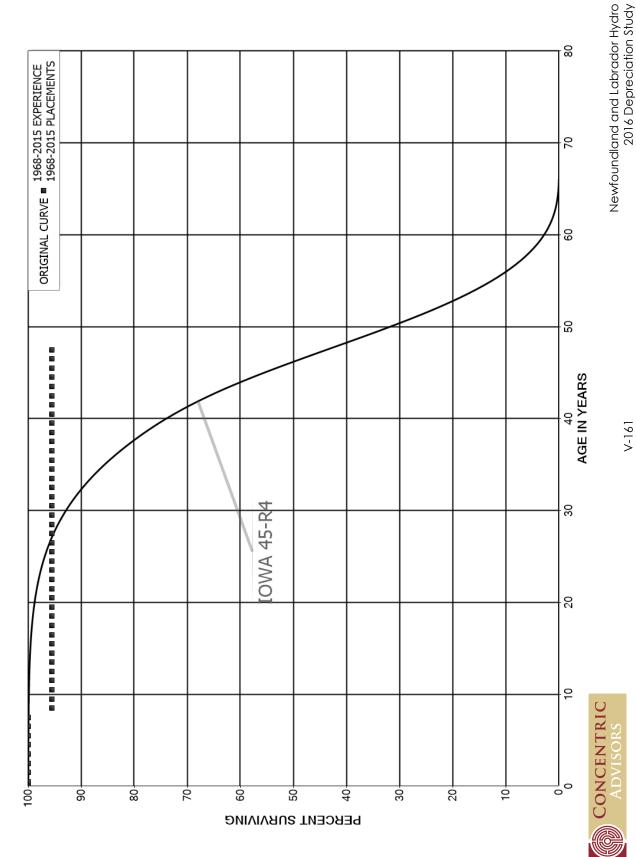
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M02 - MARINE TERMINAL

PLACEMENT BAND 1969-2013			RIENCE BAN	D 1969-2015
EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,596,300 2,596,300		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.94 97.94 97.94 97.94 97.94 97.94
	EXPOSURES AT BEGINNING OF AGE INTERVAL 2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,596,300	EXPOSURES AT BEGINNING OF AGE INTERVAL INTERVAL 2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,665,300 2,596,300	EXPOSURES AT RETIREMENTS BEGINNING OF DURING AGE RETMT AGE INTERVAL INTERVAL RATIO 2,665,300 0.0000 2,665,300 0.0000 2,665,300 0.0000 2,665,300 0.0000 2,665,300 0.0000 2,665,300 0.0000 2,596,300 0.0000	EXPOSURES AT RETIREMENTS BEGINNING OF DURING AGE RETMT SURV AGE INTERVAL INTERVAL RATIO RATIO 2,665,300 0.0000 1.0000 2,665,300 0.0000 1.0000 2,665,300 0.0000 1.0000 2,665,300 0.0000 1.0000 2,665,300 0.0000 1.0000 2,665,300 0.0000 1.0000 2,596,300 0.0000 1.0000



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M03 - METALCLAD SWITCHGEAR CUB/EQU 4kv/600 ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M03 - METALCLAD SWITCHGEAR CUB/EQU 4kv/600

PLACEMENT I	BAND 1968-2015		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,321,761 1,937,987 1,937,987 1,937,987 1,937,987 1,937,987 1,937,987 1,937,987 1,937,987	88,117	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0455 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9545 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 95.45
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,849,870 1,849,870 1,849,870 1,849,870 1,849,870 1,849,870 1,849,870 1,849,870 1,849,870		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	95.45 95.45 95.45 95.45 95.45 95.45 95.45 95.45
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,849,870 1,835,582 1,268,370 1,268,370 1,268,370 1,268,370 1,268,370 1,268,370 1,268,370 1,268,370		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	95.45 95.45 95.45 95.45 95.45 95.45 95.45 95.45
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,211,961 1,211,961 1,211,961 1,211,961 1,211,961 1,211,961 431,573 431,573 431,573		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	95.45 95.45 95.45 95.45 95.45 95.45 95.45 95.45



NEWFOUNDLAND AND LABRADOR HYDRO

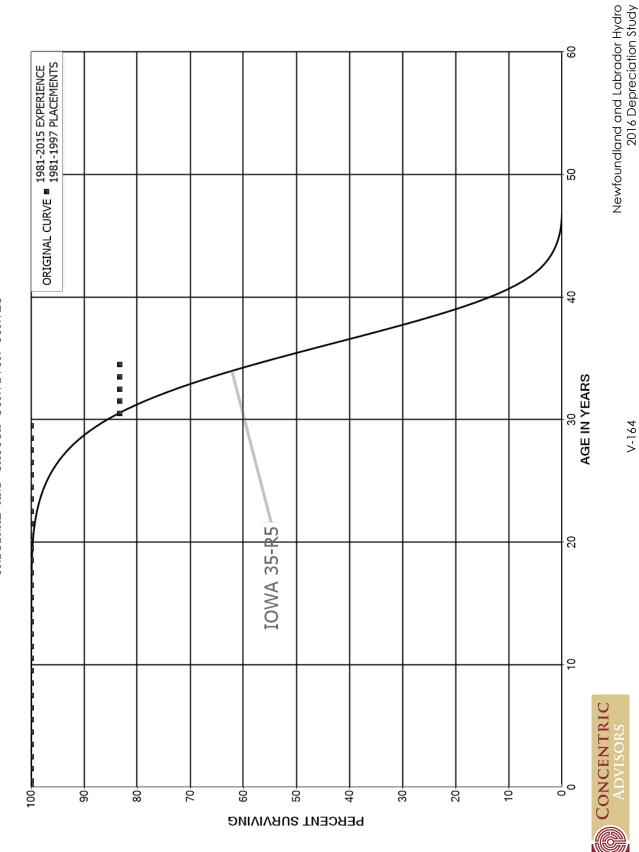
ACCOUNT M03 - METALCLAD SWITCHGEAR CUB/EQU 4kv/600

ORIGINAL LIFE TABLE, CONT.

PLACEMENT :	BAND 1968-2015		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	431,573 431,573 431,573 431,573 431,573 431,573 431,573		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	95.45 95.45 95.45 95.45 95.45 95.45 95.45



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO4 - METER TEST SWITCHES ORIGINAL AND SMOOTH SURVIVOR CURVES



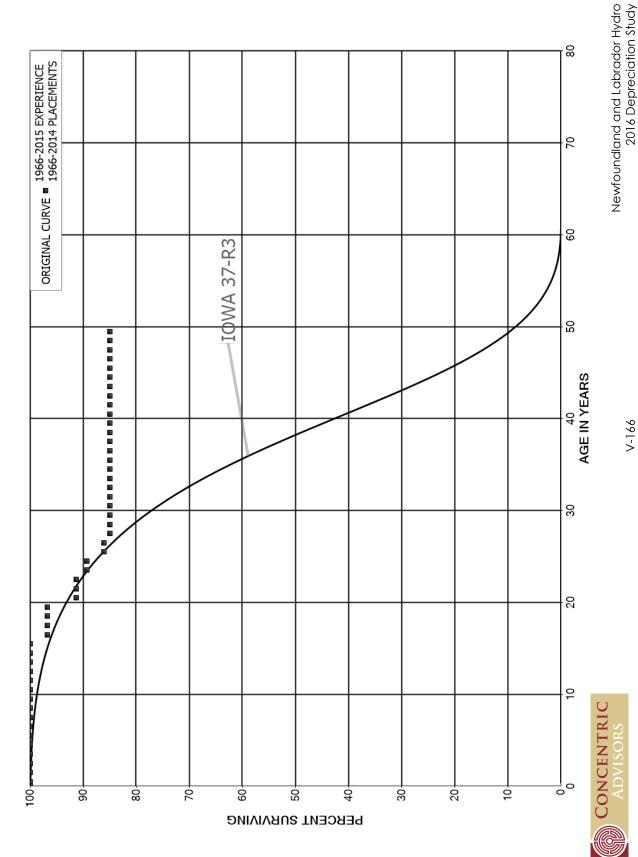
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M04 - METER TEST SWITCHES

PLACEMENT E	BAND 1981-1997		EXPEF	RIENCE BAN	D 1981-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	60,735 60,735 60,735 60,735 60,735 60,735 60,735 60,735 60,735		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	60,735 60,735 60,735 60,735 60,735 60,735 60,735 60,735 55,044		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	55,044 55,044 43,701 42,485 42,485 29,763 29,763 29,763 26,459 14,602		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5	14,602 12,168 11,271 11,271 9,278	2,434	0.1667 0.0000 0.0000 0.0000 0.0000	0.8333 1.0000 1.0000 1.0000 1.0000	100.00 83.33 83.33 83.33 83.33 83.33



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M05 - METERING TANKS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M05 - METERING TANKS

PLACEMENT :	BAND 1966-2014		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	705,132 705,132 565,098 469,655 409,740 343,171 343,171 343,171 343,171 343,171		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	343,171 343,171 343,171 343,171 343,171 343,171 343,171 331,751 331,751 330,505	11,420	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0333 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9667 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 96.67 96.67
19.5 20.5 21.5 22.5 23.5 24.5	316,174 298,565 277,148 241,006 218,320 218,320	17,609 5,184 8,002	0.0557 0.0000 0.0000 0.0215 0.0000 0.0367	0.9443 1.0000 1.0000 0.9785 1.0000 0.9633	96.67 91.29 91.29 91.29 89.32 89.32
25.5 26.5 27.5 28.5	210,318 210,318 198,433 182,108	2,500	0.0000 0.0126 0.0000 0.0000	1.0000 0.9874 1.0000 1.0000	86.05 86.05 84.97 84.97
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	182,108 182,108 170,992 165,644 165,644 34,552 34,552 26,391 20,957		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	84.97 84.97 84.97 84.97 84.97 84.97 84.97 84.97 84.97



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M05 - METERING TANKS

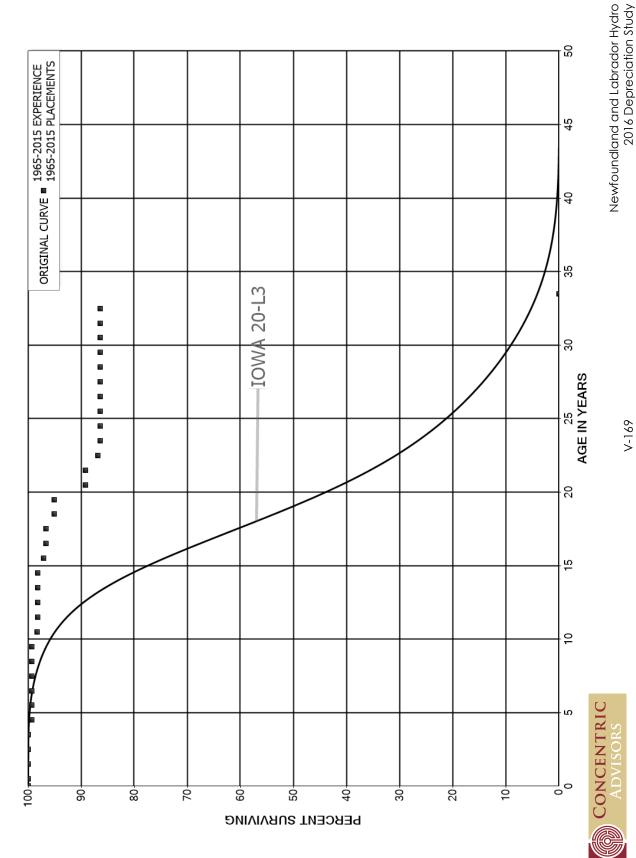
ORIGINAL LIFE TABLE, CONT.

PLACEMENT H	BAND 1966-2014		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	20,957 20,957 20,957 20,957 13,595 13,595 9,614 9,614 2,500 2,500		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	84.97 84.97 84.97 84.97 84.97 84.97 84.97 84.97 84.97
49.5					84.97



V-169

ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO6 - METERS - DIGITAL



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M06 - METERS - DIGITAL

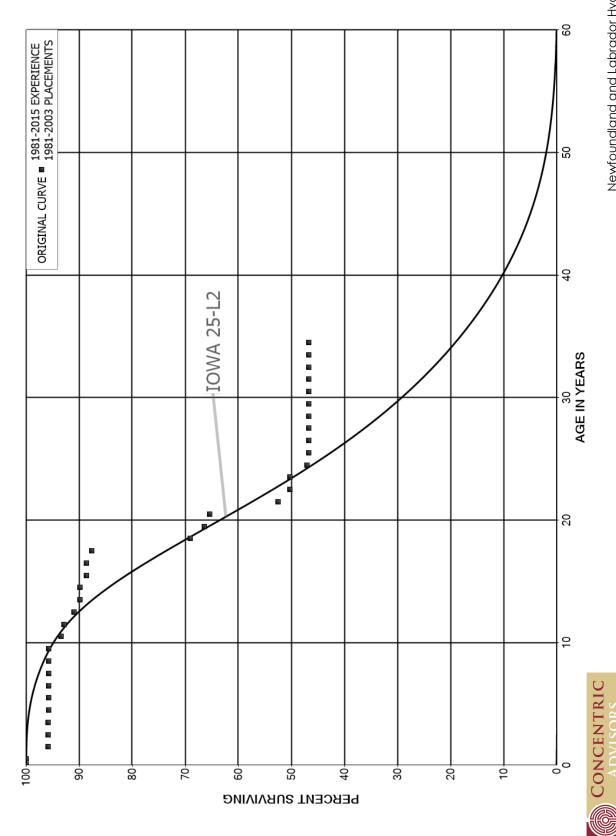
PLACEMENT I	BAND 1965-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	6,037,293 5,625,739 5,536,167 4,824,333 4,303,225 3,964,086 3,569,971 2,133,272 2,060,513 1,972,191	30,980	0.0000 0.0000 0.0000 0.0000 0.0072 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9928 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 99.28 99.28 99.28 99.28
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,913,144 1,793,295 1,589,911 1,525,115 1,331,321 1,181,881 1,145,185 1,050,035 900,361 770,061	19,570 1,202 13,761 5,442 14,155	0.0102 0.0007 0.0000 0.0000 0.0116 0.0048 0.0000 0.0157 0.0000	0.9898 0.9993 1.0000 1.0000 0.9884 0.9952 1.0000 0.9843 1.0000	99.28 98.26 98.20 98.20 98.20 97.06 96.59 96.59 95.08
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	718,143 654,314 567,605 549,560 412,318 37,966 15,141 15,141	44,781 14,687 2,907	0.0624 0.0000 0.0259 0.0053 0.0000 0.0000 0.0000 0.0000 0.0000	0.9376 1.0000 0.9741 0.9947 1.0000 1.0000 1.0000 1.0000 1.0000	95.08 89.15 89.15 86.84 86.38 86.38 86.38 86.38 86.38
29.5 30.5 31.5 32.5 33.5	15,141 15,141 15,141 15,141	15,141	0.0000 0.0000 0.0000 1.0000	1.0000 1.0000 1.0000	86.38 86.38 86.38 86.38



V-171

Newfoundland and Labrador Hydro 2016 Depreciation Study





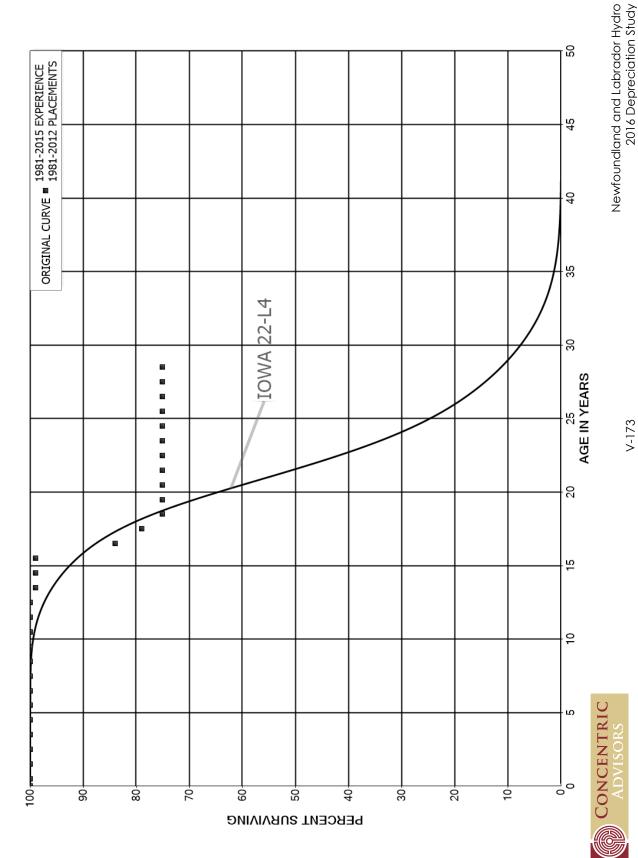
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M07 - METERS - ANALOGUE

PLACEMENT B	AND 1981-2003		EXPE	RIENCE BAN	D 1981-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5	1,493,442 1,493,442 1,430,712 1,430,712 1,430,712 1,430,314 1,430,314	62,730 399 344	0.0000 0.0420 0.0000 0.0000 0.0003 0.0000 0.0000	1.0000 0.9580 1.0000 1.0000 0.9997 1.0000 1.0000 0.9998	100.00 100.00 95.80 95.80 95.77 95.77
7.5 8.5	1,429,970 1,429,679	290	0.0002 0.0000	0.9998 1.0000	95.75 95.73
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,429,679 1,394,323 1,386,254 1,358,162 1,342,359 1,342,359 1,323,302 1,323,098 1,309,208 1,031,705	35,356 8,069 28,092 15,803 19,057 204 13,890 277,503 39,340	0.0247 0.0058 0.0203 0.0116 0.0000 0.0142 0.0002 0.0105 0.2120 0.0381	0.9753 0.9942 0.9797 0.9884 1.0000 0.9858 0.9998 0.9895 0.7880 0.9619	95.73 93.36 92.82 90.94 89.88 89.88 88.61 88.59 87.66 69.08
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	992,365 976,871 783,422 750,574 750,574 703,585 698,384 549,645 352,574 206,618	15,494 193,449 32,848 46,989 5,201	0.0156 0.1980 0.0419 0.0000 0.0626 0.0074 0.0000 0.0000 0.0000	0.9844 0.8020 0.9581 1.0000 0.9374 0.9926 1.0000 1.0000	66.45 65.41 52.46 50.26 50.26 47.11 46.76 46.76 46.76
29.5 30.5 31.5 32.5 33.5 34.5	206,618 206,618 150,111 138,968 138,968		0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000	46.76 46.76 46.76 46.76 46.76 46.76



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO8 - METERS - OTHER



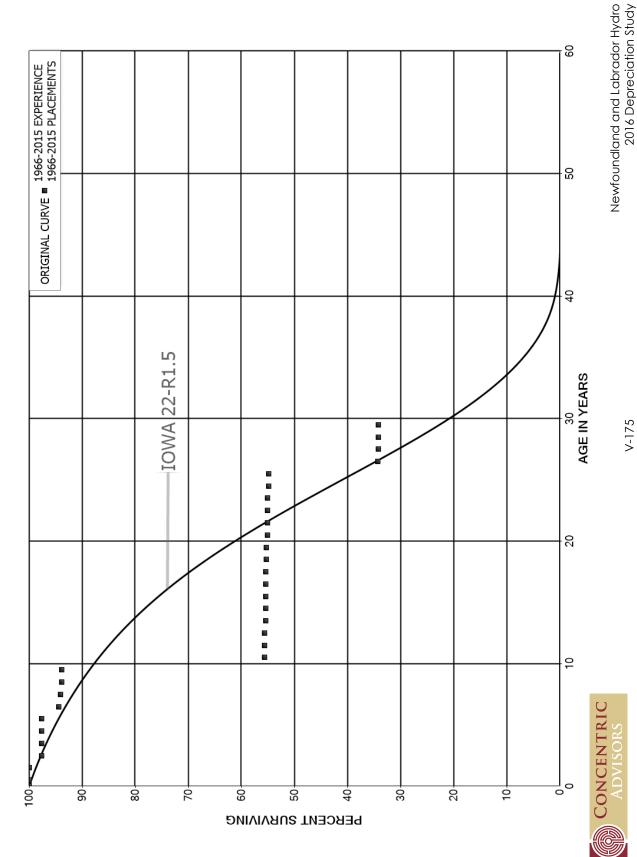
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M08 - METERS - OTHER

PLACEMENT E	BAND 1981-2012		EXPEF	RIENCE BAN	D 1981-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	300,408 300,408 300,408 300,408 221,165 221,165 221,165 221,165 221,165 221,165		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	199,415 171,757 168,002 152,181 150,594 150,594 148,829 126,342 117,996 72,459	1,588 22,487 7,513 5,967	0.0000 0.0000 0.0000 0.0104 0.0000 0.0000 0.1511 0.0595 0.0506 0.0000	1.0000 1.0000 1.0000 0.9896 1.0000 1.0000 0.8489 0.9405 0.9494 1.0000	100.00 100.00 100.00 100.00 98.96 98.96 98.96 84.01 79.01 75.01
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	56,346 34,155 21,023 12,210 12,210 12,210 12,210 12,210 450		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	75.01 75.01 75.01 75.01 75.01 75.01 75.01 75.01 75.01 75.01



ACCOUNT M10 - MISCELLANEOUS UNITS OF PROPERTY ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M10 - MISCELLANEOUS UNITS OF PROPERTY

PLACEMENT BAND 1966-2015		EXPERIENCE BA		
AGE AT EXPOSURES AT BEGIN OF BEGINNING OF INTERVAL AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 30,935,849 0.5 30,615,702 1.5 29,046,158 2.5 26,800,997 3.5 26,800,997 4.5 25,286,937	21,599 663,327 1,987	0.0000 0.0007 0.0228 0.0000 0.0000	1.0000 0.9993 0.9772 1.0000 1.0000 0.9999	100.00 100.00 99.93 97.65 97.65
5.5 4,846,873	14,534	0.0337	0.9663	97.64
6.5 4,683,364		0.0031	0.9969	94.35
7.5 4,668,830		0.0021	0.9979	94.05
8.5 4,641,691		0.0000	1.0000	93.85
9.5 4,641,691	1,889,486	0.4071	0.5929	93.85
10.5 2,752,205		0.0000	1.0000	55.65
11.5 2,736,621		0.0000	1.0000	55.65
12.5 2,736,621		0.0036	0.9964	55.65
13.5 2,726,675		0.0000	1.0000	55.45
14.5 2,726,675		0.0000	1.0000	55.45
15.5 2,726,675		0.0000	1.0000	55.45
16.5 2,726,675	·	0.0006	0.9994	55.45
17.5 2,725,043		0.0018	0.9982	55.41
18.5 2,720,118		0.0007	0.9993	55.31
19.5 2,718,093	920	0.0031	0.9969	55.27
20.5 2,709,649		0.0000	1.0000	55.10
21.5 2,709,649		0.0003	0.9997	55.10
22.5 2,708,729		0.0000	1.0000	55.08
23.5 2,708,729	682,013	0.0047	0.9953	55.08
24.5 2,645,492		0.0000	1.0000	54.82
25.5 1,819,518		0.3748	0.6252	54.82
26.5 342,222		0.0018	0.9982	34.27
27.5 341,622		0.0000	1.0000	34.21
28.5 341,622		0.0000	1.0000	34.21
29.5 341,622 30.5 26,368 31.5 23,361 32.5 23,361 33.5 23,361 34.5 23,361	3,006	0.0000 0.1140 0.0000 0.0000 0.0000	1.0000 0.8860 1.0000 1.0000 1.0000	34.21 34.21 30.31 30.31 30.31 30.31
35.5 23,361 36.5 6,185 37.5 6,185 38.5 6,185		0.7352 0.0000 0.0000 0.0000	0.2648 1.0000 1.0000	30.31 8.02 8.02 8.02



NEWFOUNDLAND AND LABRADOR HYDRO

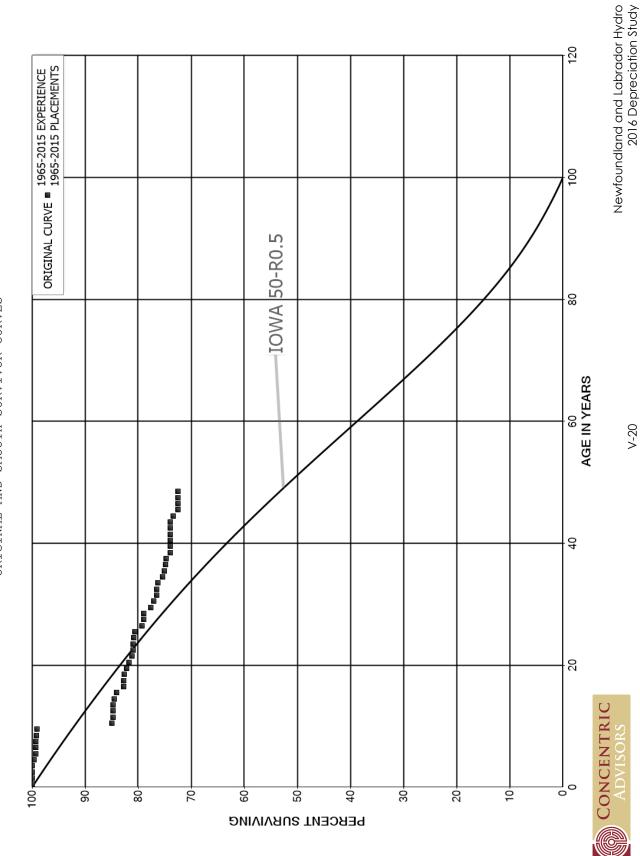
ACCOUNT M10 - MISCELLANEOUS UNITS OF PROPERTY

ORIGINAL LIFE TABLE, CONT.

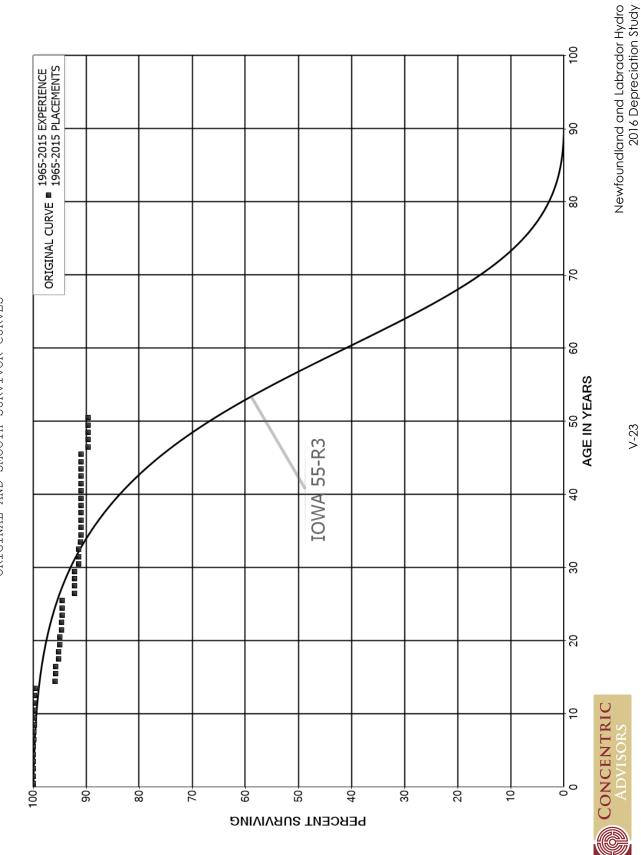
PLACEMENT :	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5	6,185 6,185 6,185 6,185 6,185 6,185		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000	8.02 8.02 8.02 8.02 8.02 8.02 8.02



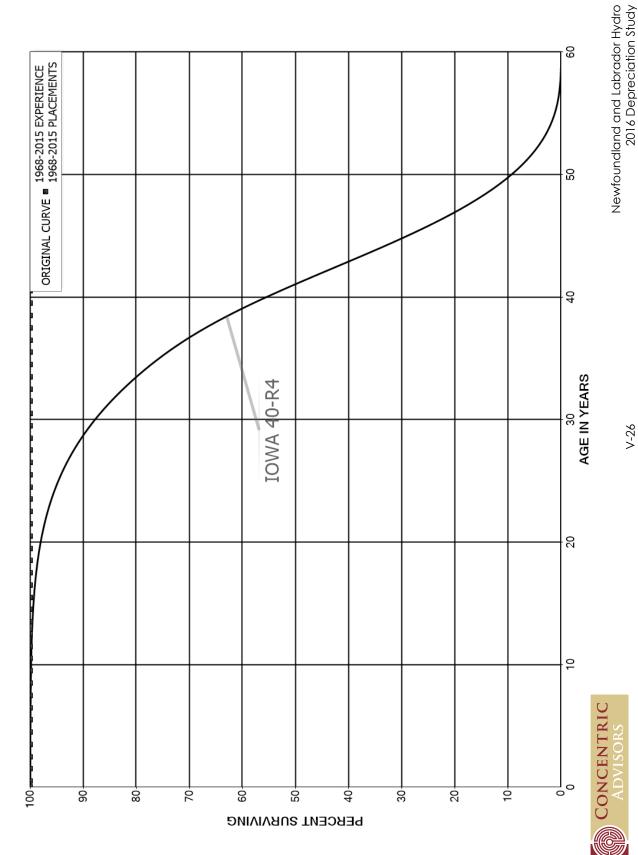
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B05 - BUILDINGS - OTHER ORIGINAL AND SMOOTH SURVIVOR CURVES



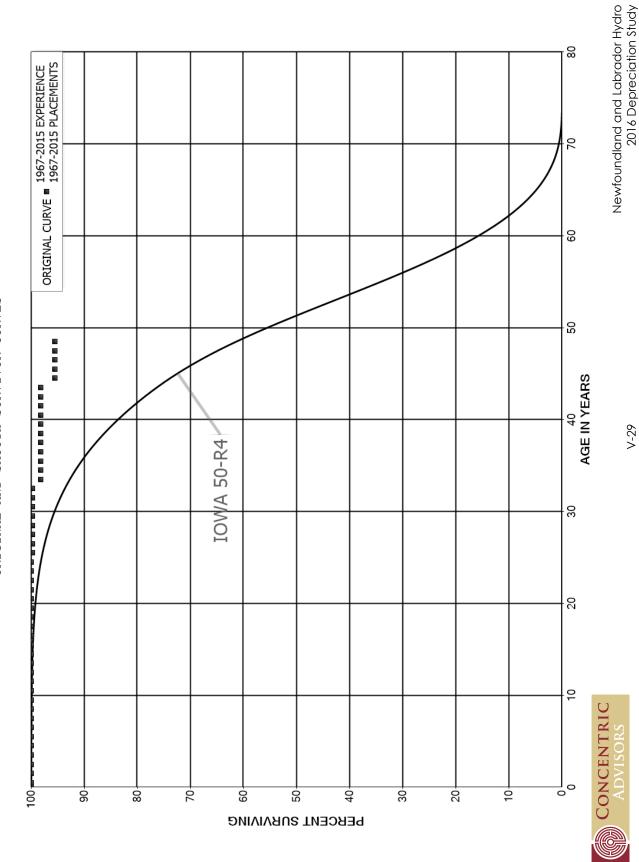
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B06 - BUILDINGS - METAL ORIGINAL AND SMOOTH SURVIVOR CURVES



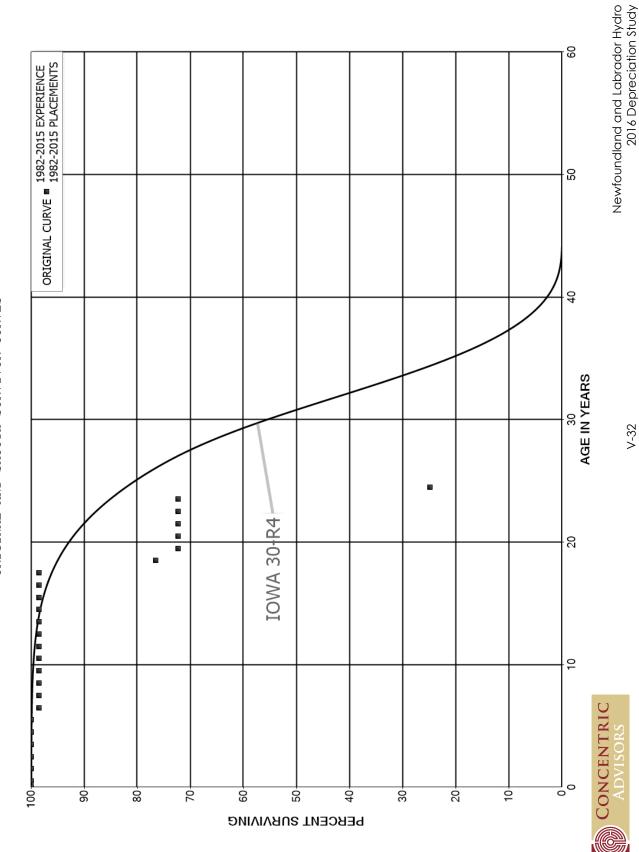
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT B07 - BUS DUCT GENERATOR ORIGINAL AND SMOOTH SURVIVOR CURVES



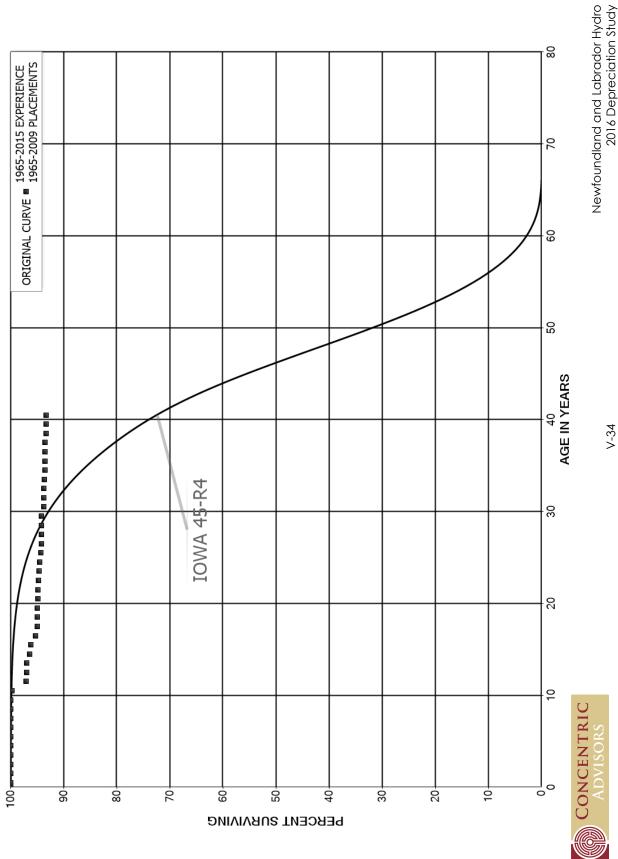
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT BO8 - BUSWORK AND HARDWARE ORIGINAL AND SMOOTH SURVIVOR CURVES



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT C01 - CABLES - TELECONTROL NEWFOUNDLAND AND LABRADOR HYDRO

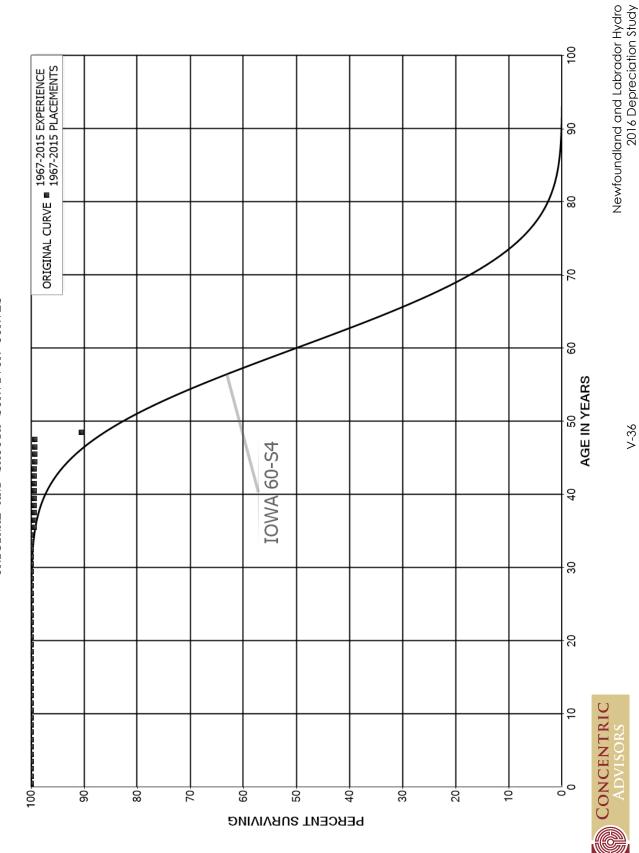


ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT C02 - CABLE - SUBMARINE NEWFOUNDLAND AND LABRADOR HYDRO

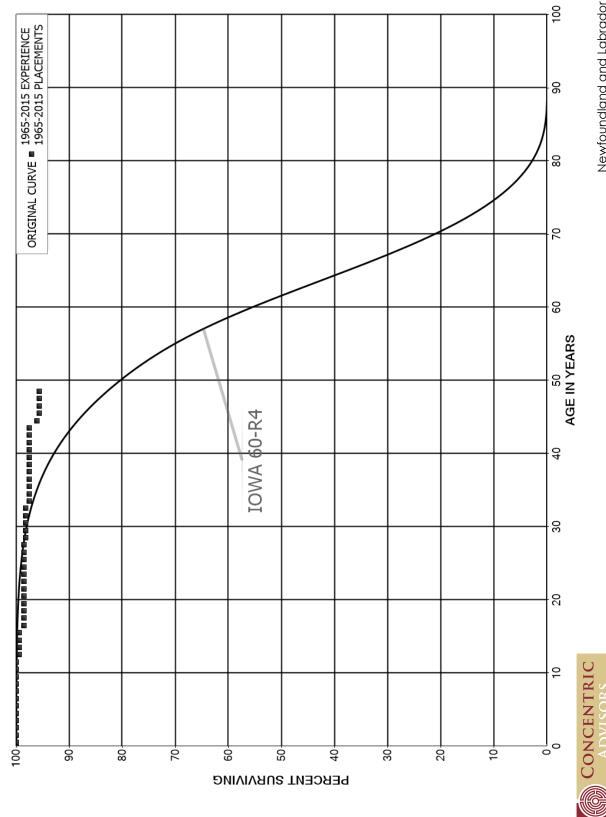


NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

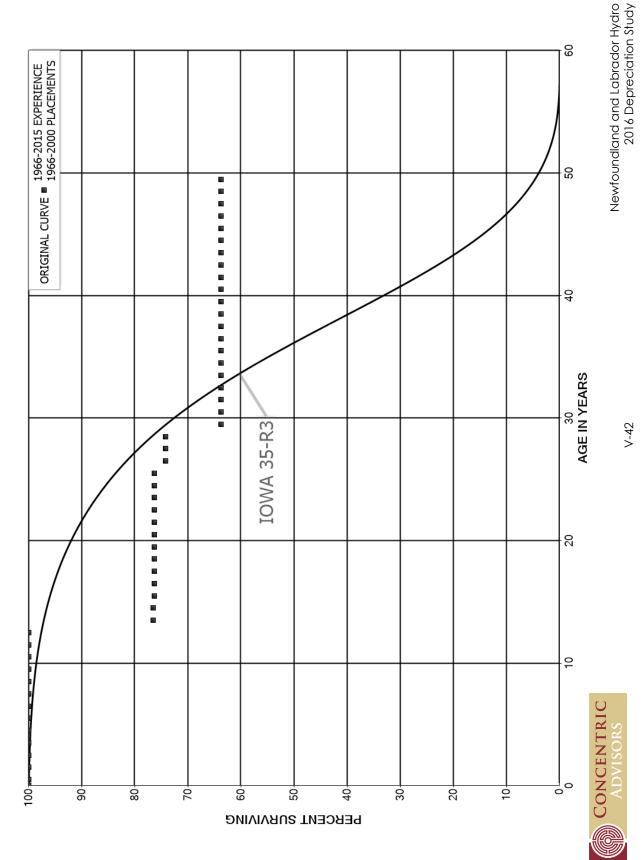
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C03 - CABLE - UNDERGROUND ORIGINAL AND SMOOTH SURVIVOR CURVES



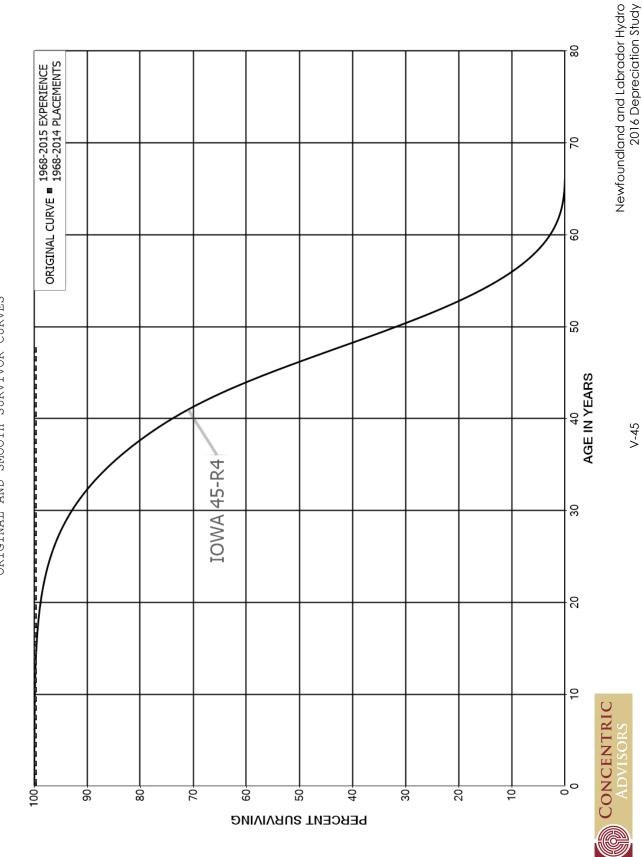
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT CO4 - CABLE - ABOVE GROUND ORIGINAL AND SMOOTH SURVIVOR CURVES



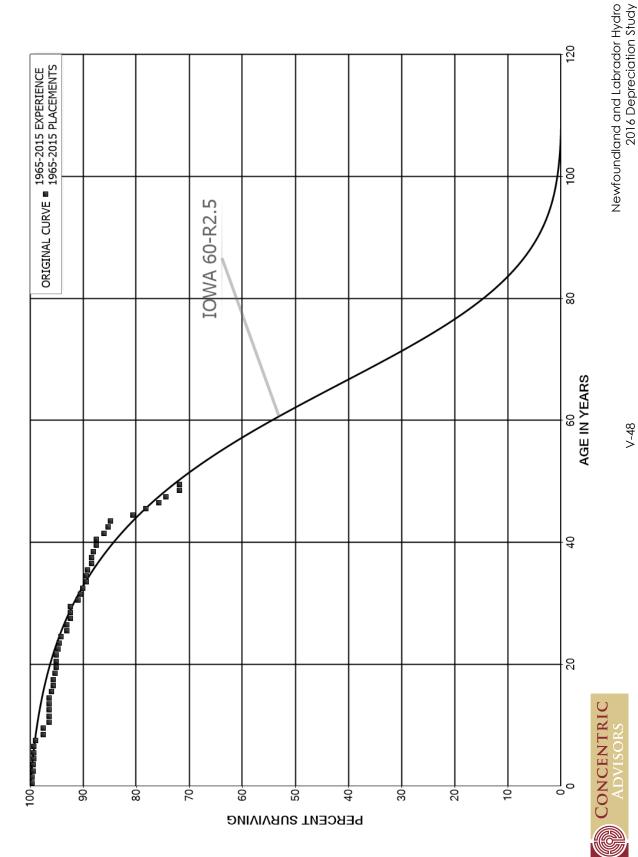
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C06 - CAPACITORS



ACCOUNT CO7 - CHEMICAL FEED SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO

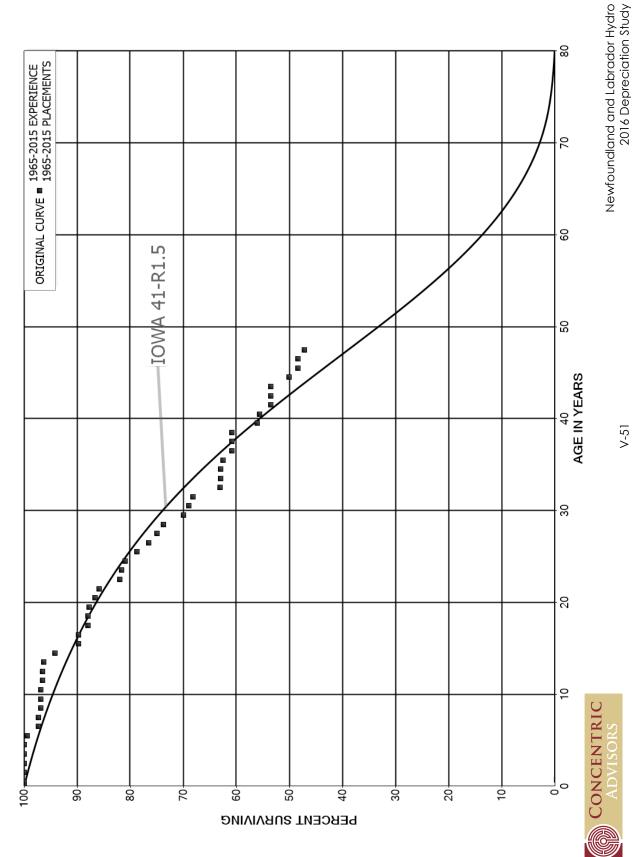


NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C09 - CIRCUIT BREAKERS ORIGINAL AND SMOOTH SURVIVOR CURVES

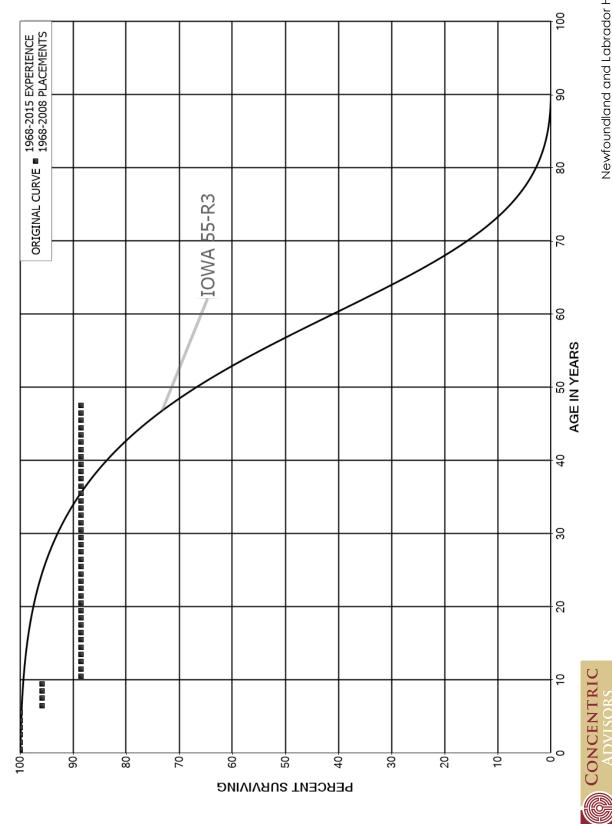


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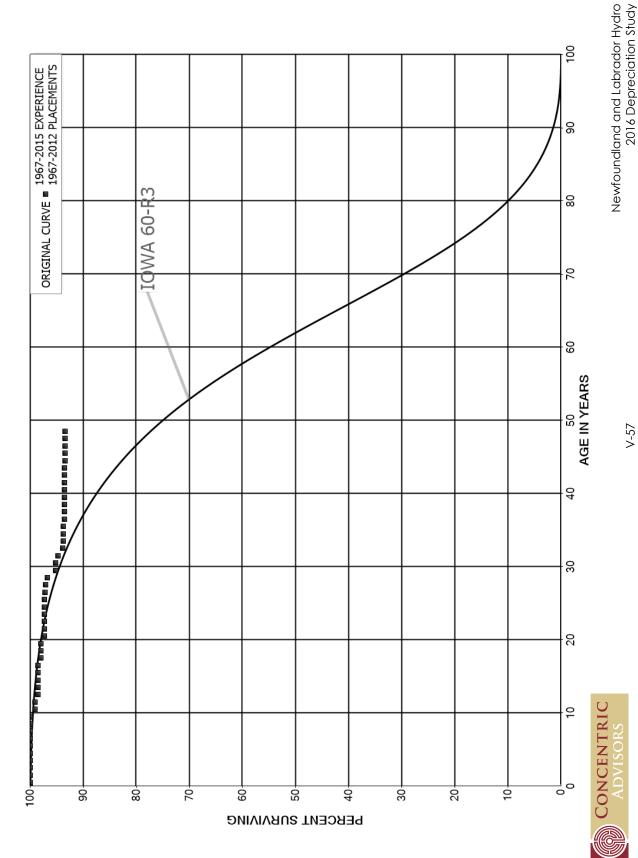
ACCOUNT C10 - COMPRESSED AIR SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



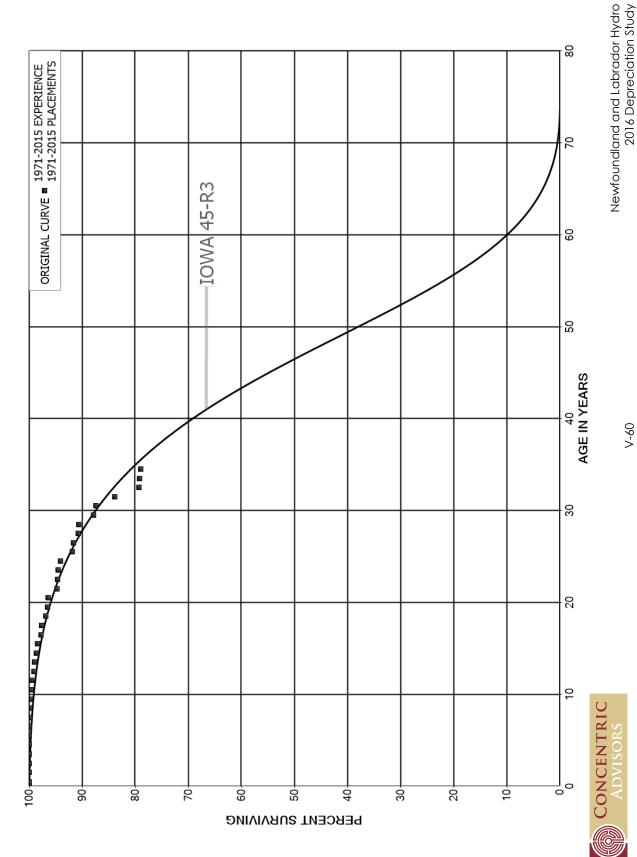
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C12 - CONDENSERS ORIGINAL AND SMOOTH SURVIVOR CURVES



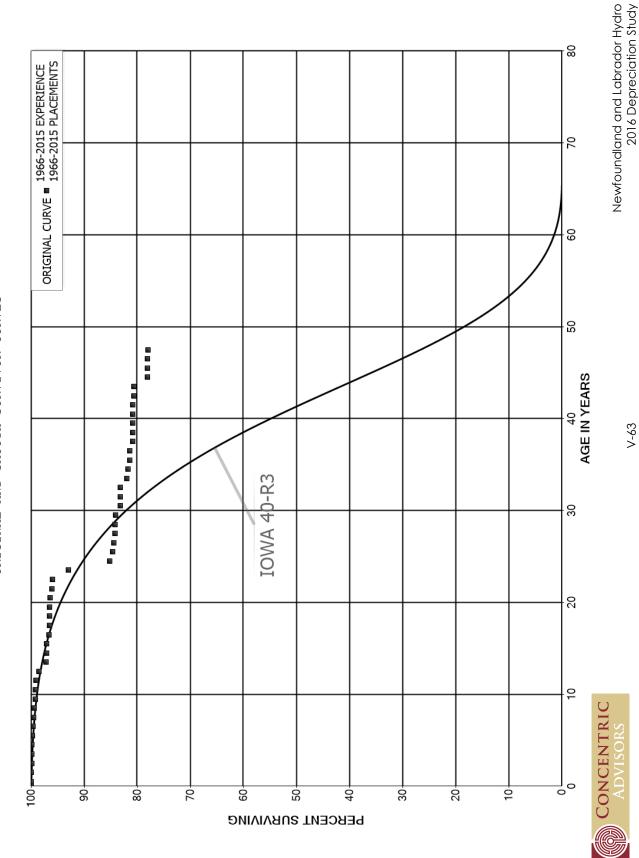
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C13 - CONDUCTOR ORIGINAL AND SMOOTH SURVIVOR CURVES



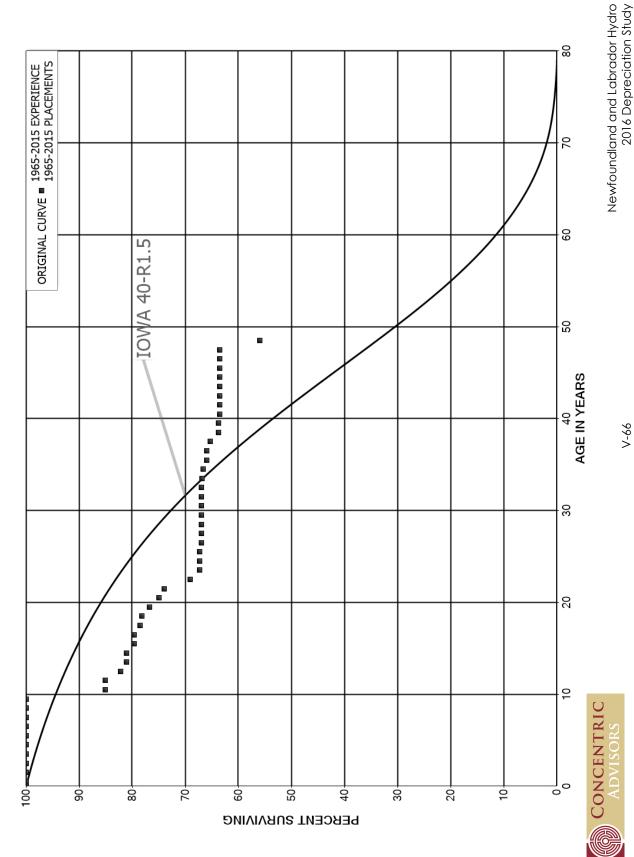
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C14 - CONDUCTOR - DISTRIBUTION ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C15 - CONTROL, METER / RELAYING ORIGINAL AND SMOOTH SURVIVOR CURVES

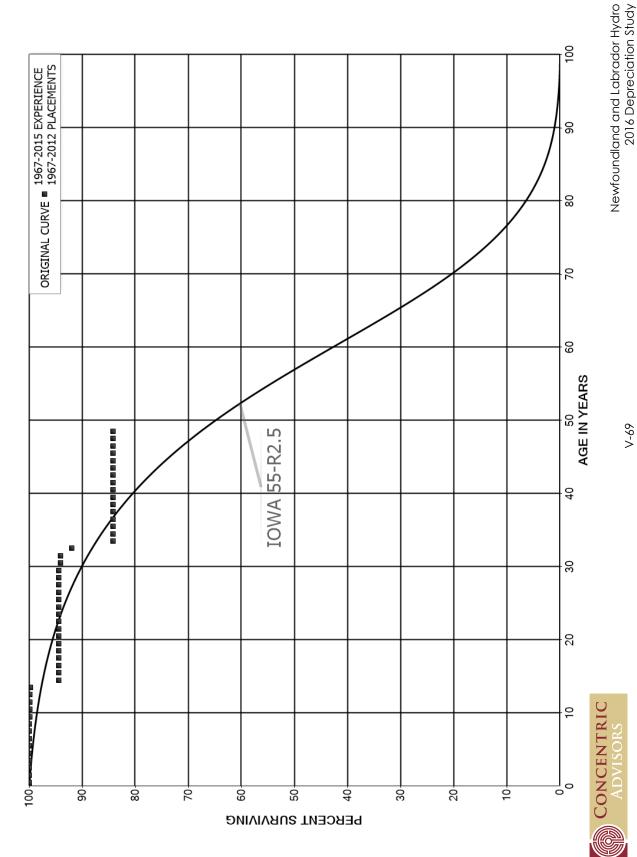


ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C16 - COOLING SYSTEMS

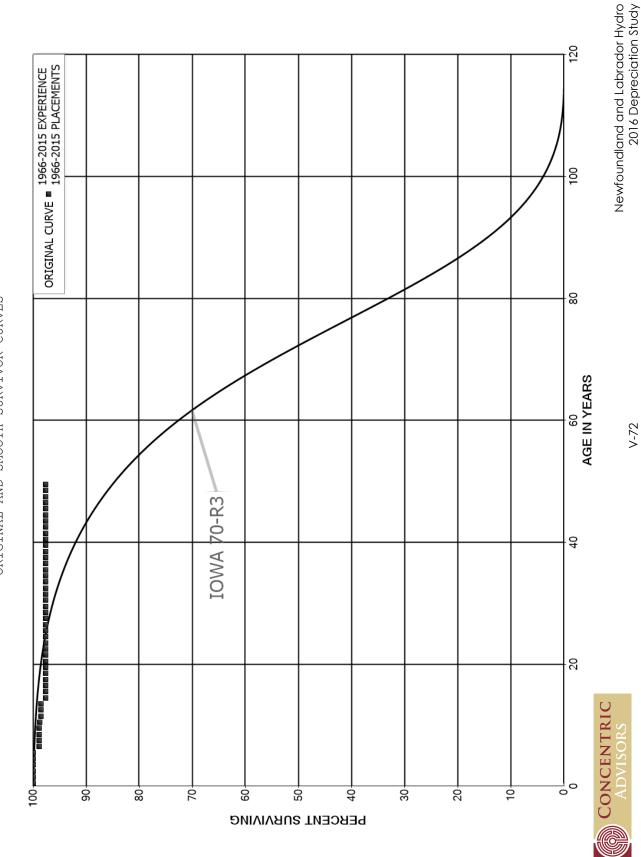


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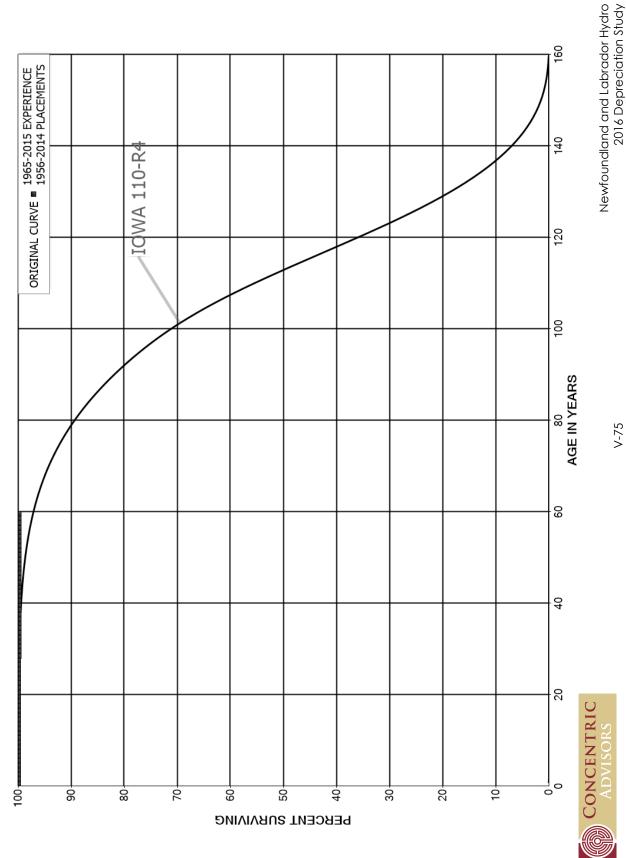
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C17 - COUNTERPOISE



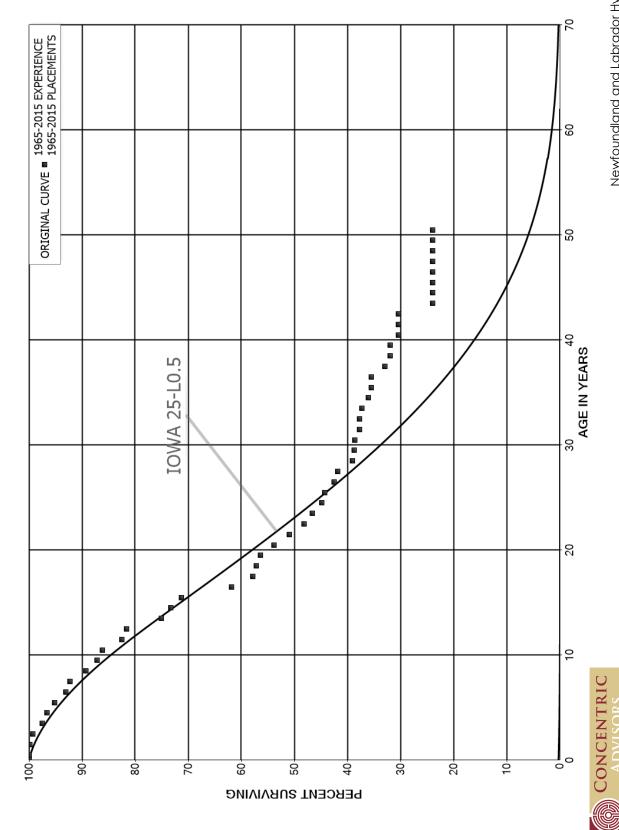
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT C18 - CRANES



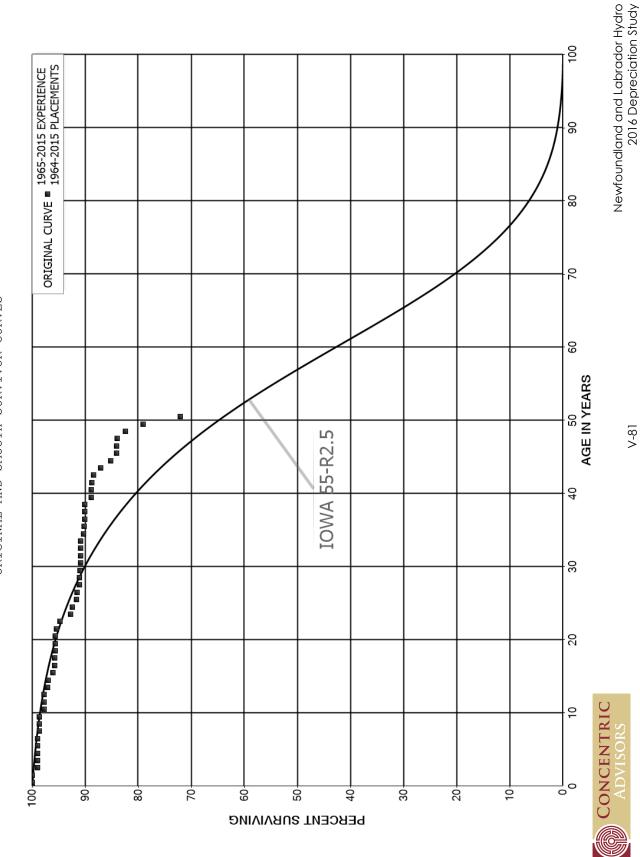
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT D01 - DAMS AND DIKES



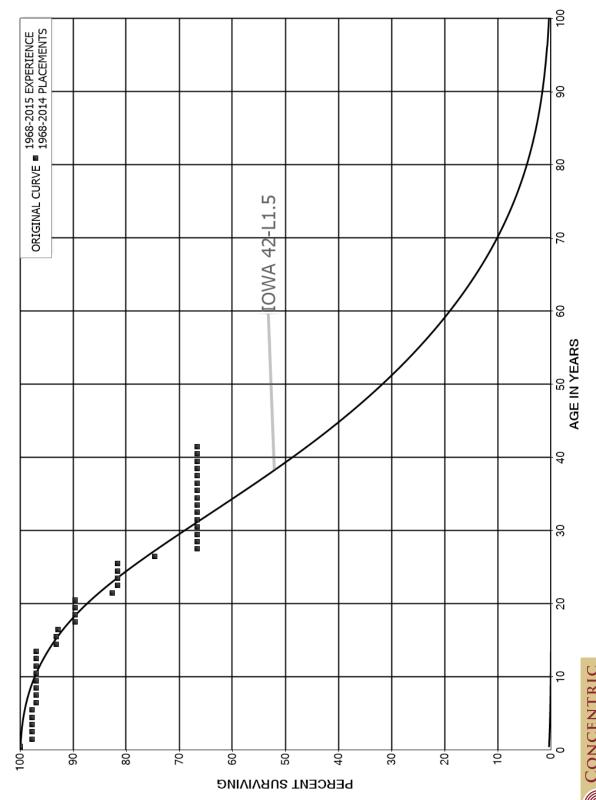
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT D02 - DIESEL SYSTEMS AND ENGINES ORIGINAL AND SMOOTH SURVIVOR CURVES



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT D03 - DISCONNECT SWITCHES NEWFOUNDLAND AND LABRADOR HYDRO

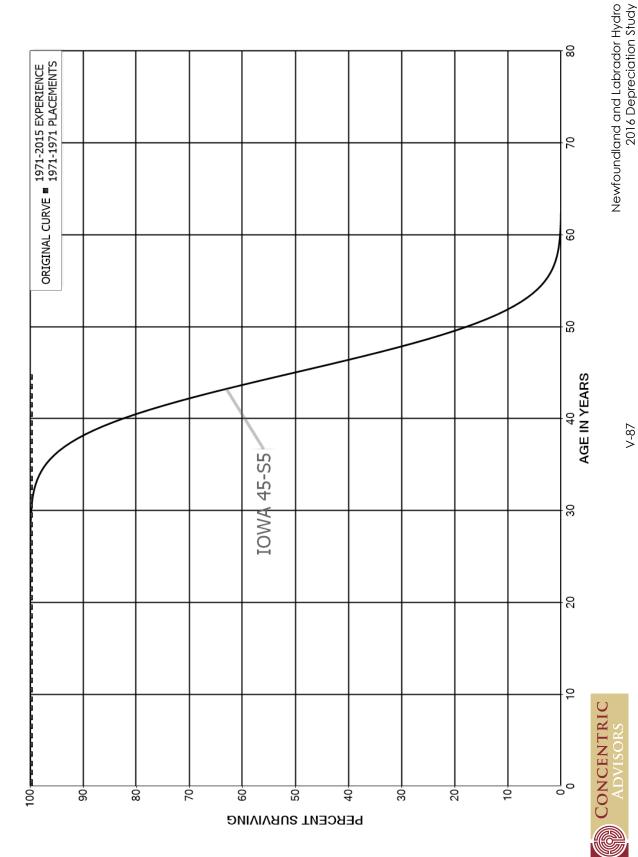


NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT D04 - DYKES AND LINERS ORIGINAL AND SMOOTH SURVIVOR CURVES

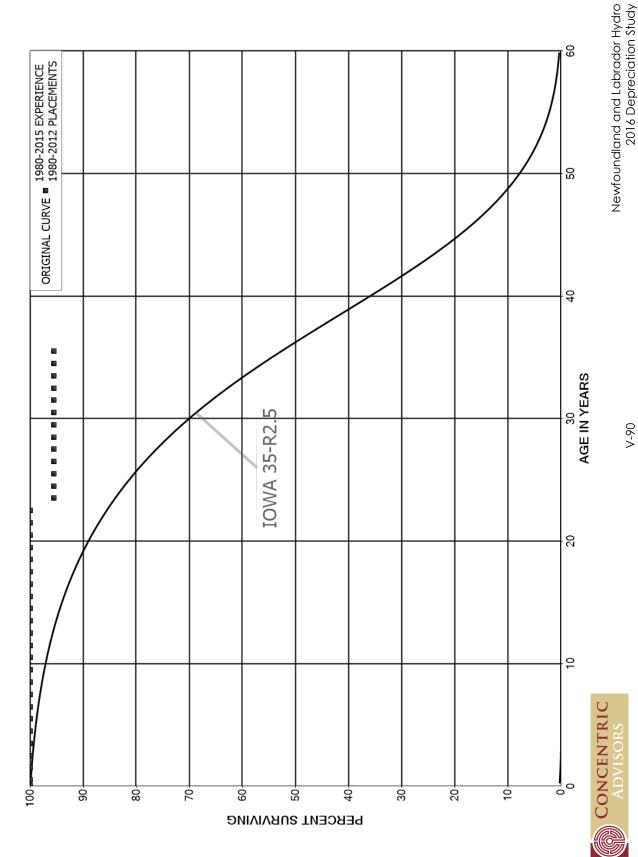




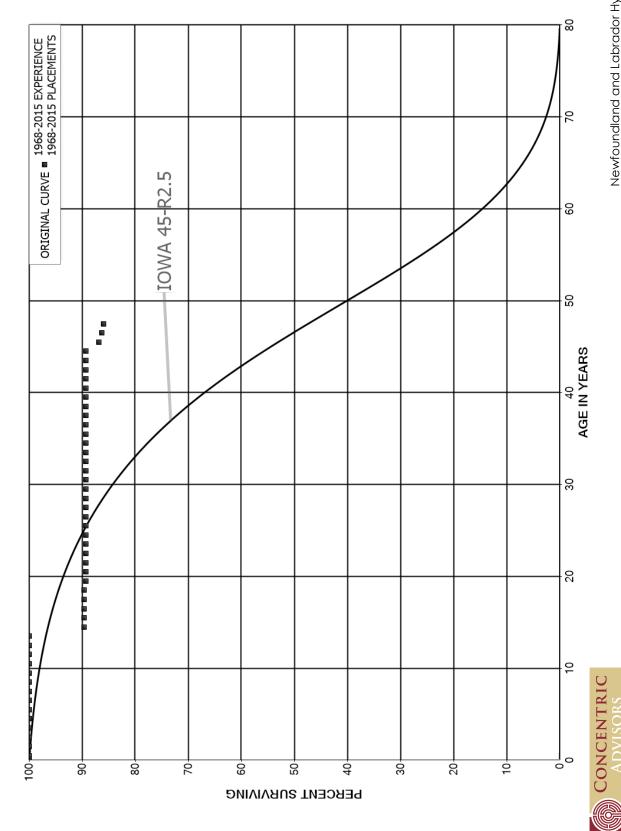
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E01 - ELEVATORS ORIGINAL AND SMOOTH SURVIVOR CURVES



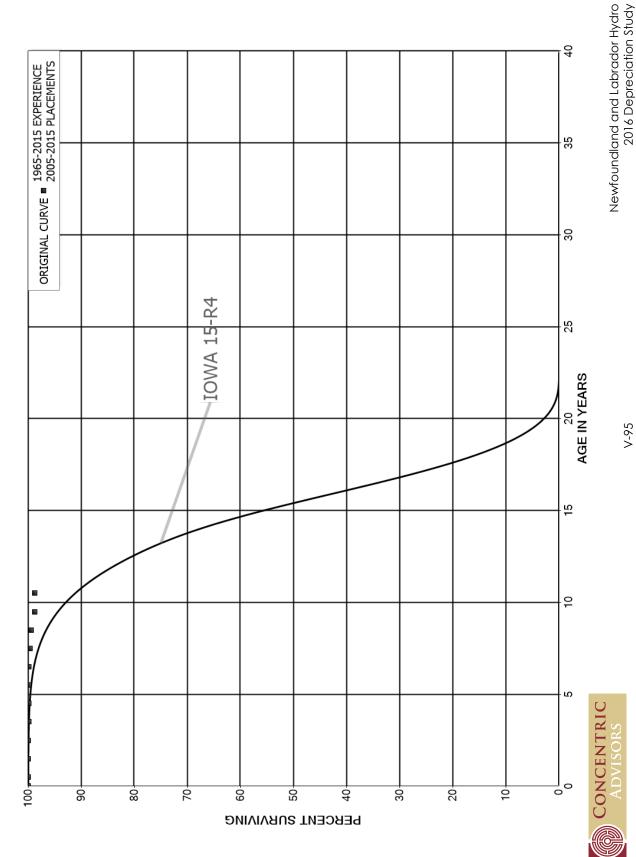
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E02 - EMS EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT E03 - ENVIRONMENTAL EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES

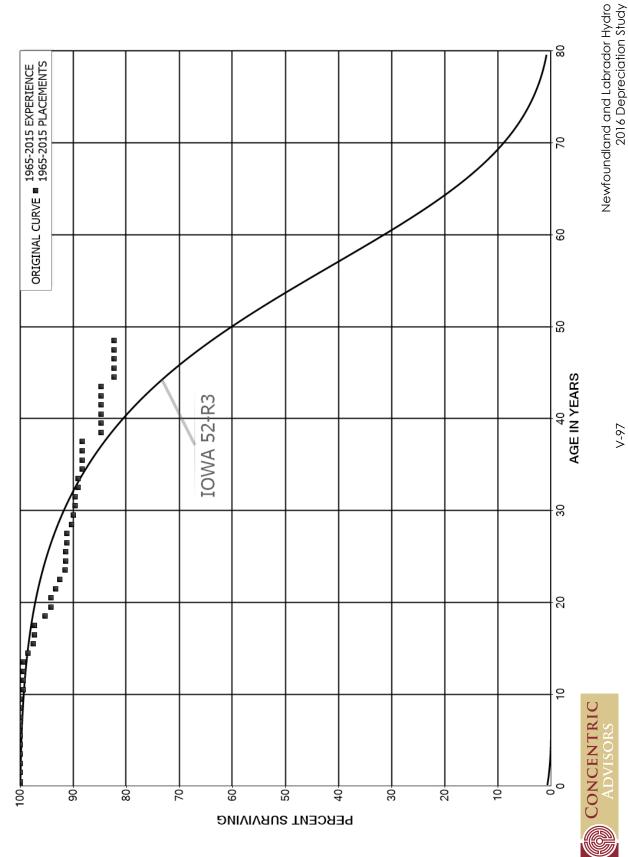


ACCOUNT F01 - FALL ARREST EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO

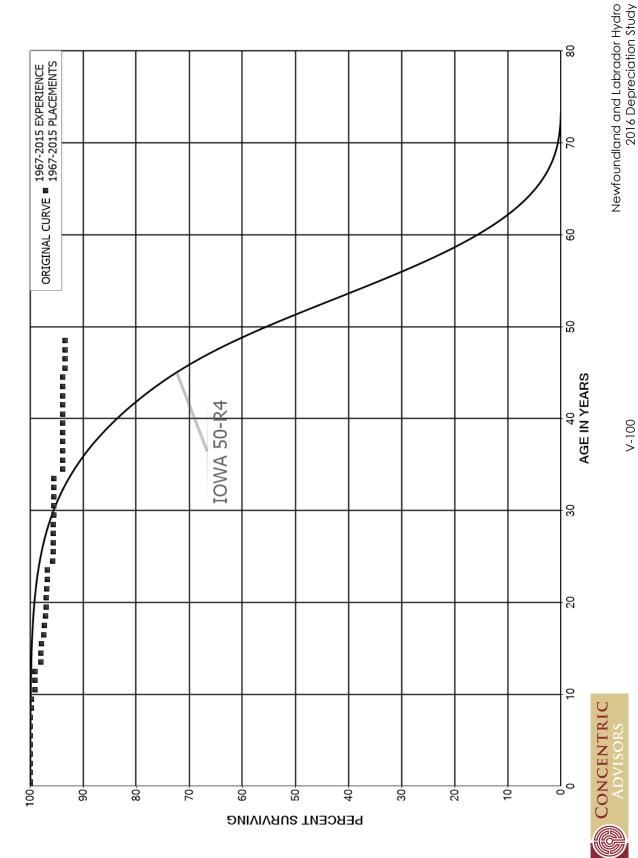


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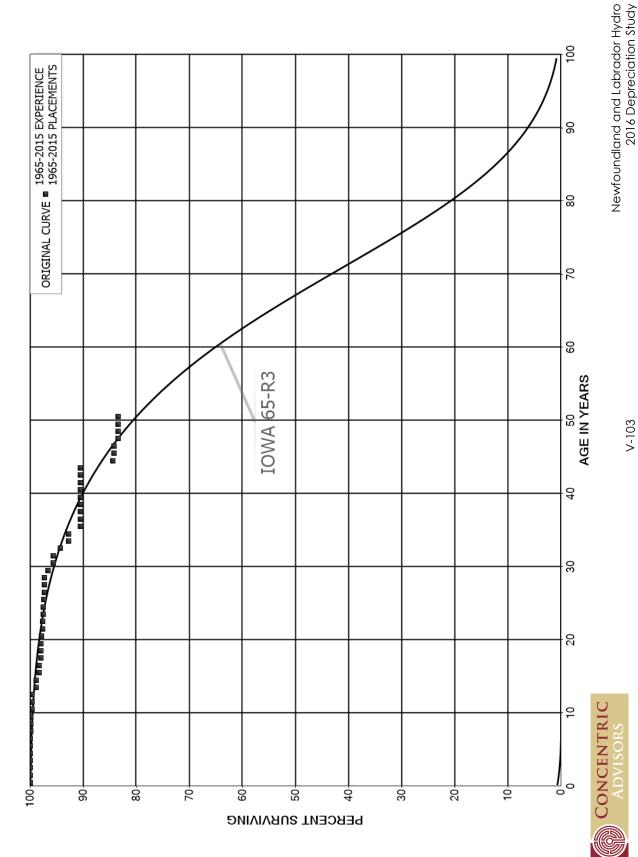
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F02 - FENCING



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F03 - FIRE FIGHTING EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES

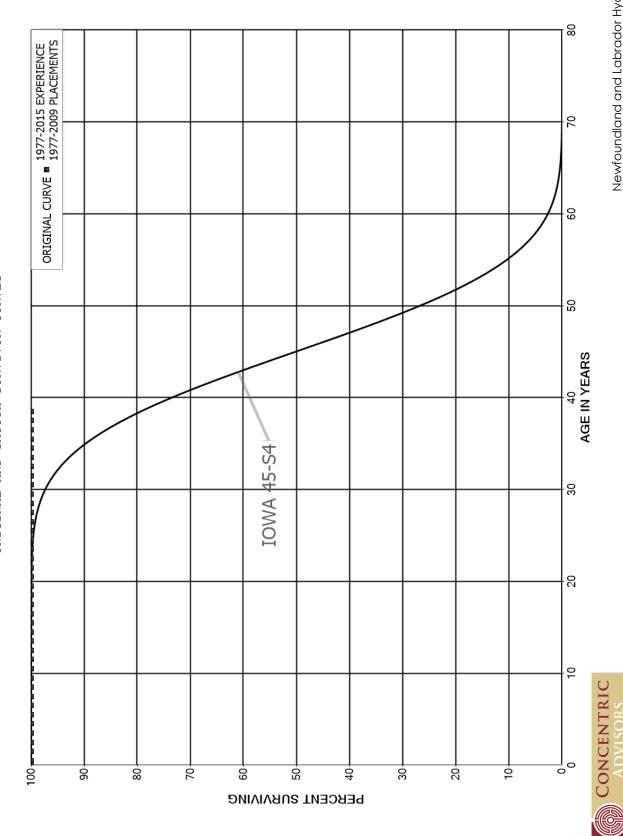


ACCOUNT F04 - FOOTINGS AND FOUNDATIONS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO

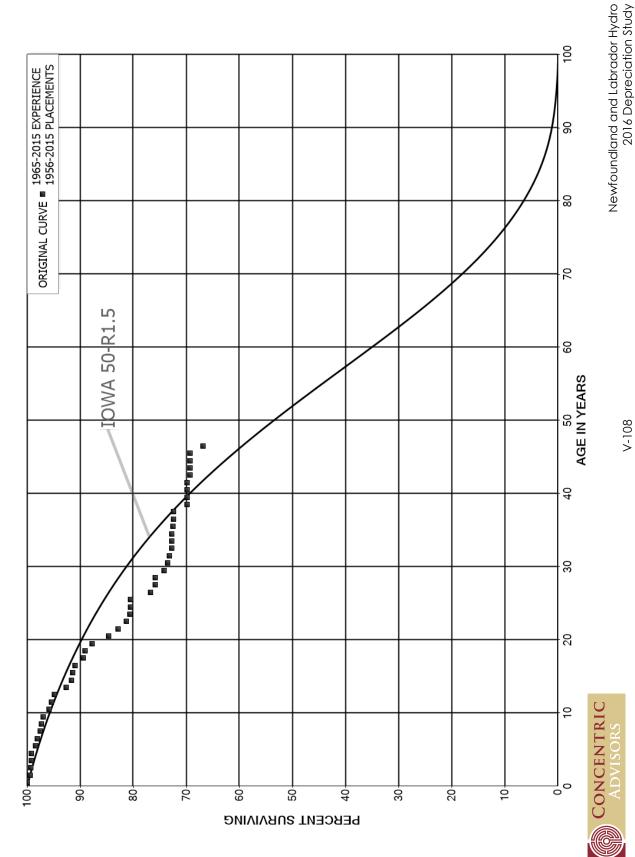


Newfoundland and Labrador Hydro 2016 Depreciation Study

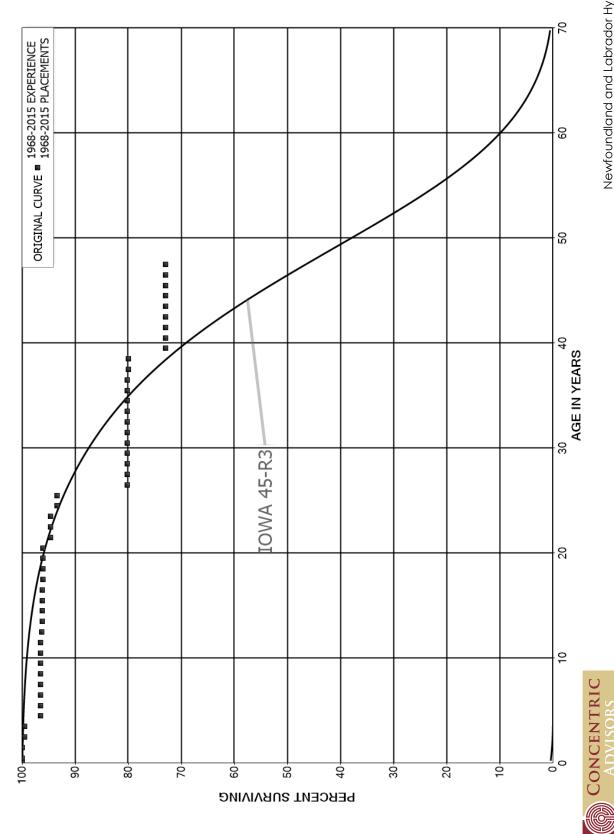
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F05 - FREQUENCY CONVERSION ORIGINAL AND SMOOTH SURVIVOR CURVES



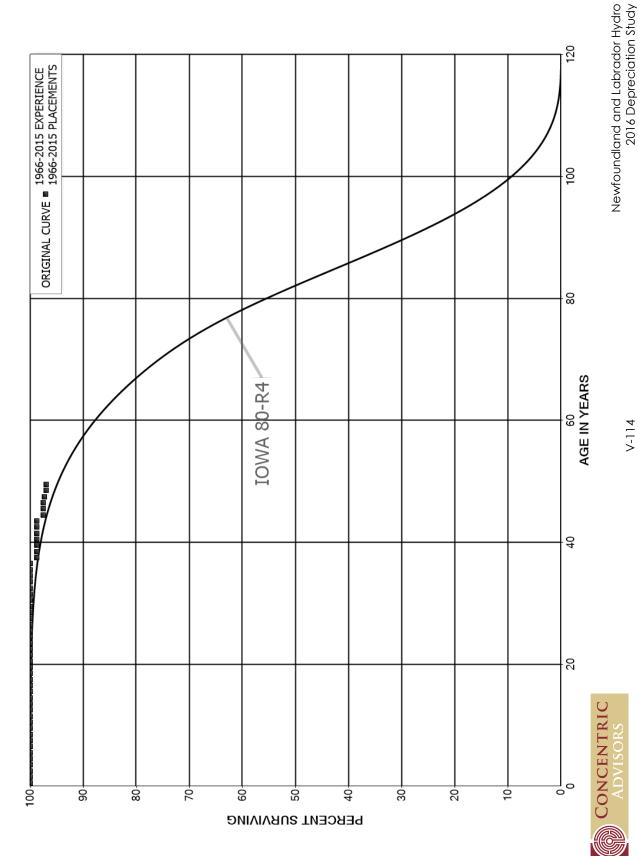
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT F06 - FUEL SYSTEMS



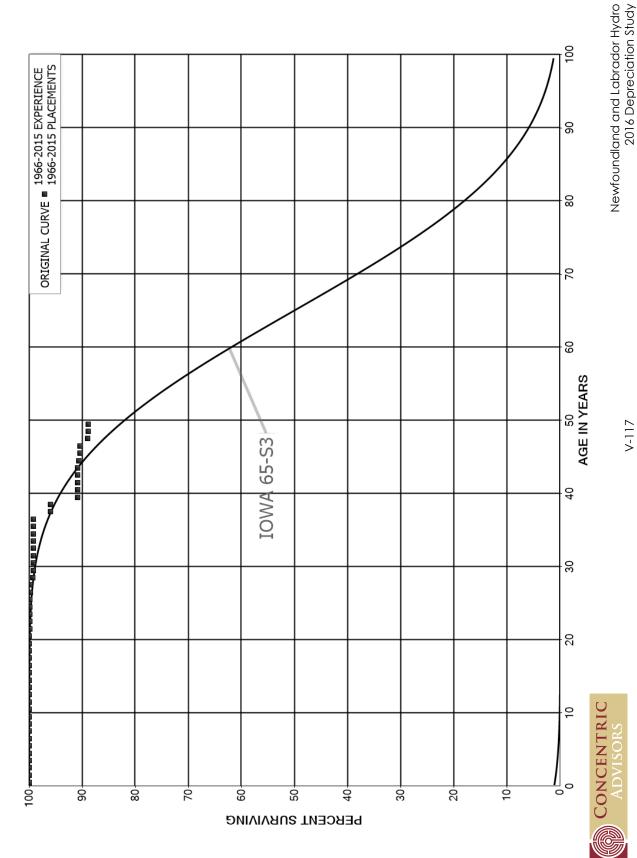
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G01 - GAS TURBINE SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



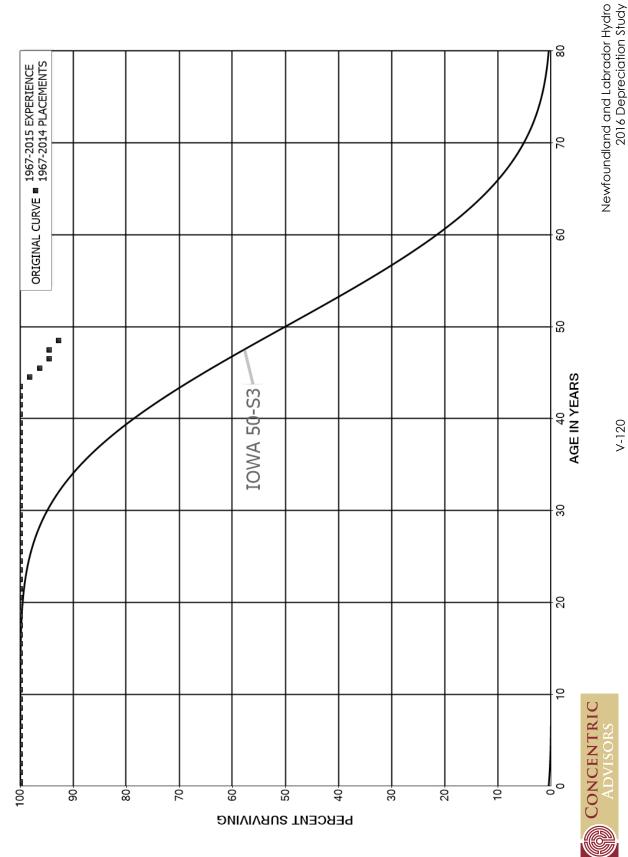
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G02 - GATES



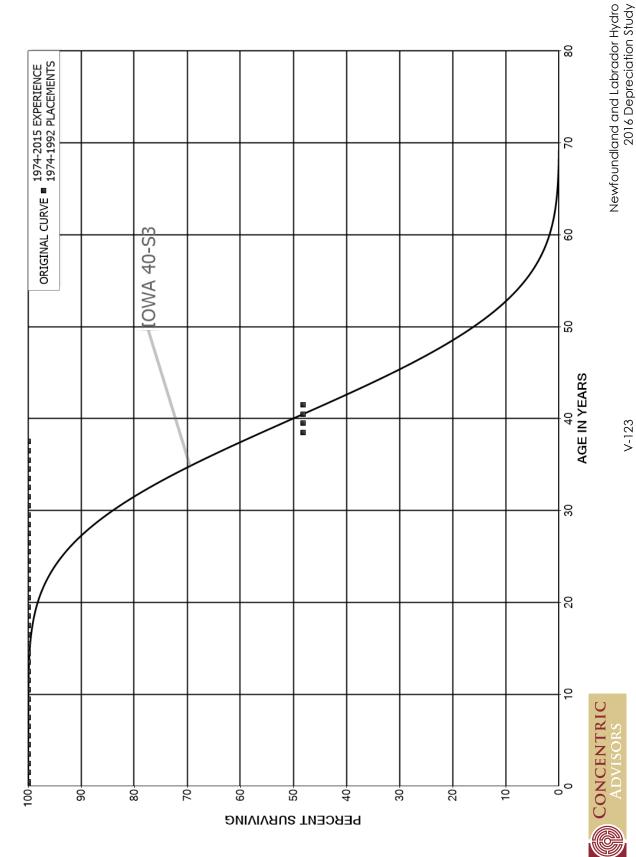
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G03 - GENERATORS ORIGINAL AND SMOOTH SURVIVOR CURVES



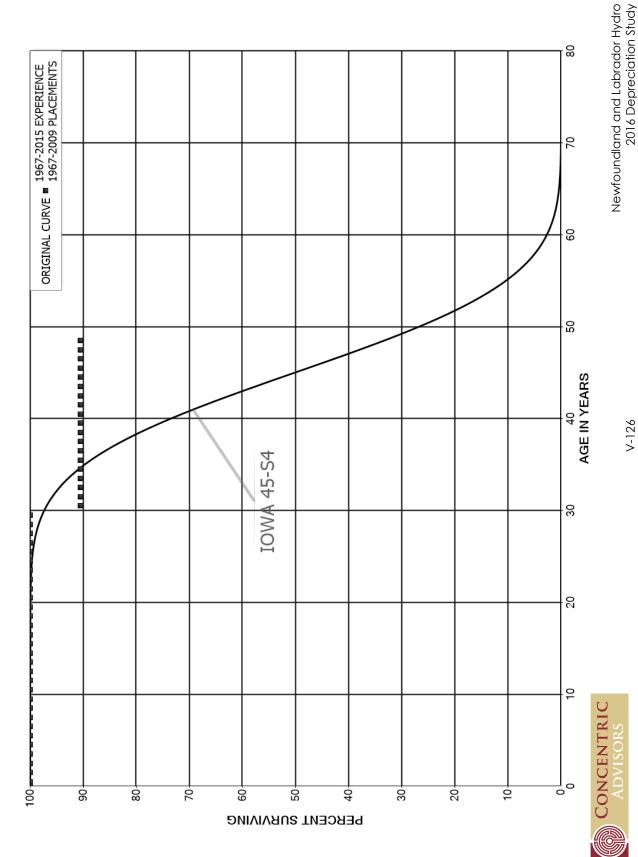
ACCOUNT G04 - GENERATORS - WINDINGS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G05 - GLYCOL SYSTEMS

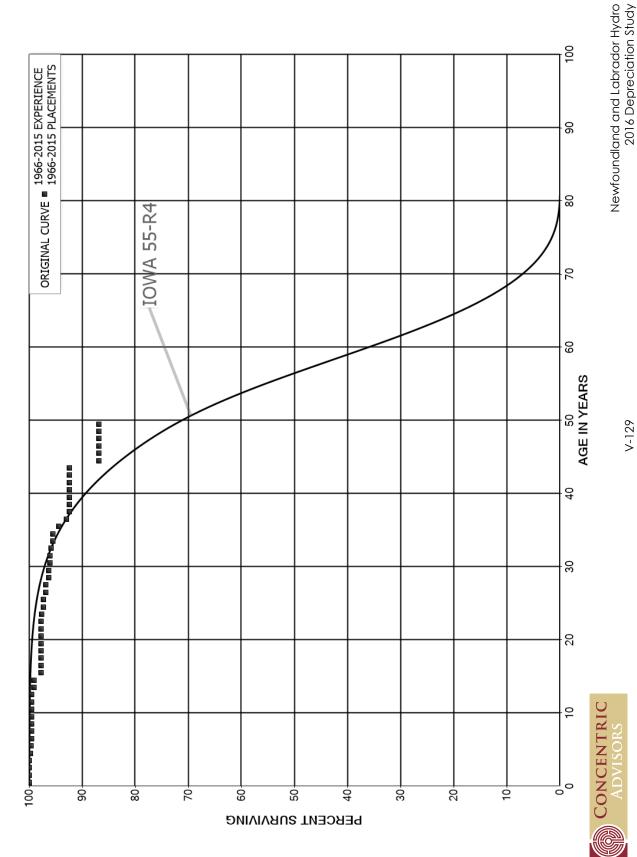


NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT G06 - GOVENORS ORIGINAL AND SMOOTH SURVIVOR CURVES



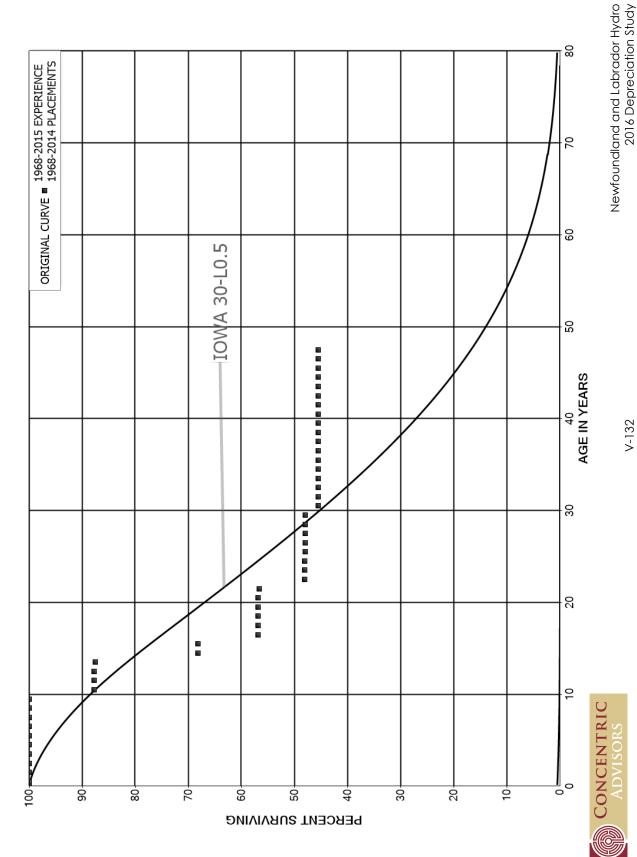
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ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT G07 - GROUND WIRE SYSTEM NEWFOUNDLAND AND LABRADOR HYDRO

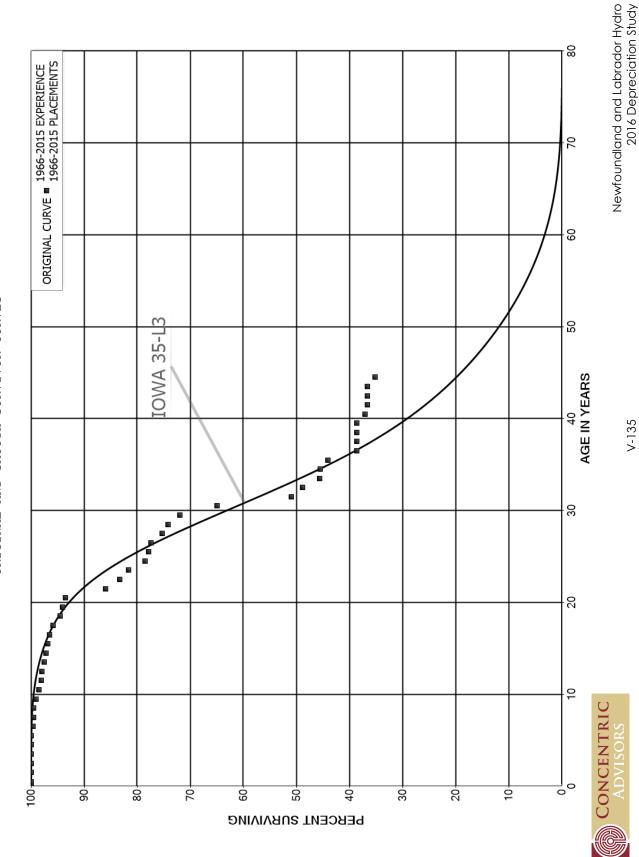


V-132

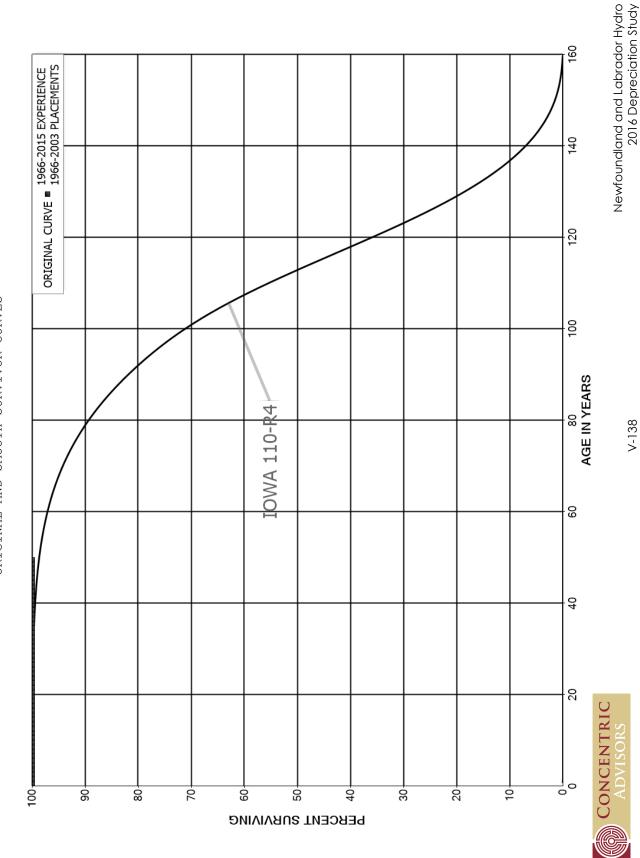
- ECC ACCOUNT 102 - INFORMATION DELIVERY SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



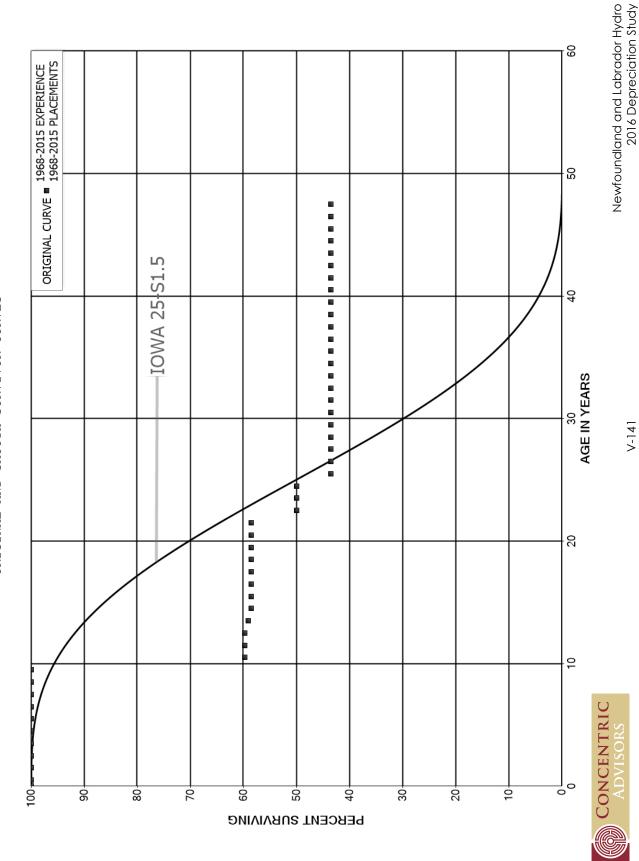
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT 103 - INSTRUMENTATION ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT 104 - INSULATORS ORIGINAL AND SMOOTH SURVIVOR CURVES

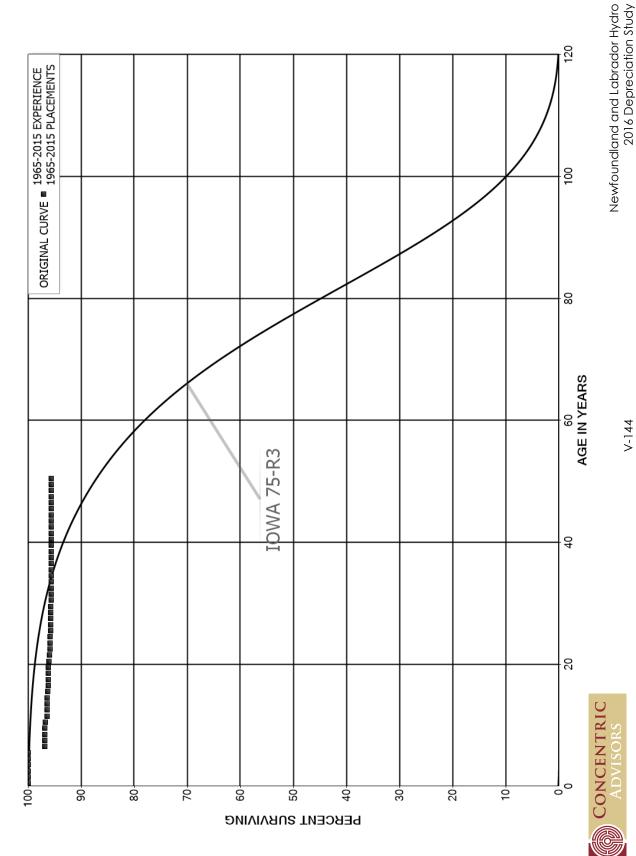


NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT 105 - INTAKE STRUCTURES ORIGINAL AND SMOOTH SURVIVOR CURVES

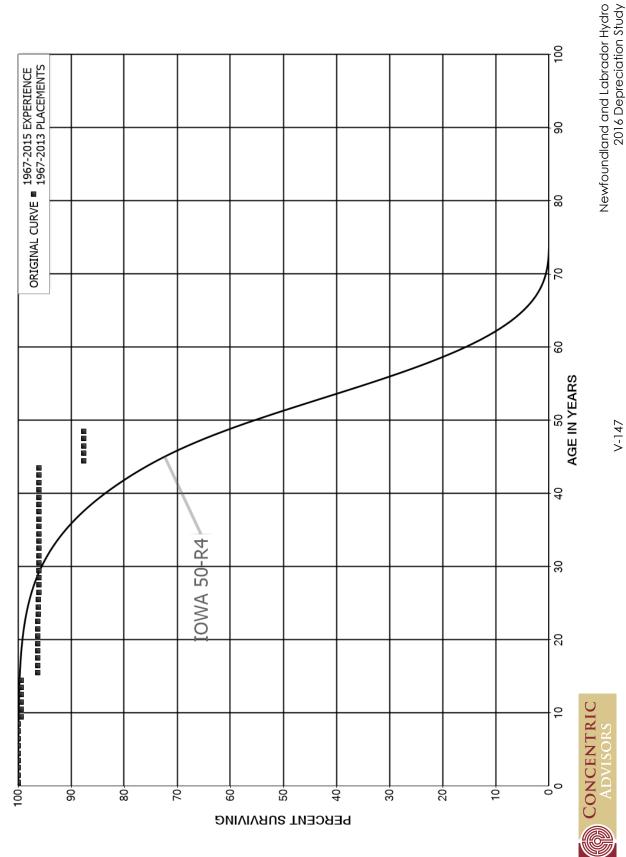


V-144

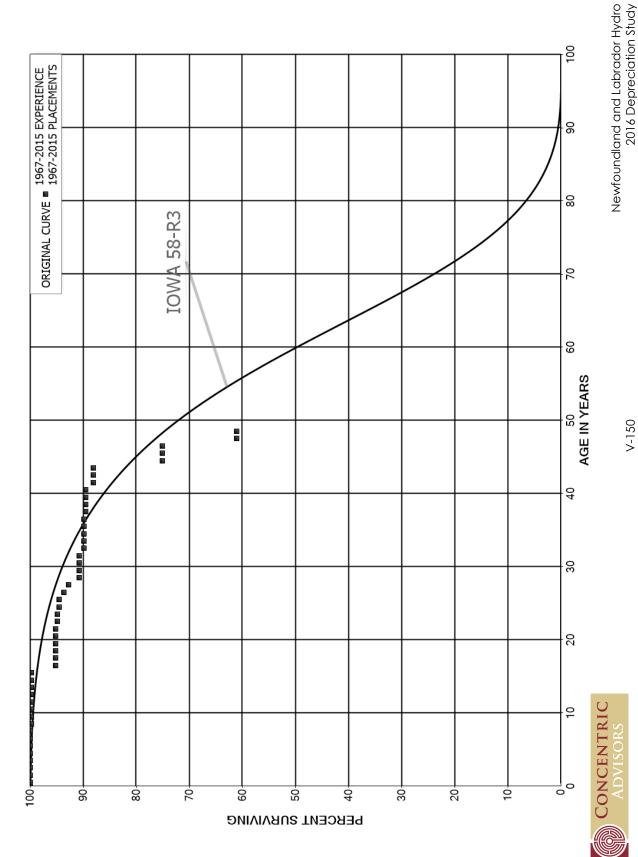
ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT LO3 - LAND IMPROVEMENTS NEWFOUNDLAND AND LABRADOR HYDRO



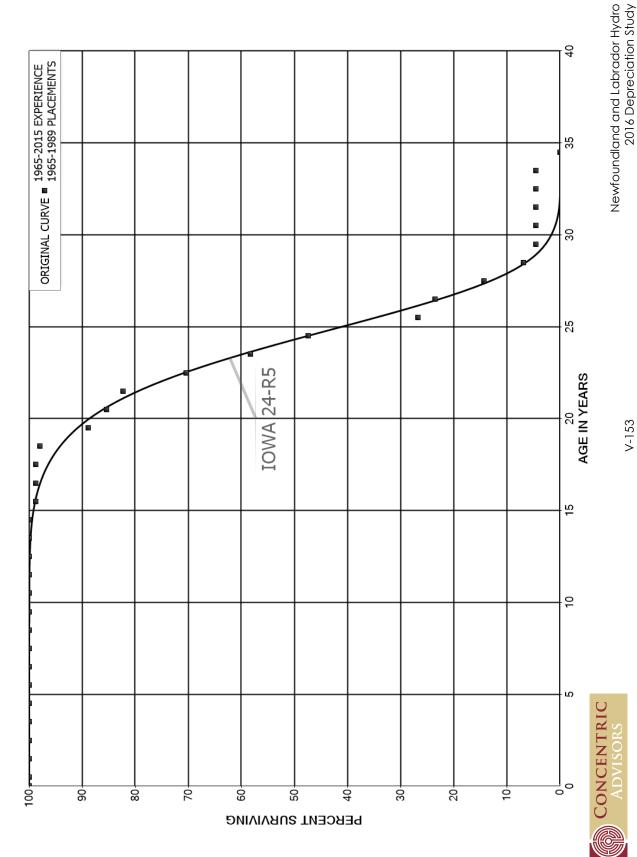
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT LO4 - LIGHTING SYSTEMS



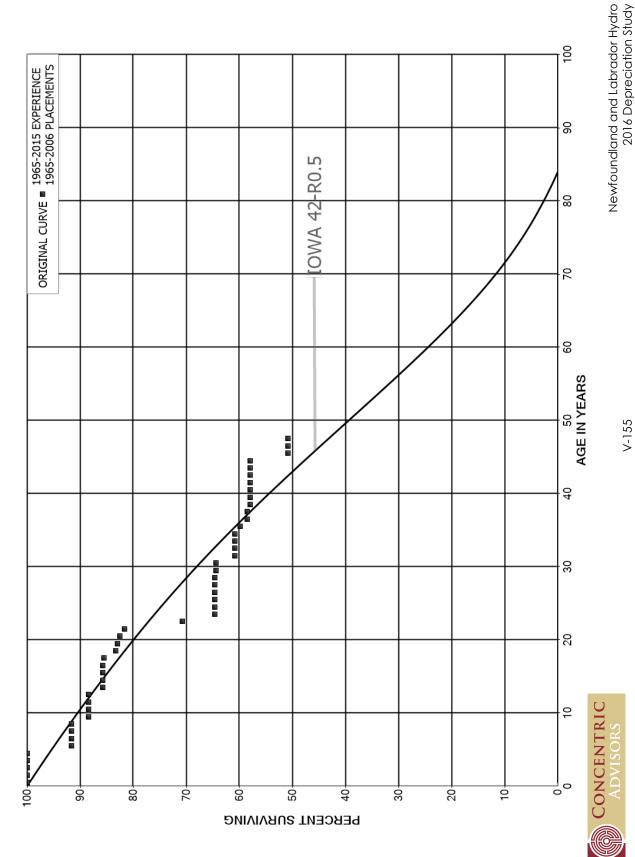
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT LO5 - LIGHTNING ARRESTORS ORIGINAL AND SMOOTH SURVIVOR CURVES



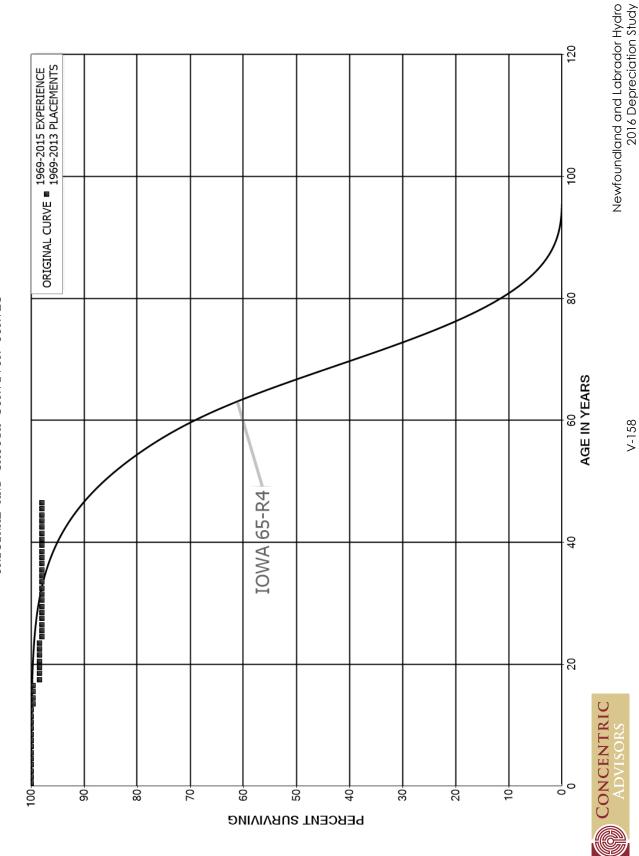
ACCOUNT LO6 - LINE COUPLING EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



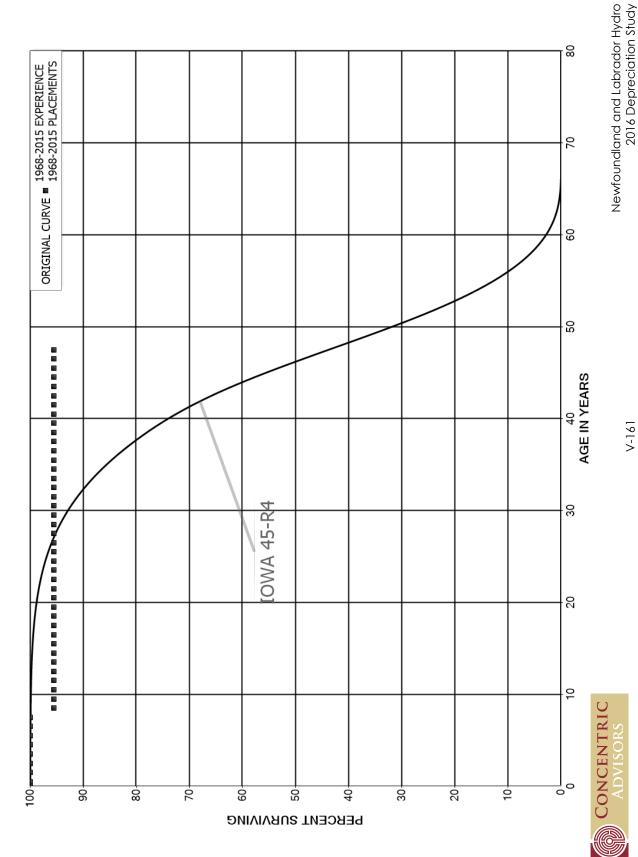
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M01 - MAIN BREAKERS



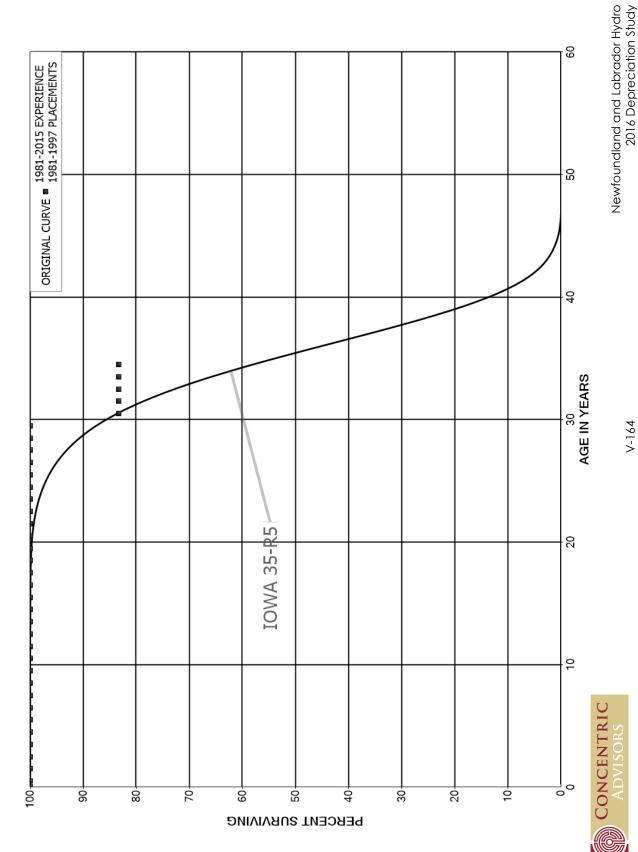
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M02 - MARINE TERMINAL ORIGINAL AND SMOOTH SURVIVOR CURVES



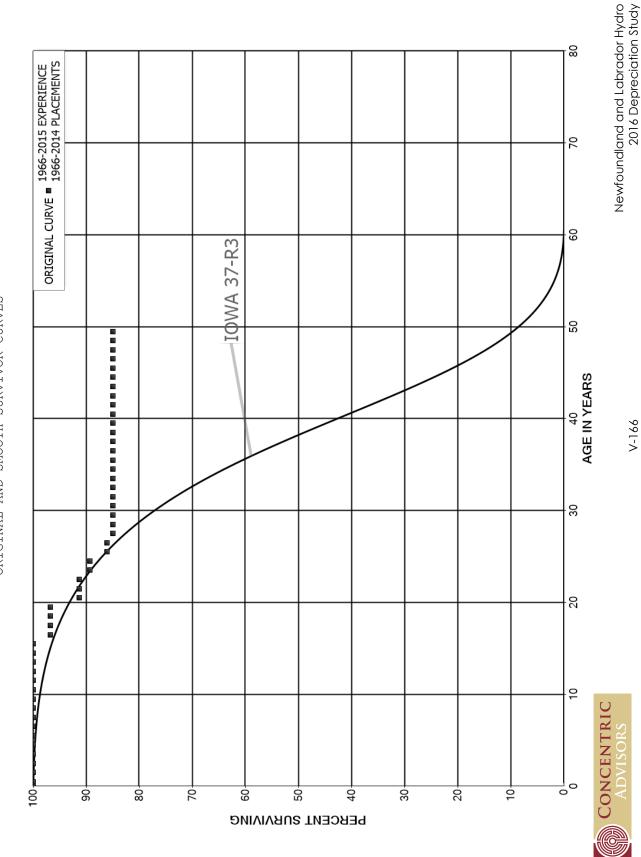
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M03 - METALCLAD SWITCHGEAR CUB/EQU 4kv/600 ORIGINAL AND SMOOTH SURVIVOR CURVES



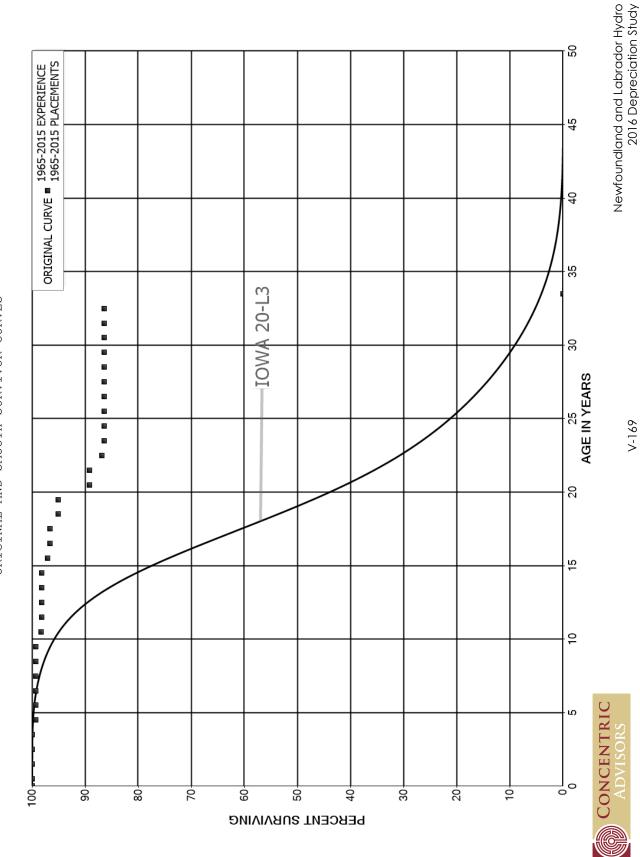
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO4 - METER TEST SWITCHES ORIGINAL AND SMOOTH SURVIVOR CURVES



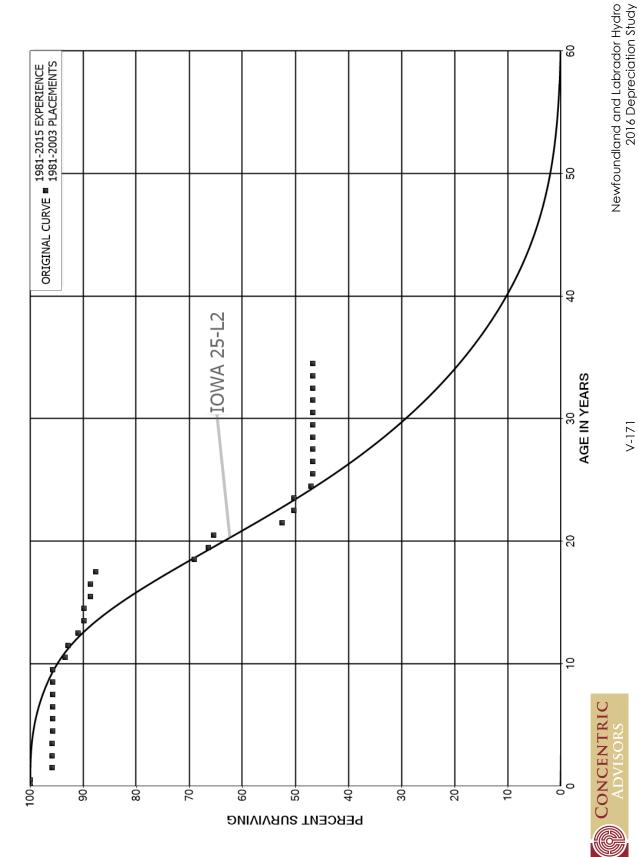
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M05 - METERING TANKS



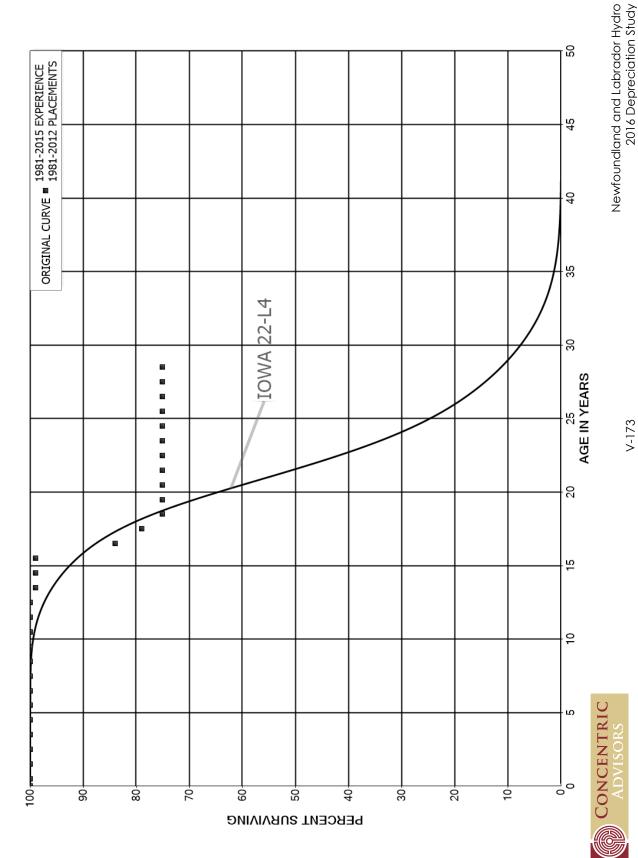
ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO6 - METERS - DIGITAL



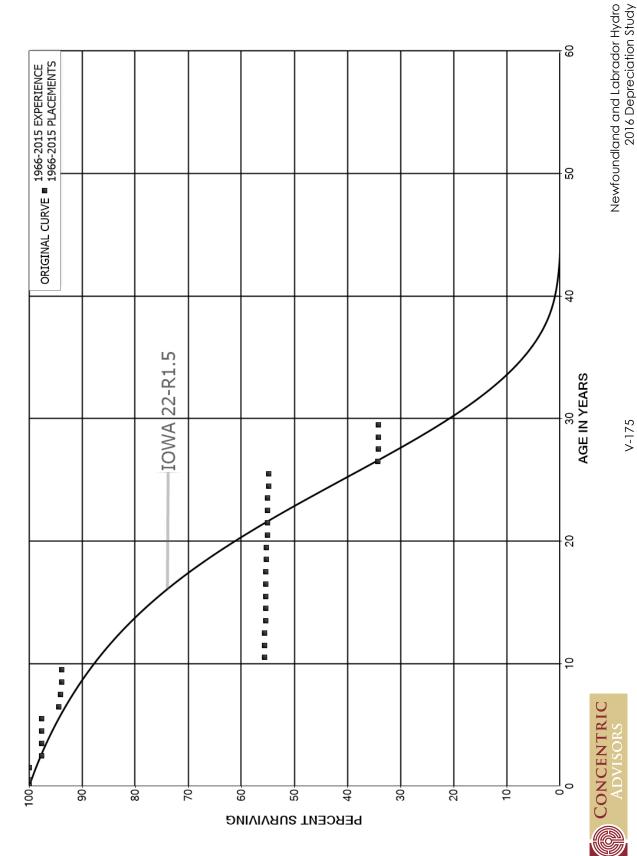
ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT MO7 - METERS - ANALOGUE NEWFOUNDLAND AND LABRADOR HYDRO



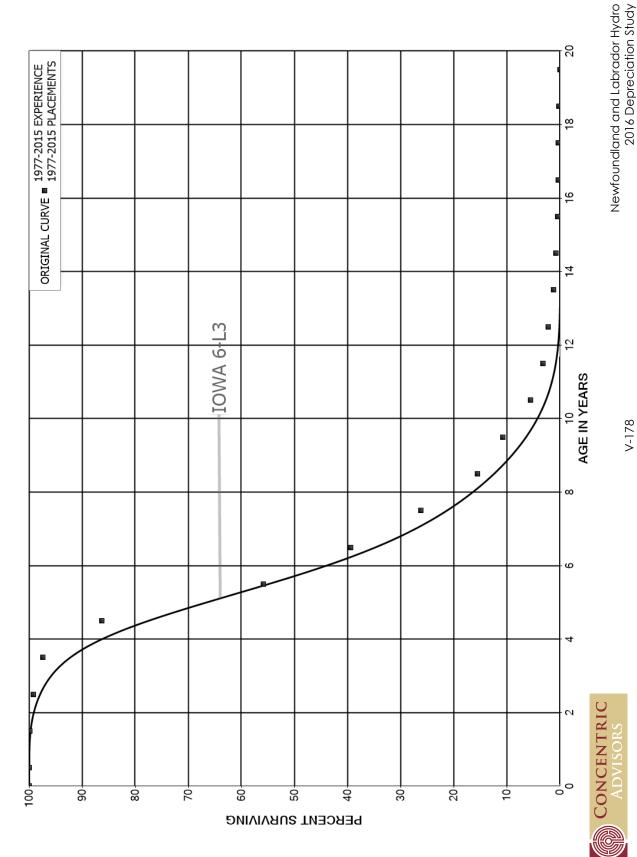
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT MO8 - METERS - OTHER ORIGINAL AND SMOOTH SURVIVOR CURVES



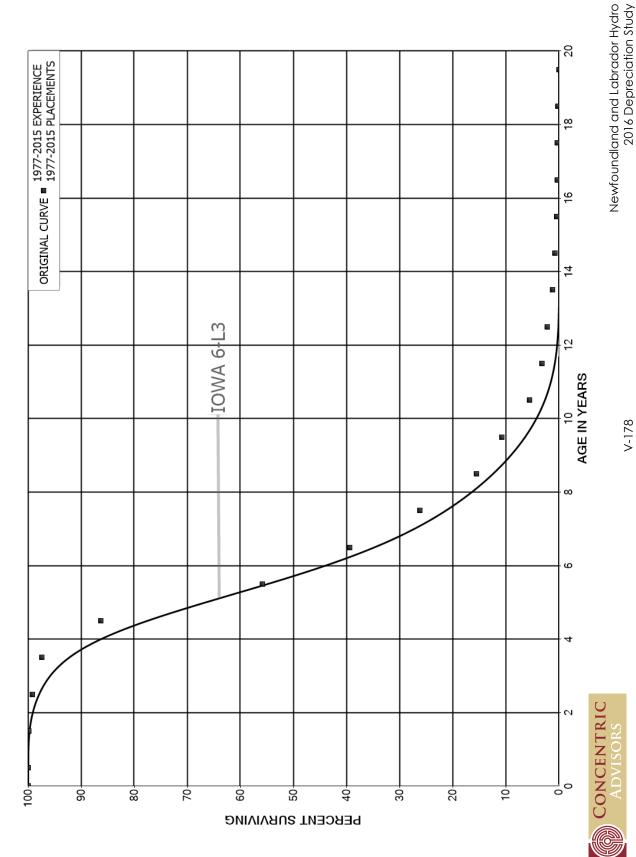
ACCOUNT M10 - MISCELLANEOUS UNITS OF PROPERTY ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



ACCOUNT M11 - MOBILE - A.T.V.'S AND SNOWMOBILES ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



ACCOUNT M11 - MOBILE - A.T.V.'S AND SNOWMOBILES ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



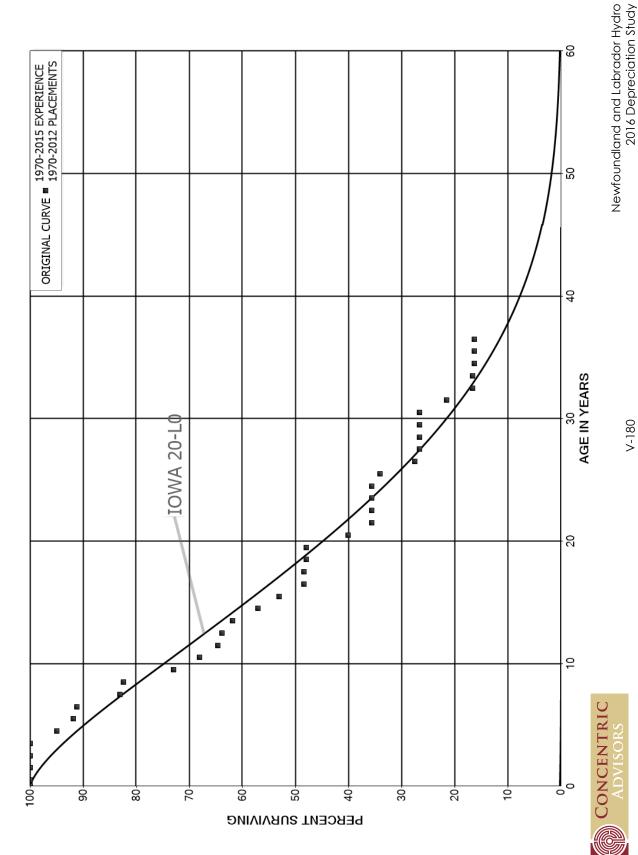
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M11 - MOBILE - A.T.V.'S AND SNOWMOBILES

PLACEMENT 1	BAND 1977-2015		EXPE	RIENCE BAN	D 1977-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	6,061,677 5,845,920 5,557,216 4,716,380 4,549,851 3,873,671 2,415,547 1,545,938 957,240 518,137	9,689 37,144 82,946 519,232 1,366,461 712,674 516,406 392,250 159,155	0.0000 0.0017 0.0067 0.0176 0.1141 0.3528 0.2950 0.3340 0.4098 0.3072	1.0000 0.9983 0.9933 0.9824 0.8859 0.6472 0.7050 0.6660 0.5902 0.6928	100.00 100.00 99.83 99.17 97.42 86.30 55.86 39.38 26.23 15.48
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	358,982 182,710 104,718 73,531 39,598 25,391 12,203 11,133 11,133 6,300	176,273 77,992 31,186 33,933 14,207 13,188 1,071 4,833 6,300	0.4910 0.4269 0.2978 0.4615 0.3588 0.5194 0.0877 0.0000 0.4341 1.0000	0.5090 0.5731 0.7022 0.5385 0.6412 0.4806 0.9123 1.0000 0.5659	10.72 5.46 3.13 2.20 1.18 0.76 0.36 0.33 0.33
19.5					



ACCOUNT M12 - MOBILE - MIR COMPRESSOR, ATTACHMENT AND BOAT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



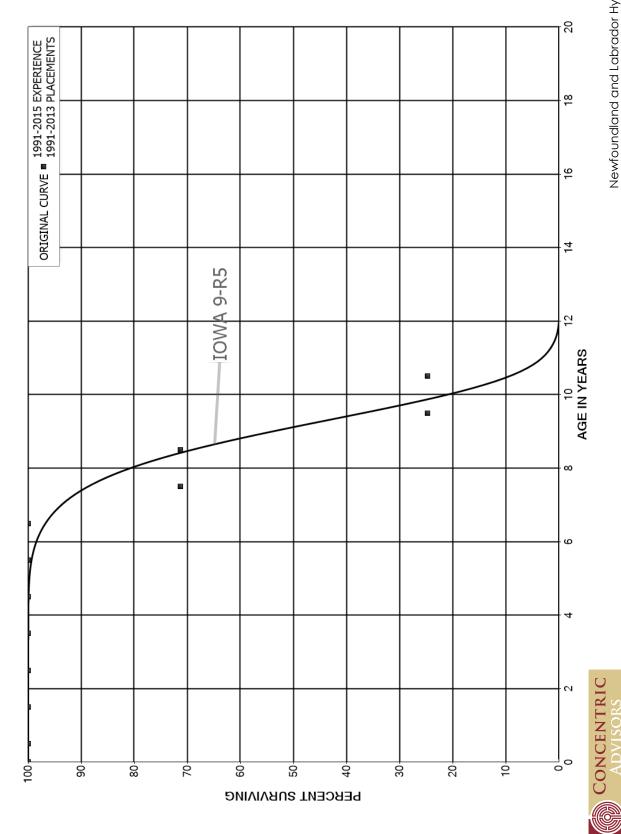
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M12 - MOBILE - MIR COMPRESSOR, ATTACHMENT AND BOAT

PLACEMENT H	BAND 1970-2012		EXPEF	RIENCE BAN	D 1970-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5	1,224,589 1,224,589 1,224,589 1,224,589 1,188,949 1,105,020 1,045,065 959,775 875,275	59,529 37,266 7,416 84,500 8,022	0.0000 0.0000 0.0000 0.0000 0.0501 0.0337 0.0071 0.0880 0.0092	1.0000 1.0000 1.0000 1.0000 0.9499 0.9663 0.9929 0.9120 0.9908	100.00 100.00 100.00 100.00 100.00 94.99 91.79 91.14 83.11
8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5	867,253 755,728 704,839 669,313 661,699 640,312 591,218 531,667 453,233 450,858 434,593	98,926 50,889 35,526 7,614 21,388 49,093 41,556 47,217 3,364	0.1141 0.0673 0.0504 0.0114 0.0323 0.0767 0.0703 0.0888 0.0000 0.0075 0.0000	0.8859 0.9327 0.9496 0.9886 0.9677 0.9233 0.9297 0.9112 1.0000 0.9925 1.0000	82.35 72.96 68.05 64.62 63.88 61.82 57.08 53.06 48.35 48.35 47.99
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	422,611 352,979 309,846 296,362 296,362 296,362 283,449 203,120 163,907 163,907	69,632 39,071 12,913 54,660 6,463	0.1648 0.1107 0.0000 0.0000 0.0000 0.0436 0.1928 0.0318 0.0000 0.0000	0.8352 0.8893 1.0000 1.0000 0.9564 0.8072 0.9682 1.0000 1.0000	47.99 40.08 35.65 35.65 35.65 35.65 34.09 27.52 26.64 26.64
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5	148,497 148,497 120,027 92,316 92,316 87,567	28,470 27,712 1,318	0.0000 0.1917 0.2309 0.0000 0.0143 0.0000 0.0000	1.0000 0.8083 0.7691 1.0000 0.9857 1.0000	26.64 26.64 21.54 16.56 16.56 16.33 16.33



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT M13 - MOBILE - ARGO'S ORIGINAL AND SMOOTH SURVIVOR CURVES



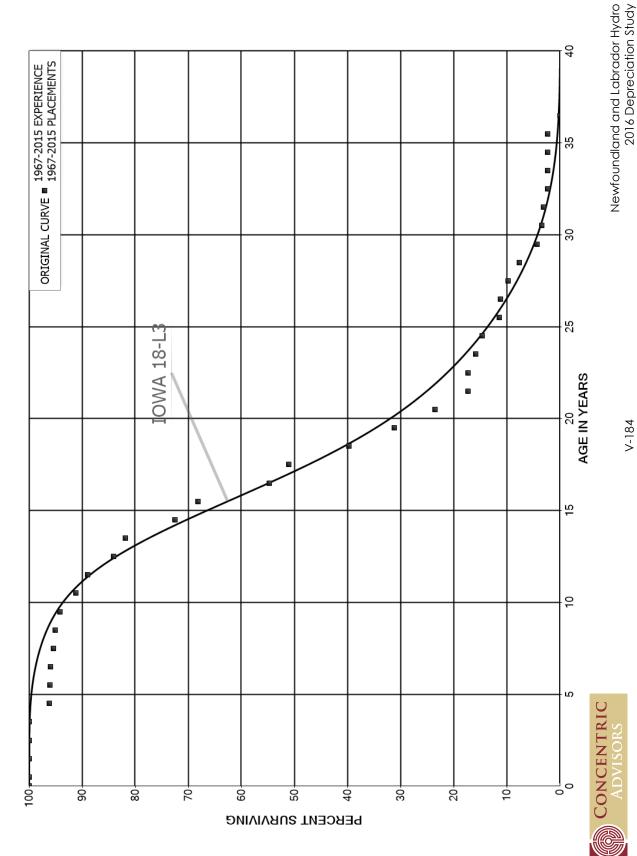
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M13 - MOBILE - ARGO'S

PLACEMENT E	BAND 1991-2013		EXPE	RIENCE BAN	D 1991-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	343,875 343,875 343,875 255,321 195,827 173,588 56,588 40,368 40,368	16,220 26,377	0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.7134 1.0000 0.3466	100.00 100.00 100.00 100.00 100.00 100.00 100.00 71.34 71.34
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	13,991 13,991 13,991 13,991 13,991 13,991 13,991	13,991	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	24.72 24.72 24.72 24.72 24.72 24.72 24.72 24.72



ACCOUNT M14 - MOBILE - FLEX/FORK/LOAD/GRADE/MUSK/TRAILER ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



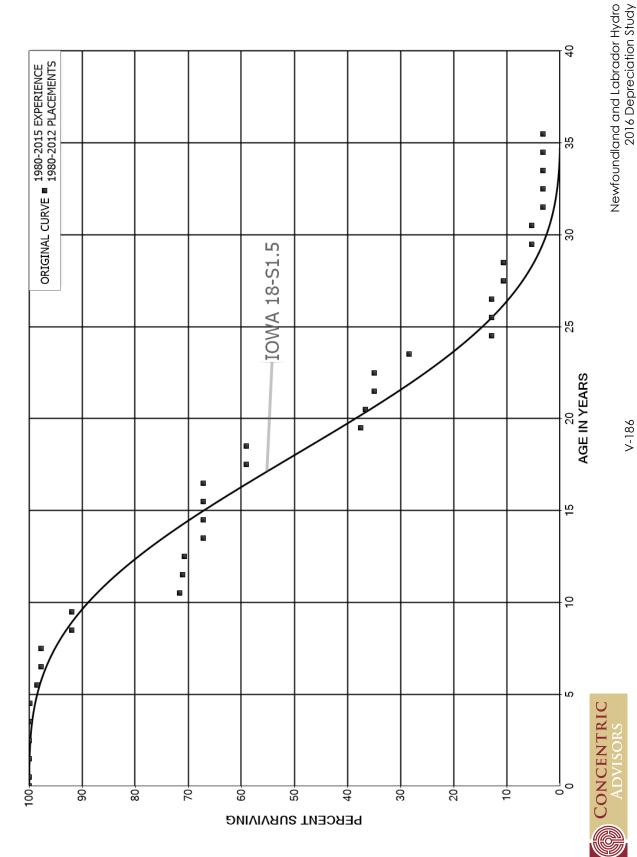
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M14 - MOBILE - FLEX/FORK/LOAD/GRADE/MUSK/TRAILER

PLACEMENT E	BAND 1967-2015		EXPE	D 1967-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	17,876,198 17,492,063 16,005,972 15,642,741 14,813,600 12,476,888 12,113,243 11,249,730 10,011,091 9,586,856	0 9,892 559,521 11,479 11,947 73,783 27,984 95,432	0.0000 0.0000 0.0000 0.0006 0.0378 0.0009 0.0010 0.0066 0.0028 0.0100	1.0000 1.0000 1.0000 0.9994 0.9622 0.9991 0.9990 0.9934 0.9972 0.9900	100.00 100.00 100.00 100.00 99.94 96.16 96.07 95.98 95.35 95.08
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	8,869,152 8,261,883 7,928,206 7,472,133 7,092,222 5,998,929 5,423,264 4,068,796 3,427,048 2,663,084	279,013 197,041 440,074 200,225 810,533 353,540 1,070,658 270,498 763,964 571,122	0.0315 0.0238 0.0555 0.0268 0.1143 0.0589 0.1974 0.0665 0.2229 0.2145	0.9685 0.9762 0.9445 0.9732 0.8857 0.9411 0.8026 0.9335 0.7771	94.14 91.17 89.00 84.06 81.81 72.46 68.19 54.73 51.09 39.70
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,091,962 1,543,051 1,138,762 1,096,786 861,199 795,030 575,470 478,531 284,228 222,025	518,478 404,290 4,981 90,283 66,170 175,879 10,742 59,596 62,203 97,733	0.2478 0.2620 0.0044 0.0823 0.0768 0.2212 0.0187 0.1245 0.2188 0.4402	0.7522 0.7380 0.9956 0.9177 0.9232 0.7788 0.9813 0.8755 0.7812 0.5598	31.19 23.46 17.31 17.24 15.82 14.60 11.37 11.16 9.77 7.63
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	124,292 97,813 77,352 55,874 45,230 2,486 2,486	26,479 7,383 21,478 0 2,486	0.2130 0.0755 0.2777 0.0000 0.0000 1.0000 1.0000 1.0000	0.7870 0.9245 0.7223 1.0000 1.0000 0.0000 1.0000	4.27 3.36 3.11 2.25 2.25 2.25 2.25 0.00 0.00



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT M16 - MULTIPLEX EQUIPMENT NEWFOUNDLAND AND LABRADOR HYDRO



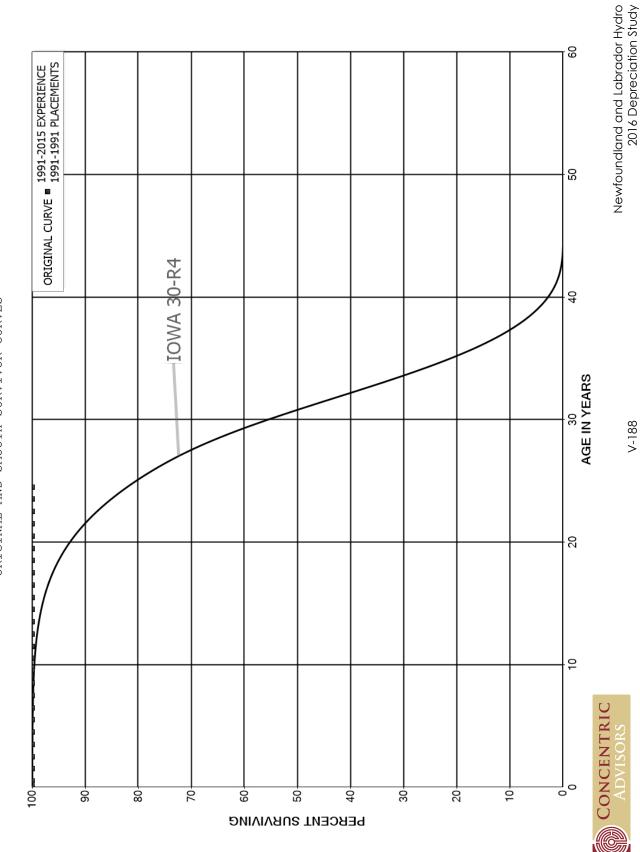
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M16 - MULTIPLEX EQUIPMENT

PLACEMENT E	BAND 1980-2012		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5	5,919,915 5,919,915 5,919,915 5,919,915 5,730,526	9,167	0.0000 0.0000 0.0000 0.0015 0.0000	1.0000 1.0000 1.0000 0.9985 1.0000	100.00 100.00 100.00 100.00 99.85
4.5 5.5 6.5 7.5 8.5	5,718,497 5,148,445 5,104,468 4,965,470 4,675,342	74,748 43,977 290,128	0.0131 0.0085 0.0000 0.0584 0.0000	0.9869 0.9915 1.0000 0.9416 1.0000	99.85 98.54 97.70 97.70 91.99
9.5 10.5 11.5 12.5 13.5 14.5	4,675,342 3,578,900 3,545,061 2,920,159 2,416,439 1,679,635 1,571,171	1,033,622 29,019 15,324 149,749	0.2211 0.0081 0.0043 0.0513 0.0000 0.0000	0.7789 0.9919 0.9957 0.9487 1.0000 1.0000	91.99 71.65 71.07 70.76 67.14 67.14 67.14
16.5 17.5 18.5	1,533,979 1,349,204 1,349,204	184,775 492,737	0.1205 0.0000 0.3652	0.8795 1.0000 0.6348	67.14 59.05 59.05
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	856,467 836,113 798,525 798,525 648,861 294,351 294,351 294,351 242,253 242,253	20,354 37,588 149,665 354,510 52,098 121,314	0.0238 0.0450 0.0000 0.1874 0.5464 0.0000 0.1770 0.0000 0.5008	0.9762 0.9550 1.0000 0.8126 0.4536 1.0000 1.0000 0.8230 1.0000 0.4992	37.48 36.59 34.95 34.95 28.40 12.88 12.88 12.88 10.60 10.60
29.5 30.5 31.5 32.5 33.5 34.5 35.5	120,939 120,939 72,015 72,015 72,015 72,015	48,924	0.0000 0.4045 0.0000 0.0000 0.0000	1.0000 0.5955 1.0000 1.0000 1.0000	5.29 5.29 3.15 3.15 3.15 3.15 3.15



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT P01 - P.C.B. STORAGE CONTAINER ORIGINAL AND SMOOTH SURVIVOR CURVES



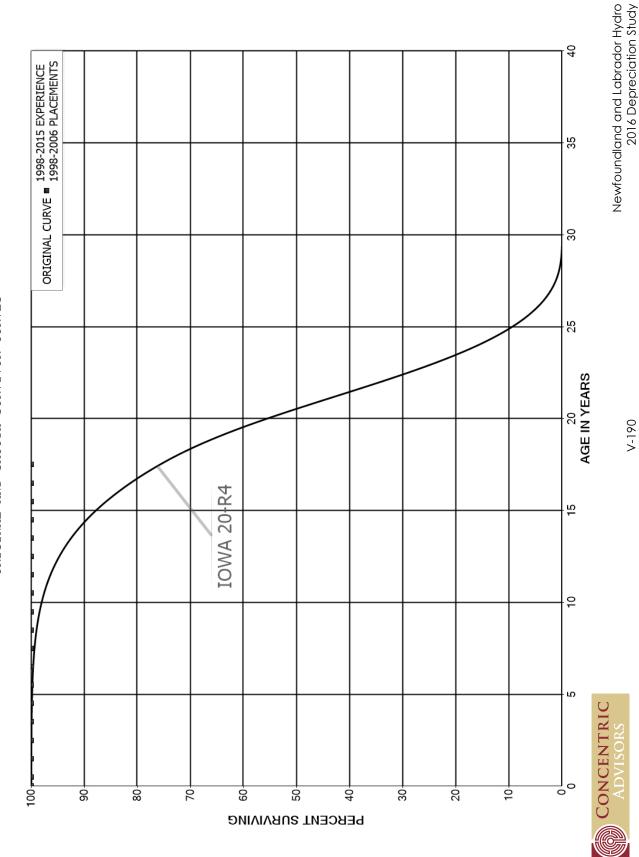
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P01 - P.C.B. STORAGE CONTAINER

PLACEMENT E	BAND 1991-1991		EXPER	RIENCE BAN	D 1991-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	42,480 42,480 42,480 42,480 42,480 42,480 42,480 42,480 42,480		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	42,480 42,480 42,480 42,480 42,480 42,480 42,480 42,480 42,480		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5	42,480 42,480 42,480 42,480 42,480		0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00



ACCOUNT PO2 - PRIVATE AUTO BRANCH EXCHANGE ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



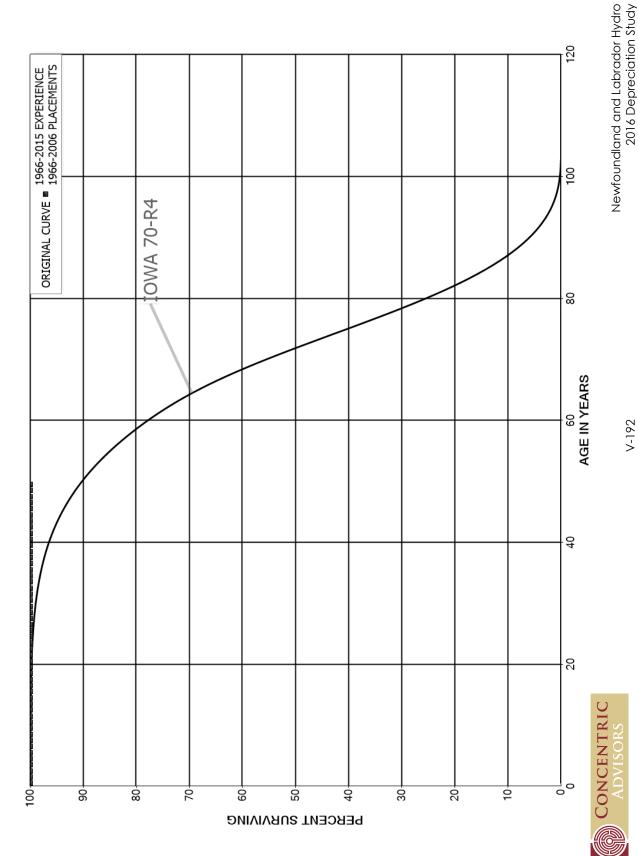
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P02 - PRIVATE AUTO BRANCH EXCHANGE

PLACEMENT H	EXPER	RIENCE BAN	D 1998-2015		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,181,009 1,181,009 1,181,009 1,181,009 1,181,009 1,181,009 1,181,009 1,181,009 1,181,009		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5	380,481 380,481 380,481 296,149 296,149 296,149 37,492 37,492		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT PO3 - PENSTOCK



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P03 - PENSTOCK

PLACEMENT	BAND 1966-2006		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	58,908,421 58,908,421 58,908,421 58,908,421 58,908,421 58,908,421 58,908,421 58,908,421 58,908,421 58,908,421		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	56,760,952 56,760,952 56,760,952 50,028,727 50,028,727 50,028,727 50,028,727 50,028,727 50,028,727		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	50,028,727 50,028,727 50,028,727 50,028,727 50,028,727 50,028,727 50,028,727 49,614,170 49,614,170		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	49,614,170 44,923,599 44,923,599 44,923,599 31,951,196 31,951,196 31,951,196 20,920,528 20,920,528 20,920,528		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO

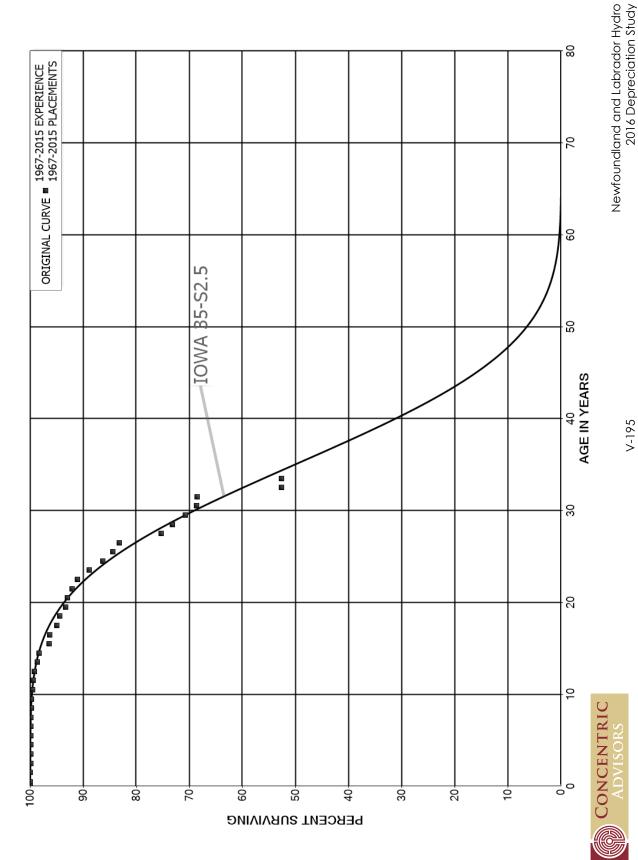
ACCOUNT P03 - PENSTOCK

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1966-2006 EXPERIENCE BAND 19					D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	20,920,528 20,920,528 20,920,528 20,920,528 20,920,528 20,920,528 20,569,173 20,569,173 13,597,173		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
49.5					100.00



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT PO4 - POLE CRIBS AND POLE HARDWARE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P04 - POLE CRIBS AND POLE HARDWARE

PLACEMENT	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	128,071,519 119,928,189 118,045,861 101,937,882 94,281,980 87,193,005 82,148,886 76,504,284 70,791,042 66,769,994	13,079 1,409 168,412 334 3,838 1,365 2,253 10,701 47,163 4,606	0.0001 0.0000 0.0014 0.0000 0.0000 0.0000 0.0000 0.0001 0.0007	0.9999 1.0000 0.9986 1.0000 1.0000 1.0000 0.9999 0.9993	100.00 99.99 99.99 99.85 99.85 99.84 99.84 99.84 99.82 99.76
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5	62,228,255 58,629,230 54,976,388 51,531,940 46,527,439 43,999,472 41,095,562 39,645,688 37,239,882 32,118,454	136,209 49,983 178,942 269,870 128,839 853,523 77,359 527,125 236,143 361,539	0.0022 0.0009 0.0033 0.0052 0.0028 0.0194 0.0019 0.0133 0.0063 0.0113	0.9978 0.9991 0.9967 0.9948 0.9972 0.9806 0.9981 0.9867 0.9937 0.9887	99.75 99.53 99.45 99.12 98.60 98.33 96.42 96.24 94.96 94.36
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	29,123,498 27,171,095 25,324,911 23,751,430 22,068,413 19,674,036 17,480,564 15,521,387 12,892,687 10,381,049	90,892 266,486 281,449 587,323 627,221 431,812 263,135 1,473,870 360,356 345,037	0.0031 0.0098 0.0111 0.0247 0.0284 0.0219 0.0151 0.0950 0.0280 0.0332	0.9969 0.9902 0.9889 0.9753 0.9716 0.9781 0.9849 0.9050 0.9720 0.9668	93.30 93.01 92.09 91.07 88.82 86.29 84.40 83.13 75.24 73.13
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	8,842,401 7,850,257 6,935,636 4,603,834 3,174,930 111,582 101,148 99,734 83,544 80,092	255,623 18,235 1,604,104 621 2,029 10,434 4,429 3,452	0.0289 0.0023 0.2313 0.0001 0.0006 0.0935 0.0000 0.0444 0.0413	0.9711 0.9977 0.7687 0.9999 0.9994 0.9065 1.0000 0.9556 0.9587 1.0000	70.70 68.66 68.50 52.66 52.65 52.62 47.70 47.70 45.58 43.69



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P04 - POLE CRIBS AND POLE HARDWARE

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1967-2015 EXPERIENCE BAND 1967-20					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	80,092 78,932 78,932 78,932 78,932 78,932 1,845	1,160	0.0145 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9855 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	43.69 43.06 43.06 43.06 43.06 43.06 43.06 43.06



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT PO5 - POLE STRUCTURES - WOOD ORIGINAL AND SMOOTH SURVIVOR CURVES

Newfoundland and Labrador Hydro 2016 Depreciation Study 100 ORIGINAL CURVE ■ 1965-2015 EXPERIENCE 1960-2015 PLACEMENTS 9 IOWA 57-R3 8 2 9 AGE IN YEARS 40 က္ထ 20 CONCENTRIC 9 1001 9 8 4 2 6 9 50 30 9 РЕВСЕИТ SURVIVING

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P05 - POLE STRUCTURES - WOOD

PLACEMENT 1	BAND 1960-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	135,794,090 131,957,484 127,172,604 124,343,720 121,844,733 118,272,859 117,568,751 114,509,260 111,437,597 110,933,863	337,672 12,298 112,436 13,981 212,848 16,188 35,151	0.0000 0.0000 0.0027 0.0000 0.0001 0.0010 0.0019 0.0001 0.0003	1.0000 1.0000 0.9973 1.0000 0.9999 0.9999 0.9999 0.9999 0.9981 0.9999 0.9997	100.00 100.00 100.00 99.73 99.72 99.63 99.62 99.43 99.42
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	106,346,800 103,596,673 103,141,550 98,855,866 97,646,721 93,443,406 86,662,267 86,162,302 82,915,154 82,464,363	234,549 102,297 418,135 166,301 28,403	0.0022 0.0000 0.0000 0.0010 0.0000 0.0000 0.0048 0.0000 0.0020 0.0003	0.9978 1.0000 1.0000 0.9990 1.0000 1.0000 0.9952 1.0000 0.9980 0.9997	99.39 99.17 99.17 99.17 99.06 99.06 99.06 98.59 98.59 98.39
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	76,421,769 72,949,918 72,737,944 72,582,415 72,311,898 72,013,176 48,011,423 46,962,028 43,941,372 38,765,136	444,290 96,255 28,205 127,411 75,469 67,071 463,896 380,463 368,422 428,013	0.0058 0.0013 0.0004 0.0018 0.0010 0.0009 0.0097 0.0081 0.0084 0.0110	0.9942 0.9987 0.9996 0.9982 0.9990 0.9991 0.9903 0.9919 0.9916 0.9890	98.36 97.78 97.65 97.62 97.45 97.34 97.25 96.31 95.53 94.73
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	38,167,539 36,025,707 35,575,825 29,055,987 22,184,602 16,158,260 15,288,343 15,282,951 9,302,607 8,744,708	100,429 6,855 731,323 21,318 7,549 2,301 1,480 380,974 268,297 82,696	0.0026 0.0002 0.0206 0.0007 0.0003 0.0001 0.0001 0.0249 0.0288 0.0095	0.9974 0.9998 0.9794 0.9993 0.9997 0.9999 0.9751 0.9712 0.9905	93.69 93.44 93.42 91.50 91.43 91.39 91.38 89.10 86.53



NEWFOUNDLAND AND LABRADOR HYDRO

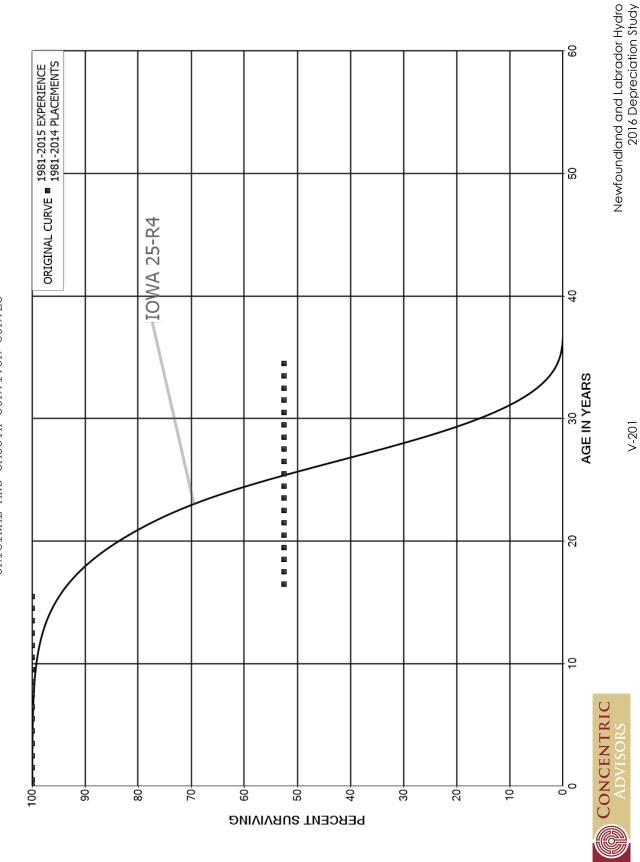
ACCOUNT P05 - POLE STRUCTURES - WOOD

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2015 EXI				RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	8,550,283 8,448,254 5,360,936 5,336,658 5,336,658 5,269,090 2,475,936 2,055,270 1,368,472	97,486 277,795 24,278 46,880 12,661	0.0114 0.0329 0.0045 0.0000 0.0088 0.0024 0.0000 0.0000	0.9886 0.9671 0.9955 1.0000 0.9912 0.9976 1.0000 1.0000	85.71 84.74 81.95 81.58 81.58 80.86 80.67 80.67 80.67



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT P06 - POLES - CONCRETE ORIGINAL AND SMOOTH SURVIVOR CURVES



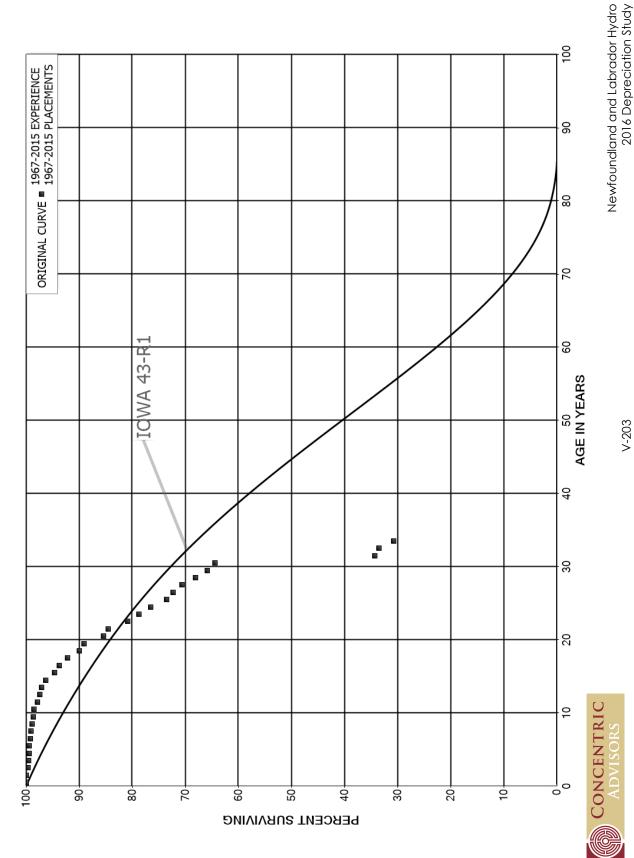
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P06 - POLES - CONCRETE

PLACEMENT 1	BAND 1981-2014		EXPE	RIENCE BAN	D 1981-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	599,885 599,885 575,788 575,788 575,788 575,788 575,788 575,788 575,788		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	575,788 560,013 560,013 560,013 560,013 560,013 293,316 293,316 291,677	266,125	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.4752 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.5248 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 52.48 52.48
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	291,677 291,677 257,201 257,201 257,201 257,201 234,066 234,066 234,066 223,750		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	52.48 52.48 52.48 52.48 52.48 52.48 52.48 52.48 52.48 52.48
29.5 30.5 31.5 32.5 33.5 34.5	154,611 154,611 95,671 95,671 23,208		0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000	52.48 52.48 52.48 52.48 52.48 52.48



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT P07 - POLES - WOOD



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P07 - POLES - WOOD

PLACEMENT E	BAND 1967-2015		EXPERIENCE BAND 1967-2		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	83,580,934 75,308,999 70,556,380 65,541,762 61,689,873 59,162,963 52,735,804 51,224,152 49,210,897 47,056,044	40,059 28,423 208,455 68,646 67,574 26,767 71,829 103,083 111,679 84,825	0.0005 0.0004 0.0030 0.0010 0.0011 0.0005 0.0014 0.0020 0.0023 0.0018	0.9995 0.9996 0.9970 0.9990 0.9989 0.9995 0.9986 0.9980 0.9977 0.9982	100.00 99.95 99.91 99.62 99.51 99.41 99.36 99.23 99.03 98.80
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	42,734,152 40,720,690 39,030,080 37,359,461 30,921,577 29,403,583 27,747,417 26,544,727 24,944,338 22,387,909	66,534 260,085 156,707 164,429 246,717 510,161 251,517 447,461 607,529 205,456	0.0016 0.0064 0.0040 0.0044 0.0080 0.0174 0.0091 0.0169 0.0244 0.0092	0.9984 0.9936 0.9960 0.9956 0.9920 0.9826 0.9909 0.9831 0.9756 0.9908	98.62 98.47 97.84 97.45 97.02 96.24 94.57 93.72 92.14 89.89
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	20,605,159 18,792,449 17,257,295 15,575,912 14,395,418 13,166,348 11,654,551 9,848,035 8,679,615 7,265,878	861,043 196,789 728,894 423,108 399,475 510,198 199,912 224,445 312,730 235,291	0.0418 0.0105 0.0422 0.0272 0.0278 0.0388 0.0172 0.0228 0.0360 0.0324	0.9582 0.9895 0.9578 0.9728 0.9722 0.9612 0.9828 0.9772 0.9640 0.9676	89.07 85.35 84.45 80.89 78.69 76.51 73.54 72.28 70.63 68.09
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,128,894 5,854,651 2,686,461 2,282,571 1,604,053 25,456 25,456 25,169 21,294 19,365	142,688 2,737,687 55,829 191,717 25,151 954 1,929 527	0.0233 0.4676 0.0208 0.0840 0.0157 0.0000 0.0000 0.0379 0.0906 0.0272	0.9767 0.5324 0.9792 0.9160 0.9843 1.0000 1.0000 0.9621 0.9094 0.9728	65.88 64.35 34.26 33.55 30.73 30.25 30.25 30.25 29.10 26.46



NEWFOUNDLAND AND LABRADOR HYDRO

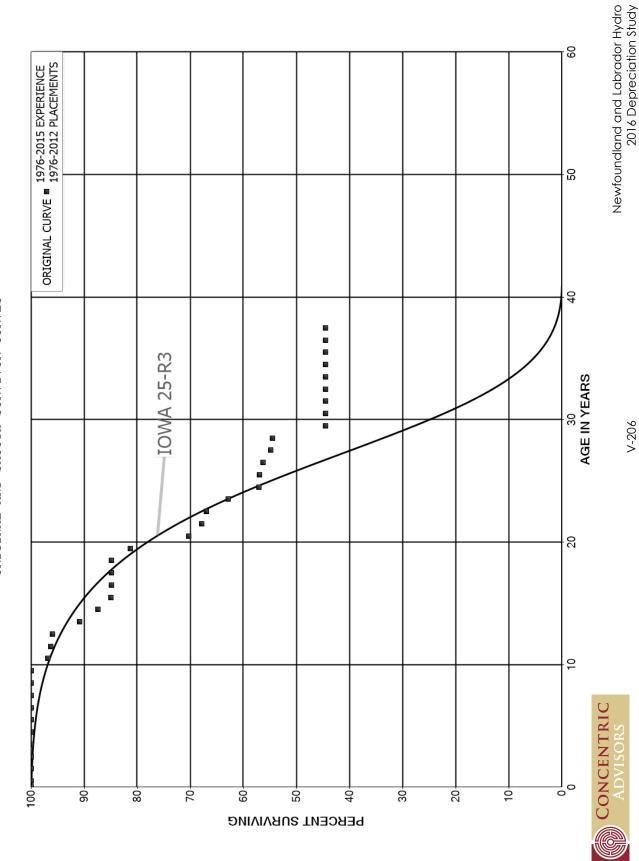
ACCOUNT P07 - POLES - WOOD

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1967-2015 EXPERIENCE BAND 1967-201					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5	18,839 18,839 18,839 18,839 18,839 1,430		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	25.75 25.75 25.75 25.75 25.75 25.75 25.75
46.5 47.5	1,430		0.0000	1.0000	25.75 25.75



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT PO8 - POWER LINE CARRIER ORIGINAL AND SMOOTH SURVIVOR CURVES



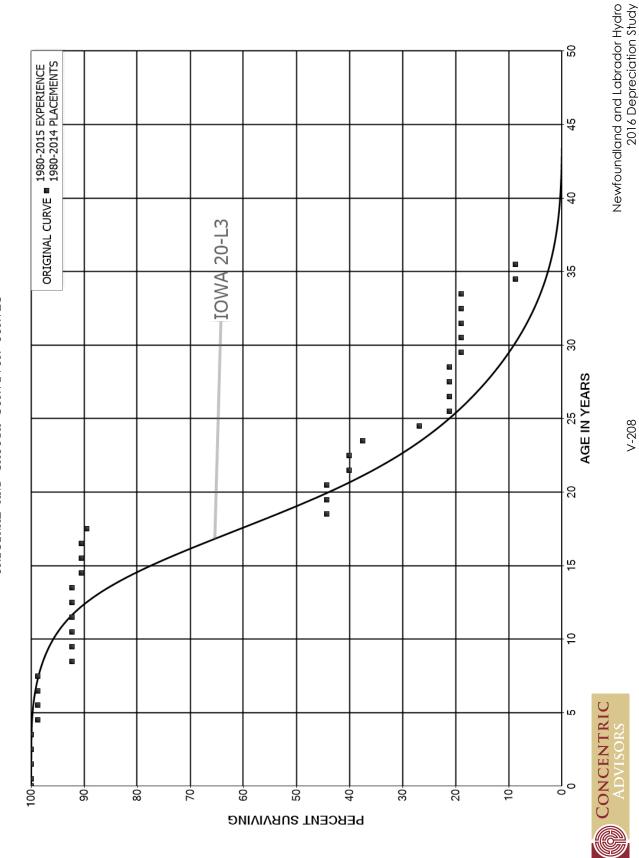
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT PO8 - POWER LINE CARRIER

PLACEMENT BAND 1976-2012		EXPER	RIENCE BAN	D 1976-2015
AGE AT EXPOSURES AT BEGIN OF BEGINNING OF INTERVAL AGE INTERVAL	DURING AGE	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 6,720,29 0.5 6,720,29 1.5 6,720,29 2.5 6,720,29 3.5 6,709,54 4.5 6,709,54 5.5 6,709,54 6.5 6,358,27 7.5 5,989,72 8.5 5,988,98	5 5 5 5 5 5 7 4 744	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9999 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.99
9.5 5,988,98 10.5 5,803,21 11.5 5,482,02 12.5 5,203,75 13.5 4,328,81 14.5 4,167,73 15.5 2,882,81 16.5 2,345,65 17.5 2,345,65 18.5 2,345,65	7 34,114 9 20,092 7 280,286 6 161,080 116,380 3 4,683	0.0310 0.0059 0.0037 0.0539 0.0372 0.0279 0.0016 0.0000 0.0000	0.9690 0.9941 0.9963 0.9461 0.9628 0.9721 0.9984 1.0000 1.0000 0.9583	99.99 96.89 96.32 95.96 90.79 87.42 84.98 84.84 84.84
19.5 2,132,11 20.5 1,524,03 21.5 1,469,88 22.5 1,452,31 23.5 1,362,91 24.5 1,237,85 25.5 1,232,57 26.5 1,218,37 27.5 1,187,76 28.5 1,180,76	4 54,146 8 17,575 8 89,404 0 125,054 6 3,286 14,196 7 30,612 4 6,999 5 216,792	0.1353 0.0355 0.0120 0.0616 0.0918 0.0027 0.0115 0.0251 0.0059 0.1836	0.8647 0.9645 0.9880 0.9384 0.9082 0.9973 0.9885 0.9749 0.9941 0.8164	81.30 70.31 67.81 67.00 62.87 57.10 56.95 56.30 54.88 54.56
29.5 963,97 30.5 962,58 31.5 962,58 32.5 962,58 33.5 952,43 34.5 952,43 35.5 50,79 36.5 50,79	3 3 8 7 7 5	0.0014 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9986 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	44.54 44.48 44.48 44.48 44.48 44.48 44.48 44.48



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT P09 - POWER SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



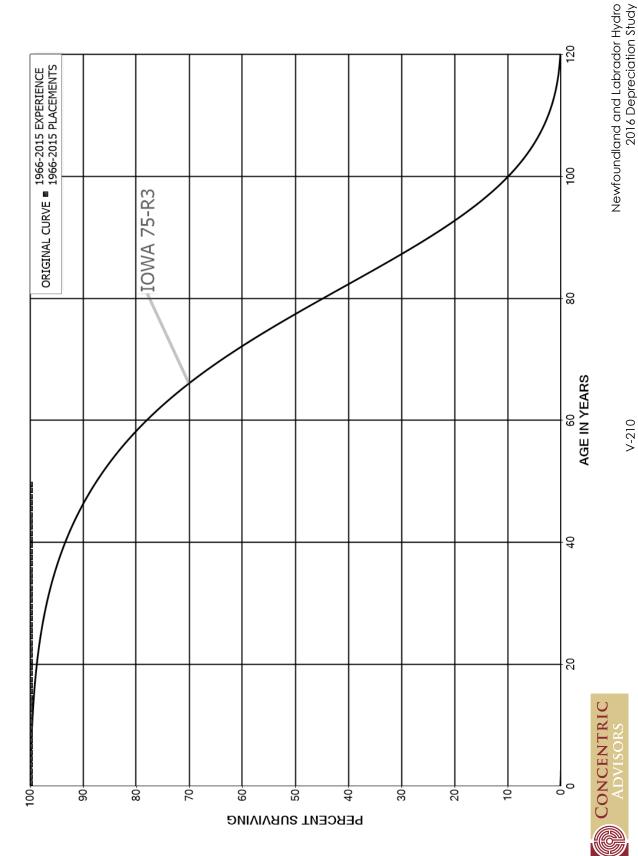
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P09 - POWER SYSTEMS

PLACEMENT	BAND 1980-2014		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	804,033 804,033 790,242 742,503 719,393 710,534 710,534 710,534 685,630 639,484	8,858 45,059	0.0000 0.0000 0.0000 0.0000 0.0123 0.0000 0.0000 0.0000 0.0657 0.0000	1.0000 1.0000 1.0000 1.0000 0.9877 1.0000 1.0000 0.9343 1.0000	100.00 100.00 100.00 100.00 100.00 98.77 98.77 98.77 98.77 92.28
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	543,189 543,189 513,756 139,320 139,320 136,647 129,219 124,816 120,687 30,507	2,673 1,456 60,879	0.0000 0.0000 0.0000 0.0000 0.0192 0.0000 0.0117 0.5044 0.0000	1.0000 1.0000 1.0000 0.9808 1.0000 1.0000 0.9883 0.4956 1.0000	92.28 92.28 92.28 92.28 92.28 90.51 90.51 90.51 89.45 44.33
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	30,507 30,507 27,607 27,607 23,483 16,771 9,538 9,538 9,538 9,538	2,900 1,774 6,712 3,531	0.0000 0.0951 0.0000 0.0643 0.2858 0.2105 0.0000 0.0000 0.0000	1.0000 0.9049 1.0000 0.9357 0.7142 0.7895 1.0000 1.0000 0.8952	44.33 44.33 40.11 40.11 37.54 26.81 21.16 21.16 21.16
29.5 30.5 31.5 32.5 33.5 34.5 35.5	8,538 8,538 8,538 8,538 8,538 3,940	4,598	0.0000 0.0000 0.0000 0.0000 0.5386 0.0000	1.0000 1.0000 1.0000 1.0000 0.4614 1.0000	18.95 18.95 18.95 18.95 18.95 8.74



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT P10 - POWERHOUSE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P10 - POWERHOUSE

PLACEMENT 1	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	102,700,817 101,734,797 101,329,090 101,192,787 101,192,787 101,192,787 101,192,787 101,192,787 101,082,001 101,082,001		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	100,998,712 100,998,712 100,998,712 80,149,101 80,149,101 80,149,101 80,040,055 79,976,960 79,967,397 79,960,122	1,408 63,094	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9992 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.92 99.92 99.92
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	79,960,122 79,811,859 79,766,978 77,059,323 77,059,323 77,048,404 77,009,543 75,938,104 74,445,854 74,196,993		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.92 99.92 99.92 99.92 99.92 99.92 99.92 99.92 99.92
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	74,186,988 68,169,254 56,183,499 51,612,776 39,057,174 38,814,548 27,784,412 21,227,034 20,143,559 20,143,559	1,272	0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9998 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.92 99.90 99.90 99.90 99.90 99.90 99.90 99.90



NEWFOUNDLAND AND LABRADOR HYDRO

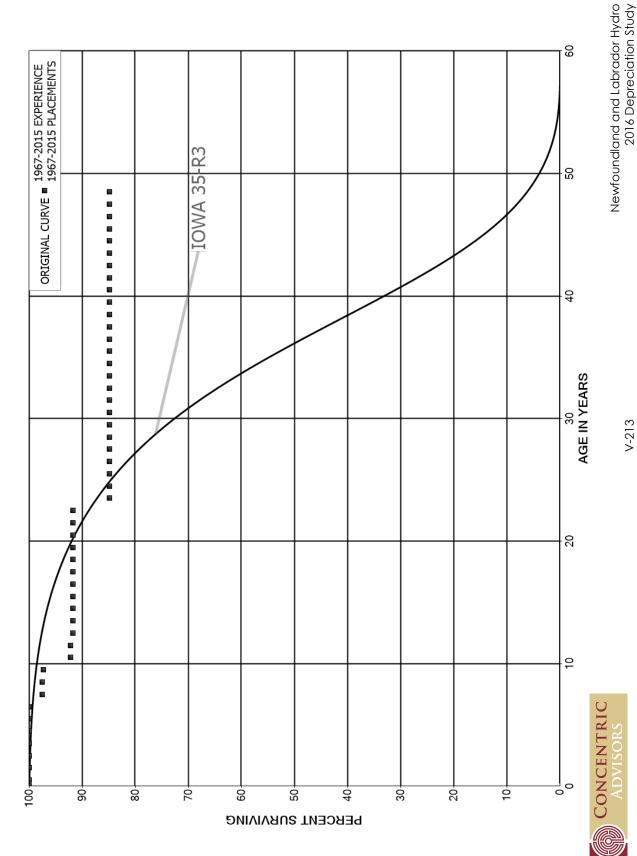
ACCOUNT P10 - POWERHOUSE

PLACEMENT	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	20,138,559 20,138,559 20,138,559 20,138,559 20,138,210 16,547,132 13,734,007 10,881,494 10,881,494 6,311,169	349	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.90 99.90 99.90 99.90 99.90 99.90 99.90 99.90
49.5					99.90



V-213

ACCOUNT P12 - PROTECTIVE CONTROL AND RELAY PANELS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P12 - PROTECTIVE CONTROL AND RELAY PANELS

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5	10,018,336 9,215,365 8,790,412 6,915,111 5,112,300 4,840,285 4,762,333	289	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00
6.5 7.5 8.5	4,618,882 4,328,679 3,910,908	116,342 7,102	0.0252 0.0000 0.0018	0.9748 1.0000 0.9982	100.00 97.48 97.48
9.5 10.5	3,819,666 3,482,721	200,000	0.0524	0.9476	97.30 92.21
11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,214,837 1,482,888 1,482,888 1,482,888 1,482,888 1,359,099 1,359,099	16,280	0.0051 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9949 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	92.21 91.74 91.74 91.74 91.74 91.74 91.74
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	936,582 854,646 854,646 854,646 790,153 790,153 790,153 790,153 779,116 681,158	64,494	0.0000 0.0000 0.0000 0.0755 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9245 1.0000 1.0000 1.0000 1.0000 1.0000	91.74 91.74 91.74 91.74 84.82 84.82 84.82 84.82 84.82 84.82
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	681,158 681,158 615,525 615,525 615,525 615,525 341,524 341,524 341,524 341,524		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	84.81 84.81 84.81 84.81 84.81 84.81 84.81 84.81 84.81



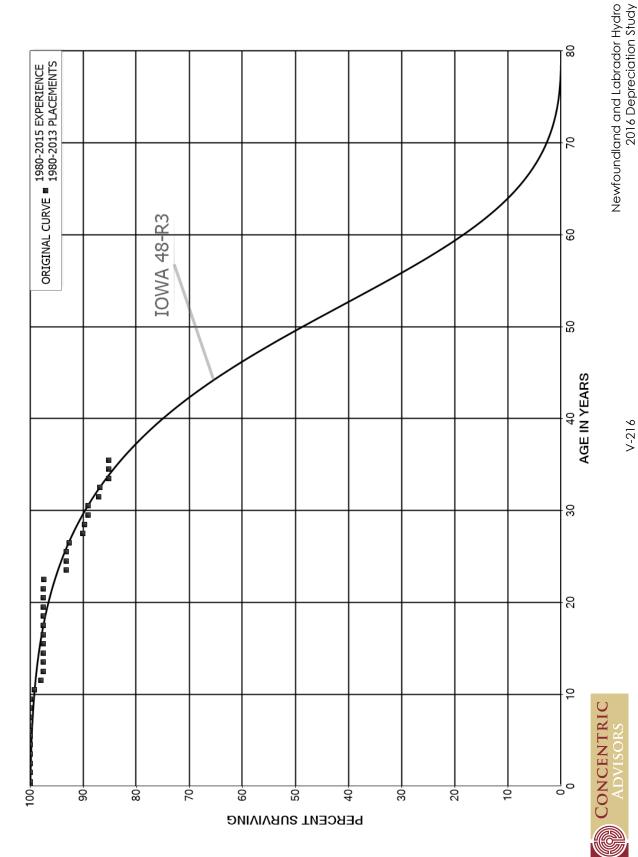
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P12 - PROTECTIVE CONTROL AND RELAY PANELS

PLACEMENT H	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	341,524 341,524 341,524 341,524 341,524 341,524 341,524 341,524 284,442		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	84.81 84.81 84.81 84.81 84.81 84.81 84.81 84.81



ACCOUNT R01 - RADIO TOWERS (WOOD OR STEEL)
ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

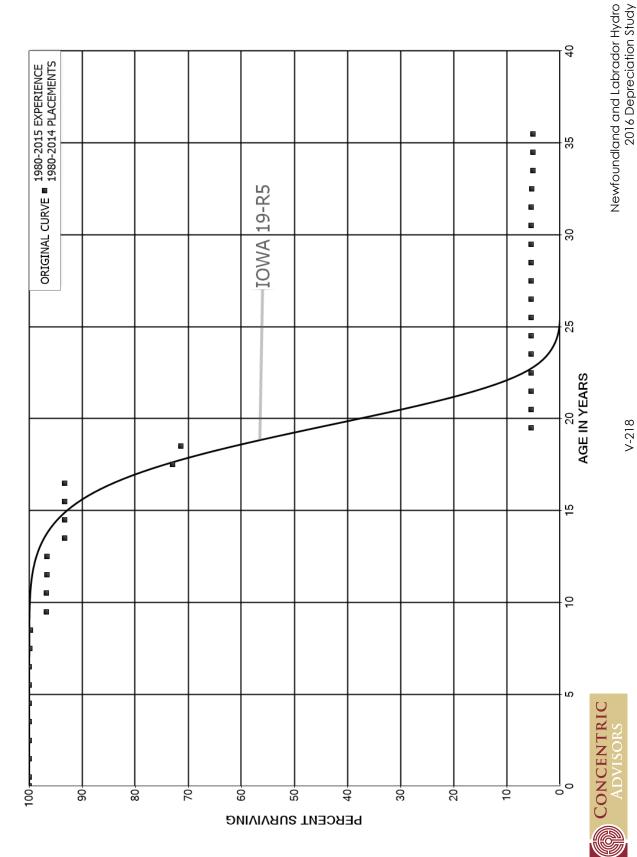
ACCOUNT R01 - RADIO TOWERS (WOOD OR STEEL)

PLACEMENT H	BAND 1980-2013		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	10,210,442 10,210,442 10,210,442 9,947,473 9,790,093 9,790,093 9,575,446 9,393,802 9,393,802 9,028,332	1,887	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9998	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	9,026,445 8,723,764 8,610,165 4,170,732 4,170,732 1,951,585 1,951,585 1,951,585 1,951,585	71,491 113,599 32,144	0.0079 0.0130 0.0037 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9921 0.9870 0.9963 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9997	99.98 99.19 97.90 97.53 97.53 97.53 97.53 97.53 97.53
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,951,074 1,951,074 1,951,074 1,928,684 1,844,605 1,844,605 1,783,733 1,772,550 1,724,543 1,718,098	2,042 84,079 11,183 48,007 6,445 13,493	0.0000 0.0000 0.0010 0.0436 0.0000 0.0000 0.0063 0.0271 0.0037 0.0079	1.0000 1.0000 0.9990 0.9564 1.0000 1.0000 0.9937 0.9729 0.9963 0.9921	97.50 97.50 97.50 97.40 93.16 93.16 93.16 92.57 90.07 89.73
29.5 30.5 31.5 32.5 33.5 34.5 35.5	1,704,605 1,704,605 1,321,553 1,318,721 1,129,316 1,129,316	37,301 2,832 26,322	0.0000 0.0219 0.0021 0.0200 0.0000	1.0000 0.9781 0.9979 0.9800 1.0000	89.02 89.02 87.08 86.89 85.15 85.15



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ACCOUNT R02 - RADIOS - FIXED MICROWAVE EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



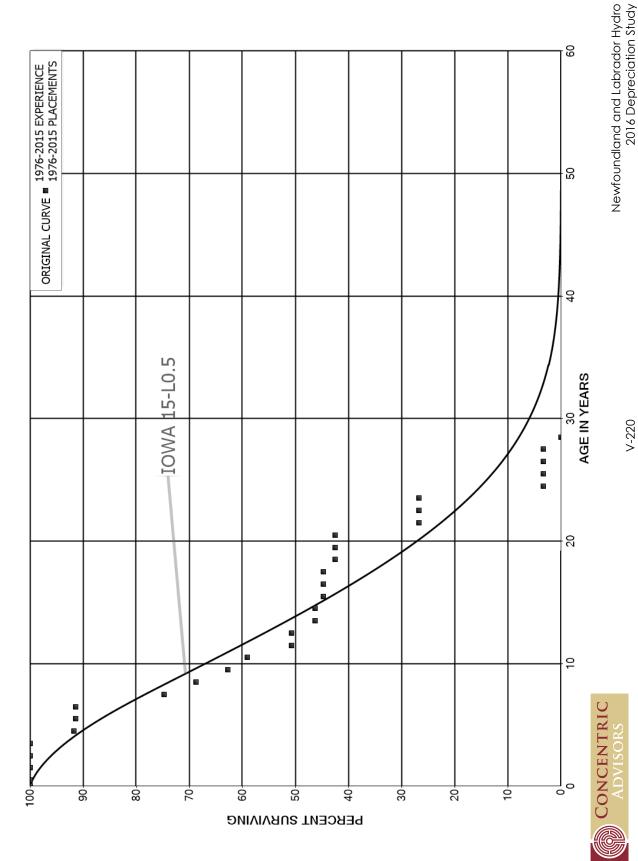
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R02 - RADIOS - FIXED MICROWAVE EQUIPMENT

PLACEMENT E	BAND 1980-2014		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	9,015,572 9,015,572 8,079,697 8,079,697 8,037,253 8,037,253 7,984,806 7,978,851 7,972,896 7,776,559	5,955 5,955 11,911 229,080	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007 0.0007 0.0015 0.0295	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9993 0.9993 0.9985 0.9705	100.00 100.00 100.00 100.00 100.00 100.00 99.93 99.85 99.70
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	7,547,479 7,538,526 5,602,065 5,405,463 2,478,110 2,478,110 1,937,088 1,898,558	8,953 196,602 541,022 38,530 1,755,806	0.0000 0.0012 0.0000 0.0351 0.0000 0.0000 0.0000 0.2183 0.0199 0.9248	1.0000 0.9988 1.0000 0.9649 1.0000 1.0000 0.7817 0.9801 0.0752	96.76 96.76 96.65 96.65 93.26 93.26 93.26 93.26 72.90 71.45
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	142,752 142,752 142,752 142,752 142,752 142,752 142,752 142,752 142,752 142,752		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	5.37 5.37 5.37 5.37 5.37 5.37 5.37 5.37
29.5 30.5 31.5 32.5 33.5 34.5 35.5	142,752 142,752 142,752 141,628 133,759 133,759	1,124 7,869	0.0000 0.0000 0.0079 0.0556 0.0000	1.0000 1.0000 0.9921 0.9444 1.0000 1.0000	5.37 5.37 5.37 5.33 5.03 5.03 5.03



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT RO3 - RADIOS - FIXED UHF EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R03 - RADIOS - FIXED UHF EQUIPMENT

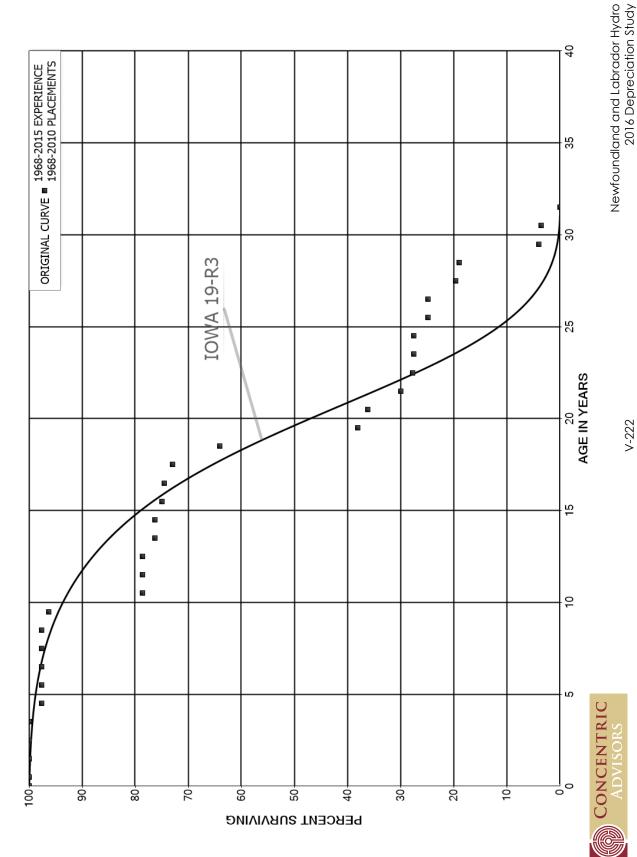
ORIGINAL LIFE TABLE

PLACEMENT E	BAND 1976-2015		EXPE	RIENCE BAN	D 1976-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5	794,415 791,030 791,030 791,030 782,054 717,290 714,718 664,939 504,468	64,764 2,571 120,949 40,640	0.0000 0.0000 0.0000 0.0000 0.0828 0.0036 0.0000 0.1819 0.0806	1.0000 1.0000 1.0000 1.0000 0.9172 0.9964 1.0000 0.8181 0.9194	100.00 100.00 100.00 100.00 100.00 91.72 91.39 91.39 74.77
8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	463,828 423,282 398,359 342,174 342,174 312,165 312,165 302,112 302,112 302,112	40,546 24,923 56,185 30,009 10,053	0.0874 0.0589 0.1410 0.0000 0.0877 0.0000 0.0322 0.0000 0.0000 0.0495	0.9126 0.9411 0.8590 1.0000 0.9123 1.0000 0.9678 1.0000 1.0000 0.9505	68.74 62.73 59.04 50.71 50.71 46.27 46.27 44.78 44.78
18.5 19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	287,143 287,143 287,143 180,132 180,132 180,132 22,350 22,350 22,350 22,350 22,350	107,012 157,782 22,350	0.0000 0.0000 0.3727 0.0000 0.0000 0.8759 0.0000 0.0000 0.0000	1.0000 1.0000 0.6273 1.0000 1.0000 0.1241 1.0000 1.0000	42.56 42.56 42.56 26.70 26.70 26.70 3.31 3.31 3.31 3.31



28.5

ACCOUNT R04 - RADIOS - FIXED VHF EQUIPMENT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

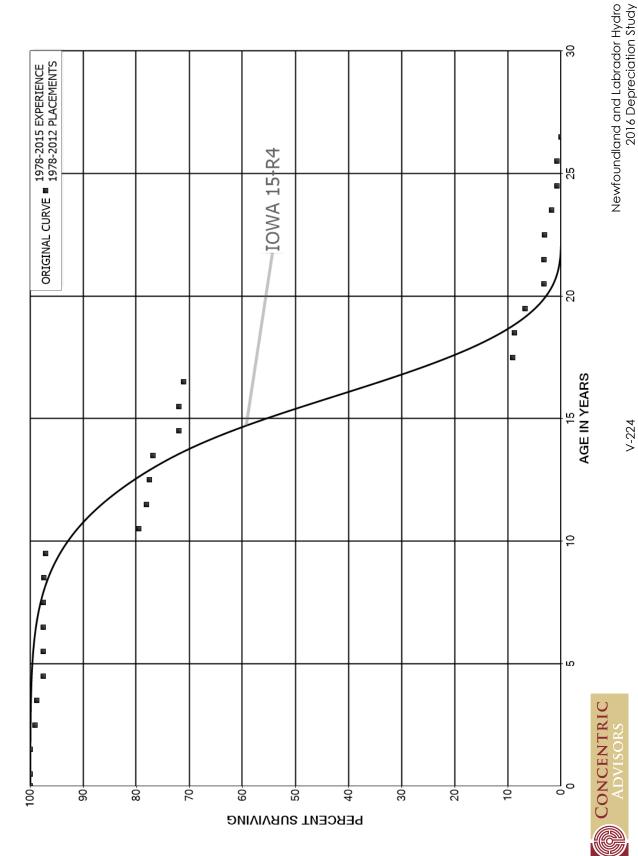
ACCOUNT R04 - RADIOS - FIXED VHF EQUIPMENT

PLACEMENT	BAND 1968-2010		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	4,446,342 4,446,342 4,446,342 4,443,527 4,342,706 4,274,065 4,274,065 4,274,065 4,274,065	2,815 100,821 58,697	0.0000 0.0000 0.0000 0.0006 0.0227 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9994 0.9773 1.0000 1.0000 1.0000 0.9863	100.00 100.00 100.00 100.00 99.94 97.67 97.67 97.67 97.67
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	4,004,327 3,269,873 3,265,282 3,147,036 3,055,649 3,055,649 2,999,943 2,986,216 2,920,772 2,564,225	734,453 4,032 91,387 55,707 13,726 65,444 356,547 1,039,595	0.1834 0.0012 0.0000 0.0290 0.0000 0.0182 0.0046 0.0219 0.1221 0.4054	0.8166 0.9988 1.0000 0.9710 1.0000 0.9818 0.9954 0.9781 0.8779 0.5946	96.33 78.66 78.56 78.56 76.28 76.28 74.89 74.55 72.91 64.01
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,524,630 1,450,329 1,200,802 1,110,094 941,929 939,613 848,968 848,968 669,816 648,037	74,301 249,527 90,709 6,486 2,316 90,645 179,152 21,779 513,070	0.0487 0.1720 0.0755 0.0058 0.0025 0.0965 0.0000 0.2110 0.0325 0.7917	0.9513 0.8280 0.9245 0.9942 0.9975 0.9035 1.0000 0.7890 0.9675 0.2083	38.06 36.21 29.98 27.71 27.55 27.48 24.83 24.83 19.59 18.95
29.5 30.5 31.5	134,966 120,787	14,179 120,787	0.1051 1.0000	0.8949	3.95 3.53



V-224

ACCOUNT R05 - RADIOS - MOBILE VHF BASE STATION ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



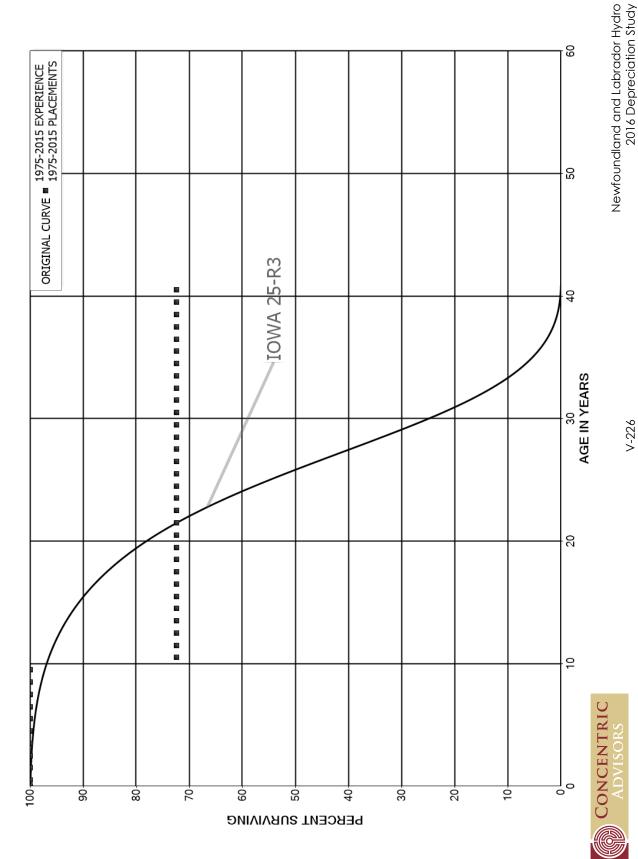
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R05 - RADIOS - MOBILE VHF BASE STATION

PLACEMENT H	BAND 1978-2012		EXPE	RIENCE BAN	D 1978-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	9,104,030 9,104,030 9,104,030 9,021,088 8,268,047 8,172,088 7,818,683 7,812,317 7,812,317 7,352,576	82,942 37,902 93,309 6,366 10,505 20,805	0.0000 0.0000 0.0091 0.0042 0.0113 0.0000 0.0008 0.0000 0.0013	1.0000 1.0000 0.9909 0.9958 0.9887 1.0000 0.9992 1.0000 0.9987 0.9972	100.00 100.00 100.00 99.09 98.67 97.56 97.56 97.48 97.48
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,761,018 1,441,739 1,413,587 1,261,094 1,249,436 1,170,552 1,156,464 1,116,944 143,032 137,783	319,279 25,352 10,295 11,659 78,884 733 13,556 973,911 5,250 31,710	0.1813 0.0176 0.0073 0.0092 0.0631 0.0006 0.0117 0.8719 0.0367 0.2301	0.8187 0.9824 0.9927 0.9908 0.9369 0.9994 0.9883 0.1281 0.9633 0.7699	97.07 79.47 78.08 77.51 76.79 71.94 71.90 71.05 9.10 8.77
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5	106,073 49,190 49,190 47,319 27,758 11,698 8,536	56,883 1,871 19,561 16,061 8,536	0.5363 0.0000 0.0380 0.4134 0.5786 0.0000 1.0000	0.4637 1.0000 0.9620 0.5866 0.4214 1.0000	6.75 3.13 3.13 3.01 1.77 0.74



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT RO6 - RAMPS - YARD STORAGE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R06 - RAMPS - YARD STORAGE

PLACEMENT BAND 1975-2015		EXPE	RIENCE BAN	D 1975-2015
AGE AT EXPOSURES AT BEGIN OF BEGINNING OF INTERVAL AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 1,827,330 0.5 1,695,776 1.5 1,664,996 2.5 1,664,996 3.5 1,664,996 4.5 1,664,996 5.5 1,470,416 6.5 1,195,179 7.5 1,066,911 8.5 1,004,386		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 847,069 10.5 575,925 11.5 575,925 12.5 575,925 13.5 575,925 14.5 521,151 15.5 521,151 16.5 429,890 17.5 429,890 18.5 429,890	233,772	0.2760 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.7240 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40
19.5 379,924 20.5 379,924 21.5 379,924 22.5 330,462 23.5 318,978 24.5 300,868 25.5 220,787 26.5 114,938 27.5 114,938 28.5 82,374		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40
29.5 82,374 30.5 82,374 31.5 82,374 32.5 82,374 33.5 65,163 34.5 65,163 35.5 65,163 36.5 23,740 37.5 23,740 38.5 23,740		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40 72.40
39.5 40.5		0.0000	1.0000	72.40 72.40



ACCOUNT R07 - REACTORS AND RESISTORS ORIGINAL AND SMOOTH SURVIVOR CURVES

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РЕВСЕИТ ЗИВУІУІИС

NEWFOUNDLAND AND LABRADOR HYDRO

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V-228

Newfoundland and Labrador Hydro 2016 Depreciation Study

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AGE IN YEARS

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NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R07 - REACTORS AND RESISTORS

PLACEMENT I	BAND 1968-2015		EXPEF	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,225,065 1,150,230 1,044,650 1,044,650 1,024,903 1,024,903 1,024,903 1,024,903 1,024,903 1,024,903		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,009,016 1,009,016 1,009,016 1,009,016 1,009,016 1,009,016 807,059 807,059 807,059 807,059		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	776,038 69,855 69,855 69,855 69,855 69,855 69,855 69,855 69,855		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	69,855 69,855 69,855 69,855 58,523 58,523 58,523 50,523 20,083		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R07 - REACTORS AND RESISTORS

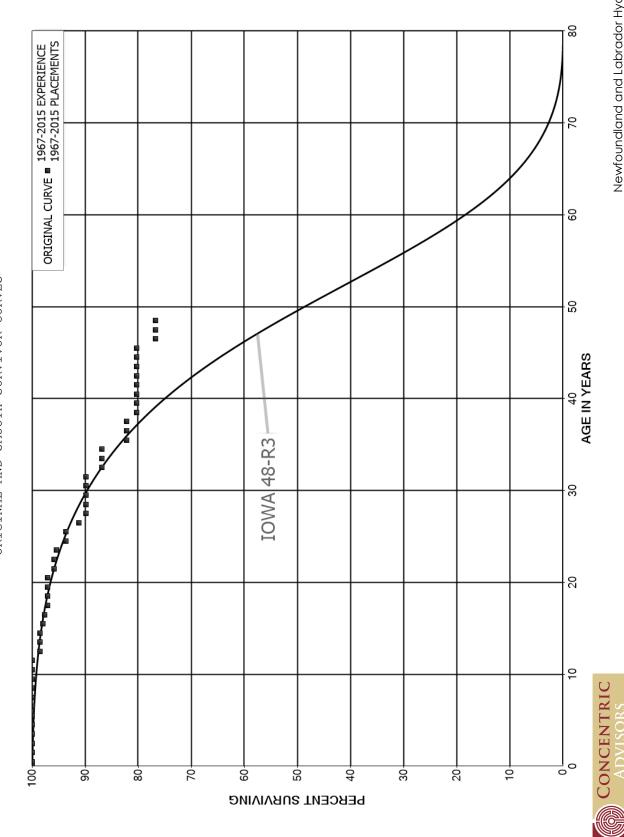
PLACEMENT	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5	20,083 20,083 20,083 20,083 20,083 20,083 20,083		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00
46.5 47.5	20,083		0.0000	1.0000	100.00 100.00



Newfoundland and Labrador Hydro 2016 Depreciation Study

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NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT RO8 - RECLOSERS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R08 - RECLOSERS

PLACEMENT E	BAND 1967-2015		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	7,507,617 6,949,014 6,662,682 5,895,099 5,108,664 4,814,440 4,354,278 4,163,117 4,006,122 4,006,122		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5	3,961,448 3,776,745 3,769,335 3,471,248 3,435,200 3,360,707 3,214,479 3,174,022 2,931,930 2,779,686	0 54,532 21,116 11,904 16,452	0.0000 0.0000 0.0145 0.0000 0.0000 0.0063 0.0037 0.0052 0.0000	1.0000 1.0000 0.9855 1.0000 1.0000 0.9937 0.9963 0.9948 1.0000	100.00 100.00 100.00 98.55 98.55 98.55 97.93 97.57 97.07
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,732,873 2,654,108 2,311,277 2,268,542 2,189,545 2,095,649 1,926,765 1,795,981 1,577,364 1,457,161	34,715 10,513 40,426 50,160 26,171	0.0000 0.0131 0.0000 0.0046 0.0185 0.0000 0.0260 0.0146 0.0000 0.0000	1.0000 0.9869 1.0000 0.9954 0.9815 1.0000 0.9740 0.9854 1.0000	97.07 97.07 95.80 95.80 95.35 93.59 93.59 91.16 89.83 89.83
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,446,674 1,298,556 1,102,647 1,051,786 841,501 593,657 562,383 548,383 496,996 485,373	37,181 31,275 11,624	0.0000 0.0000 0.0337 0.0000 0.0000 0.0527 0.0000 0.0000 0.0234 0.0000	1.0000 1.0000 0.9663 1.0000 1.0000 0.9473 1.0000 1.0000 0.9766 1.0000	89.83 89.83 89.83 86.80 86.80 82.23 82.23 82.23 80.30



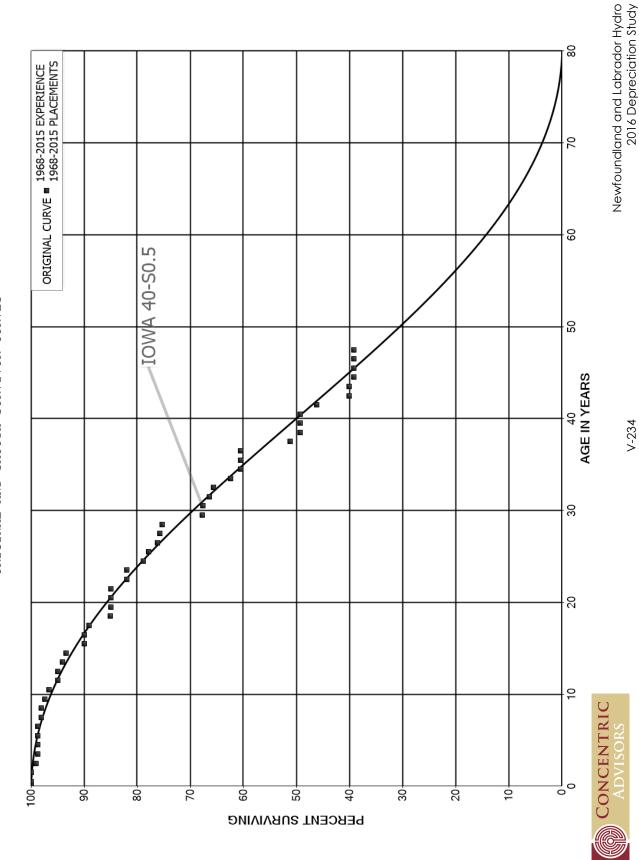
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R08 - RECLOSERS

PLACEMENT BAND 1967-2015 EXPERIENCE BAND 1967-2015					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	472,069 217,567 217,567 217,567 217,567 194,087 66,147 63,204 6,652	2,943	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0445 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9555 1.0000	80.30 80.30 80.30 80.30 80.30 80.30 80.30 76.73 76.73



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT R09 - REGULATORS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R09 - REGULATORS

PLACEMENT H	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5	7,317,428 7,195,261 7,036,686 6,437,137 5,797,385 5,454,934 5,137,229 4,734,361	62,379 23,079 31,826	0.0000 0.0000 0.0089 0.0036 0.0000 0.0000 0.0000	1.0000 1.0000 0.9911 0.9964 1.0000 1.0000 0.9933	100.00 100.00 100.00 99.11 98.76 98.76 98.76 98.76
7.5 8.5	4,459,382 4,387,654	33,037	0.0000 0.0075	1.0000 0.9925	98.09 98.09
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	4,264,904 4,195,732 3,999,184 3,848,301 3,786,478 3,754,164 3,599,347 3,599,347 3,562,415 3,299,274	32,602 74,216 35,132 26,996 135,900 36,932 159,232 6,206	0.0076 0.0177 0.0000 0.0091 0.0071 0.0362 0.0000 0.0103 0.0447 0.0019	0.9924 0.9823 1.0000 0.9909 0.9929 0.9638 1.0000 0.9897 0.9553 0.9981	97.36 96.61 94.90 94.90 94.04 93.37 89.99 89.99 89.06 85.08
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	3,293,068 3,227,427 3,203,096 2,994,693 2,994,693 2,880,290 2,721,560 2,659,228 2,544,001 2,431,494	110,541 114,403 37,794 59,487 13,342 16,301 241,814	0.0000 0.0000 0.0345 0.0000 0.0382 0.0131 0.0219 0.0050 0.0064 0.0995	1.0000 1.0000 0.9655 1.0000 0.9618 0.9869 0.9781 0.9950 0.9936 0.9005	84.92 84.92 84.92 81.99 81.99 78.86 77.82 76.12 75.74 75.26
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,189,679 1,955,130 1,853,715 1,798,115 1,614,517 1,451,262 727,891 727,891 615,193 555,281	6,206 35,576 19,163 88,684 48,276	0.0028 0.0182 0.0103 0.0493 0.0299 0.0000 0.0000 0.1548 0.0368 0.0000	0.9972 0.9818 0.9897 0.9507 0.9701 1.0000 1.0000 0.8452 0.9632 1.0000	67.77 67.58 66.35 65.66 62.43 60.56 60.56 51.18 49.30



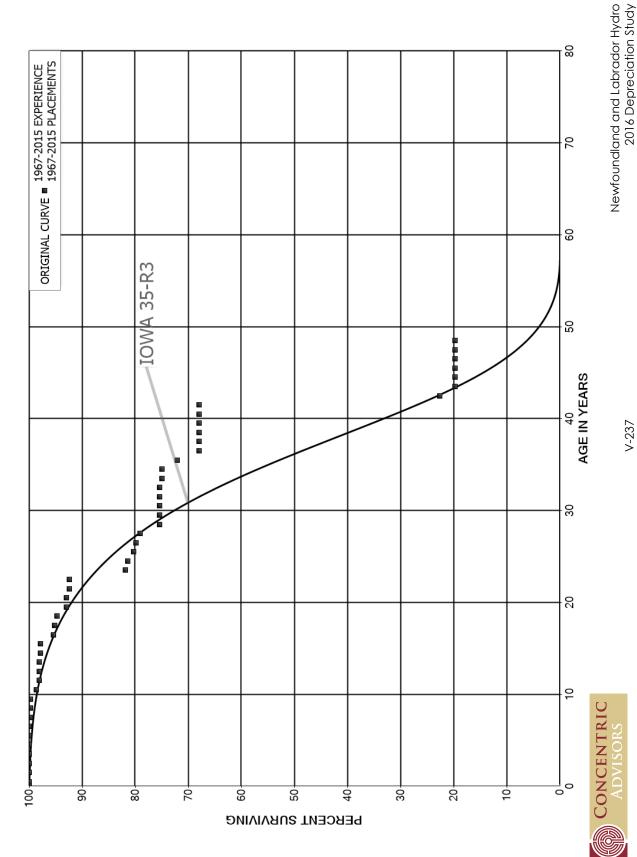
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R09 - REGULATORS

PLACEMENT BAND 1968-2015 EXPERIENCE BAND 1968-					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	555,281 319,070 299,199 258,996 258,996 73,033 18,866 18,866	19,871 40,203 5,232	0.0000 0.0623 0.1344 0.0000 0.0202 0.0000 0.0000	1.0000 0.9377 0.8656 1.0000 0.9798 1.0000 1.0000	49.30 49.30 46.23 40.02 40.02 39.21 39.21 39.21



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT R11 - REVENUE METERING ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R11 - REVENUE METERING

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,508,564 1,225,032 1,137,869 1,137,869 1,110,539 1,110,539 1,110,539 1,020,842 1,017,993 1,017,993	2,849	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0028 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9972 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.72 99.72
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,017,993 1,006,318 1,000,577 961,003 874,366 751,458 751,458 732,912 730,695 717,902	11,675 5,741 1,423 18,546 2,216 3,414 12,997	0.0115 0.0057 0.0000 0.0000 0.0016 0.0000 0.0247 0.0030 0.0047 0.0181	0.9885 0.9943 1.0000 1.0000 0.9984 1.0000 0.9753 0.9970 0.9953 0.9819	99.72 98.58 98.01 98.01 97.86 97.86 95.44 95.15 94.71
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	675,441 667,906 658,159 658,159 548,693 529,063 506,277 479,375 443,227 388,109	4,262 75,135 3,113 7,155 3,057 4,300 20,791	0.0000 0.0064 0.0000 0.1142 0.0057 0.0135 0.0060 0.0090 0.0469 0.0000	1.0000 0.9936 1.0000 0.8858 0.9943 0.9865 0.9940 0.9910 0.9531 1.0000	92.99 92.99 92.40 92.40 81.85 81.39 80.29 79.80 79.09 75.38
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	344,832 330,328 300,515 267,391 263,370 230,673 184,070 165,782 127,806 119,068	1,500 81 8,900 10,380	0.0000 0.0000 0.0000 0.0056 0.0003 0.0386 0.0564 0.0000 0.0000	1.0000 1.0000 1.0000 0.9944 0.9997 0.9614 0.9436 1.0000 1.0000	75.38 75.38 75.38 75.38 74.95 74.93 72.04 67.98 67.98 67.98



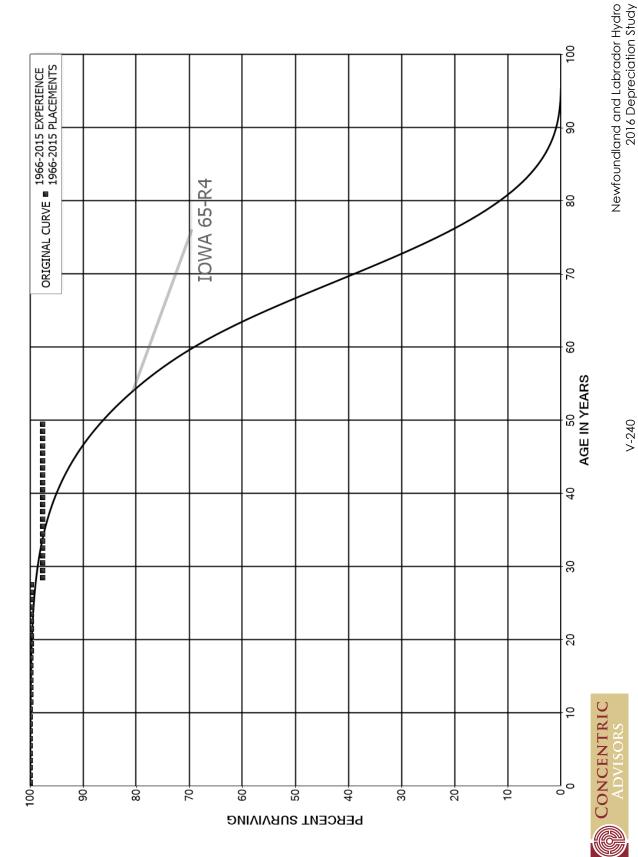
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R11 - REVENUE METERING

PLACEMENT BAND 1967-2015 EXPERIENCE BAND 1967-201					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5	109,085 109,085 95,985 31,869 27,873 27,873	64,116 3,996	0.0000 0.0000 0.6680 0.1254 0.0000	1.0000 1.0000 0.3320 0.8746 1.0000	67.98 67.98 67.98 22.57 19.74
45.5 46.5 47.5 48.5	19,571 19,571 12,751		0.0000 0.0000 0.0000	1.0000 1.0000 1.0000	19.74 19.74 19.74 19.74



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT R12 - RIGHT-OF-WAYS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R12 - RIGHT-OF-WAYS

PLACEMENT BAND 1966-2015 EXPERIENCE BAND 1966-2015					D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	22,059,531 21,605,210 21,293,543 20,849,493 20,504,169 20,490,290 20,392,646 20,226,290 20,065,833 19,966,375	1,600	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000	0.9999 1.0000 1.0000 1.0000 1.0000 1.0000 0.9995 1.0000 1.0000	100.00 99.99 99.99 99.99 99.99 99.99 99.99
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	18,837,838 18,709,150 18,614,027 18,581,320 17,152,270 17,141,738 17,126,720 17,022,978 16,432,628 16,235,393	15,824 14,319	0.0000 0.0008 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0009	1.0000 0.9992 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9991 1.0000	99.94 99.94 99.85 99.85 99.85 99.85 99.85 99.85 99.85
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	15,703,747 15,377,901 15,341,710 15,253,473 15,229,499 15,060,740 14,274,519 13,724,745 13,549,048 12,699,887	1,048 286,000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0211 0.0000	0.9999 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9789 1.0000	99.77 99.76 99.76 99.76 99.76 99.76 99.76 99.76 97.65
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	12,659,912 10,945,808 10,878,870 9,092,770 8,299,505 7,183,257 7,061,068 7,061,068 4,170,908 4,145,244		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.65 97.65 97.65 97.65 97.65 97.65 97.65 97.65 97.65



NEWFOUNDLAND AND LABRADOR HYDRO

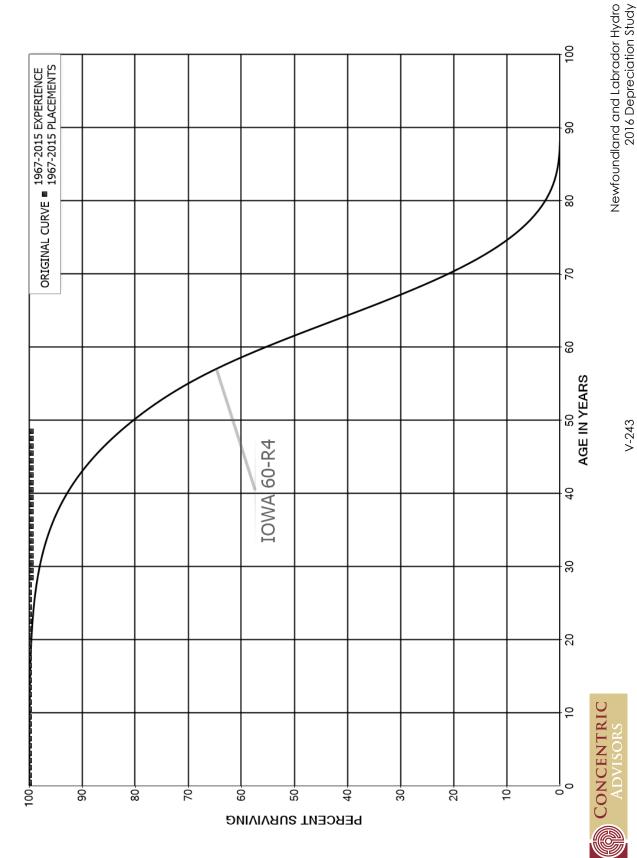
ACCOUNT R12 - RIGHT-OF-WAYS

PLACEMENT BAND 1966-2015 EXPERIENCE BAN				D 1966-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	4,010,899 4,010,899 3,436,307 3,430,573 3,430,573 3,430,573 3,131,034 3,045,745 2,771,429 1,057,755		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.65 97.65 97.65 97.65 97.65 97.65 97.65 97.65
49.5					97.65



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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT R13 - ROADS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R13 - ROADS

PLACEMENT I	BAND 1967-2015		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	84,743,338 83,803,528 83,297,928 83,246,209 83,000,618 81,947,247 80,961,124 80,636,806 80,231,941 79,296,607	47 2,866	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	79,296,607 77,938,263 77,938,263 77,170,348 77,126,335 76,693,992 76,538,121 76,538,121 76,538,121 76,538,121		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	76,518,513 76,508,506 76,483,366 76,477,954 76,423,390 76,371,146 76,007,793 74,701,137 74,406,330	294,807	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0039 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9961 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.60
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	74,393,088 74,076,302 13,533,189 3,934,256 3,931,345 3,915,579 748,219 743,158 732,109 720,351	3,012	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.60 99.60 99.60 99.60 99.60 99.60 99.60 99.60



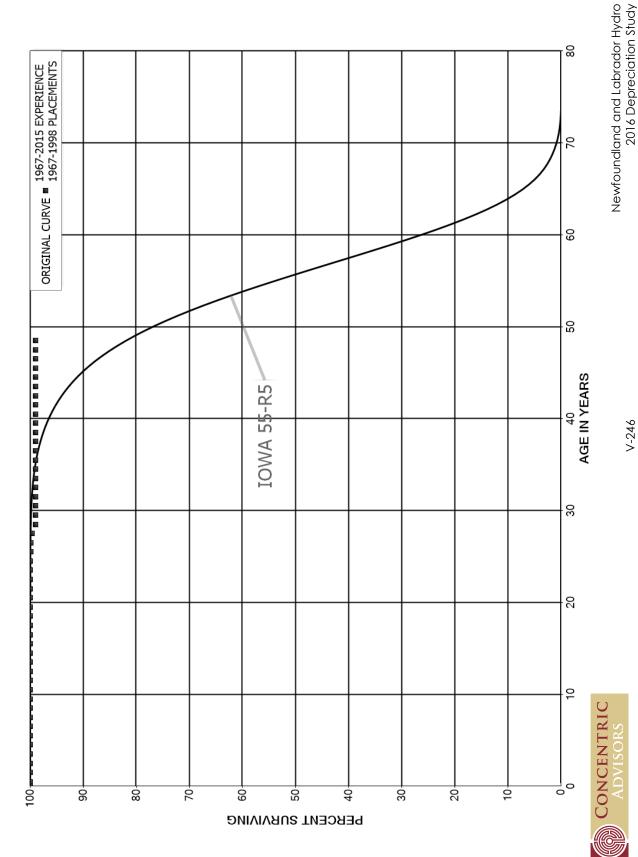
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R13 - ROADS

PLACEMENT BAND 1967-2015 EXPERIENCE BAND 1967-2015					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5	720,351 720,351 720,351		0.0000 0.0000 0.0000	1.0000 1.0000 1.0000	99.60 99.60 99.60
42.5 43.5 44.5	709,139 709,139 682,139		0.0000 0.0000 0.0000	1.0000 1.0000 1.0000	99.60 99.60 99.60
45.5 46.5 47.5 48.5	553,964 63,486 40,993		0.0000 0.0000 0.0000	1.0000 1.0000 1.0000	99.60 99.60 99.60 99.60



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT R15 - RUNNER ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R15 - RUNNER

PLACEMENT	BAND 1967-1998		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,783,932 11,737,244		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	11,677,403 11,677,403 11,661,244 11,661,244 11,661,244 11,661,244 11,647,242 11,063,796 11,035,791 10,963,769	14,003 58 28,005 72,023	0.0000 0.0000 0.0000 0.0000 0.0000 0.0012 0.0000 0.0025 0.0065 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9988 1.0000 0.9975 0.9935 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.88 99.88 99.63 98.98
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	10,963,769 8,318,863 8,318,863 8,318,863 8,318,863 8,318,863 8,268,519 8,268,519 8,268,519 8,138,207		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	98.98 98.98 98.98 98.98 98.98 98.98 98.98 98.98



NEWFOUNDLAND AND LABRADOR HYDRO

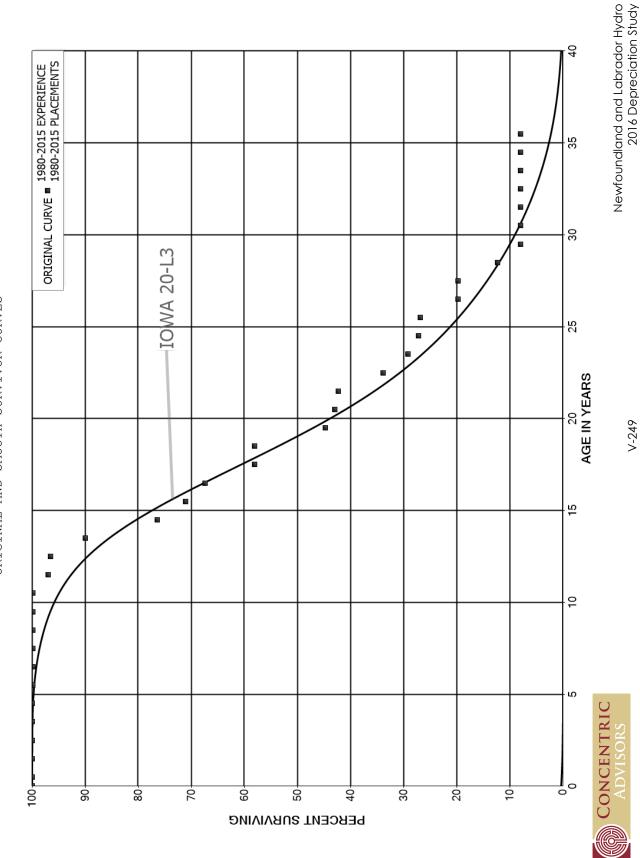
ACCOUNT R15 - RUNNER

PLACEMENT	BAND 1967-1998		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	8,138,207 8,138,207 8,138,207 8,138,207 8,138,207 8,138,207 6,679,642 6,679,642 5,230,693		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	98.98 98.98 98.98 98.98 98.98 98.98 98.98 98.98



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ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S01 - SCADA EQUIPMENT



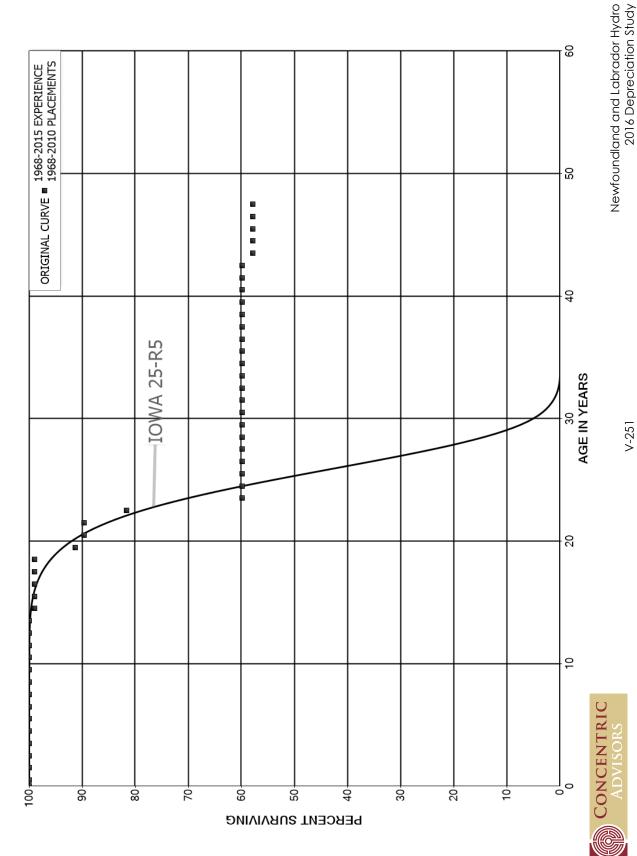
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S01 - SCADA EQUIPMENT

PLACEMENT B	AND 1980-2015		EXPE	RIENCE BAN	D 1980-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	7,659,317 6,863,926 6,836,602 6,626,915 6,553,388 6,467,080 6,091,299 5,839,306 5,558,497 5,282,731	9,152	0.0000 0.0000 0.0000 0.0000 0.0000 0.0014 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9986 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.86 99.86 99.86 99.86
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	5,056,843 4,853,295 4,368,191 3,783,706 3,129,541 2,329,086 2,165,876 1,872,257 1,596,218 1,596,218	141,749 21,620 255,345 470,373 163,210 112,977 257,060	0.0000 0.0292 0.0049 0.0675 0.1503 0.0701 0.0522 0.1373 0.0000 0.2311	1.0000 0.9708 0.9951 0.9325 0.8497 0.9299 0.9478 0.8627 1.0000 0.7689	99.86 99.86 96.94 96.46 89.95 76.43 71.08 67.37 58.12 58.12
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,227,257 1,164,407 1,146,625 918,165 790,600 735,891 655,116 452,574 452,385 281,256	48,564 17,781 228,460 127,565 54,709 7,398 174,629 188 171,129 98,514	0.0396 0.0153 0.1992 0.1389 0.0692 0.0101 0.2666 0.0004 0.3783 0.3503	0.9604 0.9847 0.8008 0.8611 0.9308 0.9899 0.7334 0.9996 0.6217 0.6497	44.69 42.92 42.26 33.84 29.14 27.12 26.85 19.69 19.68 12.24
29.5 30.5 31.5 32.5 33.5 34.5 35.5	127,278 127,278 127,278 127,278 127,278 127,278		0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000	7.95 7.95 7.95 7.95 7.95 7.95 7.95



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT SO2 - SECTIONALIZERS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S02 - SECTIONALIZERS

PLACEMENT E	BAND 1968-2010		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	241,094 241,094 241,094 241,094 241,094 241,094 235,651 235,651 235,651		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	235,651 235,651 235,651 235,651 235,651 233,264 229,158 229,158 229,158 229,158	2,387 17,768	0.0000 0.0000 0.0000 0.0000 0.0101 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9899 1.0000 1.0000 1.0000 0.9225	100.00 100.00 100.00 100.00 98.99 98.99 98.99 98.99 98.99
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	189,387 185,893 185,893 169,272 124,212 77,660 77,660 75,933 75,933	3,493 16,621 45,060	0.0184 0.0000 0.0894 0.2662 0.0000 0.0000 0.0000 0.0000 0.0000	0.9816 1.0000 0.9106 0.7338 1.0000 1.0000 1.0000 1.0000 1.0000	91.31 89.63 89.63 81.61 59.89 59.89 59.89 59.89 59.89
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	73,992 73,992 73,992 73,992 73,992 73,992 73,992 73,992 73,992 73,992		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	59.89 59.89 59.89 59.89 59.89 59.89 59.89 59.89



NEWFOUNDLAND AND LABRADOR HYDRO

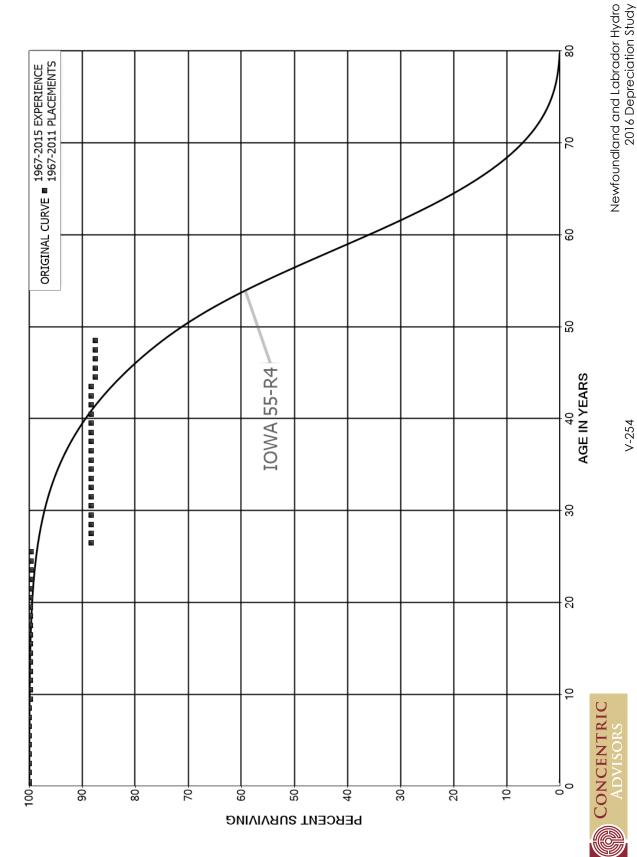
ACCOUNT S02 - SECTIONALIZERS

PLACEMENT BAND 1968-2010				RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	73,992 50,223 50,223 50,223 48,467 48,467 48,467	1,756	0.0000 0.0000 0.0000 0.0350 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9650 1.0000 1.0000	59.89 59.89 59.89 57.79 57.79 57.79 57.79



V-254

ACCOUNT S04 - SEWAGE DISPOSAL SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S04 - SEWAGE DISPOSAL SYSTEM

PLACEMENT I	BAND 1967-2011		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	3,028,054 3,028,054 3,028,054 3,028,054 3,028,054 2,884,687 2,758,930 2,714,051 2,669,446 2,611,317	8,327	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9968	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,567,675 2,567,675 2,567,675 2,469,764 2,113,937 2,113,937 2,113,937 1,137,751 1,082,153 1,077,919		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.68 99.68 99.68 99.68 99.68 99.68 99.68 99.68
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,064,436 933,197 933,197 932,298 916,457 916,457 866,450 460,447 457,750	899 97 , 985	0.0000 0.0000 0.0010 0.0000 0.0000 0.0000 0.1131 0.0000 0.0000	1.0000 1.0000 0.9990 1.0000 1.0000 1.0000 0.8869 1.0000 1.0000	99.68 99.68 99.59 99.59 99.59 99.59 88.32 88.32
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	457,750 457,750 457,750 362,744 359,744 357,077 213,958 213,958 179,942 172,081		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	88.32 88.32 88.32 88.32 88.32 88.32 88.32 88.32 88.32



NEWFOUNDLAND AND LABRADOR HYDRO

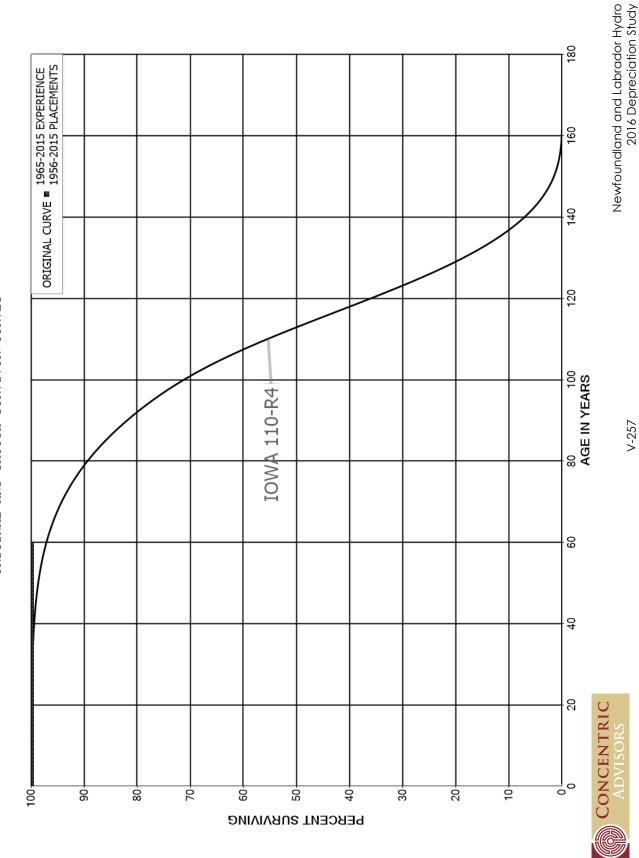
ACCOUNT S04 - SEWAGE DISPOSAL SYSTEM

PLACEMENT BAND 1967-2011 EXPERIENCE BAN				D 1967-2015	
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	172,081 172,081 172,081 172,081 167,427 164,517 150,432 17,904 10,112	1,523	0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9909 1.0000 1.0000	88.32 88.32 88.32 88.32 87.52 87.52 87.52 87.52 87.52



V-257

ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT SO6 - SPILLWAY STRUCTURES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S06 - SPILLWAY STRUCTURES

PLACEMENT 1	BAND 1956-2015		EXPEF	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	28,083,039 28,033,039 28,033,039 28,033,039 28,033,039 28,033,039 28,033,039 28,033,039 28,033,039 28,033,039		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	28,070,270 28,070,270 28,070,270 26,332,464 26,332,464 26,332,464 26,332,464 26,332,464 26,332,464 26,332,464		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	26,332,464 26,332,464 26,332,464 26,332,756 26,290,175 26,290,175 26,290,175 26,290,175 26,261,403 26,261,403		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	26,261,403 26,261,403 19,750,348 19,747,399 7,917,388 7,917,388 7,917,388 4,434,743 4,434,743		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



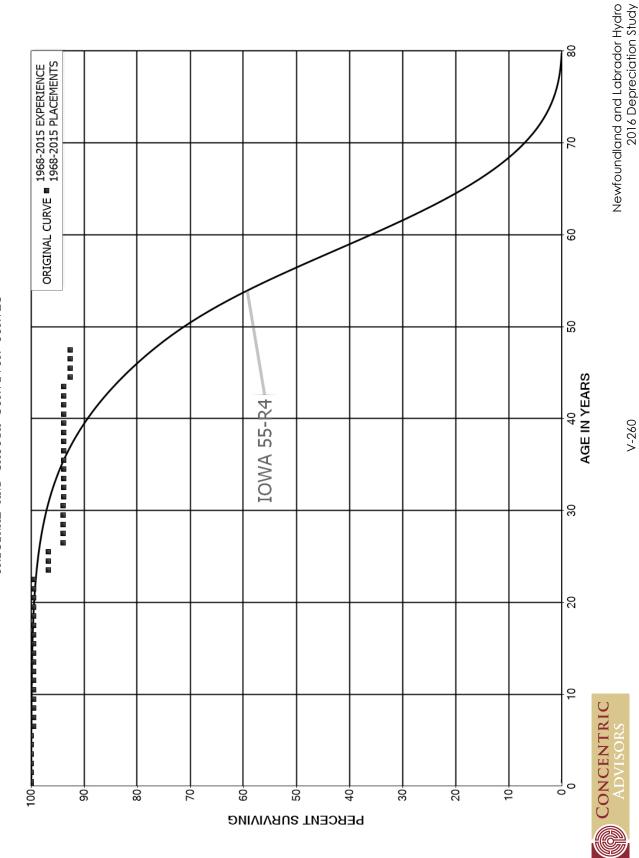
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S06 - SPILLWAY STRUCTURES

PLACEMENT I	BAND 1956-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5 49.5 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5 58.5	4,434,743 4,434,743 4,434,743 4,434,743 4,434,743 4,434,743 4,434,743 2,173,611 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231 37,231		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
59.5					100.00



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT SO7 - STACKS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S07 - STACKS

PLACEMENT H	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	17,603,104 13,821,283 13,801,764 13,791,837 11,609,146 10,819,314 10,769,034 10,479,141 10,370,962	9,927 50,280	0.0000 0.0000 0.0007 0.0000 0.0000 0.0000 0.0046 0.0000 0.0000	1.0000 1.0000 0.9993 1.0000 1.0000 0.9954 1.0000 1.0000	100.00 100.00 100.00 99.93 99.93 99.93 99.93 99.46 99.46
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	10,370,962 8,301,831 8,301,831 8,301,831 8,301,831 8,207,809 8,207,809 8,207,809 8,207,809 8,207,809		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.46 99.46 99.46 99.46 99.46 99.46 99.46 99.46 99.46
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	8,086,784 8,049,829 8,049,829 8,049,829 6,975,642 6,975,642 6,975,642 6,780,633 6,774,500 6,774,500	225,731 195,010	0.0000 0.0000 0.0000 0.0280 0.0000 0.0000 0.0280 0.0000 0.0000	1.0000 1.0000 1.0000 0.9720 1.0000 1.0000 1.0000 1.0000	99.46 99.46 99.46 99.46 96.67 96.67 96.67 93.97 93.97
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,746,581 6,746,581 6,733,821 6,733,821 6,733,821 6,733,821 5,035,613 5,035,613 5,035,613 5,035,613	12,760	0.0000 0.0019 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 0.9981 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	93.97 93.97 93.79 93.79 93.79 93.79 93.79 93.79 93.79



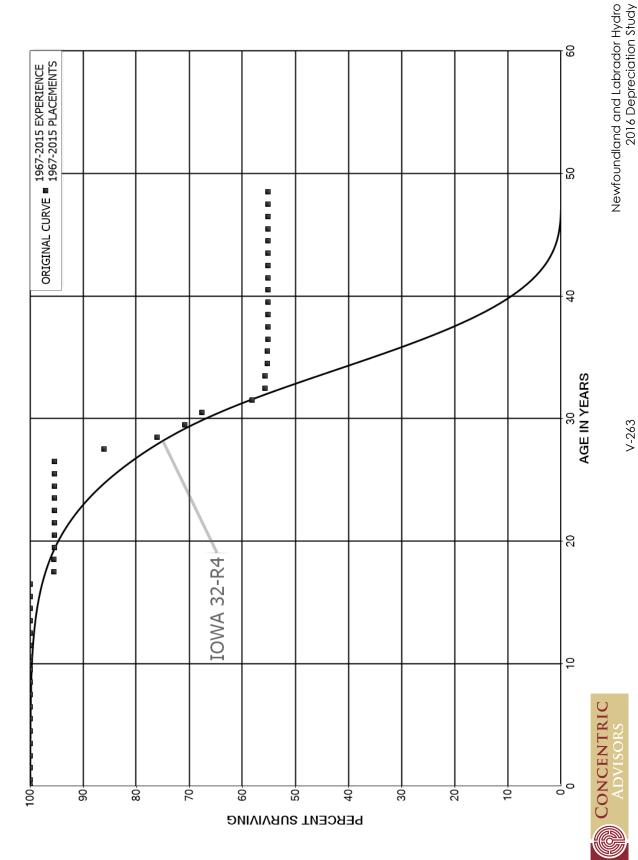
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S07 - STACKS

PLACEMENT BAND 1968-2015 EXPERIENCE BAND					D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	5,027,012 4,365,649 4,296,040 4,296,040 4,296,040 3,809,218 3,809,218 3,809,218	56,428	0.0000 0.0000 0.0000 0.0000 0.0131 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9869 1.0000 1.0000	93.79 93.79 93.79 93.79 93.79 92.56 92.56 92.56



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT SO8 - STATIC EXCITATION SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S08 - STATIC EXCITATION SYSTEM

PLACEMENT	BAND 1967-2015		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	13,697,385 13,016,565 13,016,565 11,796,837 11,233,766 11,233,766 11,233,766 11,233,766 11,233,766 11,233,766		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	11,233,766 11,233,766 10,585,051 9,994,625 9,405,190 9,388,601 9,059,543 9,059,543 8,633,626 8,633,626	405,819 6,733	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0448 0.0000 0.0008	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9552 1.0000 0.9992	100.00 100.00 100.00 100.00 100.00 100.00 100.00 95.52 95.52
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	8,626,892 8,626,892 8,626,892 8,626,892 8,498,957 8,498,957 8,498,957 8,277,464 7,464,167 6,600,084	2,227 811,162 864,084 461,167	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0003 0.0980 0.1158 0.0699	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9997 0.9020 0.8842 0.9301	95.45 95.45 95.45 95.45 95.45 95.45 95.45 95.42 86.07 76.11
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,138,917 5,866,532 5,044,521 4,830,380 4,805,335 4,772,597 3,277,853 3,272,434 3,272,434 3,264,434	272,384 822,012 214,141 32,738 5,000 5,419	0.0444 0.1401 0.0425 0.0000 0.0068 0.0010 0.0017 0.0000 0.0000	0.9556 0.8599 0.9575 1.0000 0.9932 0.9990 0.9983 1.0000 1.0000	70.79 67.65 58.17 55.70 55.70 55.32 55.26 55.17 55.17



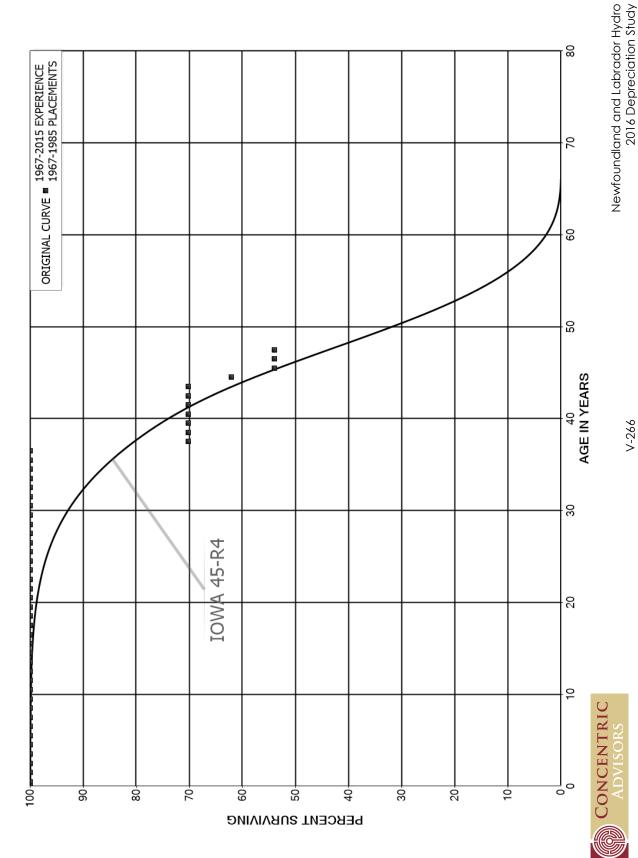
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S08 - STATIC EXCITATION SYSTEM

PLACEMENT E	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	3,256,434 3,223,516 3,186,792 3,186,792 3,186,792 3,186,792 2,498,060 2,498,060 951,236		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	55.17 55.17 55.17 55.17 55.17 55.17 55.17 55.17



ACCOUNT S09 - STATIC EXCITATION - TRANSFORMERS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S09 - STATIC EXCITATION - TRANSFORMERS

PLACEMENT E	BAND 1967-1985		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861 884,861		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	884,861 559,732 559,732 559,732 514,767 514,767 249,534 249,534 168,390 168,390	74,379	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.2981 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.7019 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 70.19 70.19



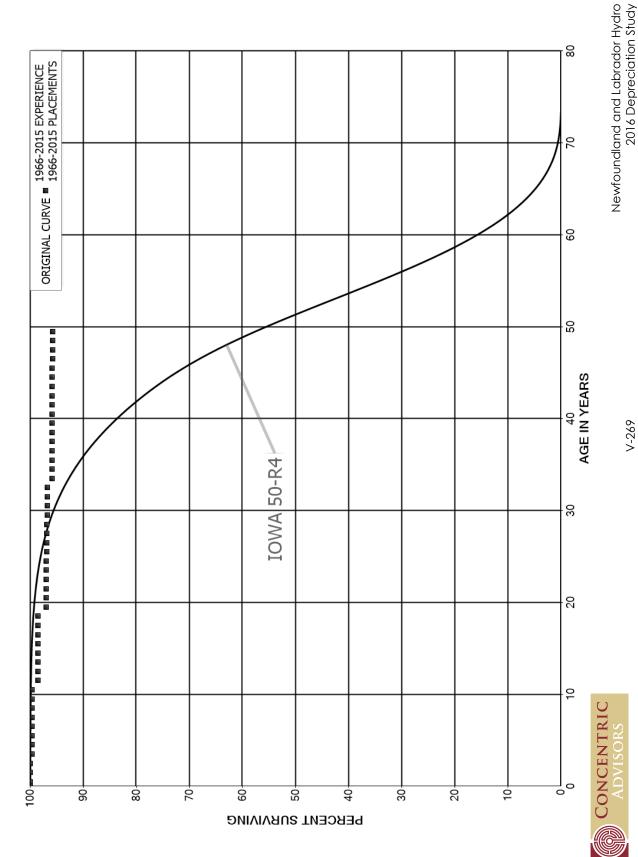
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S09 - STATIC EXCITATION - TRANSFORMERS

PLACEMENT E	BAND 1967-1985		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	168,390 168,390 168,390 168,390 168,390 148,923 129,455 129,455	19,468 19,468 37,221	0.0000 0.0000 0.0000 0.0000 0.1156 0.1307 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.8844 0.8693 1.0000	70.19 70.19 70.19 70.19 70.19 62.08 53.96 53.96 53.96



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S10 - STATION SERVICE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S10 - STATION SERVICE

PLACEMENT I	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	5,341,141 3,777,641 3,749,113 3,721,185 3,613,933 3,587,621 3,569,367 3,229,864 2,854,538 2,854,538	13,370	0.0000 0.0000 0.0000 0.0036 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9964 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 99.64 99.64 99.64 99.64 99.64
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,854,538 2,854,538 2,821,972 2,821,972 2,820,609 2,820,609 2,820,609 2,820,609 2,820,609 2,820,609 2,820,609	32,567 45,266	0.0000 0.0114 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0160	1.0000 0.9886 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9840	99.64 99.64 98.50 98.50 98.50 98.50 98.50 98.50 98.50
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	2,692,387 2,671,359 2,629,236 2,626,792 2,625,906 2,622,647 2,594,718 2,496,612 2,427,377 2,424,708	484 2,892 2,402	0.0000 0.0000 0.0000 0.0000 0.0002 0.0011 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9998 0.9989 1.0000 1.0000 0.9990	96.92 96.92 96.92 96.92 96.91 96.80 96.80 96.80
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,419,450 1,907,004 1,907,004 1,131,562 1,114,260 1,104,479 901,880 719,873 710,886 673,980	9,576 695	0.0000 0.0000 0.0000 0.0085 0.0006 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9915 0.9994 1.0000 1.0000 1.0000	96.70 96.70 96.70 96.70 95.88 95.82 95.82 95.82 95.82



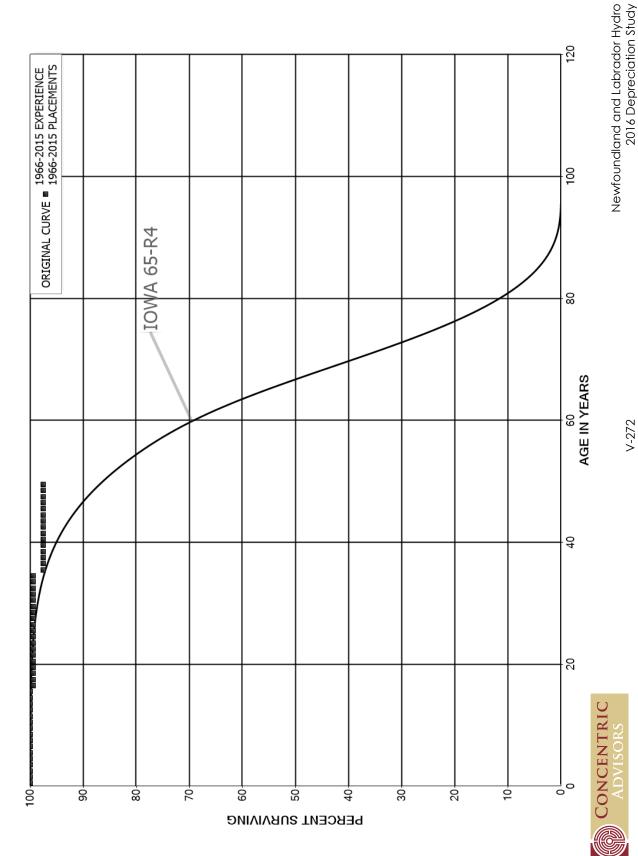
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S10 - STATION SERVICE

PLACEMENT H	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	673,980 672,480 672,030 671,793 671,793 519,921 518,898 518,582 511,196 491,605	237 316	0.0000 0.0000 0.0004 0.0000 0.0000 0.0000 0.0006 0.0000 0.0000	1.0000 1.0000 0.9996 1.0000 1.0000 0.9994 1.0000 1.0000	95.82 95.82 95.82 95.79 95.79 95.79 95.73 95.73
49.5					95.73



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S11 - STOP LOGS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S11 - STOP LOGS

PLACEMENT I	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	3,146,969 2,853,106 2,853,106 2,853,106 2,853,106 2,853,106 2,853,106 2,853,106 2,853,106 2,645,784		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,645,784 2,645,784 2,645,784 2,510,772 2,510,772 2,510,772 2,510,772 2,471,527 2,448,776 2,448,776	16,397	0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9935 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 99.35 99.35
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,448,776 2,448,776 2,448,776 2,448,776 2,448,776 2,448,776 2,448,776 2,448,776 2,383,388 2,383,388		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.35 99.35 99.35 99.35 99.35 99.35 99.35 99.35
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,383,388 2,383,388 2,187,620 2,175,246 884,391 884,391 867,916 305,958 305,958	16,475	0.0000 0.0000 0.0000 0.0000 0.0000 0.0186 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9814 1.0000 1.0000 1.0000	99.35 99.35 99.35 99.35 99.35 97.50 97.50 97.50



NEWFOUNDLAND AND LABRADOR HYDRO

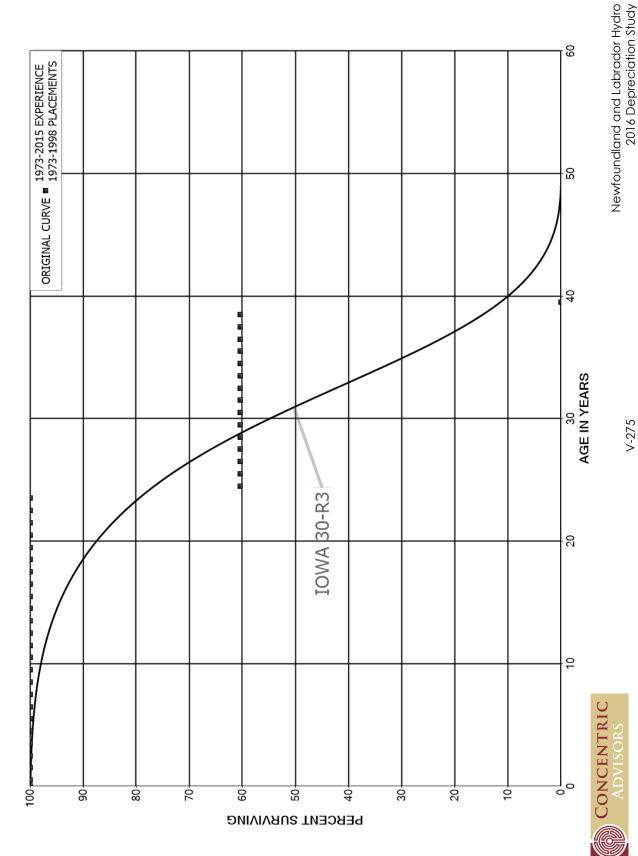
ACCOUNT S11 - STOP LOGS

PLACEMENT I	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	305,958 305,958 305,958 305,958 305,958 305,958 285,958 285,958 285,958 137,480		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	97.50 97.50 97.50 97.50 97.50 97.50 97.50 97.50 97.50
49.5					97.50



V-275

ACCOUNT S12 - STORAGE PALLETS AND RACKINGS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



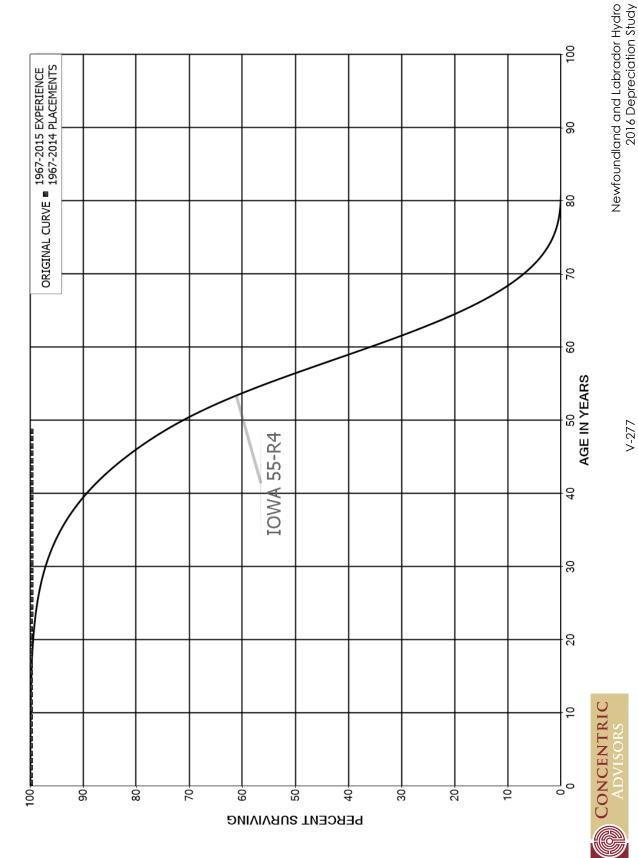
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S12 - STORAGE PALLETS AND RACKINGS

PLACEMENT H	BAND 1973-1998		EXPE	RIENCE BAN	ID 1973-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	33, 439 33, 439 33, 439 33, 439 33, 439 33, 439 33, 439 33, 439 33, 439		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	33, 439 33, 439 33, 439 33, 439 33, 439 33, 439 29, 742 29, 742		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	29,742 29,742 29,742 29,742 29,742 17,952 17,952 17,952 17,952 17,952	11,790	0.0000 0.0000 0.0000 0.0000 0.3964 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.6036 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 60.36 60.36 60.36 60.36
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	17,952 17,952 7,245 7,245 7,245 7,245 7,245 7,245 7,245 7,245	7,245	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	60.36 60.36 60.36 60.36 60.36 60.36 60.36 60.36
39.5					



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S13 - STORM AND YARD DRAINAGE ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S13 - STORM AND YARD DRAINAGE

PLACEMENT E	BAND 1967-2014		EXPE	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	1,311,021 1,311,021 1,274,643 1,199,628 1,199,628 1,199,628 1,199,628 1,132,337 1,132,337		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,132,337 1,132,337 1,132,337 1,132,337 1,132,337 1,132,337 1,132,337 1,132,337 1,132,337		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,132,337 1,100,589 1,100,589 1,100,589 1,058,425 1,028,005 991,410 988,122 987,158 981,498	2,307	0.0000 0.0000 0.0000 0.0021 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9979 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 99.79 99.79 99.79 99.79 99.79
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	981,498 607,268 607,268 369,288 369,288 369,288 108,814 108,814 108,814		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.79 99.79 99.79 99.79 99.79 99.79 99.79 99.79 99.79



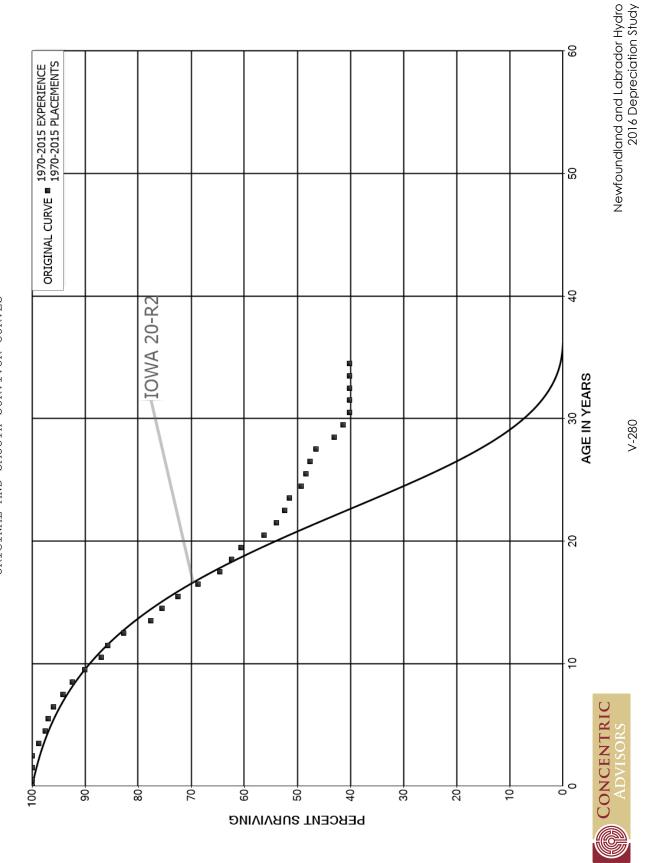
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S13 - STORM AND YARD DRAINAGE

PLACEMENT E	BAND 1967-2014		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	108,814 108,814 108,814 108,814 108,814 108,814 3,047 3,047		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.79 99.79 99.79 99.79 99.79 99.79 99.79 99.79
47.5 48.5	3,047		0.0000	1.0000	99.79 99.79



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S14 - STREET LIGHTS ORIGINAL AND SMOOTH SURVIVOR CURVES



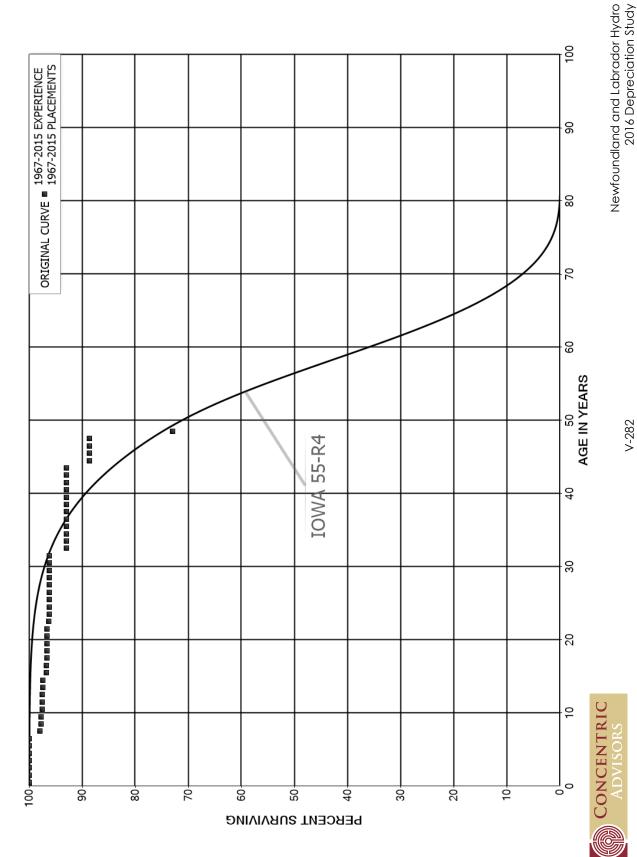
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S14 - STREET LIGHTS

PLACEMENT E	BAND 1970-2015		EXPE	RIENCE BAN	D 1970-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	4,790,929 4,505,158 4,310,573 4,017,528 3,781,275 3,463,905 3,252,992 2,986,806 2,712,883 2,493,576	911 3,122 48,174 44,305 21,013 34,922 55,916 50,181 61,414	0.0000 0.0002 0.0007 0.0120 0.0117 0.0061 0.0107 0.0187 0.0185 0.0246	1.0000 0.9998 0.9993 0.9880 0.9883 0.9939 0.9893 0.9813 0.9815	100.00 100.00 99.98 99.91 98.71 97.55 96.96 95.92 94.12 92.38
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,236,371 1,985,921 1,761,238 1,515,266 1,309,392 1,143,152 996,794 865,991 734,874 549,678	78,382 27,513 62,823 92,607 36,720 44,150 51,929 52,125 25,057 15,726	0.0350 0.0139 0.0357 0.0611 0.0280 0.0386 0.0521 0.0602 0.0341 0.0286	0.9650 0.9861 0.9643 0.9389 0.9720 0.9614 0.9479 0.9398 0.9659 0.9714	90.11 86.95 85.75 82.69 77.63 75.46 72.54 68.76 64.62 62.42
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	490,774 435,479 381,184 333,063 293,605 265,247 196,675 153,525 120,007 95,102	34,789 18,446 10,866 6,064 12,659 4,394 3,062 3,757 8,967 3,573	0.0709 0.0424 0.0285 0.0182 0.0431 0.0166 0.0156 0.0245 0.0747 0.0376	0.9291 0.9576 0.9715 0.9818 0.9569 0.9834 0.9755 0.9253	60.63 56.34 53.95 52.41 51.46 49.24 48.42 47.67 46.50 43.03
29.5 30.5 31.5 32.5 33.5 34.5	81,271 78,895 64,024 62,054 54,256	2,376	0.0292 0.0000 0.0000 0.0000 0.0000	0.9708 1.0000 1.0000 1.0000	41.41 40.20 40.20 40.20 40.20 40.20



ACCOUNT S15 - STRUCTURAL SUPPORTS (WOOD OR STEEL)
ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S15 - STRUCTURAL SUPPORTS (WOOD OR STEEL)

PLACEMENT	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	12,277,223 12,179,460 11,871,197 11,871,197 10,317,542 10,288,677 10,062,423 9,992,435 9,751,260 9,297,859	207,829 21,304	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0208 0.0022 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9792 0.9978 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 97.92 97.71
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	9,278,982 9,236,985 9,222,195 9,036,221 8,939,304 8,882,032 8,513,296 8,493,894 8,296,190 8,240,559	1,793 5,431 63,993	0.0026 0.0000 0.0000 0.0002 0.0006 0.0072 0.0000 0.0001 0.0000	0.9974 1.0000 1.0000 0.9998 0.9994 0.9928 1.0000 0.9999 1.0000	97.71 97.45 97.45 97.45 97.43 97.37 96.67 96.67 96.67
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	7,961,861 7,350,657 7,182,086 7,100,924 6,483,604 6,059,754 5,163,851 4,771,442 4,692,431 4,383,596	500 26,788 5,780 3,186	0.0001 0.0000 0.0037 0.0008 0.0005 0.0000 0.0000 0.0000 0.0000	0.9999 1.0000 0.9963 0.9992 0.9995 1.0000 1.0000 1.0000	96.67 96.66 96.66 96.30 96.22 96.18 96.18 96.18 96.18
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	4,307,874 4,296,130 4,281,964 3,825,207 3,148,194 2,886,049 2,632,494 2,266,710 1,426,301 1,272,759	140,974 2,126 274	0.0000 0.0000 0.0329 0.0006 0.0001 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9671 0.9994 0.9999 1.0000 1.0000 1.0000	96.18 96.18 96.18 93.01 92.96 92.95 92.95 92.95 92.95



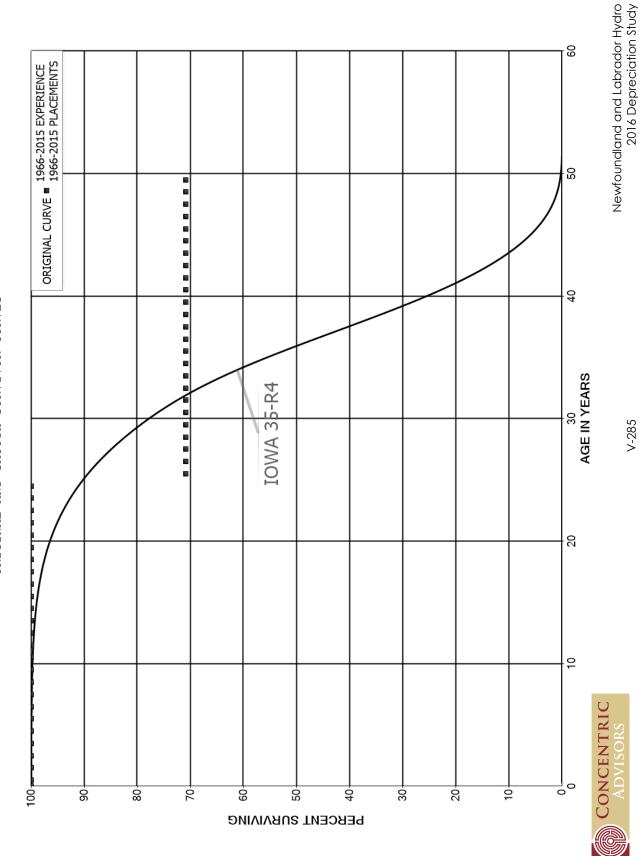
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S15 - STRUCTURAL SUPPORTS (WOOD OR STEEL)

PLACEMENT BAND 1967-2015 EXPERIENCE BAND				D 1967-2015
EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
1,186,025 1,096,654 1,055,841 1,055,841 1,055,841 1,002,463 377,439 377,439	49,499	0.0000 0.0000 0.0000 0.0000 0.0469 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9531 1.0000 1.0000	92.95 92.95 92.95 92.95 92.95 88.59 88.59 88.59
	EXPOSURES AT BEGINNING OF AGE INTERVAL 1,186,025 1,096,654 1,055,841 1,055,841 1,055,841 1,002,463 377,439	EXPOSURES AT BEGINNING OF AGE INTERVAL 1,186,025 1,096,654 1,055,841 1,055,841 1,055,841 1,002,463 377,439 377,439	EXPOSURES AT BEGINNING OF DURING AGE RETMT AGE INTERVAL INTERVAL RATIO 1,186,025 0.0000 1,096,654 0.0000 1,055,841 0.0000 1,055,841 49,499 0.0469 1,002,463 0.0000 377,439 0.0000 377,439 0.0000	EXPOSURES AT BEGINNING OF DURING AGE RETMT SURV AGE INTERVAL INTERVAL RATIO RATIO 1,186,025 0.0000 1.0000 1.0000 1.055,841 0.0000 1.0000 1.0000 1.055,841 0.005,841 0.0000 1.0000 1.055,841 0.055,841 0.0000 1.0000



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S17 - SUMP SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S17 - SUMP SYSTEMS

PLACEMENT E	BAND 1966-2015		EXPE	RIENCE BAN	D 1966-2015
AGE AT	EXPOSURES AT	RETIREMENTS			PCT SURV
BEGIN OF	BEGINNING OF	DURING AGE	RETMT	SURV	BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
0.0	725,064		0.0000	1.0000	100.00
0.5	296,458		0.0000	1.0000	100.00
1.5	296,458		0.0000	1.0000	100.00
2.5	296,458		0.0000	1.0000	100.00
3.5	296,458		0.0000	1.0000	100.00
4.5	296 , 458		0.0000	1.0000	100.00
5.5	296,458		0.0000	1.0000	100.00
6.5	220,838		0.0000	1.0000	100.00
7.5	220,838		0.0000	1.0000	100.00
8.5	220,838		0.0000	1.0000	100.00
9.5	220,838		0.0000	1.0000	100.00
10.5	220,838		0.0000	1.0000	100.00
11.5 12.5	220,838 220,838		0.0000	1.0000 1.0000	100.00 100.00
13.5	220,838		0.0000	1.0000	100.00
14.5	220,838		0.0000	1.0000	100.00
15.5	220,838		0.0000	1.0000	100.00
16.5	197,983		0.0000	1.0000	100.00
17.5	197,983		0.0000	1.0000	100.00
18.5	197,983		0.0000	1.0000	100.00
19.5	197,983		0.0000	1.0000	100.00
20.5	197,983		0.0000	1.0000	100.00
21.5	197,983		0.0000	1.0000	100.00
22.5	197,983		0.0000	1.0000	100.00
23.5	197,983		0.0000	1.0000	100.00
24.5	197 , 983	57 , 819	0.2920	0.7080	100.00
25.5	140,164		0.0000	1.0000	70.80
26.5	140,164		0.0000	1.0000	70.80
27.5	118,404		0.0000	1.0000	70.80
28.5	118,404		0.0000	1.0000	70.80
29.5	118,404		0.0000	1.0000	70.80
30.5	116,978		0.0000	1.0000	70.80
31.5	116,978		0.0000	1.0000	70.80
32.5	116,978		0.0000	1.0000	70.80
33.5	116,978		0.0000	1.0000	70.80
34.5 35.5	116,978 116,978		0.0000	1.0000	70.80 70.80
36.5	62,921		0.0000	1.0000	70.80
37.5	62,921		0.0000	1.0000	70.80
38.5	62,921		0.0000	1.0000	70.80
50.5	02, 321		0.0000	1.0000	70.00



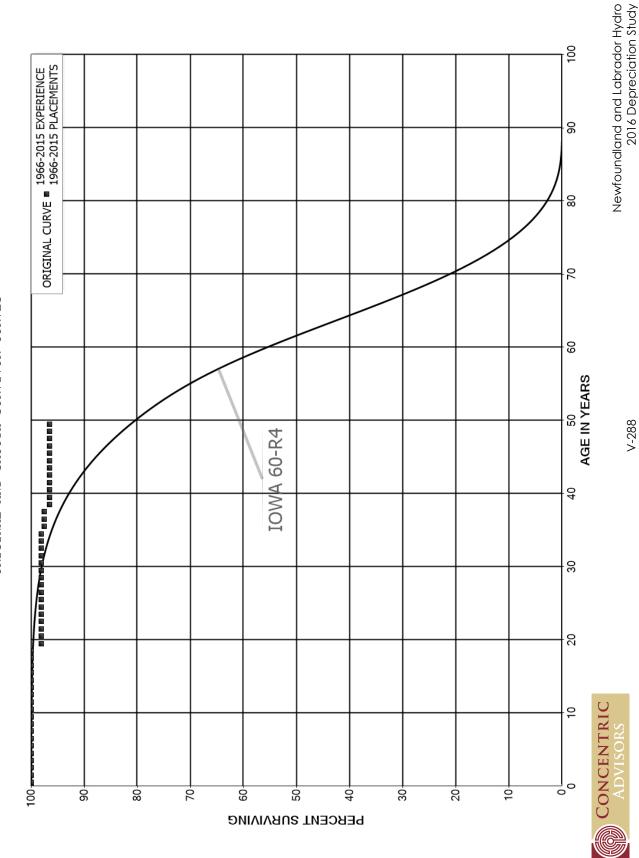
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S17 - SUMP SYSTEMS

PLACEMENT I	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	62,921 62,921 62,921 62,921 62,921 62,921 62,921 62,921 62,921		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	70.80 70.80 70.80 70.80 70.80 70.80 70.80 70.80 70.80 70.80
49.5					70.80



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S18 - SURGE SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S18 - SURGE SYSTEMS

PLACEMENT E	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	7,113,998 5,851,323 4,354,373 4,354,373 4,354,373 4,354,373 4,354,373 4,354,373 4,354,373 4,354,373		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	4,354,373 4,354,373 4,354,373 4,354,373 4,054,722 4,054,722 4,054,722 4,054,722 4,054,722 4,054,722	79,504	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0196	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9804	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	98.04 98.04 98.04 98.04 98.04 98.04 98.04 98.04 98.04
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,975,218 3,955,102 3,955,102 3,955,102 3,955,102 3,954,870	20,116	0.0000 0.0000 0.0000 0.0000 0.0000 0.0051 0.0000 0.0000 0.0102 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9949 1.0000 1.0000 0.9898 1.0000	98.04 98.04 98.04 98.04 98.04 97.54 97.54 97.54



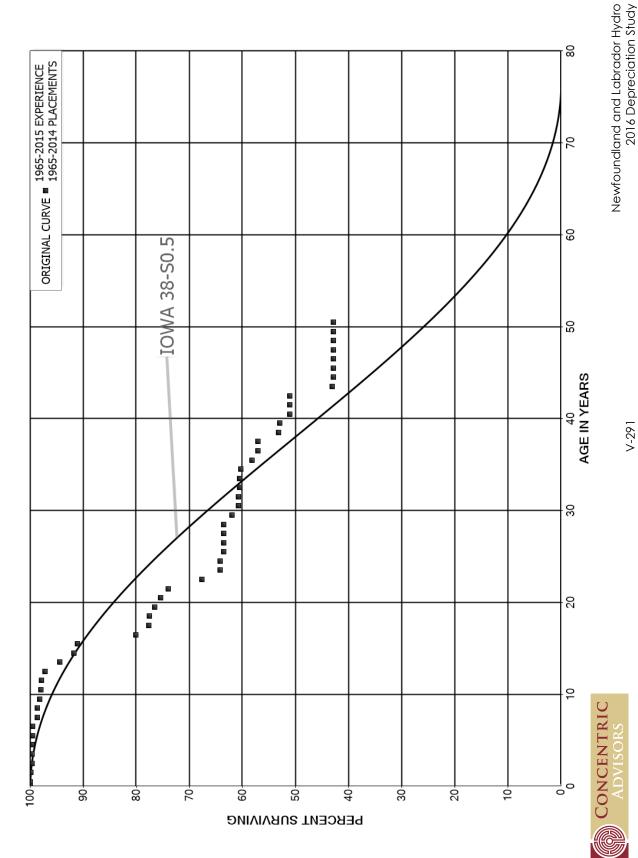
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S18 - SURGE SYSTEMS

PLACEMENT H	BAND 1966-2015		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	3,914,870 3,914,870 3,914,870 3,914,870 3,914,870 3,914,870 3,914,870 3,914,870 3,914,870 1,579,908	193 1,063	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9993	96.55 96.55 96.55 96.55 96.55 96.55 96.55 96.55
49.5					96.48



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT S19 - STATION SWITCHING ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S19 - STATION SWITCHING

PLACEMENT E	BAND 1965-2014		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5	14,987,536 14,987,536 13,544,458 13,389,022 13,328,869 12,879,443	30,076 30,286 11,835	0.0000 0.0020 0.0022 0.0000 0.0000	1.0000 0.9980 0.9978 1.0000 1.0000 0.9991	100.00 100.00 99.80 99.58 99.58 99.58
5.5 6.5 7.5 8.5	12,867,607 12,863,942 11,847,988 11,460,837	3,666 112,047 45,998	0.0003 0.0087 0.0000 0.0040	0.9997 0.9913 1.0000 0.9960	99.48 99.46 98.59 98.59
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	11,271,119 10,988,593 10,969,670 10,295,143 9,183,387 8,056,983 7,587,324 6,641,282 6,213,224 5,699,538	28,935 10,235 73,083 296,280 260,263 58,587 915,270 203,143 13,631 71,055	0.0026 0.0009 0.0067 0.0288 0.0283 0.0073 0.1206 0.0306 0.0022 0.0125	0.9974 0.9991 0.9933 0.9712 0.9717 0.9927 0.8794 0.9694 0.9978 0.9875	98.19 97.94 97.85 97.20 94.40 91.73 91.06 80.07 77.63 77.46
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,482,134 5,372,925 4,954,681 4,533,343 4,054,060 3,987,759 3,879,906 3,754,538 3,730,230 3,679,692	75,203 108,818 421,338 232,664 43,462	0.0137 0.0203 0.0850 0.0513 0.0000 0.0109 0.0000 0.0000 0.0000 0.0232	0.9863 0.9797 0.9150 0.9487 1.0000 0.9891 1.0000 1.0000 0.9768	76.49 75.44 73.91 67.63 64.16 64.16 63.46 63.46 63.46 63.46
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	3,559,218 1,027,242 918,837 914,696 791,491 724,263 442,403 433,400 433,400 403,804	70,855 4,141 1,920 25,334 9,003 29,596 1,054	0.0199 0.0000 0.0045 0.0000 0.0024 0.0350 0.0204 0.0000 0.0683 0.0026	0.9801 1.0000 0.9955 1.0000 0.9976 0.9650 0.9796 1.0000 0.9317 0.9974	61.98 60.75 60.75 60.48 60.48 60.33 58.22 57.03 57.03



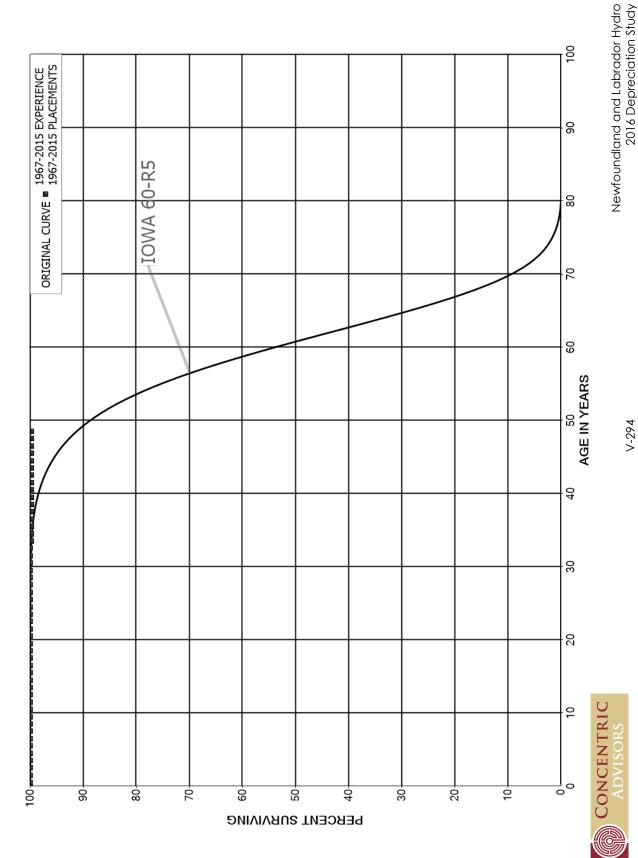
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S19 - STATION SWITCHING

PLACEMENT BAND 1965-2014 EXE				RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5	402,750 388,449 388,449 308,438 259,776 258,441 257,441	14,301 48,663 1,335	0.0355 0.0000 0.0000 0.1578 0.0051 0.0000	0.9645 1.0000 1.0000 0.8422 0.9949 1.0000	53.00 51.12 51.12 51.12 43.05 42.83 42.83
46.5 47.5 48.5 49.5 50.5	257,441 95,999 95,999 95,999		0.0000 0.0000 0.0000	1.0000 1.0000 1.0000	42.83 42.83 42.83 42.83 42.83



ACCOUNT S20 - SWITCHING SYSTEMS - L.V. ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S20 - SWITCHING SYSTEMS - L.V.

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,306,330 1,960,879 1,811,180 1,811,180 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,809,042 1,795,661 1,795,661		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,795,661 765,324 765,324 707,369 364,335 364,335 71,442 71,442 28,493 28,493	1,722	0.0000 0.0000 0.0000 0.0024 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.9976 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 99.76 99.76 99.76 99.76 99.76 99.76



NEWFOUNDLAND AND LABRADOR HYDRO

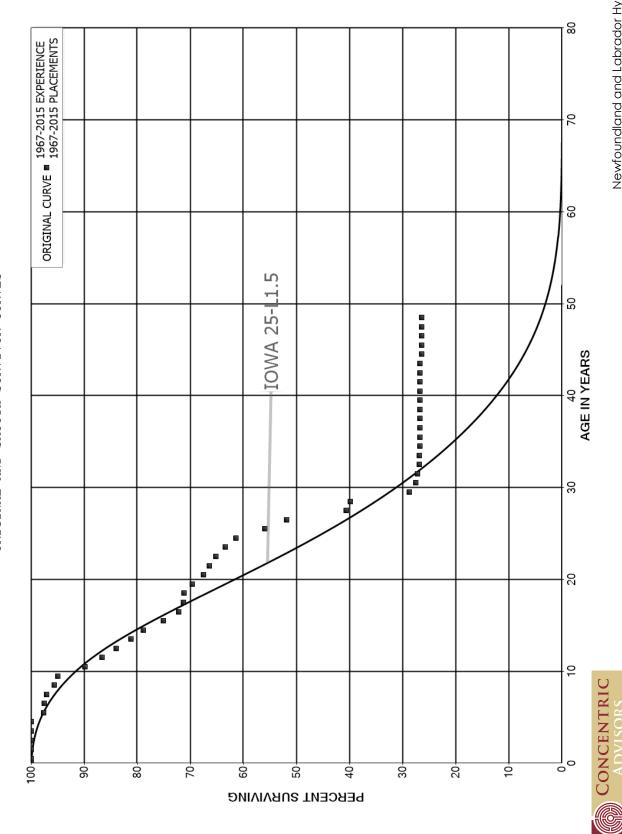
ACCOUNT S20 - SWITCHING SYSTEMS - L.V.

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	28,493 28,493 28,493 28,493 28,493 28,493 23,423 11,423		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	99.76 99.76 99.76 99.76 99.76 99.76 99.76 99.76



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT T01 - TELECONTROL SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T01 - TELECONTROL SYSTEM

PLACEMENT	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5	19,199,483 18,510,064 18,310,634 18,000,446 17,202,985 15,075,735 13,947,912 13,789,637 13,042,480 12,692,265 12,486,781 11,743,989	1,631 11,656 352,364 4,840 66,036 194,359 88,720 673,815 420,613	0.0000 0.0000 0.0001 0.0006 0.0000 0.0234 0.0003 0.0048 0.0149 0.0070 0.0540 0.0358	1.0000 1.0000 0.9999 0.9994 1.0000 0.9766 0.9997 0.9952 0.9851 0.9930	100.00 100.00 100.00 99.99 99.93 99.93 97.59 97.56 97.09 95.64 94.97 89.85
11.5 12.5 13.5 14.5 15.5 16.5 17.5	11,138,133 9,517,145 8,914,288 8,035,109 7,410,979 6,465,242 6,274,301 6,033,283	348,807 315,280 249,255 391,488 287,039 70,023 10,860 136,290	0.0313 0.0331 0.0280 0.0487 0.0387 0.0108 0.0017 0.0226	0.9687 0.9669 0.9720 0.9513 0.9613 0.9892 0.9983 0.9774	86.63 83.92 81.14 78.87 75.03 72.12 71.34 71.22
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,746,169 5,232,026 5,145,221 5,044,135 4,698,390 4,536,500 4,067,439 3,744,346 2,916,250 2,830,872	174,088 86,805 91,571 135,495 152,797 401,226 297,921 815,621 52,918 790,317	0.0303 0.0166 0.0178 0.0269 0.0325 0.0884 0.0732 0.2178 0.0181 0.2792	0.9697 0.9834 0.9822 0.9731 0.9675 0.9116 0.9268 0.7822 0.9819 0.7208	69.61 67.50 66.38 65.20 63.45 61.38 55.95 51.86 40.56 39.82
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	2,040,555 1,829,540 1,797,594 1,775,483 1,745,127 1,736,397 1,057,081 1,057,081 1,028,979 985,184	85,767 18,823 22,110 4,829 8,730	0.0420 0.0103 0.0123 0.0027 0.0050 0.0000 0.0000 0.0000 0.0000	0.9580 0.9897 0.9877 0.9973 0.9950 1.0000 1.0000 1.0000	28.71 27.50 27.22 26.88 26.81 26.67 26.67 26.67 26.67



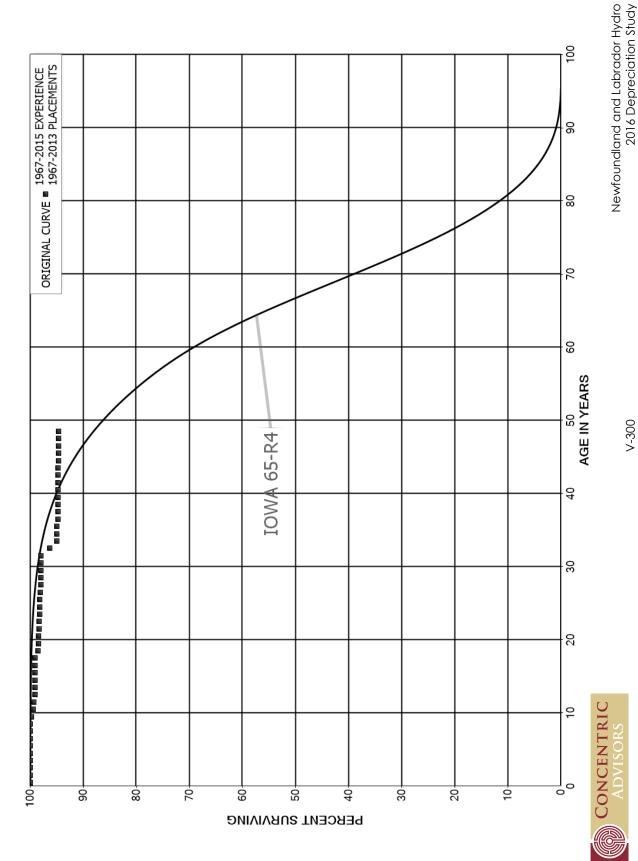
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T01 - TELECONTROL SYSTEM

PLACEMENT	BAND 1967-2015		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	977,989 939,761 800,037 800,037 791,925 305,809 305,809 155,517	8,113	0.0000 0.0000 0.0000 0.0000 0.0101 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9899 1.0000 1.0000	26.67 26.67 26.67 26.67 26.67 26.40 26.40 26.40 26.40



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT TO4 - TOWERS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T04 - TOWERS

PLACEMENT	BAND 1967-2013		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5	79,600,586 79,600,586 79,600,586 79,567,365 74,039,634 73,866,151 73,763,472 73,763,472	7,600 2,280	0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 0.9999 1.0000 1.0000 1.0000	100.00 100.00 100.00 99.99 99.99 99.99 99.99
7.5 8.5	73,761,192 72,263,060	170,680	0.0000 0.0024	1.0000 0.9976	99.99 99.99
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	72,092,380 71,859,731 69,685,171 65,326,035 57,728,762 53,667,989 46,005,128 45,193,882 45,193,882 44,957,753	232,649 121,423 164,133 236,129 44,232	0.0032 0.0017 0.0024 0.0000 0.0000 0.0000 0.0000 0.0000 0.0052 0.0010	0.9968 0.9983 0.9976 1.0000 1.0000 1.0000 1.0000 1.0000 0.9948 0.9990	99.75 99.43 99.26 99.03 99.03 99.03 99.03 99.03 99.03 99.03
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	44,884,788 44,884,788 44,803,115 44,670,344 44,666,932 43,190,983 39,217,234 38,506,736 37,963,098 37,963,098	81,674 959 3,412 30,006 6,005 17,827 38,423	0.0000 0.0018 0.0000 0.0001 0.0007 0.0001 0.0005 0.0010 0.0000	1.0000 0.9982 1.0000 0.9999 0.9993 0.9999 0.9995 0.9990 1.0000	98.41 98.41 98.23 98.23 98.22 98.16 98.14 98.10 98.00 98.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5	37,963,098 23,010,552 22,684,833 17,081,479 16,826,528 16,693,350 16,685,600 16,651,431 16,651,431 12,505,973	43,091 375,208 227,210 7,750 34,169	0.0011 0.0000 0.0165 0.0133 0.0000 0.0005 0.0020 0.0000 0.0000	0.9989 1.0000 0.9835 0.9867 1.0000 0.9995 0.9980 1.0000 1.0000	98.00 97.89 97.89 96.27 94.99 94.95 94.75 94.75



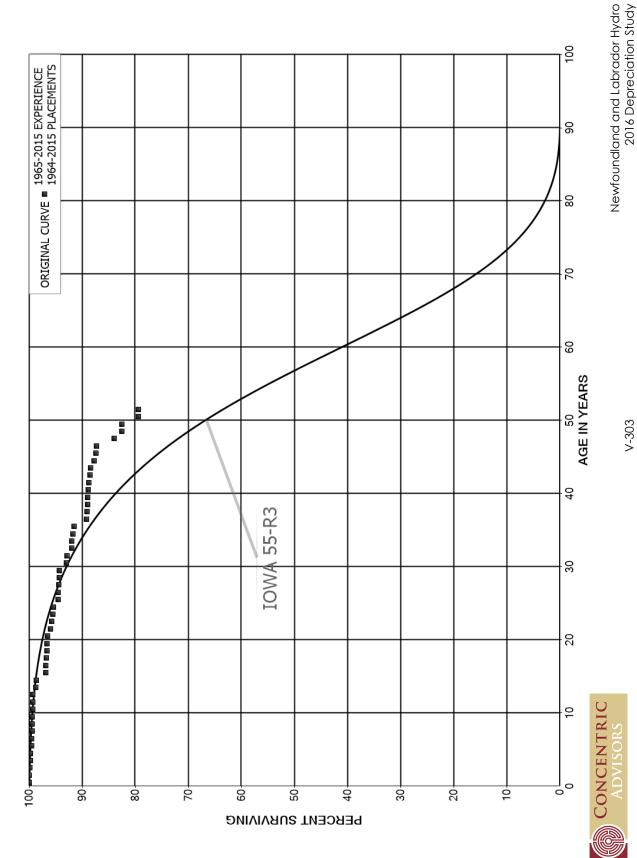
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T04 - TOWERS

PLACEMENT BAND 1967-2013 EXPERIENCE BAND 1967-					D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	12,438,050 12,438,050 12,110,026 12,110,026 12,110,026 12,093,722 11,446,353 11,446,353 7,774,613	16,304	0.0000 0.0000 0.0000 0.0000 0.0013 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9987 1.0000 1.0000 1.0000	94.75 94.75 94.75 94.75 94.75 94.63 94.63 94.63 94.63



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT T05 - TRANSFORMERS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T05 - TRANSFORMERS

PLACEMENT I	BAND 1964-2015		EXPEF	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	95,857,145 88,122,308 87,306,677 83,964,424 79,640,935 78,308,268 77,048,931 73,335,629 73,162,681 71,487,233	44,665 85,098 86,565 2,646 151,515 63,822 76,919 2,100	0.0000 0.0005 0.0010 0.0010 0.0000 0.0019 0.0008 0.0010 0.0000	1.0000 0.9995 0.9990 0.9990 1.0000 0.9981 0.9992 0.9990 1.0000	100.00 100.00 99.95 99.85 99.75 99.75 99.55 99.47 99.37
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	71,305,019 70,725,698 69,555,115 68,284,510 65,467,625 65,302,912 63,964,689 63,746,431 61,628,637 61,455,645	32,828 7,335 17,569 399,150 68,388 1,159,208 22,254 45,664 68,254 28,619	0.0005 0.0001 0.0003 0.0058 0.0010 0.0178 0.0003 0.0007 0.0011	0.9995 0.9999 0.9997 0.9942 0.9990 0.9822 0.9997 0.9993 0.9989 0.9995	99.36 99.32 99.31 99.28 98.70 98.60 96.85 96.81 96.75 96.64
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	59,296,221 56,400,128 55,900,930 55,128,410 54,501,695 53,955,513 50,310,923 45,550,027 43,779,727 43,335,243	74,827 274,922 134,546 169,465 58,870 462,135 38,486 59,609 52,574 6,946	0.0013 0.0049 0.0024 0.0031 0.0011 0.0086 0.0008 0.0013 0.0012	0.9987 0.9951 0.9976 0.9969 0.9989 0.9914 0.9992 0.9987 0.9988 0.9998	96.59 96.47 96.00 95.77 95.48 95.37 94.56 94.48 94.36 94.25
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	41,977,199 38,116,191 37,977,943 37,344,865 36,287,993 35,054,159 31,704,163 30,739,599 25,293,691 21,654,288	558,539 76,284 332,661 34,653 77,705 80,185 794,690 44,523 17,718 19,455	0.0133 0.0020 0.0088 0.0009 0.0021 0.0023 0.0251 0.0014 0.0007 0.0009	0.9867 0.9980 0.9912 0.9991 0.9979 0.9977 0.9749 0.9986 0.9993 0.9991	94.23 92.98 92.79 91.98 91.89 91.70 91.49 89.19 89.06



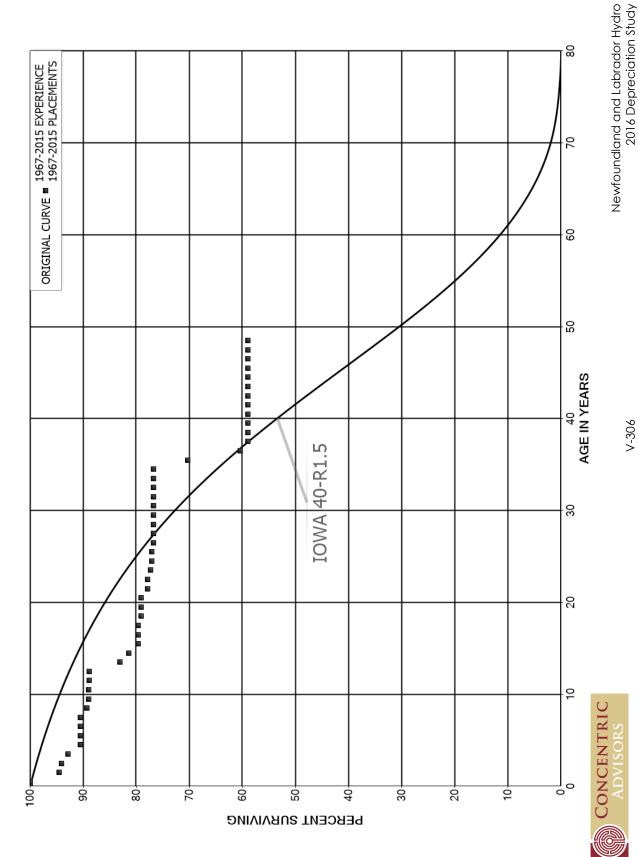
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T05 - TRANSFORMERS

PLACEMENT	BAND 1964-2015		EXPE	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	21,367,880 21,012,271 19,792,714 19,723,384 18,859,494 16,378,658 8,134,007 6,541,534 5,198,559 2,559,705	25,149 20,930 38,836 26,747 141,679 62,522 10,840 255,505 88,284	0.0012 0.0010 0.0020 0.0014 0.0075 0.0038 0.0013 0.0391 0.0170 0.0000	0.9988 0.9990 0.9980 0.9986 0.9925 0.9962 0.9987 0.9609 0.9830 1.0000	88.92 88.82 88.73 88.55 88.43 87.77 87.44 87.32 83.91 82.48
49.5 50.5 51.5	2,264,269 10,236	83,535	0.0369	0.9631 1.0000	82.48 79.44 79.44



ACCOUNT TO6 - TRANSFORMERS - PAD MOUNT ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T06 - TRANSFORMERS - PAD MOUNT

PLACEMENT E	EXPERIENCE BAND 1967-2015				
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	19,339,323 19,025,934 5,438,744 5,236,512 3,461,719 3,222,545 3,042,969 2,910,912 2,600,334 2,466,035	1,037,385 30,758 67,945 85,606	0.0000 0.0545 0.0057 0.0130 0.0247 0.0000 0.0000 0.0000 0.0138 0.0035	1.0000 0.9455 0.9943 0.9870 0.9753 1.0000 1.0000 1.0000 0.9862 0.9965	100.00 100.00 94.55 94.01 92.79 90.50 90.50 90.50 90.50 89.25
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	2,358,118 2,291,822 2,220,050 2,189,344 1,952,037 1,557,037 1,480,587 1,434,899 1,434,157 1,353,006	1,547 143,918 38,858 34,478	0.0000 0.0007 0.0000 0.0657 0.0199 0.0221 0.0000 0.0000 0.0061 0.0000	1.0000 0.9993 1.0000 0.9343 0.9801 0.9779 1.0000 1.0000 0.9939 1.0000	88.94 88.94 88.88 83.04 81.39 79.58 79.58 79.58
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	1,196,585 1,186,320 1,028,887 995,883 895,282 810,675 742,670 742,670 694,732	18,186 7,468 2,527 4,037	0.0000 0.0153 0.0000 0.0075 0.0028 0.0000 0.0050 0.0050 0.0000	1.0000 0.9847 1.0000 0.9925 0.9972 1.0000 0.9950 1.0000 1.0000	79.10 79.10 77.89 77.89 77.30 77.08 77.08 76.70 76.70
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	694,732 667,713 653,479 582,832 455,538 387,862 355,488 305,319 298,008 298,008	32,374 50,169 7,311	0.0000 0.0000 0.0000 0.0000 0.0000 0.0835 0.1411 0.0239 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9165 0.8589 0.9761 1.0000	76.70 76.70 76.70 76.70 76.70 76.70 70.30 60.38 58.93 58.93



NEWFOUNDLAND AND LABRADOR HYDRO

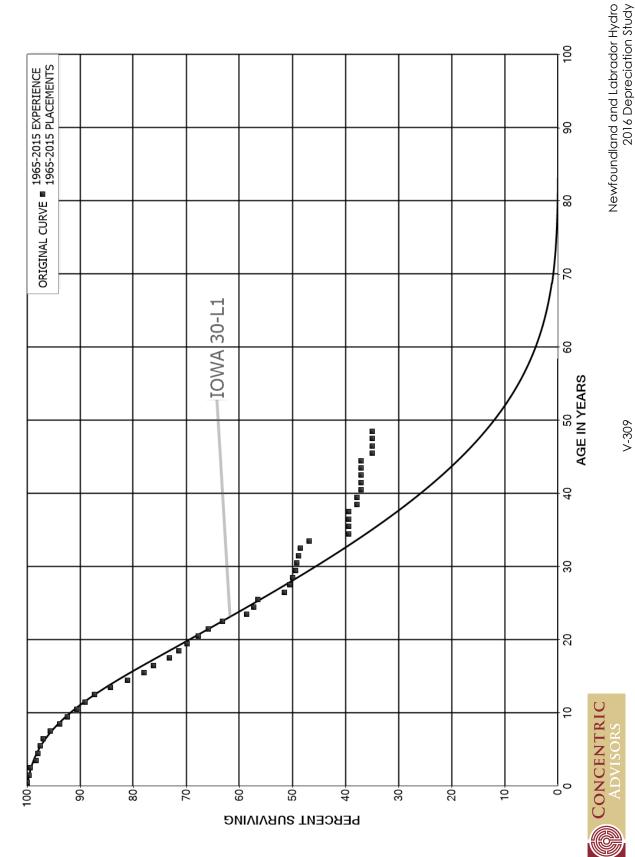
ACCOUNT T06 - TRANSFORMERS - PAD MOUNT

BEGIN OF INTERVAL BEGINNING OF INTERVAL DURING AGE RETMT RATIO SURV RATIO BEGINTERVAL 39.5 298,008 0.0000 1.0000 5 40.5 298,008 0.0000 1.0000 5 41.5 274,029 0.0000 1.0000 5	7-2015
40.5 298,008 0.0000 1.0000 5 41.5 274,029 0.0000 1.0000 5	SURV N OF RVAL
43.5 274,029 0.0000 1.0000 5 44.5 274,029 0.0000 1.0000 5 45.5 195,242 0.0000 1.0000 5 46.5 195,242 0.0000 1.0000 5	8.93 8.93 8.93 8.93 8.93 8.93 8.93 8.93



V-309

ACCOUNT T07 - TRANSFORMERS - POLE MOUNTED ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T07 - TRANSFORMERS - POLE MOUNTED

PLACEMENT 1	BAND 1965-2015		EXPER	RIENCE BAN	D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	43,804,624 41,387,708 37,951,239 34,300,336 30,404,497 26,498,939 24,036,269 22,186,028 20,807,119 19,123,371	154,817 97,742 388,576 103,376 101,334 138,131 312,976 375,541 300,274	0.0000 0.0037 0.0026 0.0113 0.0034 0.0038 0.0057 0.0141 0.0180 0.0157	1.0000 0.9963 0.9974 0.9887 0.9966 0.9962 0.9943 0.9859 0.9820 0.9843	100.00 100.00 99.63 99.37 98.24 97.91 97.54 96.97 95.61 93.88
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	17,823,982 16,466,088 15,366,282 14,092,016 12,790,215 11,670,634 10,538,290 9,600,508 8,621,213 7,288,480	336,369 299,150 291,170 483,117 491,814 445,063 252,623 374,858 201,789 166,518	0.0189 0.0182 0.0189 0.0343 0.0385 0.0381 0.0240 0.0390 0.0234 0.0228	0.9811 0.9818 0.9811 0.9657 0.9615 0.9619 0.9760 0.9610 0.9766 0.9772	92.41 90.66 89.02 87.33 84.34 81.09 78.00 76.13 73.16 71.45
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	6,226,539 5,461,653 5,024,915 4,519,138 3,321,858 2,979,311 2,668,644 2,183,299 1,975,636 1,497,522	181,504 154,378 204,742 329,705 70,736 39,725 236,710 44,916 19,057 17,463	0.0292 0.0283 0.0407 0.0730 0.0213 0.0133 0.0887 0.0206 0.0096 0.0117	0.9708 0.9717 0.9593 0.9270 0.9787 0.9867 0.9113 0.9794 0.9904 0.9883	69.81 67.78 65.86 63.18 58.57 57.32 56.56 51.54 50.48 49.99
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	1,304,970 1,147,953 983,742 759,544 602,543 78,504 78,504 78,181 67,297 64,589	5,411 8,622 6,192 26,243 96,039	0.0041 0.0075 0.0063 0.0346 0.1594 0.0000 0.0000 0.0000 0.0402 0.0000	0.9959 0.9925 0.9937 0.9654 0.8406 1.0000 1.0000 0.9598 1.0000	49.41 49.21 48.84 48.53 46.85 39.38 39.38 39.38 39.38 39.38



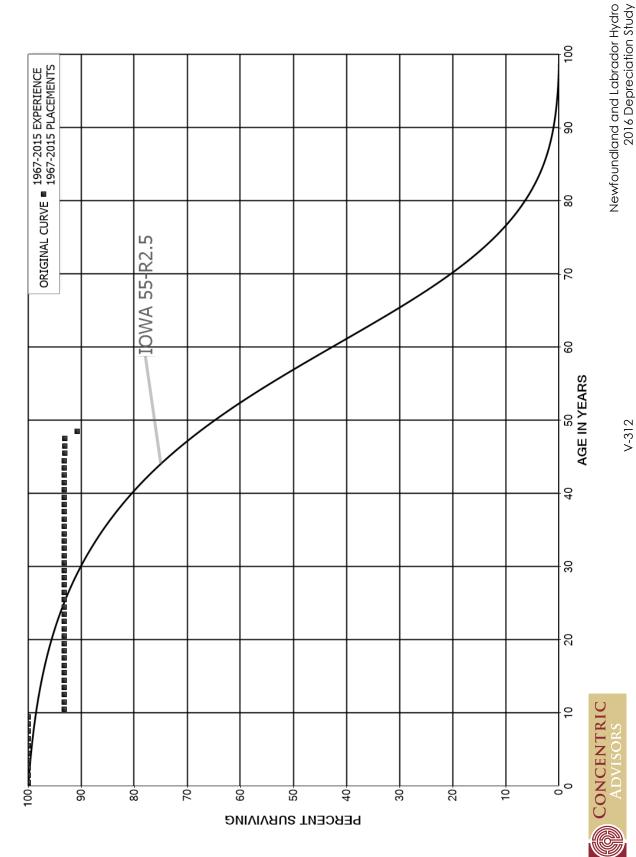
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T07 - TRANSFORMERS - POLE MOUNTED

PLACEMENT BAND 1965-2015 EXPERIENC					D 1965-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5	64,589 63,335 63,335 63,335 63,335	1,253	0.0194 0.0000 0.0000 0.0000 0.0000	0.9806 1.0000 1.0000 1.0000 1.0000	37.80 37.07 37.07 37.07 37.07
44.5 45.5 46.5 47.5 48.5	63,024 16,201 16,201 12,695	3,526	0.0559 0.0000 0.0000 0.0000	0.9441 1.0000 1.0000 1.0000	37.07 34.99 34.99 34.99 34.99



ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT T09 - TURBINES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T09 - TURBINES

PLACEMENT	BAND 1967-2015		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	104,485,714 92,867,454 87,453,107 74,877,766 73,185,902 73,185,902 72,755,889 71,700,417 71,700,417 69,995,413		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	69,078,643 64,400,143 64,400,143 52,470,546 52,470,546 52,470,546 52,470,546 52,470,546 52,470,546 52,470,546	4,678,499	0.0677 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.9323 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 93.23 93.23 93.23 93.23 93.23 93.23 93.23 93.23
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	52,470,546 52,468,967 52,468,967 52,468,967 52,468,967 52,468,967 52,468,967 50,881,792 43,971,956 43,963,063		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	93.23 93.23 93.23 93.23 93.23 93.23 93.23 93.23 93.23
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	43,963,063 33,036,048 33,036,048 32,989,272 25,897,915 25,897,915 16,711,577 16,711,577 12,468,906 12,248,799	2,201	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0002	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9998 1.0000	93.23 93.23 93.23 93.23 93.23 93.23 93.23 93.23 93.23



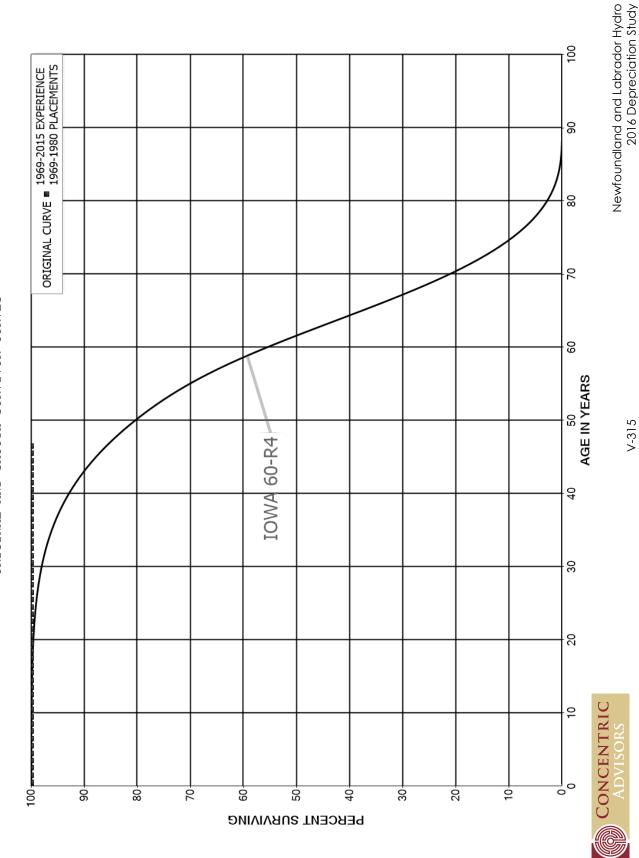
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T09 - TURBINES

PLACEMENT	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	12,248,799 12,146,926 12,146,926 12,146,926 12,141,587 12,110,248 10,418,575 10,418,575 1,806,578	5,339 5,339 8,333 4,593 43,789	0.0000 0.0000 0.0000 0.0004 0.0004 0.0007 0.0000 0.0004 0.0242	1.0000 1.0000 1.0000 0.9996 0.9996 0.9993 1.0000 0.9996 0.9758	93.21 93.21 93.21 93.21 93.17 93.13 93.06 93.06 93.02



ACCOUNT VO1 - VACUUM CLEANING SYSTEM ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V01 - VACUUM CLEANING SYSTEM

PLACEMENT E	BAND 1969-1980		EXPEF	RIENCE BAN	D 1969-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451 72,451		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	72,451 72,451 72,451 72,451 72,451 72,451 23,574 23,574 23,574 23,574		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



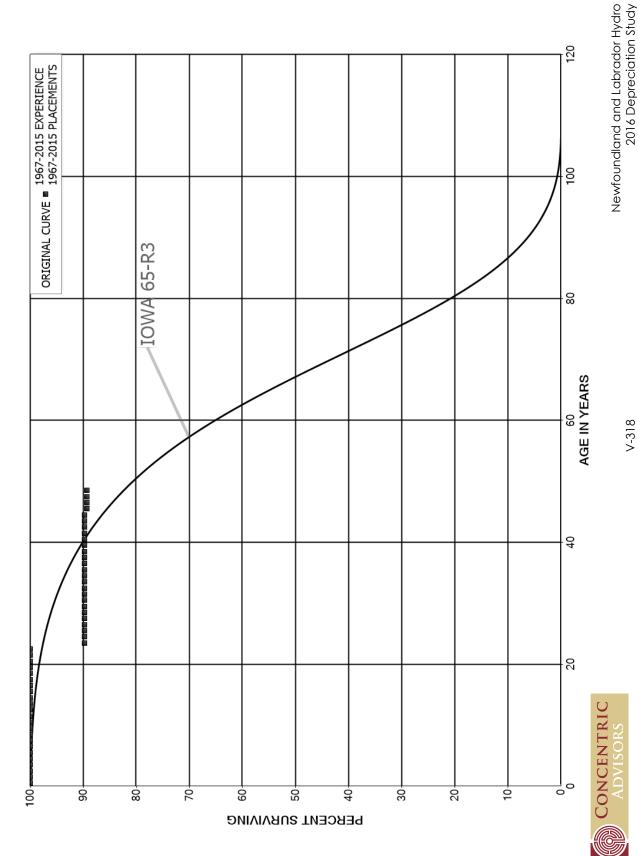
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V01 - VACUUM CLEANING SYSTEM

PLACEMENT BAND 1969-1980 EXPERIENCE BAND 1969					
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5	23,574 23,574 23,574 23,574 23,574 23,574 23,574		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT VO2 - VALVES - PENSTOCK NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V02 - VALVES - PENSTOCK

PLACEMENT I	BAND 1967-2015		EXPER	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	8,073,931 7,853,424 7,853,424 7,853,424 7,853,424 7,853,424 7,853,424 7,853,424 5,978,246 5,848,451		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	5,671,553 5,459,235 5,247,883 5,011,386 5,011,386 4,816,450 4,816,450 4,816,450 4,816,450 4,816,450		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	4,816,450 4,816,450 4,816,450 4,816,450 4,318,951 4,318,951 4,318,951 4,318,951 4,316,519 4,316,519	497 , 499	0.0000 0.0000 0.0000 0.1033 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 0.8967 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 89.67 89.67 89.67 89.67 89.67 89.67
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	4,316,519 2,111,625 2,111,625 2,111,625 2,089,406 2,089,406 2,089,406 2,089,406 2,089,406 1,985,406		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	89.67 89.67 89.67 89.67 89.67 89.67 89.67 89.67 89.67



NEWFOUNDLAND AND LABRADOR HYDRO

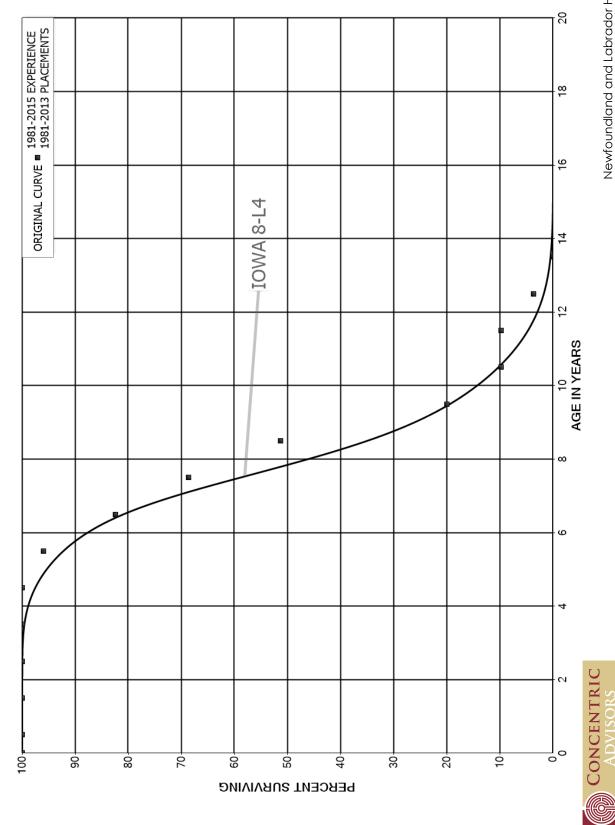
ACCOUNT V02 - VALVES - PENSTOCK

ORIGINAL LIFE TABLE, CONT.

PLACEMENT	BAND 1967-2015		EXPEF	RIENCE BAN	D 1967-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	1,985,406 1,971,105 1,971,105 1,971,105 1,971,105 1,971,105 1,415,205 1,415,205 1,415,205	8,672	0.0000 0.0000 0.0000 0.0000 0.0000 0.0044 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 0.9956 1.0000 1.0000	89.67 89.67 89.67 89.67 89.67 89.28 89.28 89.28



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT VO3 - VEHICLES - 1 TON ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V03 - VEHICLES - 1 TON

PLACEMENT H	BAND 1981-2013		EXPE	RIENCE BAN	D 1981-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	379,343 379,343 379,343 327,695 327,695 327,695 314,412 270,173 224,780 168,014	13,283 44,240 45,393 56,766 102,809	0.1407 0.1680	1.0000 1.0000 1.0000 1.0000 1.0000 0.9595 0.8593 0.8320 0.7475 0.3881	100.00 100.00 100.00 100.00 100.00 100.00 95.95 82.45 68.59 51.27
9.5 10.5 11.5 12.5 13.5	65,206 31,715 31,715 11,838	33,491 19,876 11,838	0.5136 0.0000 0.6267 1.0000	0.4864 1.0000 0.3733	19.90 9.68 9.68 3.61



Newfoundland and Labrador Hydro 2016 Depreciation Study

V-323

NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

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РЕВСЕИТ ЗИВУІУІИС

ORIGINAL CURVE ■ 1977-2015 EXPERIENCE 1977-2015 PLACEMENTS 25 ACCOUNT VO4 - VEHICLES - 3/4 TON AND UNDER 2 IOWA 7-LB ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO AGE IN YEARS 9 Ŋ CONCENTRIC

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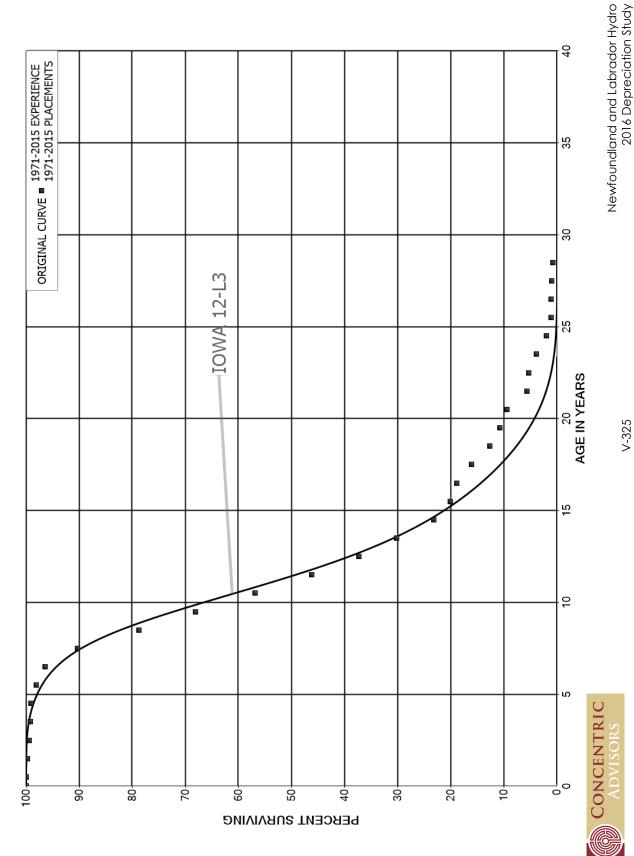
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V04 - VEHICLES - 3/4 TON AND UNDER

PLACEMENT I	BAND 1977-2015		EXPE	RIENCE BAN	D 1977-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	13,593,915 12,522,318 11,803,485 11,521,445 10,756,433 9,466,923 6,450,055 4,070,137 2,481,830 1,302,139	14,631 568,573 2,199,136 1,927,343 1,512,403 923,593 698,230		1.0000 1.0000 1.0000 0.9987 0.9471 0.7677 0.7012 0.6284 0.6279 0.4638	100.00 100.00 100.00 100.00 99.87 94.59 72.62 50.92 32.00 20.09
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	603,909 317,713 217,530 83,997 80,446 17,807 17,807 15,275 6,480 6,480	286,197 79,109 133,534 3,550 62,639 2,532 8,795	0.4739 0.2490 0.6139 0.0423 0.7786 0.0000 0.1422 0.5758 0.0000 0.7001	0.5261 0.7510 0.3861 0.9577 0.2214 1.0000 0.8578 0.4242 1.0000 0.2999	9.32 4.90 3.68 1.42 1.36 0.30 0.30 0.26 0.11
19.5 20.5	1,943	1,943	1.0000		0.03



ACCOUNT V05 - VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



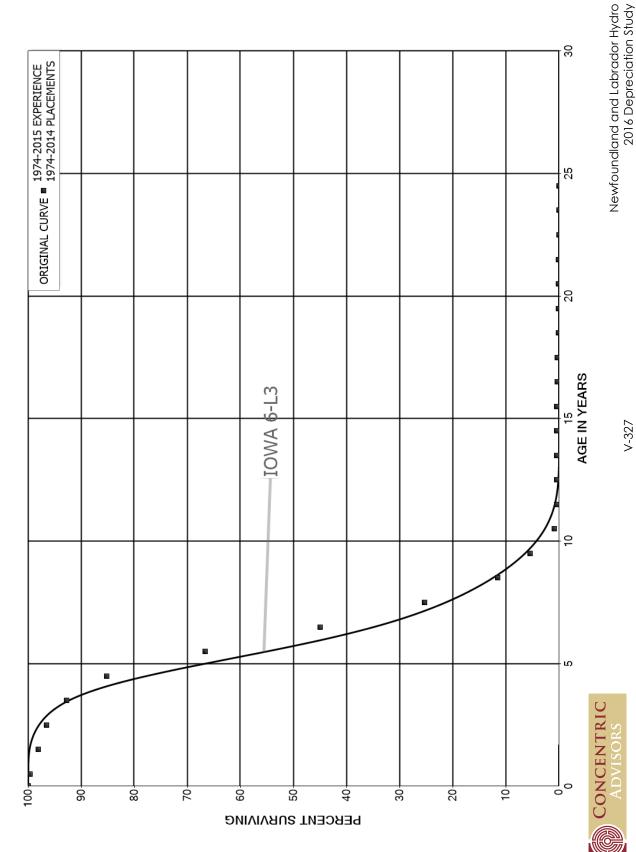
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V05 - VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS

PLACEMENT BAND 1971-2015		EXPE	RIENCE BAN	D 1971-2015
AGE AT EXPOSURES AT BEGIN OF BEGINNING OF INTERVAL AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 27,223,902 0.5 24,655,661 1.5 23,611,135 2.5 22,203,256 3.5 20,170,991 4.5 18,491,838 5.5 17,542,955 6.5 15,403,032 7.5 13,818,921 8.5 10,585,012	15,155 202,273 301,536 973,183	0.0000 0.0028 0.0036 0.0018 0.0008 0.0109 0.0172 0.0632 0.1280 0.1345	1.0000 0.9972 0.9964 0.9982 0.9992 0.9891 0.9828 0.9368 0.8720 0.8655	100.00 100.00 99.72 99.37 99.18 99.11 98.03 96.34 90.25 78.70
9.5 8,847,582 10.5 6,751,902 11.5 5,022,061 12.5 3,843,935 13.5 2,986,309 14.5 2,289,789 15.5 1,965,599 16.5 1,841,046 17.5 1,567,615 18.5 1,235,396	975,560 727,581 696,520 301,191 124,552	0.1651 0.1871 0.1943 0.1893 0.2332 0.1315 0.0634 0.1485 0.2119 0.1498	0.8349 0.8129 0.8057 0.8107 0.7668 0.8685 0.9366 0.8515 0.7881 0.8502	68.11 56.87 46.22 37.24 30.20 23.15 20.11 18.83 16.04 12.64
19.5 1,050,382 20.5 921,362 21.5 551,486 22.5 519,671 23.5 370,603 24.5 187,137 25.5 106,290 26.5 100,133 27.5 88,629 28.5 72,399	149,068 183,466 80,847 6,157 11,503	0.1228 0.4014 0.0577 0.2869 0.4950 0.4320 0.0579 0.1149 0.1831 0.0000	0.8772 0.5986 0.9423 0.7131 0.5050 0.5680 0.9421 0.8851 0.8169 1.0000	10.74 9.43 5.64 5.32 3.79 1.91 1.09 1.02 0.91 0.74
29.5 72,399 30.5 28,210 31.5	44,189 28,210	0.6104 1.0000	0.3896	0.74



ACCOUNT VO6 - VEHICLES - CARS, STATION WAGONS AND VANS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V06 - VEHICLES - CARS, STATION WAGONS AND VANS

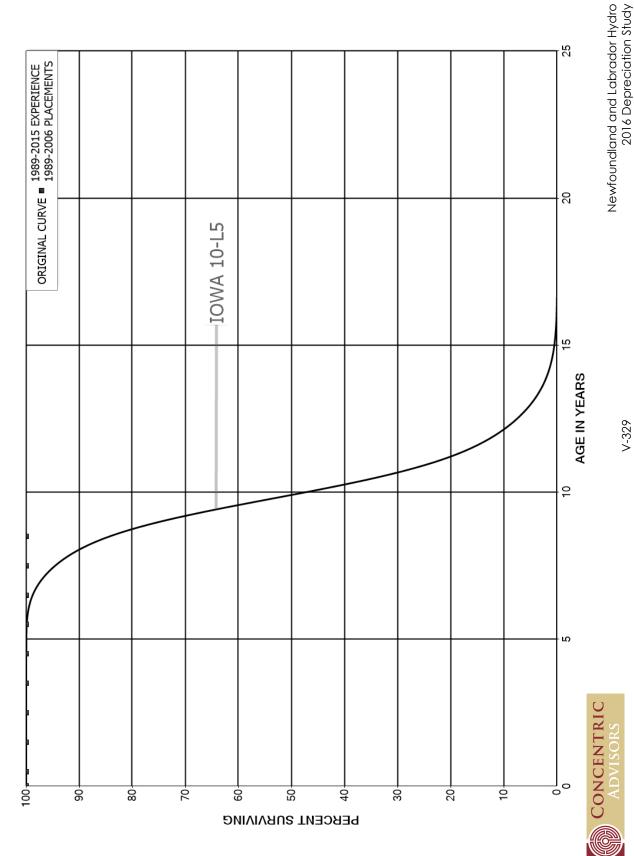
PLACEMENT	BAND 1974-2014		EXPE	RIENCE BAN	D 1974-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	9,814,453 9,779,963 9,409,596 8,973,608 8,426,528 7,460,987 5,542,176 3,500,464 1,733,996 760,437	34,490 150,355 159,717 343,570 684,758 1,632,087 1,804,839 1,528,182 941,698 402,658	0.0035 0.0154 0.0170 0.0383 0.0813 0.2187 0.3257 0.4366 0.5431 0.5295	0.9965 0.9846 0.9830 0.9617 0.9187 0.7813 0.6743 0.5634 0.4569 0.4705	100.00 99.65 98.12 96.45 92.76 85.22 66.58 44.90 25.30 11.56
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	336,728 49,833 21,221 21,221 21,221 21,221 21,221 18,991 18,991 6,709	286,895 28,612 2,230 12,282	0.8520 0.5742 0.0000 0.0000 0.0000 0.0000 0.1051 0.0000 0.6467 0.0000	0.1480 0.4258 1.0000 1.0000 1.0000 0.8949 1.0000 0.3533 1.0000	5.44 0.80 0.34 0.34 0.34 0.34 0.31 0.31
19.5 20.5 21.5 22.5 23.5 24.5	6,709 6,709 6,709 502 502	6,208 502	0.0000 0.0000 0.9252 0.0000 1.0000	1.0000 1.0000 0.0748 1.0000	0.11 0.11 0.11 0.01 0.01



NEWFOUNDLAND AND LABRADOR HYDRO

DEPRECIATION STUDY

ACCOUNT VO7 - VEHICLES - DUMP TRUCKS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



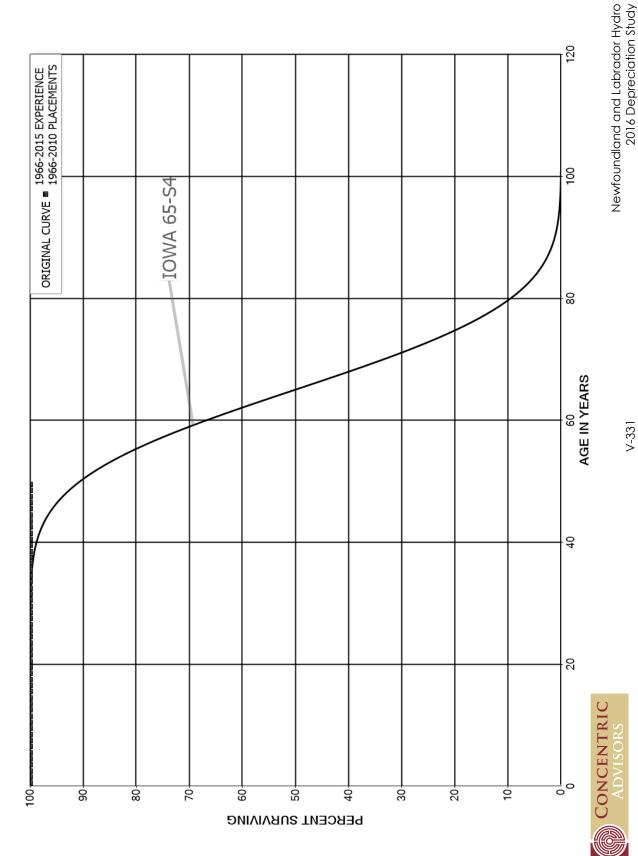
NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V07 - VEHICLES - DUMP TRUCKS

PLACEMENT	BAND 1989-2006		EXPE	RIENCE BAN	D 1989-2015
AGE AT	EXPOSURES AT	RETIREMENTS			PCT SURV
BEGIN OF	BEGINNING OF	DURING AGE	RETMT	SURV	BEGIN OF
INTERVAL	AGE INTERVAL	INTERVAL	RATIO	RATIO	INTERVAL
0.0	36,457		0.0000	1.0000	100.00
0.5	36 , 457		0.0000	1.0000	100.00
1.5	36,457		0.0000	1.0000	100.00
2.5	36,457		0.0000	1.0000	100.00
3.5	36,457		0.0000	1.0000	100.00
4.5	36,457		0.0000	1.0000	100.00
5.5	36,457		0.0000	1.0000	100.00
6.5	36,457		0.0000	1.0000	100.00
7.5	36,457		0.0000	1.0000	100.00
8.5	36,457	24,922	0.6836	0.3164	100.00
9.5	11,535		0.0000	1.0000	31.64
10.5	11,535		0.0000	1.0000	31.64
11.5	11,535		0.0000	1.0000	31.64
12.5	,				31.64



ACCOUNT W01 - WATER REGULATING STRUCTURES ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W01 - WATER REGULATING STRUCTURES

PLACEMENT 1	BAND 1966-2010		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5	22,451,738 22,451,738 22,451,738 22,451,738 22,451,738 22,451,738 22,156,264 22,156,264 22,156,264 22,156,264		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	22,156,264 22,156,264 22,156,264 6,815,749 6,815,749 6,815,749 6,815,749 6,764,780 6,764,780 6,764,780		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5	6,764,780 6,764,780 6,764,780 6,764,780 6,764,780 6,764,780 6,764,780 6,764,780 6,764,780		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	6,764,780 6,759,713 6,759,713 4,998,878 4,998,878 4,998,878 4,976,785 3,053,361 3,053,361 3,053,361		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00



NEWFOUNDLAND AND LABRADOR HYDRO

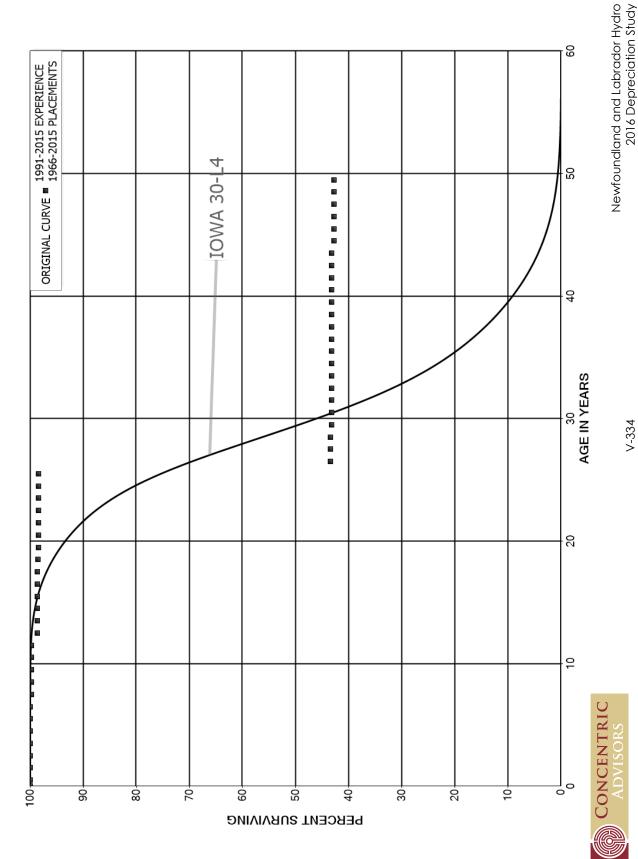
ACCOUNT W01 - WATER REGULATING STRUCTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT I	BAND 1966-2010		EXPER	RIENCE BAN	D 1966-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	3,053,361 3,053,361 3,053,361 3,053,361 3,053,361 3,053,361 3,053,361 3,053,361 3,053,361 781,461		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
49.5					100.00

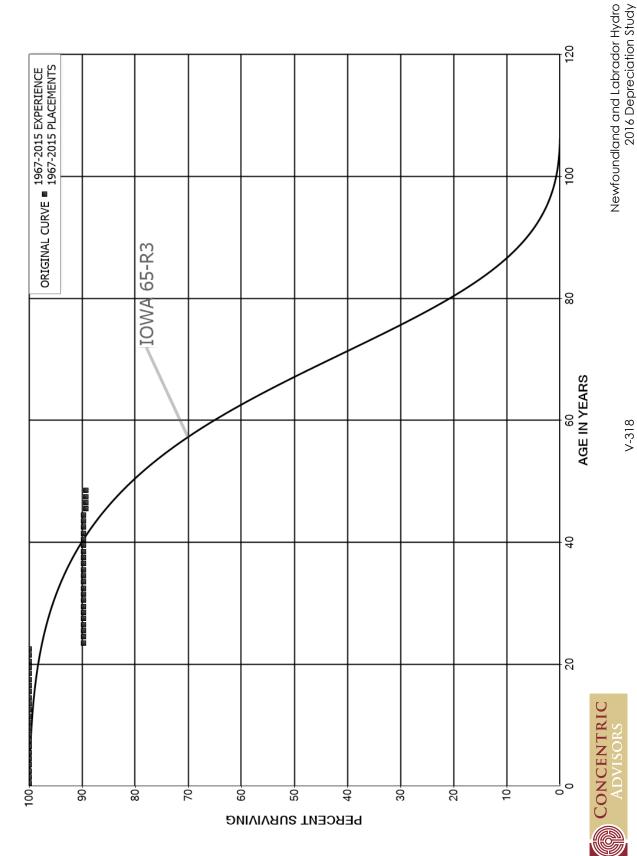


NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT W02 - WATER SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES

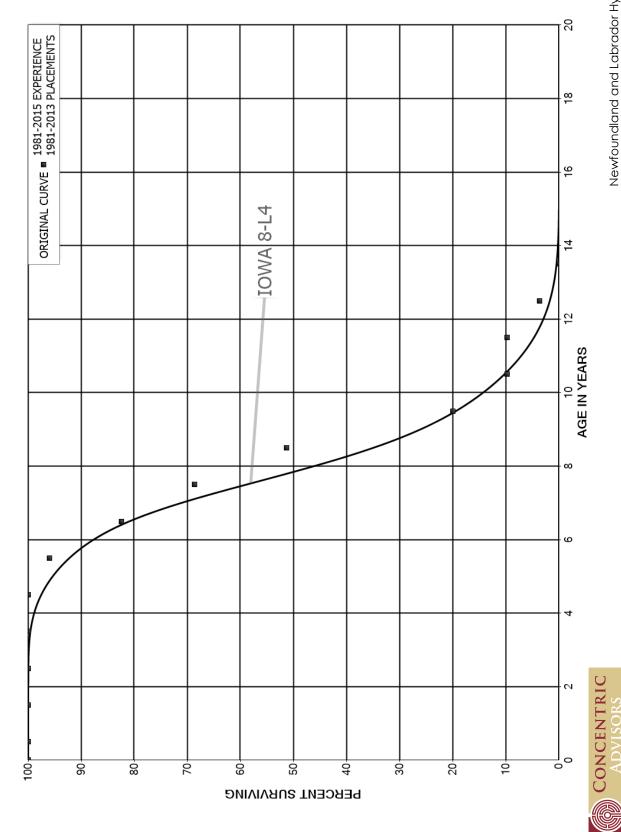


V-318

ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT VO2 - VALVES - PENSTOCK NEWFOUNDLAND AND LABRADOR HYDRO



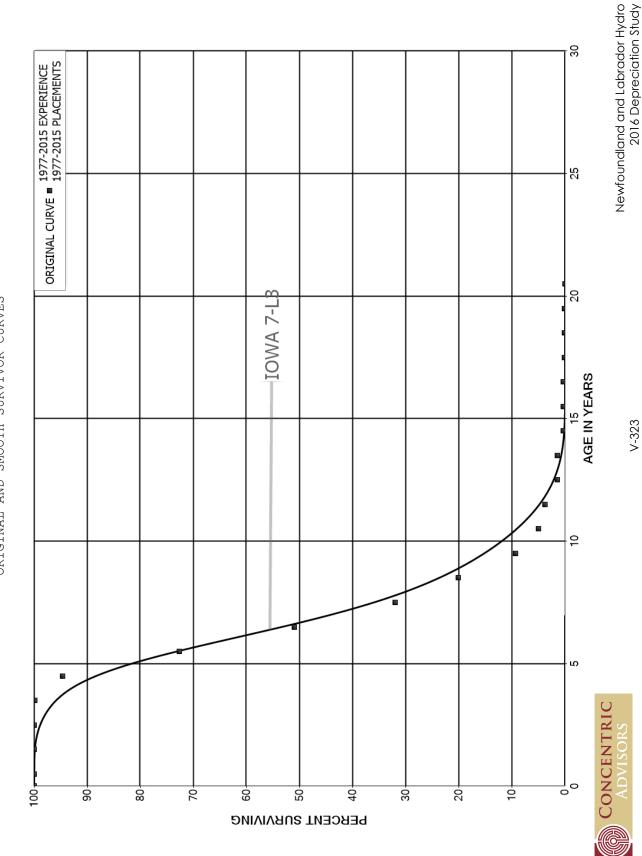
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT VO3 - VEHICLES - 1 TON ORIGINAL AND SMOOTH SURVIVOR CURVES



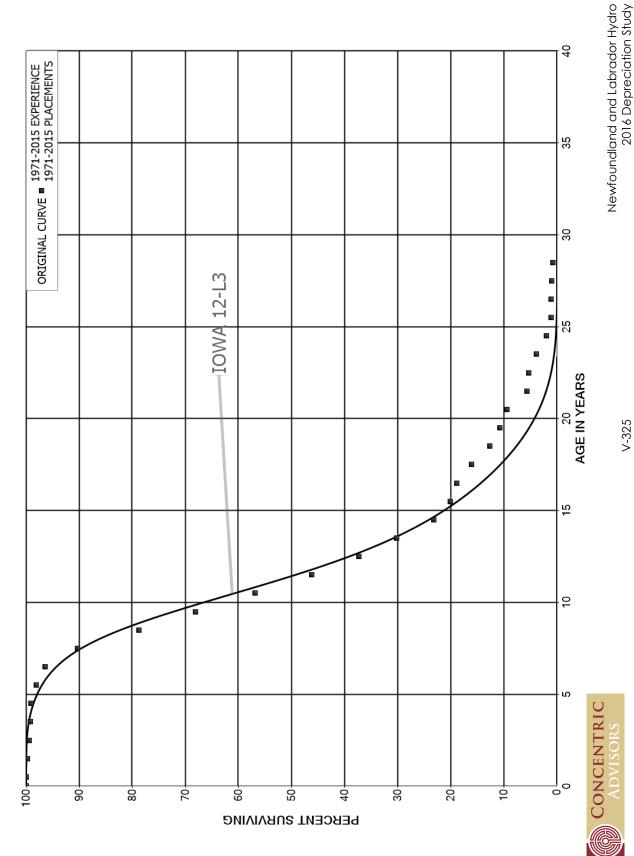
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT VO4 - VEHICLES - 3/4 TON AND UNDER ORIGINAL AND SMOOTH SURVIVOR CURVES

NEWFOUNDLAND AND LABRADOR HYDRO

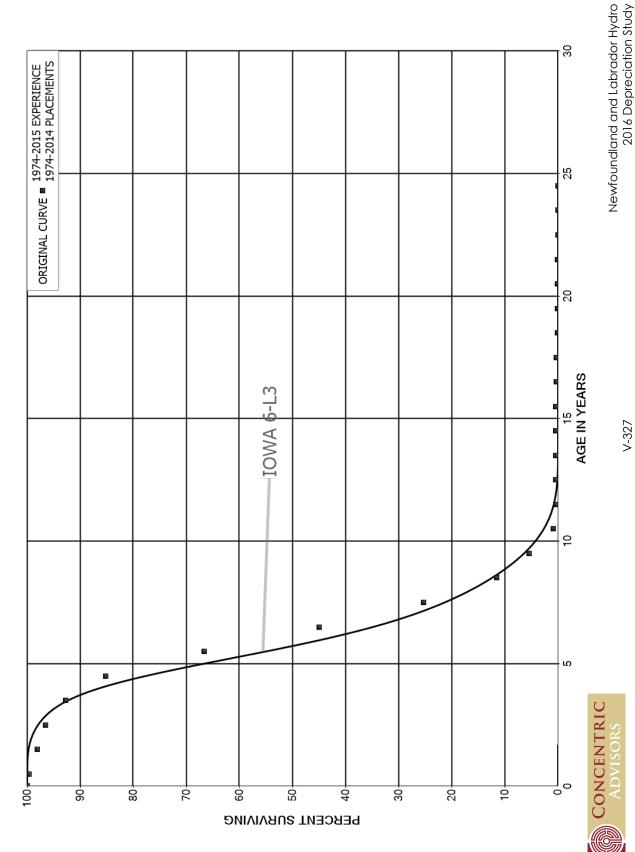
DEPRECIATION STUDY



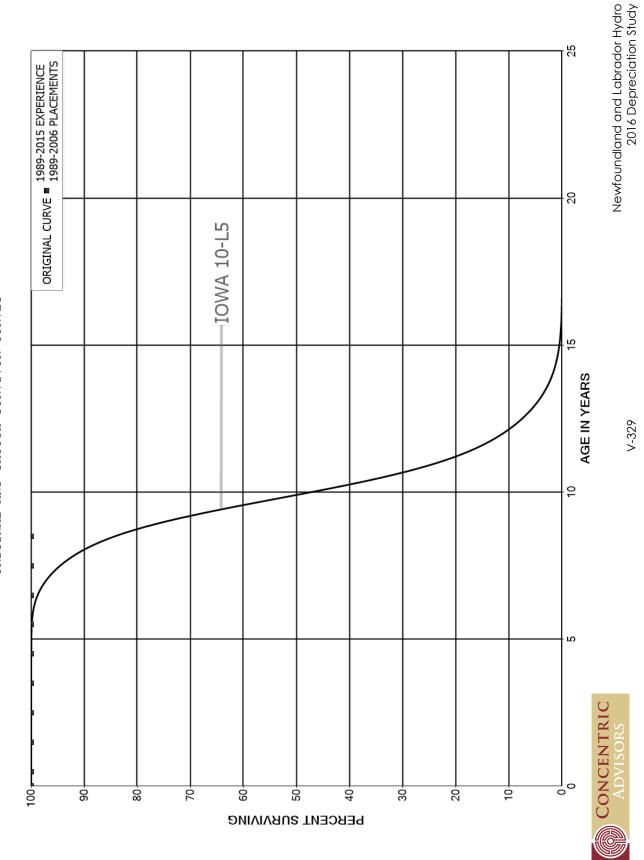
ACCOUNT V05 - VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



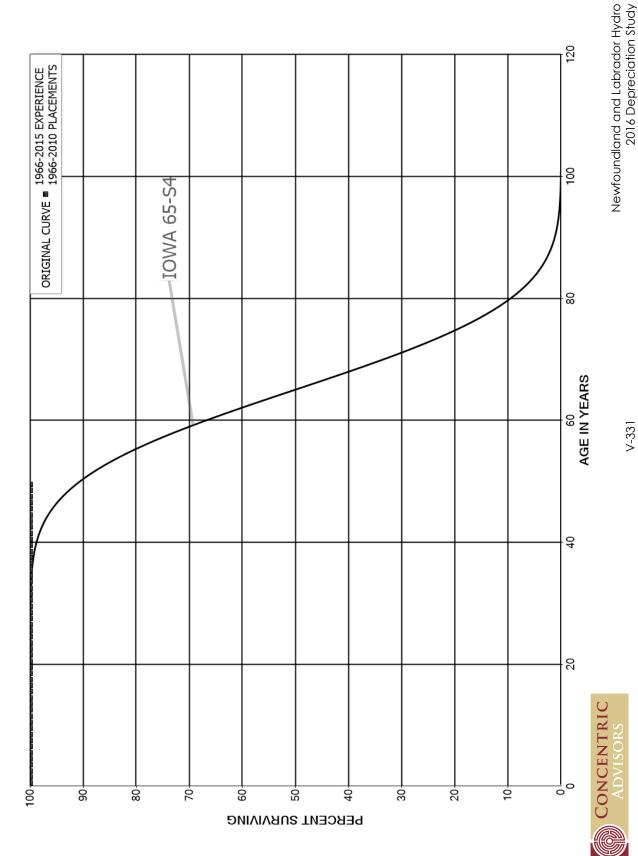
ACCOUNT VO6 - VEHICLES - CARS, STATION WAGONS AND VANS ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



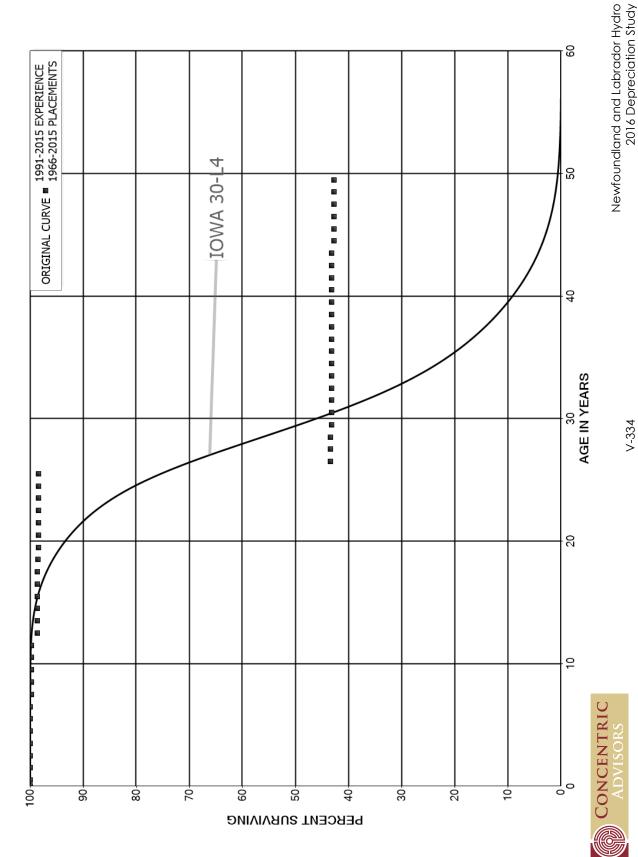
NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT V07 - VEHICLES - DUMP TRUCKS ORIGINAL AND SMOOTH SURVIVOR CURVES



ACCOUNT W01 - WATER REGULATING STRUCTURES ORIGINAL AND SMOOTH SURVIVOR CURVES NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT W02 - WATER SYSTEMS ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W02 - WATER SYSTEMS

PLACEMENT I	BAND 1966-2015		EXPE	RIENCE BAN	D 1991-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	2,324,846 2,124,283 2,259,981 2,084,208 2,124,231 2,125,340 2,454,829 2,457,165 2,395,303 3,784,905	7,626	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0031 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9969 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 99.69 99.69
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	3,776,339 3,752,978 3,919,163 2,688,795 2,721,048 2,734,055 2,734,055 2,715,938 2,715,938 2,710,352	40,451 5,586 2,336	0.0000 0.0000 0.0103 0.0000 0.0000 0.0000 0.0000 0.0000 0.0021 0.0009	1.0000 1.0000 0.9897 1.0000 1.0000 1.0000 1.0000 0.9979 0.9991	99.69 99.69 98.66 98.66 98.66 98.66 98.66 98.66 98.66
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	2,678,403 2,544,238 2,575,860 2,565,367 2,484,432 2,492,740 2,447,836 944,603 851,259 811,236	1,367,535 3,483	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.5587 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.4413 1.0000 1.0000	98.37 98.37 98.37 98.37 98.37 98.37 98.37 43.41 43.41
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	797,394 470,655 470,655 470,655 398,413 381,761 366,294 200,109 147,452 115,200		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	43.23 43.23 43.23 43.23 43.23 43.23 43.23 43.23 43.23 43.23



NEWFOUNDLAND AND LABRADOR HYDRO

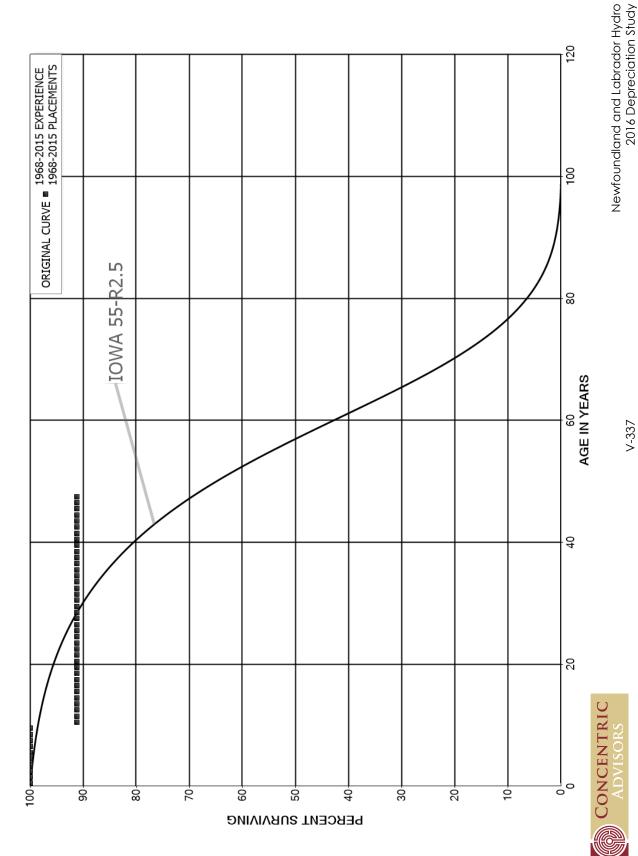
ACCOUNT W02 - WATER SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT H	BAND 1966-2015		EXPER	RIENCE BAN	D 1991-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5	102,192 102,192 102,192 102,192 102,192 91,345 85,567 53,945 46,655 36,616	1,101	0.0000 0.0000 0.0000 0.0000 0.0108 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 0.9892 1.0000 1.0000 1.0000	43.23 43.23 43.23 43.23 42.76 42.76 42.76 42.76
49.5					42.76



ORIGINAL AND SMOOTH SURVIVOR CURVES ACCOUNT W03 - WATER SYSTEMS - FEED NEWFOUNDLAND AND LABRADOR HYDRO



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W03 - WATER SYSTEMS - FEED

PLACEMENT E	BAND 1968-2015		EXPE	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	9,917,971 6,675,751 6,580,151 6,409,265 6,409,265 6,409,265 6,409,265 6,409,265 6,409,265 6,409,265		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	6,409,265 5,845,006 5,845,006 5,845,006 5,845,006 5,845,006 5,845,006 5,845,006 5,841,189 5,841,189	3,817	0.0880 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000	0.9120 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.9993 1.0000	100.00 91.20 91.20 91.20 91.20 91.20 91.20 91.20 91.14 91.14
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	91.14 91.14 91.14 91.14 91.14 91.14 91.14 91.14 91.14
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 5,841,189 3,169,983 2,062,600 2,062,600 2,062,600		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	91.14 91.14 91.14 91.14 91.14 91.14 91.14 91.14 91.14



NEWFOUNDLAND AND LABRADOR HYDRO

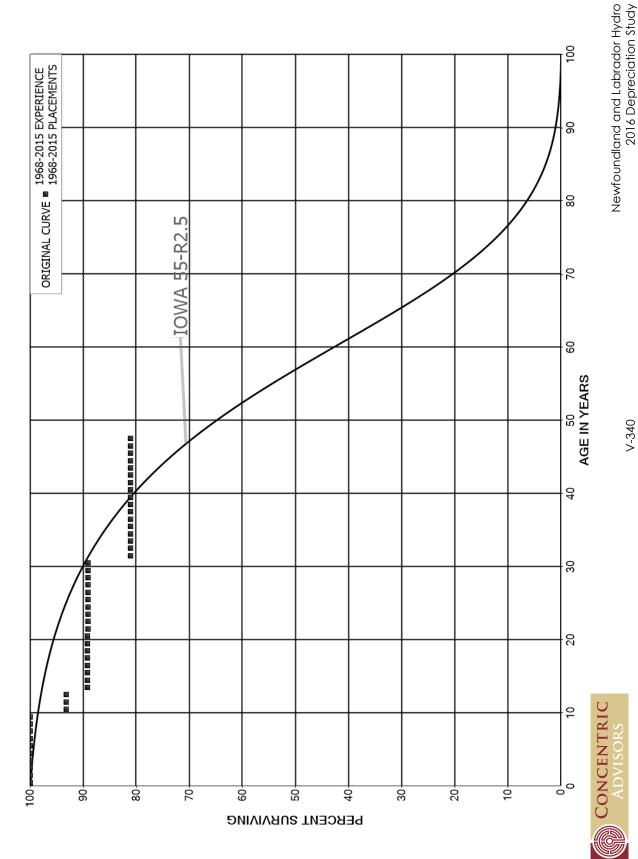
ACCOUNT W03 - WATER SYSTEMS - FEED

ORIGINAL LIFE TABLE, CONT.

PLACEMENT	BAND 1968-2015		EXPER	RIENCE BAN	D 1968-2015
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	2,062,600 2,062,600 2,062,600 2,062,600 2,062,600 329,755 329,755 329,755		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	91.14 91.14 91.14 91.14 91.14 91.14 91.14 91.14



NEWFOUNDLAND AND LABRADOR HYDRO ACCOUNT WO4 - WATER TREATMENT ORIGINAL AND SMOOTH SURVIVOR CURVES



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W04 - WATER TREATMENT

PLACEMENT E	EXPERIENCE BAND 1968-2015				
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5	16,019,602 11,859,599 11,859,599 11,542,239 10,882,444 9,464,291 9,464,291 9,464,291 9,464,291 9,464,291		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5	9,464,291 8,821,905 8,821,905 8,821,905 8,441,318 8,441,318 8,441,318 8,441,318 8,441,318 6,032,194	642,386 380,586	0.0679 0.0000 0.0000 0.0431 0.0000 0.0000 0.0000 0.0000 0.0000	0.9321 1.0000 1.0000 0.9569 1.0000 1.0000 1.0000 1.0000	100.00 93.21 93.21 93.21 89.19 89.19 89.19 89.19 89.19 89.19
19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5	5,807,399 5,792,685 5,783,887 5,783,324 5,783,324 3,102,160 3,087,023 3,087,023 3,029,481 3,029,481	8,799 563	0.0000 0.0015 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 0.9985 0.9999 1.0000 1.0000 1.0000 1.0000 1.0000	89.19 89.19 89.06 89.05 89.05 89.05 89.05 89.05 89.05
29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5	3,029,481 3,029,481 2,756,748 2,737,925 2,737,925 2,737,925 2,115,562 2,110,464 2,110,464	272,733	0.0000 0.0900 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 0.9100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	89.05 89.05 81.03 81.03 81.03 81.03 81.03 81.03 81.03



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W04 - WATER TREATMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT	EXPERIENCE BAND 1968-2015				
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5	2,110,464 2,110,464 2,110,464 2,110,464 2,110,464 1,905,927 1,905,927 65,708		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	81.03 81.03 81.03 81.03 81.03 81.03 81.03



PART VI. DEPRECIATION CALCULATIONS



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT A01 - AIRCRAFT LANDING STRIP

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	33-R2				
NET SALV	VAGE PERCENT	-6				
1974	7 , 976.40	6 , 995	8 , 455			
1993	192,208.10	110,576	202,845	896	15.09	59
1994	194,620.58	107,774	197,704	8,594	15.76	545
2006	78,390.03	20,723	38,015	45,078	24.77	1,820
2015	2,302.95	54	99	2,342	22.02	106
	475,498.06	246,122	447,118	56,910		2,530

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.5 0.53



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT A04 - AUXILIARY POWER SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	30-R4				
	LVAGE PERCENT					
1956	85,469.97	88,034	88,034			
1966	283,631.50	292,140	292,140			
1970	12,000.00	12,327	12,360			
1974	5,049.52	5,045	5,201			
1978	2,000.00	1,930	2,060			
1979	99,773.88	95 , 368	102,767			
1980	135,560.00	128,271	139,092	535	2.44	219
1982	413,537.76	382 , 783	415,075	10,869	3.04	3,575
1983	43,498.13	39 , 755	43,109	1,694	3.38	501
1984	221,073.63	199,243	216,051	11,655	3.75	3,108
1988	165,905.06	138,300	149,967	20,915	5.72	3,656
1989	680,140.87	552 , 499	599,108	101,437	6.34	16,000
1992	63,724.33	47,280	51 , 269	14,367	8.39	1,712
1999	16,056.11	8,815	9,559	6,979	14.01	498
2000	164,084.55	85 , 011	92,183	76,824	14.91	5,153
2001	368,268.81	179,292	194,417	184,900	15.82	11,688
2003	448,397.32	189 , 511	205,498	256 , 351	17.69	14,491
2005	97,542.86	34,830	37 , 768	62 , 701	19.60	3,199
2010	336,595.37	63 , 330	68 , 673	278 , 020	24.52	11,338
2011	59 , 826.71	9,223	10,001	51 , 621	25.51	2,024
2012	213,015.53	25 , 523	27 , 676	191,730	26.51	7,232
2013	802,476.86	68 , 877	74 , 688	751 , 863	27.50	27 , 340
2015	1,337,310.13	24,518	26,586	1,350,843	27.67	48,820
	6,054,938.90	2,671,905	2,863,282	3,373,305		160,554

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 21.0 2.65



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B01 - BATTERY AND POWER SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	OR CURVE IOWA	26-L1.5				
NET SA	ALVAGE PERCENT	-3				
1956	1,465.79	1,289	1,510			
1968	46,703.90	37,096	48,105			
1970	3,635.52	2,827	3,745			
1971	61,437.84	47,266	63,281			
1972	17,191.24	13,076	17,707			
1973	351.12	264	362			
1975	6,046.84	4,439	6,228			
1978	39,546.11	27 , 902	40,732			
1979	8,963.00	6 , 235	9,232			
1980	309,979.19	212,566	319,279			
1982	78,356.38	52,149	80,707			
1985	112,621.82	71,519	116,000			
1987	2,173.59	1,335	2,239			
1988	6,546.56	3,952	6,743			
1989	13,813.16	8,192	14,228			
1990	281,180.21	163,743	289,616	4 445	11 05	275
1992	165,114.78	92,556	165,623	4,445	11.85	375
1994	25,099.57	13,493	24,145	1,708	12.43	137
1995 1996	71,903.31 182,381.97	37 , 771 93 , 493	67 , 589	6,471	12.74 13.06	508 1 , 574
1996	11,760.26	5,870	167,300 10,504	20,553 1,609	13.40	120
1998	189,198.12	91,665	164,029	30,845	13.77	2,240
1999	20,241.49	9,494	16,989	3,860	14.16	2,240
2000	184,734.09	83,503	149,423	40,853	14.59	2,800
2000	849,065.18	368,652	659,680	214,857	15.04	14,286
2001	6,611.36	2,742	4,907	1,903	15.53	123
2003	1,372,752.91	540,010	966,315	447,620	16.07	27,854
2004	425,839.87	157,735	282,257	156,358	16.65	9,391
2005	436,123.50	150,655	269,588	179,619	17.28	10,395
2006	400,764.27	127,807	228,703	184,084	17.95	10,255
2007	482,048.57	140,170	250,826	245,684	18.66	13,166
2008	358,693.69	93,786	167,824	201,631	19.40	10,393
2009	766,844.06	176,808	316,387	473,462	20.18	23,462
2010	559,022.38	110,950	198,538	377,255	20.99	17,973
2011	707,836.53	116,929	209,237	519,835	21.83	23,813
2012	1,212,344.62	158,012	282 , 753	965,962	22.71	42,535
2013	761,528.57	71,802	128,485	655 , 889	23.62	27,768
2014	380,909.69	21,728	38,881	353,456	24.56	14,392
2015	839,165.25	23,596	42,224	822,117	17.82	46,135
	11,399,996.31	3,343,077	5,831,921	5,910,076		299,968

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.7 2.63



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B02 - BOILER SYSTEM

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	40-R3				
NET SA	ALVAGE PERCENT	-8				
1968	14,985,641.26	14,088,601	16,184,493			
1971	795,588.25	726 , 269	859 , 235			
1979	2,040.12	1,660	2,082	121	9.86	12
1981	314,253.38	245,976	308,543	30 , 851	11.01	2,802
1982	68,031.30	52 , 130	65 , 390	8,084	11.62	696
1986	142,517.51	99,085	124,288	29,631	14.25	2,079
1987	29,961.22	20,264	25,418	6 , 940	14.95	464
1988	480,335.28	315 , 537	395 , 798	122,964	15.67	7,847
1989	4,309,160.53	2,745,797	3,444,223	1,209,670	16.40	73,760
1993	184,491.61	102,216	128,216	71,035	19.48	3,647
1996	19,423.10	9,476	11,886	9,091	21.93	415
1997	53,585.52	24,914	31,251	26,621	22.78	1,169
1999	92,545.14	38,755	48,613	51,336	24.49	2,096
2007	1,855,849.81	412,388	517,284	1,487,034	31.77	46,806
2014	542,621.76	21,537	27,015	559,016	38.53	14,509
	23,876,045.79	18,904,605	22,173,735	3,612,394		156,302

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 23.1 0.65



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B03 - BOOMS - TIMBER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	R CURVE IOWA	25-R2				
NET SAL	VAGE PERCENT	0				
1966	38,209.00	38,209	38,209			
1970	1,982.00	1,962	1,275	707	0.25	707
1979	46,793.75	41,646	27 , 067	19,727	2.75	7,173
2014	37,008.66	1,998	1,299	35 , 710	23.65	1,510
2015	51,562.11	1,485	965	50,597	16.89	2,996
	175,555.52	85,300	68,815	106,740		12,386

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.6 7.06



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B04 - BRIDGES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1966	564,791.18	441,739	626,918			
1980	221,425.80	130,152	220,742	25,041	30.58	819
1983	26,746.98	14,488	24,572	5,117	33.28	154
1984	1,988,230.31	1,045,756	1,773,639	433,297	34.20	12,670
1992	629,308.12	249,858	423,768	274,764	41.75	6,581
1994	55,564.63	20,221	34,295	27,382	43.69	627
1996	36,386.80	12,030	20,403	19,986	45.64	438
1997	63,600.25	19,963	33 , 858	36 , 738	46.62	788
2003	312,030.06	66,392	112,603	233,750	52.54	4,449
2007	337,011.43	48,803	82 , 772	291,311	56.52	5,154
2011	19,193.98	1,472	2,497	18,809	60.51	311
	4,254,289.54	2,050,874	3,356,067	1,366,195		31,991

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 42.7 0.75



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B05 - BUILDINGS - OTHER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1967 1968 1969 1970 1971 1972 1973 1974	321,303.14 1,704,287.55 102,525.34 122,471.07 49,280.73 63,651.61 277,231.53 25,512.63 904,839.77	183,276 954,946 56,412 66,125 26,090 33,043 140,947 12,703 440,829	330,942 1,755,416 105,601 126,145 50,759 65,561 285,548 26,278 915,239	16,746	26.35	636
1977	436,824.10	203,278	422,041	27,888	27.41	1,017
1978	16,205.52	7,364	15,289	1,403	27.94	50
1979	132,860.64	58,899	122,285	14,561	28.48	511
1980	607,564.93	262,582	545,167	80,625	29.02	2,778
1981	187,623.82	78,963	163,941	29,312	29.57	991
1982	894,510.05	366,327	760,560	160,785	30.12	5,338
1983	117,158.22	46,628	96,808	23,865	30.68	778
1984	251,476.43	97,185	201,773	57,248	31.24	1,833
1985	222,466.52	83,407	173,168	55,973	31.80	1,760
1986	500,259.66	181,786	377,420	137,847	32.36	4,260
1987	1,246,537.52	438,335	910,061	373,873	32.93	11,354
1988 1989 1990 1991 1992 1993	254,576.87 21,449,089.59 1,708,283.45 136,545.27 223,784.38 144,816.43	86,478 7,034,272 539,824 41,517 65,369 40,542	179,544 14,604,392 1,120,770 86,197 135,718 84,172	82,670 7,488,170 638,762 54,445 94,780 64,989	33.51 34.08 34.66 35.24 35.82 36.41	2,467 219,723 18,429 1,545 2,646 1,785
1994	493,681.26	132,208	274,487	234,005	37.00	6,324
1995	562,879.15	143,898	298,758	281,008	37.59	7,476
1996	1,063,005.55	258,833	537,383	557,513	38.18	14,602
1997	946,089.64	218,866	454,404	520,068	38.77	13,414
1998	60,623.02	13,288	27,588	34,854	39.36	886
1999	363,208.48	75,120	155,962	218,143	39.96	5,459
2000	536,570.67	104,344	216,637	336,031	40.56	8,285
2001	2,025,328.99	368,821	765,738	1,320,351	41.16	32,078
2002	39,901.19	6,773	14,062	27,036	41.76	647
2003	3,414,776.99	537,431	1,115,802	2,401,418	42.36	56,691
2004	667,419.28	96,792	200,957	486,485	42.96	11,324
2005	1,137,562.52	150,914	313,324	858,365	43.56	19,705
2006	4,506,177.04	541,183	1,123,592	3,517,770	44.17	79,642
2007	967,374.99	104,024	215,972	780,424	44.78	17,428
2008	839,316.47	79,879	165,843	698,653	45.38	15,396
2009	873,943.37	72,193	149,885	750,277	45.99	16,314
2010	6,581,913.04	459,641	954,296	5,825,074	46.61	124,975



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B05 - BUILDINGS - OTHER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	50-R0.5				
NET SA	ALVAGE PERCENT	-3				
2011	3,558,651.72	203,797	423,119	3,242,292	47.22	68,664
2012	2,120,456.52	94,789	196,799	1,987,271	47.83	41,549
2013	1,748,268.28	55,822	115,896	1,684,820	48.45	34,774
2014	2,301,553.82	44,093	91,545	2,279,055	49.07	46,445
2015	2,266,372.60	56,492	117,287	2,217,077	20.12	110,193
	69,176,761.36	15,366,328	31,590,131	39,661,933		1,010,172

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 39.3 1.46



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B06 - BUILDINGS - METAL

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1965	496,680.62	387,037	511,581			
1966	284,920.26	219,088	293,468			
1967	796 , 275.99	603 , 789	820,164			
1968	1,348,322.58	1,007,485	1,388,772			
1969	1,344,302.45	989 , 125	1,384,632			
1970	147,186.08	106,617	151,602			
1971	700,196.43	498,812	721,202			
1975	551,697.72	365,435	544,365	23,884	19.63	1,217
1976	311,245.64	202,083	301,030	19,553	20.33	962
1977	113,072.12	71,911	107,121	9,343	21.04	444
1978	684,309.29	425,849	634,360	70,479	21.77	3,237
1979	247,825.70	150 , 836	224,691	30 , 569	22.50	1,359
1980	3,138,866.66	1,866,333	2,780,157	452 , 876	23.25	19,479
1981	584,160.14	339,019	505,015	96 , 670	24.01	4,026
1982	1,925,035.45	1,089,819	1,623,433	359 , 354	24.77	14,508
1983	1,399,100.34	771 , 623	1,149,437	291 , 636	25.55	11,414
1984	408,162.84	219,070	326,335	94,073	26.34	3 , 571
1985	87 , 197.01	45 , 495	67 , 771	22,042	27.14	812
1986	16 , 689.87	8,458	12,599	4,592	27.94	164
1987	284,222.63	139,668	208,054	84,695	28.76	2,945
1988	435,449.77	207,213	308,672	139,841	29.59	4,726
1989	146,934.65	67 , 637	100,755	50,588	30.42	1,663
1990	1,575,617.29	700,502	1,043,493	579 , 393	31.26	18,535
1991	1,490,557.45	638 , 950	951,803	583 , 471	32.11	18,171
1992	932,441.26	384,694	573 , 054	387,360	32.97	11,749
1993	491,155.09	194,631	289,929	215,961	33.84	6,382
1994	11,845.40	4,499	6,702	5,499	34.72	158
1995	103,615.40	37 , 645	56 , 077	50,647	35.60	1,423
1996	510,264.42	176,881	263,488	262,084	36.49	7,182
1998	176,530.51	55,210	82,243	99,583	38.30	2,600
2001	110,073.41	28,735	42,805	70,571	41.06	1,719
2002	780,974.95	190,282	283,451	520,953	41.99	12,407
2003	166,852.30	37,714	56,180	115,678	42.93	2,695
2004	50,241.99	10,472	15,599	36,150	43.87	824
2005	284,953.12	54,377	81,002	212,500	44.81	4,742
2007	49,389.10	7,659	11,409	39,462	46.72	845
2008	17,818.02	2,439	3,633	14,720	47.69	309
2009	75 , 434.91	8 , 970	13,362	64,336	48.65	1,322



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B06 - BUILDINGS - METAL

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2011 2014 2015	31,646.84 889,193.02 10,828,614.63	2,614 24,646 120,458	3,894 36,714 179,439	28,702 879,155 10,974,035	50.59 53.52 46.01	567 16,427 238,514
	34,029,073.35	12,463,780	18,159,493	16,890,453		417,098
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	40.5	1.23



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B07 - BUS DUCT GENERATOR

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	40-R4				
NET SAL	VAGE PERCENT	-3				
1968	27,238.00	25,804	28,055			
1980	311,717.00	254,045	285 , 957	35,112	8.35	4,205
1988	120,878.46	80,710	90,848	33 , 657	14.07	2,392
2003	365,970.58	116,854	131,533	245,417	27.60	8,892
2015	630,303.53	8,635	9,720	639,493	37.09	17,242
	1,456,107.57	486,048	546,113	953,678		32,731

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.1 2.25



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B08 - BUSWORK AND HARDWARE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1067	0.60 547 01	242 227	200 022			
1967	268,547.91	243,337	290,032			
1968	104,589.03	93,573	112,956	200	0 14	2.2
1969	18,000.00	15,886	19,231	209	9.14	23
1970	521,630.42	453,618	549,137	14,224	9.74	1,460
1974	8,694.70	7,071	8,560	830 7 , 726	12.35	67
1975	68,040.25	54,319	65 , 757	303	13.04 13.74	592 22
1976 1977	2,298.22 238,137.96	1,800	2,179			
1977	322,711.68	182,810 242,576	221,304 293,655	35,885 54,874	14.46 15.20	2,482
1976	155,744.87	114,547	138,667	29,537	15.20	3,610
1979	132,765.41	95,467	115,570	29 , 337 27 , 817	16.71	1,852 1,665
1981	212,209.10	149,017	180,396	48,790	17.49	2,790
1982	238,384.77	163,278	197,660	59,796	18.29	3,269
1983	166,412.59	111,070	134,458	45,268	19.10	2,370
1985	23,798.53	15,031	18,196	7,506	20.76	362
1986	84,174.63	51,618	62,487	28,422	21.61	1,315
1987	110,667.31	65,784	79,636	39,885	22.48	1,774
1988	22,543.64	12,972	15 , 704	8,643	23.36	370
1989	400,025.39	222,494	269,345	162,682	24.25	6 , 709
1990	150,841.82	80,966	98,015	64,894	25.15	2,580
1991	707,463.50	365,832	442,865	321,196	26.06	12,325
1992	555,332.55	276,129	334,274	265,485	26.98	9,840
1993	33,128.06	15,807	19,135	16,643	27.91	596
1994	149,377.90	68,242	82,612	78,716	28.85	2,728
1995	465,654.41	203,275	246,079	256,828	29.79	8,621
1996	98,866.85	41,109	49,765	57,011	30.75	1,854
1997	55,916.37	22,091	26,743	33,647	31.71	1,061
1998	326,389.45	122,177	147,904	204,597	32.67	6,263
2000	299,484.25	99,491	120,441	203,002	34.62	5,864
2002	48,570.45	14,079	17,044	35,412	36.58	968
2003	37,106.47	9 , 971	12,071	28,004	37.56	746
2004	112,224.95	27 , 755	33,599	87,604	38.55	2,272
2005	6,333.49	1,431	1,732	5,108	39.54	129
2009	33,674.74	4,721	5,715	30,654	43.51	705
2012	1,035,536.04	78,287	94,771	1,023,608	46.50	22,013
2014	46,222.92	1,498	1,814	48,107	48.50	992
2015	46,405.63	531	643	49,476	46.45	1,065
	7,307,906.26	3,729,660	4,510,152	3,382,387		111,354

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.4 1.52



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C01 - CABLES - TELECONTROL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1982	12,612.10	11,674	12,990			
1993	112,541.10	80 , 678	115,917			
1999	176,607.97	96 , 956	181,906			
2000	22,031.28	11,414	22,692			
2001	129,578.38	63,085	133,466			
2002	260,377.55	118,451	268,189			
2003	892,247.63	377 , 099	919,015			
2010	99,451.25	18,712	90,721	11,714	24.52	478
2012	923,499.09	110,654	536,484	414,720	26.51	15,644
2013	11,851.59	1,017	4,931	7,276	27.50	265
2015	2,541.47	47	228	2,390	27.67	86
	2,643,339.41	889 , 787	2,286,539	436,101		16,473

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 26.5 0.62



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C02 - CABLE - SUBMARINE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	45-R4				
NET SA	LVAGE PERCENT	-14				
1975	475,796.93	433,444	501,133	41,276	9.04	4,566
1980	169,115.97	139,624	161,428	31,364	12.41	2,527
1982	123,400.69	97,348	112,550	28,127	13.86	2,029
1988	1,550,390.96	1,035,334	1,197,018	570 , 428	18.64	30,602
1989	2,453,451.52	1,585,554	1,833,163	963 , 772	19.49	49,450
1990	2,979,349.00	1,859,764	2,150,196	1,246,262	20.36	61,211
1999	922,348.37	381,339	440,891	610,586	28.68	21,290
2007	104,280.98	22,376	25 , 870	93,010	36.53	2,546
2008	42,294.63	8,014	9,266	38 , 950	37.52	1,038
2009	80,687.42	13,266	15,337	76,646	38.51	1,990
	8,901,116.47	5,576,063	6,446,852	3,700,420		177,249

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.9 1.99



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C03- CABLES - UNDERGROUND

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	DR CURVE IOWA LVAGE PERCENT					
1967	67,835.10	59,069	68,848	8,484	14.17	599
1968	67,096.88	57,584	67,117	9,373	14.83	632
1970	135,075.57	112,307	130,899	23,087	16.24	1,422
1971	28,808.00	23,547	27,445	5,396	16.98	318
1972	12,861.35	10,324	12,033	2,629	17.75	148
1975	15,303.23	11,569	13,484	3,962	20.21	196
1976	3,697.85	2,735	3,188	1,028	21.07	49
1977	6,782.66	4,902	5,714	2,018	21.96	92
1978	85,112.12	60,060	70,003	27 , 025	22.86	1,182
1979	84,286.46	58,005	67 , 607	28,480	23.78	1,198
1980	62,069.93	41,619	48,509	22,251	24.71	900
1981	47,782.87	31,176	36,337	18,135	25.66	707
1982	99,352.11	63,011	73,442	39,819	26.62	1,496
1983	33,221.24	20,457	23,844	14,028	27.59	508
1987	44,595.82	24,132	28,127	22,712	31.52	721
1989	77,293.50	38,903	45,343	42,772	33.51	1,276
1990	80,930.60	39,211	45,702	46,559	34.50	1,350
1991	94,095.94	43,801	51,052	56,217	35.50	1,584
1992	52,174.86	23,296	27,153	32,326	36.50	886
1993	6,622.24	2,831	3,300	4,249	37.50	113
1995	166,037.71	64,672	75 , 378	113,905	39.50	2,884
1996	9,885.30	3,663	4,269	7,000	40.50	173
1998	22,326.20	7,424	8,653	16,799	42.50	395
2000	68,281.30	20,109	23,438	54,403	44.50	1,223
2001	17,652.00	4,863	5,668	14,455	45.50	318
2012	323,501.29	21,512	25,073	343,718	56.50	6,084
2013	109,168.13	5,186	6,045	118,407	57.50	2,059
2014	464,890.58	13,249	15,442	514,533	58.50	8,795
2015	550,805.10	5,400	6,294	621,623	57.64	10,785
	2,837,545.94	874,617	1,019,407	2,215,395		48,093

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 46.1 1.69



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C04 - CABLES - ABOVE GROUND

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	60-R4				
	LVAGE PERCENT					
1967	176,785.73	148,733	187,166	14,370	15.72	914
1968	631,767.69	523 , 114	658 , 290	61 , 925	16.42	3,771
1970	331,759.42	265 , 565	334 , 189	44,017	17.87	2,463
1971	193,228.00	151 , 956	191,222	29,058	18.61	1,561
1973	1,019.00	772	971	191	20.13	9
1974	55,053.53	40,889	51,455	11,306	20.91	541
1975	13,512.29	9,830	12,370	3,034	21.71	140
1976	18,193.77	12,960	16,309	4,432	22.51	197
1977	117,653.40	81,973	103,155	30,970	23.33	1,327
1978	526,233.47	358,342	450 , 940	148,966	24.16	6,166
1979 1980	144,962.66 1,157,039.66	96,400 750,750	121,310 944,748	43,947	25.00 25.85	1,758 14,479
1981	65,447.70	41,396	52,093	374,277 22,517	26.71	843
1982	272,572.07	167,848	211,221	99,511	27.59	3,607
1983	564,279.89	338,043	425,395	217,884	28.47	7,653
1984	26,779.68	15,590	19,619	10,910	29.36	372
1985	914,217.74	516,414	649,858	392,350	30.27	12,962
1986	84,189.34	46,100	58,013	37,963	31.18	1,218
1987	152,983.16	81,096	102,052	72,349	32.10	2,254
1988	117,705.66	60,316	75 , 902	58,282	33.03	1,765
1989	406,872.20	201,304	253,322	210,512	33.96	6,199
1990	289,793.00	138,201	173,913	156,451	34.90	4,483
1991	469,171.72	215,279	270,908	263,948	35.85	7,363
1992	382,068.34	168,417	211,937	223,621	36.80	6,077
1993	54,650.56	23,093	29,060	33,242	37.76	880
1994	671 , 843.79	271,642	341,836	424,066	38.72	10,952
1995	227,348.10	87 , 731	110,401	148,776	39.69	3,748
1996	93,595.81	34,392	43 , 279	63,420	40.66	1,560
1997	20,857.26	7,276	9,156	14,621	41.64	351
1998	290,277.41	95,857	120,627	210,289	42.62	4,934
1999	87,492.36	27,262	34,307	65,434	43.60	1,501
2000	117,716.09	34,488	43,400	90,796	44.58	2,037
2001	115,541.04	31,678	39 , 864	91,853	45.57	2,016
2002	34,593.27 91,821.83	8,834 21,720	11,117 27,333	28,319 77,344	46.56	608 1 , 627
2003 2005	114,623.60	22,802	28,694	101,977	47.55 49.53	2,059
2005	42,472.94	7,650	9,627	38,792	50.52	2 , 039
2010	60,549.31	6,316	7,948	61,078	54.51	1,120
2010	299,364.07	25,538	32,137	309,138	55.51	5,569
	233,001.07	20,000	02,10	203,130	00.01	0,000



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C04 - CABLES - ABOVE GROUND

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA SALVAGE PERCENT					
2012	851,025.79	56,590	71,213	898,956	56.50	15,911
2013	162,111.78	7,701	9,691	175,116	57.50	3,045
2015	101,754.69	1,021	1,285	114,715	56.00	2,048
	10,550,928.82	5,202,879	6,547,333	5,480,726		148,856
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	36.8	1.41



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C06 - CAPACITORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR	CURVE IOWA	35-R3				
NET SALV	AGE PERCENT	-3				
1966	44,470.98	42,704	28,601	17,204	2.37	7,259
1970	2,823.50	2,625	1,758	1,150	3.41	337
1971	260,900.32	240,473	161,054	107,673	3.68	29,259
1976	24,435.00	21,422	14,347	10,821	5.21	2,077
1980	73,112.99	60,611	40,594	34,712	6.83	5,082
1982	23,267.18	18,624	12,473	11,492	7.80	1,473
1987	83,725.72	59 , 923	40,133	46,104	10.68	4,317
1995	9,531.39	5,217	3,494	6,323	16.40	386
1996	315,830.49	165,441	110,802	214,503	17.20	12,471
2000	156,646.75	66 , 797	44,737	116,609	20.51	5,685
	994,744.32	683 , 837	457,993	566,594		68,346

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.3 6.87



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C07 - CHEMICAL FEED SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1968	50,551.82	47,000	53,585			
1969	244,559.50	225,071	259,233			
1971	72,184.00	64,918	76 , 358	157	6.82	23
1979	50,551.82	39,653	46,641	6,944	11.70	594
1980	49,318.00	37,860	44,532	7,745	12.41	624
1997	28,676.00	12,314	14,484	15,913	26.77	594
2014	13,291.22	470	553	13,536	43.50	311
	509,132.36	427,286	495,386	44,295		2,146

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.6 0.42



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C09 - CIRCUIT BREAKERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1) SURVIV	ORIGINAL COST (2) OR CURVE IOWA	CALCULATED ACCRUED (3) 60-R2.5	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
NET SA	LVAGE PERCENT	-8				
1965 1966	425,666.49 367,145.54	311,538 264,806	349,668 297,217	110,052 99,300	19.34 19.93	5,690 4,982
1967 1968	1,042,097.33 796,597.78	740,185 556,915	830,779 625,078	294,686 235,248	20.54 21.16	14,347 11,118
1969	111,883.17	76,951	86,369	34,465	21.79	1,582
1970	1,667,950.56	1,127,668	1,265,687	535,700	22.44	23,873
1971 1972	447,005.29 570,106.07	296,983 371,892	333,332 417,409	149,434 198,306	23.09 23.76	6,472 8,346
1974	143,276.68	89,981	100,994	53,745	25.11	2,140
1975	284,265.78	174,942	196,354	110,653	25.81	4,287
1976 1977	46,322.66 591,124.91	27,924 348,683	31,342 391,360	18,686 247,055	26.51 27.23	705 9 , 073
1978	368,036.29	212,321	238,308	159,171	27.95	5,695
1979	77,376.00	43,621	48,960	34,606	28.68	1,207
1980 1981	752,547.60 201,796.88	414,235 108,354	464,935 121,616	347,816 96,325	29.42 30.17	11,822 3,193
1982	1,010,144.64	528,754	593,470	497,486	30.92	16,089
1983	312,136.55	159,057	178,524	158,583	31.69	5,004
1985	39,560.00	19,055	21,387	21,338	33.24	642
1986 1987	37,090.93 74,384.82	17,338 33,714	19,460 37,840	20,598 42,496	34.03 34.82	605 1,220
1988	144,831.66	63,532	71,308	85,110	35.63	2,389
1989	584,900.94	248,047	278,406	353 , 287	36.44	9,695
1990	377,794.87	154,708	173,643	234,375	37.25	6 , 292
1991 1992	105,091.04 1,090,316.93	41,464 413,906	46,539 464,566	66,959 712,976	38.08 38.91	1,758 18,324
1993	272,449.19	99,358	111,519	182,726	39.74	4,598
1994	25,447.73	8,891	9,979	17,505	40.59	431
1995	829,497.24	277,115	311,032	584,825	41.44	14,113
1996 1997	429,268.08 193,557.82	136,765 58,672	153,504 65,853	310,106 143,189	42.30 43.16	7,331 3,318
1998	154,366.88	44,375	49,806	116,910	44.03	2,655
2000	264,854.19	67,792	76,089	209,954	45.78	4,586
2001	18,558.77	4,453	4,998	15,045	46.67	322
2002 2003	421,478.53 349,437.85	94,376 72,648	105,927 81,540	349,270 295,853	47.56 48.45	7,344 6,106
2003	80,483.15	15,429	17,317	69,605	49.35	1,410
2005	50,011.92	8,768	9,841	44,172	50.26	879
2006	186,607.14	29,660	33,290	168,246	51.17	3,288
2007	289,169.14	41,224	46,270	266,033	52.08	5,108
2008 2009	295,465.76 608,353.56	37 , 230 66 , 576	41,787 74,725	277,316 582,297	53.00 53.92	5,232 10,799
2010	473,265.53	43,870	49,239	461,888	54.85	8,421
	•	•	•			



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C09 - CIRCUIT BREAKERS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2011	952,197.82	72,500	81,374	947,000	55.77	16,980
2012	3,317,849.11	196,471	220,518	3,362,759	56.71	59,297
2013	3,601,188.71	152,966	171,688	3,717,596	57.64	64,497
2014	1,864,738.64	47,669	53,503	1,960,415	58.58	33,466
2015	13,308,974.30	162,423	182,303	14,191,390	43.75	324,375
	39,656,672.47	8,585,805	9,636,653	33,192,554		761,106
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	г 43.6	1.92



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C10 - COMPRESSED AIR SYSTEMS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	41-R1 5				
	VAGE PERCENT					
	· · · · · · · · · · · · · · · · · · ·					
1966	36,402.01	27,843	36,402			
1967	134,088.28	101,351	134,088			
1968	20,339.00	15,185	20,339			
1969	41,026.75	30,230	41,027			
1970	6,003.88	4,364	6,004			
1971	115,324.40	82 , 668	115,324			
1974	96,150.08	65 , 781	95 , 714	436	12.95	34
1975	10,000.00	6,727	9,788	212	13.42	16
1976	41,950.85	27,729	40,347	1,604	13.90	115
1977	138,474.81	89,873	130,768	7,707	14.39	536
1978	62,390.47	39,717	57 , 790	4,600	14.90	309
1979	42,011.01	26,211	38,138	3,873	15.42	251
1980 1982	227,569.20 153,558.59	138,983 89,663	202,225	25,344 23,096	15.96 17.06	1,588 1,354
1983	56,543.78	32,230	130,463 46,896	9,648	17.63	547
1984	166,456.15	92,525	134,627	31,829	18.21	1,748
1987	36,205.07	18,526	26,956	9,249	20.02	462
1988	114,736.03	56,948	82,861	31,875	20.65	1,544
1989	75,207.79	36,155	52,607	22,601	21.29	1,062
1990	41,543.60	19,323	28,116	13,428	21.93	612
1991	35,627.98	15,998	23,278	12,350	22.59	547
1992	515,633.45	223,104	324,623	191,010	23.26	8,212
1993	44,089.54	18,356	26,709	17,381	23.93	726
1994	234,644.19	93,743	136,399	98,245	24.62	3,990
1995	129,037.60	49,380	71,849	57 , 189	25.31	2,260
1996	10,656.00	3,896	5,669	4,987	26.01	192
1997	28,531.93	9,937	14,459	14,073	26.72	527
1998	83 , 020.75	27,457	39,951	43,070	27.44	1,570
1999	164,358.52	51,472	74,893	89,466	28.16	3,177
2000	194,860.89	57,556	83,746	111,115	28.89	3,846
2001	147,959.05	41,032	59,703	88,256	29.63	2,979
2002	41,272.02	10,690	15,554	25,718	30.38	847
2003	199,999.97	48,146	70,054	129,946	31.13	4,174
2006	30,617.63	5,668	8,247	22 , 371	33.41	670
2007 2008	245,404.91 437,893.16	40,762 64,401	59,310 93,705	186,095 344,188	34.19 34.97	5,443 9,842
2008	168,689.23	21,601	31,430	137,259	34.97	3,839
2009	140,437.37	15,243	22,179	118,258	36.55	3,039
2010	594,575.25	53,078	77,230	517,345	37.34	13,855
2011	031,010.20	55,070	, , , 250	011,010	J , • J 1	10,000



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C10 - COMPRESSED AIR SYSTEMS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2013 2014 2015	1,517,053.33 1,947,748.40 8,138,617.43	75,853 58,432 172,539	110,368 85,020 251,050	1,406,685 1,862,728 7,887,568	38.95 39.77 23.03	36,115 46,838 342,491
	16,666,710.35	2,160,376	3,115,906	13,550,805		505,554
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	26.8	3.03



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C11 - COMPUTERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE 5-SQU	JARE				
NET SA	LVAGE PERCENT	0				
2011	833 , 717.71	750 , 346	833 , 718			
2012	486,015.94	340,211	474 , 522	11,494	1.50	7,663
2013	507,503.04	253,752	353,930	153,573	2.50	61,429
2014	906,905.69	272,072	379,483	527,423	3.50	150,692
2015	2,165,632.80	216,563	302,060	1,863,573	4.50	414,127
	4,899,775.18	1,832,944	2,343,713	2,556,063		633,911

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.0 12.94



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C12 - CONDENSERS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1968	125,930.00	94,097	125,930	3,778	15.10	250
	125,930.00	94,097	125,930	3,778		250
C	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCEN'	г 15.1	0.20



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C13 - CONDUCTOR - TRANSMISSION

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIN	OR CURVE IOWA	60-R3				
	ALVAGE PERCENT	-20				
1967	4,914,310.79	4,075,949	3,201,552	2,695,621	18.53	145,473
1968	2,408,871.94	1,966,593	1,544,708	1,345,938	19.18	70,174
1969	252,646.14	202,924	159,392	143,783	19.84	7,247
1970	773,190.55	610,669	479,665	448,164	20.51	21,851
1974	1,719,831.21	1,261,661	991,002	1,072,795	23.32	46,003
1976	115,943.00	81 , 647	64,132	75,000	24.79	3,025
1977	3,045,179.01	2,099,346	1,648,982	2,005,233	25.53	78 , 544
1978	4,925,086.90	3,320,474	2,608,146	3,301,958	26.29	125,597
1980	181,069.54	116,464	91,479	125 , 804	27.84	4,519
1981	4,162,701.19	2,611,662	2,051,393	2,943,848	28.63	102,824
1982	3,398,474.63	2,078,521	1,632,624	2,445,546	29.42	83,125
1983	5,998,197.19	3,571,351	2,805,204	4,392,633	30.23	145,307
1984	47,247.22	27 , 366	21,495	35 , 202	31.04	1,134
1985	5,404,348.91	3,041,568	2,389,073	4,096,146	31.86	128,567
1987	2,718,221.55	1,439,037	1,130,326	2,131,540	33.53	63 , 571
1988	1,473,940.83	755 , 247	593 , 227	1,175,502	34.38	34,191
1990	10,521,540.36	5,031,401	3,952,035	8,673,813	36.09	240,338
1991	86,132.87	39 , 690	31,175	72,184	36.96	1,953
1993	41,589.61	17 , 701	13,904	36,004	38.72	930
1994	60,822.38	24,803	19,482	53 , 505	39.61	1,351
1995	1,422,398.39	554 , 445	435,502	1,271,376	40.51	31,384
1996	1,224,020.27	455 , 086	357 , 458	1,111,366	41.41	26 , 838
1997	1,145,752.44	405,143	318,229	1,056,674	42.32	24,969
1998	1,573,598.67	527 , 464	414,309	1,474,009	43.24	34,089
1999	21,688.99	6 , 871	5 , 397	20,630	44.16	467
2000	3,007,366.22	897 , 410	704 , 893	2,903,946	45.08	64,418
2001	2,311,965.35	646 , 426	507 , 751	2,266,607	46.02	49,253
2002	2,594,819.36	676 , 719	531 , 545	2,582,238	46.96	54 , 988
2003	221,106.87	53 , 509	42,030	223,298	47.90	4,662
2004	434,397.16	96 , 869	76 , 088	445,189	48.85	9,113
2006	705,521.48	130,524	102,523	744,103	50.75	14,662
2009	111,767.05	14,217	11,167	122,953	53.64	2,292
2012	299,025.72	20,572	16,159	342 , 672	56.56	6,059
	67,322,773.79	36,859,329	28,952,047	51,835,281		1,628,918

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.8 2.42



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C14 - CONDUCTOR - DISTRIBUTION

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1971	3,753.07	3,392	4,073	205	9.32	22
1977	656.03	539	647	101	12.57	8
1980	680,075.68	526,164	631 , 829	143,457	14.46	9,921
1981	3,794,248.37	2,871,143	3,447,731	877,712	15.13	58,011
1982	324,313.18	239,824	287,986	81,731	15.81	5,170
1983	365,982.33	264,146	317,192	100,028	16.51	6,059
1984	869,595.49	611,983	734,883	256,456	17.22	14,893
1985	1,131,140.14	775,415	931,135	358,365	17.94	19,976
1986	665,165.55	443,515	532,583	225,706	18.68	12,083
1987	929,287.13	601,732	722,573	336,814	19.44	17,326
1988	912,838.30	573 , 505	688 , 677	351 , 959	20.20	17,424
1989	1,267,583.55	771 , 336	926 , 237	518,808	20.98	24,729
1990	810 , 770.90	477 , 131	572 , 949	351 , 330	21.77	16,138
1991	674 , 376.06	383 , 195	460,149	308,640	22.57	13,675
1992	209,024.16	114,483	137,474	100,814	23.38	4,312
1993	718,909.28	378 , 635	454 , 673	364,884	24.21	15,072
1994	531,275.33	268,644	322,594	283,060	25.04	11,304
1995	767,449.08	371 , 540	446,153	428,739	25.89	16,560
1996	736,198.70	340 , 558	408,950	430,317	26.74	16,093
1997	1,387,592.71	611 , 292	734,053	847 , 803	27.61	30 , 706
1998	529,319.58	221 , 390	265,850	337 , 574	28.49	11,849
1999	506,039.28	200 , 369	240,607	336 , 278	29.37	11,450
2000	690,169.14	257 , 541	309,261	477 , 532	30.27	15 , 776
2001	579 , 576.91	203,058	243 , 836	416,882	31.17	13,374
2002	3,846,551.26	1,258,997	1,511,831	2,873,237	32.08	89,565
2003	456,361.12	138,736	166,597	353 , 655	33.00	10,717
2004	302,078.96	84,715	101,728	242,642	33.93	7,151
2005	211,959.87	54,447	65,381	176 , 253	34.86	5,056
2006	836,237.51	194,685	233,782	719,529	35.81	20,093
2007	503,436.12	105,216	126,346	447,571	36.75	12,179
2008	513,342.62	94,804	113,843	471,368	37.71	12,500
2009	700,782.34	112,380	134,948	663,944	38.67	17,169
2010	257,354.34	35,010	42,041	251,343	39.63	6,342
2011	679,683.14	75,764	90,979	683,860	40.60	16,844
2012	1,516,047.71	131,731	158,186	1,570,108	41.57	37,770
2013	2,528,214.39	156,905	188,415	2,693,749	42.55	63,308
2014	1,708,712.98	63,639	76,419	1,871,514	43.53	42,994
2015	1,173,947.41	17,532	21,052	1,317,248	37.67	34,968
	34,320,049.72	14,035,091	16,853,643	22,271,213		738 , 587

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.2 2.15



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C15 - CONTROL, METER, RELAYING

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1966	36,520.98	32,339	36,521			
1967	2,199,495.92	1,931,707	2,199,496			
1968	187,202.31	162,960	187,202			
1969	15,677.96	13,522	15,678			
1970	533,801.11	456,000	533,801	E 100	7 20	7.01
1974	120,963.38	98,615	115,780	5,183	7.39	701
1975	601,106.89	483,290	567,412	33,695	7.84	4,298
1976 1977	15,568.70 246,762.49	12,334 192,475	14,481 225,978	1,088 20,784	8.31 8.80	131 2,362
1978	373,655.09	286,593	336,478	37,177	9.32	3,989
1979	375,981.62	283,302	332,614	43,368	9.86	4,398
1980	455,216.20	336,632	395,227	59,989	10.42	5,757
1981	170,456.85	123,539	145,042	25,415	11.01	2,308
1982	658,589.68	467,269	548,603	109,987	11.62	9,465
1983	388,062.45	269,218	316,078	71,984	12.25	5 , 876
1984	100,532.36	68,136	79,996	20,536	12.89	1,593
1985	252,442.18	166,864	195,909	56,533	13.56	4,169
1986	359,520.68	231,441	271,726	87,795	14.25	6,161
1987	368,451.36	230,743	270,906	97 , 545	14.95	6 , 525
1988	280,161.31	170,408	200,069	80,092	15.67	5,111
1989	472,543.72	278,801	327,330	145,214	16.40	8,855
1990	855,124.00	488,490	573 , 517	281,607	17.15	16,420
1991	317,765.84	175,486	206,031	111,735	17.91	6 , 239
1992	1,264,624.68	673 , 729	790,999	473,626	18.69	25,341
1993	186,436.87	95,642	112,290	74,147	19.48	3,806
1994	598,119.58	294 , 723	346,023	252 , 097	20.29	12,425
1995	1,065,976.45	503 , 674	591,344	474 , 632	21.10	22,494
1996	404,758.31	182 , 850	214,677	190,081	21.93	8,668
1997	565,586.88	243,485	285 , 866	279 , 721	22.78	12 , 279
1998	730,947.18	299,140	351,209	379,738	23.63	16,070
1999	530,389.44	205,659	241,456	288,933	24.49	11,798
2000	822,908.39	300,979	353,368	469,540	25.37	18,508
2001	950,459.04	326,483	383,311	567,148	26.26	21,597
2002	239,056.24	76 , 797	90,165	148,891	27.15	5,484
2003	446,753.60	133,356	156,568	290,186	28.06	10,342
2004	445,632.59	122,772	144,142	301,491	28.98	10,403
2005 2006	427,141.09 409,537.22	107,853	126,626	300,515	29.90 30.83	10,051 9,708
2006	82,358.78	93,886 16,945	110,228 19,895	299,309 62,464	30.83	1,966
2007	223,078.36	40,600	47,667	175,411	32.72	5,361
2008	894,285.65	141,297	165,891	728,395	33.68	21,627
2010	539,700.35	72,320	84,908	454,792	34.64	13,129
2011	412,886.73	45,418	53,324	359,563	35.60	10,100
	, 000.	-0, 110	20,021	•		10 , 100



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C15 - CONTROL, METER, RELAYING

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE IOWA	40-R3				
NET S	ALVAGE PERCENT	0				
2012	1,129,269.89	96,835	113,690	1,015,580	36.57	27,771
2013	601,208.05	36,824	43,234	557,974	37.55	14,859
2014	700,071.44	25,728	30,206	669,865	38.53	17,386
2015	6,588,417.68	97,509	114,482	6,473,936	33.40	193,830
	29,645,207.57	11,194,668	13,067,444	16,577,763		599,361
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	27.7	2.02



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C16 - COOLING SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	40-R1.5				
NET SA	ALVAGE PERCENT	-3				
1965	49,714.69	40,171	51,206			
1966	135,606.99	108,353	139,675			
1968	3,234.56	2,524	3,332			
1969	49,140.60	37 , 860	50,615			
1971	36,015.66	27 , 006	37 , 096			
1973	19,339.13	14,078	19,919			
1977	283,921.00	193 , 156	292,439			
1979	137,803.24	90,201	139,351	2,586	14.58	177
1980	26,475.28	16 , 975	26,225	1,045	15.10	69
1981	25,088.47	15 , 737	24,312	1,529	15.64	98
1982	166,753.32	102,238	157,947	13,809	16.19	853
1983	8,937.20	5 , 351	8,267	938	16.75	56
1984	249,308.82	145,599	224,935	31,853	17.32	1,839
1988	32,571.66	17,009	26 , 277	7,272	19.72	369
1989	129,470.58	65 , 510	101,206	32,149	20.35	1,580
1992	37,915.23	17,271	26,682	12,371	22.31	555
1993	9,304.03	4,078	6,300	3,283	22.98	143
1994	352,789.80	148,438	229,321	134,052	23.66	5,666
1995	161,864.75	65 , 229	100,772	65,949	24.35	2,708
1998	313,562.88	109,325	168,895	154,075	26.46	5,823
1999	106,668.44	35,213	54,400	55,468	27.18	2,041
2000	152,434.02	47,455	73,313	83,694	27.91	2,999
2002	39,354.90	10,752	16,611	23,925	29.39	814
2003	86,319.27	21,916	33,858	55,051	30.14	1,827
2005	28,881.00	6,210	9,594	20,153	31.65	637
2006	135,121.63	26,374	40,745	98,430	32.42	3,036
2007	79,243.07	13,896	21,468	60,152	33.19	1,812
2008	340,925.64	52 , 936	81,780	269,373	33.97	7,930
2009	480,251.41	64,800	100,109	394,550	34.76	11,351
2010	348,761.61	39 , 964	61,740	297,484	35.55	8,368
2011	446,006.93	42,034	64,938	394,449	36.34	10,854
2012	16,052.49	1,178	1,820	14,714	37.15	396
2013	1,708,834.64	90,205	139,357	1,620,743	37.95	42,707
2014	557 , 250.79	17 , 650	27,268	546 , 700	38.77	14,101
2015	3,252,113.98	73,023	112,813	3,236,865	22.49	143,925
	10,007,037.71	1,769,715	2,674,586	7,632,663		272,734

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.0 2.73



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C17 - COUNTERPOISE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	55-R2.5				
NET SAI	LVAGE PERCENT	-6				
1967	431,098.26	320,208	314,987	141,977	16.46	8,626
1968	247,792.88	181,380	178,423	84,237	17.02	4,949
1970	546.00	387	381	198	18.20	11
1974	15,552.35	10,281	10,113	6 , 372	20.70	308
1978	123,318.62	75 , 104	73 , 879	56 , 839	23.40	2,429
1981	9,506.07	5 , 399	5,311	4,765	25.53	187
1982	27,542.40	15,256	15,007	14,188	26.26	540
1983	15,526.13	8,378	8,241	8,217	27.00	304
1985	214,651.00	109,629	107,842	119,688	28.50	4,200
1986	106,804.26	52 , 963	52,100	61,113	29.27	2,088
1987	11,117.41	5,346	5 , 259	6 , 525	30.05	217
1988	215,117.18	100,205	98 , 571	129,453	30.83	4,199
1989	147,661.97	66,536	65,451	91,071	31.62	2,880
1990	34,172.01	14,871	14,629	21,593	32.42	666
1991	558.98	235	231	362	33.23	11
1992	161,824.60	65 , 339	64,274	107,260	34.05	3,150
1993	365,268.31	141,709	139,398	247,786	34.87	7,106
1994	331,398.89	123,269	121,259	230,024	35.70	6,443
1995	19,011.26	6,764	6,654	13,498	36.54	369
1996	17,886.51	6,074	5 , 975	12,985	37.38	347
1997	48,442.27	15 , 657	15,402	35 , 947	38.23	940
1999	3,158.47	916	901	2,447	39.96	61
2000	280,787.97	76 , 683	75,433	222,202	40.83	5,442
2001	216,852.36	55 , 544	54,638	175,226	41.71	4,201
2002	181,203.61	43,340	42,633	149,443	42.59	3,509
2003	352,909.92	78 , 352	77,075	297,010	43.48	6,831
2012	43,379.13	2,751	2,706	43,276	51.71	837
	3,623,088.82	1,582,576	1,556,773	2,283,701		70,851

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.2 1.96



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C18 - CRANES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1966	658,978.00	422,473	206,343	472,404	26.43	17,874
1967	189,000.00	119,194	58,216	136,454	27.14	5,028
1969	234,007.00	142,517	69,608	171,419	28.61	5 , 992
1979	597,576.53	295,263	144,211	471,293	36.42	12,940
1980	136,287.00	65,696	32,087	108,289	37.24	2,908
1982	1,501,411.45	686,842	335,465	1,210,989	38.91	31,123
1984	993,957.00	429,986	210,012	813,764	40.60	20,043
1985	123,618.00	51,912	25,355	101,972	41.46	2,460
1988	304,605.66	116,220	56,764	256,980	44.07	5,831
1989	23,800.39	8,773	4,285	20,229	44.95	450
1993	15,442.12	4,876	2,382	13,523	48.54	279
1995	3,781.63	1,093	534	3,361	50.36	67
1996	6,207.08	1,709	835	5,558	51.29	108
2002	8,414.90	1,621	792	7,875	56.91	138
2003	1,560,150.29	278 , 694	136,117	1,470,838	57.86	25,421
2006	93,901.29	12,808	6,256	90,462	60.73	1,490
2008	15,189.34	1,638	800	14,845	62.67	237
2011	143,366.54	9,303	4,544	143,124	65.59	2,182
2013	215,839.27	7,812	3,815	218,499	67.54	3,235
2014	63,166.18	1,375	672	64,389	68.52	940
2015	13,442.50	118	57	13,788	58.32	236
	6,902,142.17	2,659,923	1,299,150	5,810,056		138,982

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.8 2.01



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D01 - DAMS, DYKES, CANALS AND TUNNELS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
CHDVIT	VOR CURVE IOWA	110_D/				
	ALVAGE PERCENT					
NEI S	ALVAGE FERCENI	-0				
1956	615,305.93	348,759	103,011	561,519	52.27	10,743
1966	42,867,104.87	20,454,708	6,041,606	40,254,867	61.40	655,617
1967	27,131,965.00	12,695,904	3,749,926	25,552,596	62.34	409,891
1969	146,223.72	65,724	19,413	138,509	64.22	2,157
1970	4,899,824.94	2,156,678	637,007	4,654,804	65.17	71,426
1978	3,644,386.00	1,329,284	392,624	3,543,313	72.85	48,638
1979	26,954,544.28	9,574,869	2,828,082	26,282,826	73.82	356 , 039
1980	8,733,611.13	3,019,185	891 , 762	8,540,538	74.79	114,194
1982	54,770,206.67	17,885,145	5,282,647	53,869,176	76.74	701,970
1983	21,684,267.05	6,872,308	2,029,839	21,389,169	77.72	275,208
1984	113,124,637.53	34,764,785	10,268,302	111,906,307	78.70	1,421,935
1985	10,995,558.61	3,273,281	966,813	10,908,390	79.68	136,902
1986	48,803.37	14,054	4,151	48,557	80.67	602
1988	12,002,331.79	3,224,167	952 , 306	12,010,212	82.64	145,332
1989	503,088.54	130,303	38,487	504,849	83.62	6 , 037
1992	38,009.96	8,736	2,580	38,471	86.59	444
1993	4,711.97	1,037	306	4,783	87.58	55
2003	28,219,035.47	3,457,566	1,021,245	29,455,313	97.52	302,044
2005	2,863,283.51	294 , 608	87 , 017	3,005,329	99.52	30 , 198
2009	704,177.11	44 , 870	13,253	747 , 258	103.51	7,219
2010	496,885.77	26 , 784	7 , 911	528 , 726	104.51	5,059
2012	1,302,985.46	44 , 778	13,226	1,393,998	106.50	13,089
2014	158,306.95	2,332	689	170,283	108.50	1,569
	361,909,255.63	119,689,865	35,352,203	355,509,793		4,716,368

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 75.4 1.30



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D02 - DIESEL SYSTEMS AND ENGINES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE IOWA	25-L0.5				
	ALVAGE PERCENT					
1965	644,462.40	507 , 901	715,353			
1968	10,325.00	7,908	11,461			
1973	394,804.06	285,903	438,233			
1980	1,137,849.89	746,694	1,202,375	60,638	10.22	5 , 933
1981	453,076.02	292 , 495	470,994	31,920	10.46	3,052
1982	933,452.28	592 , 668	954,353	81 , 779	10.70	7,643
1983	1,238,000.00	772 , 289	1,243,590	130,590	10.95	11,926
1984	337,094.61	206,395	332,351	41,824	11.21	3,731
1986	154,494.96	90 , 958	146,466	25 , 023	11.74	2,131
1987	41,924.03	24,180	38,936	7,600	12.01	633
1988	83,806.15	47,294	76 , 156	16,869	12.29	1,373
1989	64 , 057.60	35 , 324	56 , 881	14,223	12.58	1,131
1990	472,403.24	254 , 423	409,688	114,680	12.87	8,911
1991	383 , 928.98	201 , 659	324,724	101,437	13.17	7,702
1992	28,368.16	14,510	23 , 365	8,124	13.48	603
1993	108,978.30	54,241	87 , 342	33,624	13.79	2,438
1994	1,528,540.74	739 , 074	1,190,105	506 , 575	14.11	35 , 902
1995	630,494.80	295 , 616	476 , 020	223 , 829	14.44	15,501
1996	530 , 077.55	240 , 768	387 , 700	200 , 686	14.77	13,587
1997	1,429,293.16	627 , 625	1,010,643	575 , 872	15.11	38,112
1998	1,109,693.01	470 , 039	756 , 888	474 , 871	15.46	30,716
1999	232,763.17	94 , 872	152 , 769	105 , 598	15.82	6 , 675
2000	1,480,070.67	578 , 950	932,263	710,615	16.19	43,892
2001	1,962,927.92	735 , 580	1,184,479	994 , 371	16.56	60,047
2002	1,639,155.44	585 , 867	943,401	876 , 062	16.95	51,685
2003	242,831.69	82 , 480	132,815	136,728	17.35	7,881
2005	1,106,121.95	333 , 469	536 , 974	690 , 821	18.21	37 , 936
2006	357 , 925.58	100,278	161,474	235,823	18.69	12,618
2007	916 , 657.89	236 , 465	380 , 771	636 , 719	19.19	33,180
2008	109,011.51	25 , 507	41,073	79,930	19.73	4,051
2009	2,637,507.76	550 , 395	886 , 282	2,041,352	20.30	100,559
2010	2,771,772.15	503,343	810,516	2,266,151	20.91	108,376
2011	3,742,552.77	571 , 623	920,465	3,233,769	21.56	149,989
2012	2,407,096.08	294 , 975	474,988	2,196,889	22.24	98 , 781
2013	1,510,549.68	136,820	220,316	1,456,394	22.96	63,432
2014	6,633,910.89	374,073	602,357	6,761,284	23.73	284,926
2015	2,431,370.59	98 , 777	159,057	2,539,764	13.16	192,991
	41,897,350.68	11,811,438	18,893,624	27,612,435		1,448,044

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 19.1 3.46



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D03 - DISCONNECT SWITCHES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1) SURVIV	ORIGINAL COST (2) OR CURVE IOWA	CALCULATED ACCRUED (3) 55-R2.5	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	LVAGE PERCENT					
1965 1966 1967 1968 1969	242,270.77 177,667.19 714,863.43 482,439.40 207,719.11 1,273,238.73	179,805 130,095 515,954 343,143 145,486 877,469	229,620 166,138 658,899 438,211 185,793 1,120,571	19,919 16,859 77,410 58,702 28,158 190,865	15.37 15.90 16.46 17.02 17.60 18.20	1,296 1,060 4,703 3,449 1,600
1971	232,031.02	157,300	200,880	38,112	18.80	2,027
1972	280,022.05	186,584	238,277	50,146	19.42	2,582
1974	160,146.36	102,870	131,370	33,581	20.70	1,622
1975	172,354.33	108,581	138,663	38,862	21.36	1,819
1976	21,825.02	13,475	17,208	5,272	22.03	239
1977	395,853.89	239,374	305,693	102,037	22.71	4,493
1978	242,505.95	143,512	183,272	66,509	23.40	2,842
1979	42,312.17	24,485	31,269	12,313	24.10	511
1980	274,055.46	154,945	197,872	84,405	24.81	3,402
1981	134,922.49	74,463	95,093	43,877	25.53	1,719
1982	281,577.30	151,552	193,539	96,486	26.26	3,674
1983	44,083.42	23,116	29,520	15,886	27.00	588
1984	44,313.73	22,614	28,879	16,764	27.75	604
1985	15,913.15	7,897	10,085	6,306	28.50	221
1986	31,745.19	15,297	19,535	13,163	29.27	450
1987	151,700.26	70,882	90,520	65,731	30.05	2,187
1988	132,691.61	60,061	76,701	59,971	30.83	1,945
1989	502,766.48	220,133	281,121	236,728	31.62	7,487
1990	481,796.61	203,736	260,181	236,070	32.42	7,282
1991	36,330.90	14,812	18,916	18,505	33.23	557
1992	231,030.02	90,642	115,754	122,207	34.05	3,589
1993	104,983.77	39,577	50,542	57,591	34.87	1,652
1994	35,727.81	12,913	16,491	20,309	35.70	569
1995	422,371.06	146,018	186,472	248,570	36.54	6,803
1996	301,380.12	99,447	126,999	183,423	37.38	4,907
1997	30,529.45	9,588	12,244	19,201	38.23	502
1998	166,141.53	49,502	63,217	107,909	39.09	2,761
2000	170,065.45	45,130	57,633	117,534	40.83	2,879
2001	96,520.44	24,023	30,679	68,737	41.71	1,648
2002	187,571.33	43,593	55,670	137,528	42.59	3,229
2003	129,652.34	27,970	35,719	97,823	43.48	2,250
2004	157,797.58	31,383	40,078	122,454	44.38	2,759
2005	187,574.40	34,145	43,605	149,597	45.28	3,304
2006	35,094.81	5,797	7,403	28,745	46.18	622
2009	532,335.09	60,511	77,275	471,030	48.93	9,627
2010	57,070.54	5,504	7,029	51,754	49.85	1,038
2011	1,097,601.33	86,746	110,779	1,019,750	50.78	20,082



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D03 - DISCONNECT SWITCHES

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
	THE VIIOE TERROEIVI	J				
2012	1,533,843.65	94,507	120,690	1,459,169	51.71	28,218
2013	1,081,960.39	47,619	60,812	1,053,607	52.65	20,012
2014	2,921,484.67	77,696	99,222	2,909,907	53.58	54,310
2015	4,625,646.05	58,126	74,229	4,690,186	40.32	116,324
	20,883,527.85	5,278,078	6,740,368	14,769,665		355,931
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	г 41.5	1.70



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT D04 - DYKES AND LINERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	OR CURVE IOWA					
1968	26,479.96	17,309	28,598			
1974	142,100.00	87,075	150,013	3,455	18.17	190
1975	213,342.87	129,249	222,670	7,740	18.44	420
1980	53,900.59	30,700	52,890	5,323	19.85	268
1981	213,183.92	119,779	206,355	23,884	20.15	1,185
1982	89,895.87	49,816	85,823	11,265	20.45	551
1983	68,476.83	37,383	64,403	9,552	20.77	460
1985	211,511.23	111,822	192,647	35 , 785	21.44	1,669
1987	181,989.53	92,846	159,955	36,594	22.16	1,651
1990	264,232.48	126,651	218,195	67 , 176	23.36	2,876
1992	217,059.26	99,016	170,585	63,839	24.26	2,631
1998	39,596.79	14,693	25,313	17,452	27.57	633
1999	134,484.01	47,654	82,098	63,145	28.22	2,238
2002	75,888.45	22,812	39,301	42,659	30.31	1,407
2005	16,513.92	3,996	6,884	10,951	32.59	336
2011	478,782.72	52,572	90,571	426,514	37.73	11,304
2014	49,894.57	1,860	3,204	50,682	40.55	1,250
	2,477,333.00	1,045,233	1,799,505	876,014		29,069

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.1 1.17



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E01 - ELEVATORS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1971	89,800.00	83,327	89,800	2,694	4.46	604
	89,800.00	83,327	89,800	2,694		604
CO	MPOSTTE REMATE	ITNG TITEE AND	ANNIIAT. ACCRIIAT.	RATE PERCENT	4 5	0 67



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E02 - EMS EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1980	16,461.46	12,633	16,461			
1990	11,759,258.77	7,132,814	11,759,259			
1992	12,860.27	7,297	12,860			
1993	48,931.95	26 , 773	48,932			
1994	229,340.02	120,699	229,340			
1998	99,085.18	43,541	99,085			
1999	45,962.90	19,160	45,427	536	20.41	26
2000	117,114.88	46,109	109,322	7,793	21.22	367
2001	299,861.84	111,036	263,260	36,602	22.04	1,661
2004	8,032.68	2,396	5,681	2,352	24.56	96
2005	236,118.93	64,562	153,073	83,046	25.43	3,266
2009	22,360.02	3,846	9,119	13,241	28.98	457
2011	12,028.86	1,443	3,421	8,608	30.80	279
2012	9,801.36	918	2,177	7,625	31.72	240
	12,917,219.12	7,593,227	12,757,417	159,802		6,392

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.0 0.05



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E03 - ENVIRONMENTAL EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVOR	CURVE IOWA	45-R2.5				
NET SALV	AGE PERCENT	0				
1968	584,529.60	458,920	543,919	40,611	9.67	4,200
1994	100,098.42	42,220	50,040	50,058	26.02	1,924
1995	29,947.59	12,099	14,340	15,608	26.82	582
1997	129,242.84	47,533	56,337	72 , 906	28.45	2,563
2008	71,891.96	11,135	13,197	58 , 695	38.03	1,543
2015	20,165.58	298	354	19,812	33.17	597
	935,875.99	572 , 205	678,187	257,689		11,409

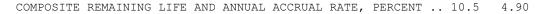
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.6 1.22



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F01 - FALL ARREST EQUIPMENT

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
2005	198,105.16	130,353	179,958	18,147	5.13	3,537
2006	217,857.72	131,586	181,660	36,198	5.94	6,094
2007	195,813.28	107,174	147,958	47 , 855	6.79	7,048
2008	199,279.40	97 , 248	134,255	65,024	7.68	8,467
2009	501,083.68	213,462	294,692	206,392	8.61	23,971
2010	43,100.70	15 , 631	21,579	21,522	9.56	2,251
2011	205,129.64	61,129	84,391	120,739	10.53	11,466
2012	184,242.00	42,744	59,010	125,232	11.52	10,871
2013	246,771.47	40,964	56,552	190,219	12.51	15,205
2014	336,964.29	33 , 696	46,519	290,445	13.50	21,514
2015	180,672.63	6,396	8,830	171,843	13.61	12,626
	2,509,019.97	880,383	1,215,404	1,293,616		123,050





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F02 - FENCING

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	95,307.91 58,848.45 66,173.02 117,281.68 13,312.00 65,739.16 24,667.06 51,949.96 11,288.90 59,296.08 19,241.61	75,041 45,705 50,660 88,440 9,883 48,010 17,707 36,633 7,813 40,251 12,802	98,167 60,614 68,158 120,800 13,711 67,711 25,407 53,508 11,628 61,075 19,819			
1978 1979 1980 1981 1982 1983 1984 1985 1986	145,749.97 18,281.62 279,753.22 85,268.34 189,624.32 282,397.46 85,097.82 245,056.33 25,867.46	94,952 11,653 174,273 51,885 112,569 163,390 47,938 134,261 13,767	150,122 18,637 278,725 82,983 180,038 261,319 76,670 214,731 22,018	193 9,421 4,843 15,275 29,550 10,981 37,677 4,625	19.82 20.55 21.28 22.03 22.79 23.56 24.34 25.13	10 458 228 693 1,297 466 1,548
1987 1988 1989 1990 1991 1992 1993 1994	213,373.01 75,843.42 182,675.48 112,235.72 137,599.47 122,833.27 43,943.39 83,857.05	110,184 37,948 88,433 52,488 62,060 53,333 18,340 33,552	176,224 60,692 141,436 83,947 99,256 85,299 29,332 53,662	43,550 17,427 46,720 31,656 42,471 41,219 15,930 32,711	25.93 26.74 27.56 28.39 29.23 30.08 30.93 31.80	1,680 652 1,695 1,115 1,453 1,370 515 1,029
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	82,864.42 45,009.81 57,176.21 133,014.01 43,860.85 52,825.13 163,588.29 50,286.59 1,015,869.57 32,448.49 116,002.80	31,727 16,440 19,876 43,867 13,683 15,527 45,105 12,939 242,668 7,147 23,368	50,743 26,293 31,789 70,159 21,884 24,833 72,139 20,694 388,113 11,431 37,374	34,607 20,067 27,102 66,845 23,293 29,577 96,357 31,101 658,233 21,991 82,109	32.67 33.56 34.45 35.35 36.25 37.16 38.08 39.01 39.94 40.88 41.83	1,059 598 787 1,891 643 796 2,530 797 16,481 538 1,963
2006 2008 2009 2011	5,454.01 58,461.93 255,773.00 813,892.56	996 8,465 32,172 71,097	1,593 13,539 51,454 113,709	4,025 46,677 211,992 724,600	42.78 44.69 45.65 47.59	94 1,044 4,644 15,226



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F02 - FENCING

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE IOWA	52-R3				
NET S	SALVAGE PERCENT	-3				
2012	296,669.35	20,155	32,235	273,334	48.57	5,628
2013	,	5,383	8,609	105,167	49.54	2,123
2014	370,645.31	10,865	17,377	364,388	50.52	7,213
2015	938,720.95	11,022	17,629	949,254	43.55	21,797
	7,555,588.89	2,326,473	3,627,286	4,154,971		100,245
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCEN'	г 41.4	1.33





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F03 - FIRE FIGHTING EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1967	597,273.05	501,112	597,273			
1968	39,688.85	32,878	39,689			
1969	101,232.00	82 , 727	101,232			
1970	9,203.91	7,411	9,204			
1971	281,955.00	223,534	281,955			
1973	21,689.45	16,627	21,689			
1975	10,000.43	7,392	10,000			
1976	58,348.31	42,314	58,348			
1977	28,858.00	20,512	28,858			
1978	192,136.50	133,727	192,136			
1979 1980	115,181.72 214,201.74	78,439 142,616	115,182 214,202			
1981	9,401.89	6,113	9,402			
1982	406,897.98	258,055	401,975	4,923	18.29	269
1983	94,674.89	58,509	91,140	3,535	19.10	185
1984	583,752.17	351,185	547,045	36,707	19.92	1,843
1985	185,991.75	108,768	169,429	16,563	20.76	798
1986	152,946.68	86,843	135,276	17,671	21.61	818
1987	96,794.16	53,276	82,989	13,805	22.48	614
1988	217,479.69	115,873	180,497	36,983	23.36	1,583
1989	762,666.44	392,773	611,828	150,838	24.25	6,220
1990	64,327.11	31,971	49,802	14,525	25.15	578
1992	149,080.69	68,637	106,917	42,164	26.98	1,563
1995	24,518.16	9,910	15,437	9,081	29.79	305
1997	180,253.80	65 , 937	102,711	77,543	31.71	2,445
1998	68,518.74	23,749	36,994	31,525	32.67	965
1999	94,038.17	30,769	47,929	46,109	33.64	1,371
2001	216,064.47	62,227	96,932	119,132	35.60	3,346
2002	629,240.42	168,888	263,079	366,161	36.58	10,010
2003	657,749.39	163,648	254,916	402,833	37.56	10,725
2005	55,241.78	11,557	18,002	37,240	39.54	942
2008	238,692.84 1,916,574.45	35,708	55,623	183,070	42.52	4,306
2009 2010	4,415.61	248 , 771 485	387 , 514 755	1,529,060 3,661	43.51 44.51	35 , 143 82
2010	210,565.13	18,909	29 , 455	181,110	45.51	3 , 980
2011	586,212.13	41,035	63,921	522,291	46.50	11,232
2012	558,076.76	27,904	43,466	514,611	47.50	10,834
2013	951,159.22	28,535	44,450	906,709	48.50	18,695
2015	3,121,815.69	33,091	51,546	3,070,269	46.45	66,098
		•	•			,
	13,906,919.17	3,792,415	5,568,798	8,338,121		194,950

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 42.8 1.40



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F04 - FOOTINGS AND FOUNDATIONS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1965	167,301.40	121,171	141,041	39,645	21.41	1,852
1967	1,723,662.79	1,209,732	1,408,104	453 , 452	22.76	19,923
1968	891,091.56	615 , 181	716,059	246,320	23.45	10,504
1970	490,202.40	326,852	380,449	148,970	24.87	5,990
1973	14,582.27	9,190	10,697	5,052	27.07	187
1974	68,284.09	42,183	49,100	24,647	27.82	886
1975	108,441.06	65 , 621	76,382	40,734	28.58	1,425
1976	113,065.81	66 , 973	77 , 955	44,156	29.35	1,504
1977	1,266,265.77	733,645	853 , 949	513 , 618	30.13	17,047
1978	1,106,583.24	626 , 787	729 , 568	465,542	30.91	15,061
1979	334,143.65	184,822	215,129	145,746	31.71	4,596
1980	540,108.76	291 , 571	339 , 383	243,934	32.51	7,503
1981	299,457.16	157,625	183,472	139,942	33.32	4,200
1982	471,876.97	241,956	281,632	227 , 995	34.14	6 , 678
1983	766,192.98	382,424	445,134	382,354	34.96	10,937
1984	7,817.94	3 , 793	4,415	4,028	35.80	113
1985	25,845.64	12,179	14,176	13,737	36.64	375
1986	47,648.73	21,780	25 , 352	26,109	37.49	696
1987	307,062.57	136,017	158,321	173 , 307	38.34	4,520
1988	115,812.71	49,627	57 , 765	67 , 313	39.21	1,717
1989	340,873.18	141,139	164,283	203,860	40.08	5,086
1990	1,312,152.51	524,336	610,317	806,808	40.95	19,702
1991	1,012,711.49	389 , 870	453 , 801	639 , 927	41.83	15,298
1992	626,613.85	231,967	270,005	406,738	42.72	9,521
1993	84,738.76	30,102	35,038	56,480	43.62	1,295
1994	5,426.96	1,847	2,150	3,711	44.52	83
1995	467,057.62	151,871	176,775	327,647	45.43	7,212
1996	148,954.64	46,183	53,756	107,115	46.34	2,312
1998	114,131.79	31,897	37,127	86,135	48.18	1,788
1999	65,572.18	17,312	20,151	50,667	49.11	1,032
2000	30,492.18	7,574	8,816	24,116	50.05	482
2001	33,856.28	7,881	9,173	27,392	50.99	537
2002	2,625,474.99	570,165	663,662	2,171,851	51.93	41,823
2003	1,044,934.04	210,425	244,930	883,599	52.88	16,710
2004	9,714.31	1,803	2,099	8,392	53.83	156
2008	29,323.54	3,571	4,157	27,512	57.67	477
2011	40,587.70	2,974	3,462	40,373	60.59	666



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F04 - FOOTINGS AND FOUNDATIONS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE IOWA	65-R3				
NET S	ALVAGE PERCENT	-8				
2012	22,681.06	1,296	1,509	22,987	61.56	373
2014	680,260.20	16,729	19,472	715,209	63.52	11,260
2015	2,852,234.26	28,032	32,628	3,047,785	54.45	55 , 974
	20,413,239.04	7,716,103	8,981,394	13,064,904		307,501
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	42.5	1.51



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F05 - FREQUENCY CONVERSION

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	OR CURVE IOWA	45-S4				
NET SAI	LVAGE PERCENT	0				
1977	1,607,215.00	1,273,991	1,590,594	16,621	9.33	1,781
1982	12,043.92	8,661	10,813	1,231	12.64	97
2005	47,702.22	11,130	13,896	33,806	34.50	980
2007	28,008.98	5,291	6,606	21,403	36.50	586
2009	758,606.76	109,573	136,804	621,803	38.50	16,151
	2,453,576.88	1,408,646	1,758,713	694,864		19,595

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 35.5 0.80



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F06 - FUEL SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL COST (2) OR CURVE IOWA		ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
NET SAI	LVAGE PERCENT	-11				
1956	11,785.53	9,924	13,082			
1966	73,482.51	54,959	81,566			
1968	828,616.98	601,894	919,765			
1969	757,540.47	541,857	840,870			
1970	800.00	563	888			
1971	87,288.00	60,440	96,890			
1973	3,244.42	2,169	3,601			
1974	290,612.82	190,709	322,580			
1975	44,415.90	28,595	49,302			
1976	212,487.00	134,063	235,861			
1977	16,590.50	10,254	18,415			
1978	128,269.57	77 , 597	142,379			
1980	179,972.65	104,040	191 , 675	8,095	23.96	338
1981	495,612.65	279 , 686	515 , 271	34,859	24.58	1,418
1982	104,546.72	57 , 536	106,000	10,047	25.21	399
1983	17,194.91	9,223	16,992	2,094	25.84	81
1985	205,026.03	104,049	191,691	35,888	27.14	1,322
1986	24,674.35	12,161	22,404	4,985	27.80	179
1987	460,163.55	219,943	405,205	105,577	28.47	3,708
1988	13,928.85	6,450	11,883	3 , 578	29.14	123
1989	282,980.18	126,711	233,442 616,160	80,666	29.83	2,704
1990	773,369.43 370,174.16	334,448	284,329	242 , 280	30.52 31.22	7,938 4,054
1991 1992	661,127.69	154,332 265,361	488,879	126,564 244,973	31.22	7,675
1993	338,825.34	130,656	240,710	135,386	32.63	4,149
1994	371,177.35	137,198	252,762	159,245	33.35	4,775
1995	223,856.04	79,166	145,849	102,631	34.07	3,012
1996	403,902.53	136,293	251,095	197,237	34.80	5,668
1997	89,694.14	28,813	53,083	46,477	35.53	1,308
1998	83,733.99	25,523	47,021	45,924	36.27	1,266
1999	410,246.57	118,215	217,790	237,584	37.02	6,418
2000	244,674.28	66,431	122,387	149,201	37.77	3 , 950
2001	731,207.43	186,353	343,322	468,318	38.52	12,158
2002	436,496.97	103,879	191,378	293,134	39.28	7,463
2003	270,163.44	59 , 676	109,942	189,939	40.05	4,743
2005	780,471.63	145,716	268,455	597 , 869	41.59	14,375
2006	545 , 970.78	92,480	170,378	435,650	42.37	10,282
2007	758 , 499.28	115,345	212,502	629,432	43.15	14,587
2008	348,333.75	46,862	86,335	300,315	43.94	6 , 835
2009	2,308,883.16	270,125	497,656	2,065,204	44.73	46,170
2010	535,159.47	53,106	97,838	496,189	45.53	10,898
2011	1,724,597.41	140,510	258,864	1,655,439	46.33	35,731
2012	588,452.12	37 , 362	68,833	584,349	47.14	12,396



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F06 - FUEL SYSTEMS

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVI	VOR CURVE IOWA	50-R1.5				
NET S	ALVAGE PERCENT	-11				
2013	786,406.17	35 , 789	65,935	806 , 976	47.95	16,830
2014	1,591,994.48	43,471	80,087	1,687,027	48.77	34,591
2015	8,897,247.05	175,792	323,865	9,552,079	27.59	346,215
	28,513,898.25	5,615,725	9,915,217	21,735,210		633,759
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	34.3	2.22



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G01 - GAS TURBINE SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVI	OR CURVE IOWA	45-R3				
NET SA	ALVAGE PERCENT	-2				
1968	995,759.29	835 , 788	1,015,674			
1974	4,704,054.47	3,641,257	4,798,136			
1975	6,031,773.20	4,592,404	6,152,409			
1977	384,018.97	282,286	391,699			
1981	210,609.85	142,595	214,822			
1989	83,605.00	45,519	76,732	8,545	20.98	407
1992	13,070,767.89	6,405,314	10,797,482	2,534,701	23.38	108,413
1997	548,240.40	216,099	364,280	194,925	27.61	7,060
1999	9,087.69	3,220	5,428	3,841	29.37	131
2001	61,837.92	19,385	32,677	30,398	31.17	975
2007	31,100.00	5,816	9,804	21,918	36.75	596
2009	129,634.16	18,600	31,354	100,873	38.67	2,609
2010	1,268,695.89	154,421	260,309	1,033,761	39.63	26,085
2011	222,865.40	22,228	37,470	189 , 853	40.60	4,676
2012	376,344.00	29,259	49,322	334,549	41.57	8,048
2013	7,810,787.00	433,724	731,131	7,235,872	42.55	170,056
2014	2,091,471.80	69 , 695	117,485	2,015,816	43.53	46,309
2015	31,295,107.96	418,165	704,904	31,216,106	37.67	828,673
	69,325,760.89	17,335,775	25,791,118	44,921,158		1,204,038

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.3 1.74



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G02 - GATES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1966	1,986,152.97	1,270,124	581,347	1,563,698	32.63	47,922
1967	1,051,672.86	660,608	302,366	833,441	33.47	24,901
1970	396,402.00	235,197	107,652	320,462	36.05	8,889
1978	267,693.00	132,773	60,771	228,337	43.26	5,278
1979	1,419,329.57	686,146	314,055	1,218,821	44.19	27,581
1980	1,051,492.17	495,127	226,624	908,988	45.12	20,146
1982	4,123,249.27	1,836,373	840,525	3,612,584	47.01	76 , 847
1983	1,976,506.08	854,918	391,304	1,743,323	47.96	36,350
1984	1,120,133.00	470,131	215,184	994,560	48.91	20,334
1985	185,213.00	75 , 335	34,482	165,548	49.87	3,320
1986	139,462.75	54 , 919	25 , 137	125,483	50.83	2,469
1988	1,014,882.86	373 , 213	170,823	925 , 250	52.76	17 , 537
1989	180,329.65	63 , 954	29 , 272	165,484	53.73	3,080
2004	439,111.41	67 , 997	31,123	443,117	68.53	6,466
2012	32,000.00	1,512	692	33 , 868	76.50	443
2013	1,925,734.06	64 , 994	29,748	2,050,045	77.50	26,452
2014	321,648.04	6 , 513	2,981	344 , 399	78.50	4,387
2015	1,417,520.75	10,104	4,625	1,526,298	74.69	20,435
	19,048,533.44	7,359,938	3,368,711	17,203,705		352,837

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 48.8 1.85



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G03 - GENERATORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1966	18,139.94	13,449	12,962	6,629	20.38	325
1967	1,704,660.61	1,246,232	1,201,125	639,908	21.00	30,472
1968	5,528,661.06	3,984,000	3,839,801	2,131,153	21.63	98,528
1970	3,447,277.74	2,409,118	2,321,921	1,401,139	22.94	61,078
1971	1,587,930.00	1,091,506	1,051,999	662,965	23.63	28,056
1977	3,185,771.51	1,953,213	1,882,517	1,558,116	28.10	55,449
1978	271,000.00	162,505	156,623	136,057	28.91	4,706
1979	786,015.97	460,629	443,957	404,940	29.73	13,621
1980	12,037,307.04	6,886,124	6,636,884	6,363,408	30.57	208,159
1982	5,671,758.61	3,082,535	2,970,964	3,154,535	32.29	97,694
1983	177,355.00	93 , 797	90,402	101,141	33.17	3,049
1985	9,224,267.93	4,601,046	4,434,513	5,527,696	34.98	158,024
1988	76,992.57	34,847	33,586	49,566	37.76	1,313
1989	1,201,412.25	524 , 797	505,802	791,723	38.71	20,453
1990	173,110.77	72 , 856	70,219	116,741	39.67	2,943
1992	5,093,864.21	1,980,494	1,908,811	3,592,562	41.60	86,360
1999	165,900.34	45 , 454	43,809	135,363	48.51	2,790
2001	97,014.30	23,373	22,527	82,248	50.50	1,629
2002	36,867.35	8 , 270	7,971	31,846	51.50	618
2003	9,985,526.61	2,073,942	1,998,876	8,785,493	52.50	167,343
2007	28,008.68	3 , 956	3,813	26,436	56.50	468
2008	2,209,404.51	275 , 315	265,350	2,120,807	57.50	36,884
2009	234,765.50	25 , 355	24,437	229,110	58.50	3,916
2010	1,951,761.81	178,371	171,915	1,935,988	59.50	32,538
2011	450,761.35	33,703	32,483	454,339	60.50	7,510
2012	1,757,101.50	102,190	98,491	1,799,179	61.50	29,255
2013	2,362,076.23	98,113	94,562	2,456,480	62.50	39,304
2014	3,252,441.14	81 , 072	78,138	3,434,498	63.50	54 , 087
2015	32,415,720.45	287,074	276,683	34,732,295	60.11	577 , 812
	105,132,874.98	31,833,336	30,681,141	82,862,364		1,824,384

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 45.4 1.74



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G04 - GENERATOR - WINDINGS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1967	6,417,497.74	5,479,568	6,930,898			
2010	4,435,555.02	526,944	1,065,837	3,724,562	44.50	83,698
2012	3,882,451.10	293,513	593 , 682	3,599,365	46.50	77,406
2013	7,746,727.46	418,323	846,132	7,520,334	47.50	158,323
2014	2,132,526.63	69,094	139,755	2,163,373	48.50	44,606
	24,614,757.95	6,787,442	9,576,304	17,007,634		364,033
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	46.7	1.48



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G05 - GLYCOL SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1974	83,699.00	73,785	90,395			
1989	9,270.24	6,217	8,119	1,893	15.16	125
1992	437,684.30	266,484	347,993	124,706	17.45	7,146
	530,653.54	346,486	446,507	126,599		7,271

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.4 1.37



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G06 - GOVENORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA LVAGE PERCENT	45-S4	(1)	(3)	(0)	(, ,
1967	62,233.00	62,873	30,355	40,591	5.12	7,928
1968	77,729.00	77 , 918	37 , 619	50 , 992	5.43	9,391
1970	63,822.00	62 , 878	30,358	42,399	6.11	6,939
1971	77,729.00	75 , 851	36,621	51 , 990	6.48	8,023
1977	143,225.00	129,424	62 , 487	100,790	9.33	10,803
1980	251,003.31	214,862	103,736	182,408	11.21	16,272
1982	2,305,849.08	1,890,301	912,647	1,716,021	12.64	135,761
1985	1,422,117.29	1,079,015	520,954	1,100,260	15.05	73,107
1996	11,438.67	5,651	2,728	10,312	25.50	404
2002	594,634.45	203,365	98,186	579,697	31.50	18,403
2003	623,150.91	197,333	95,273	615,119	32.50	18,927
2006	912,512.80	219,610	106,029	934,236	35.50	26,317
2009	1,295,214.64	213,272	102,969	1,373,576	38.50	35,677
	7,840,659.15	4,432,353	2,139,962	6,798,390		367,952

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 18.5 4.69



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G07 - GROUND WIRE SYSTEM

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	55-R4				
	LVAGE PERCENT					
1066	2 922 04	2,392	2 260	624	11 05	56
1966 1967	2,823.94 181,215.81	151 , 297	2,369 149,826	42,263	11.05 11.68	3,618
1968	94,918.28	78,040	77,281	23,332	12.34	1,891
1970	172,220.16	137,147	135,814	46,739	13.68	3,417
1971	53,073.00	41,549	41,145	15,112	14.38	1,051
1974	221,600.40	164,298	162,701	72,195	16.53	4,368
1975	47,892.56	34,816	34,478	16,288	17.28	943
1976	4,623.64	3,294	3,262	1,639	18.04	91
1977	44,065.95	30,735	30,436	16,274	18.81	865
1978	237,477.65	162,021	160,446	91,280	19.60	4,657
1979	76,455.67	50 , 983	50,487	30,556	20.40	1,498
1980	369,454.09	240,596	238,257	153,364	21.21	7,231
1981	72,125.46	45 , 816	45,371	31,082	22.04	1,410
1982	346,989.02	214,800	212,712	155,096	22.88	6 , 779
1983	352,232.23	212 , 277	210,213	163,153	23.73	6 , 875
1985	455,703.00	259,352	256,831	226,214	25.47	8,882
1986	29,607.81	16,343	16,184	15,200	26.36	577
1987	144,022.64	77,027	76,278	76,386	27.25	2,803
1988	44,015.48	22,768	22,547	24,109	28.16	856
1989	283,026.53	141,385	140,010	159,998	29.08	5,502
1990 1991	468,797.25	225,877	223,681	273,244	30.00	9,108
1991	520,887.35 215,011.55	241,639 95,848	239,290 94,916	312,851 132,996	30.93	10,115 4,173
1993	11,320.04	4,839	4,792	7,207	31.87 32.82	220
1993	5,612.73	2,297	2,275	3,674	33.77	109
1995	415,398.75	162,281	160,703	279,620	34.73	8,051
1996	142,553.83	53,025	52,509	98,598	35.70	2,762
1997	27,653.81	9,769	9 , 674	19,639	36.67	536
1998	27,958.88	9,354	9,263	20,373	37.64	541
2000	109,199.72	32,410	32,095	83,657	39.60	2,113
2001	353,363.79	98,204	97,249	277,317	40.58	6,834
2002	63,869.83	16,544	16,383	51,319	41.56	1,235
2003	408,552.10	98,029	97 , 076	335,989	42.55	7,896
2004	9,440.40	2,085	2,065	7,942	43.54	182
2005	19,932.54	4,022	3,983	17,145	44.53	385
2006	70,228.07	12,817	12,692	61,750	45.53	1,356
2008	1,052,859.55	151 , 780	150,305	965,726	47.52	20,323
2009	174,838.48	21,869	21,656	163,673	48.51	3,374
2010	267,722.45	28,327	28,052	255,734	49.51	5,165
2011	277,276.56	23,995	23,762	270,151	50.51	5,348
2012	741,955.69	50,051	49,564	736,909	51.50	14,309



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G07 - GROUND WIRE SYSTEM

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2013 2014 2015	642,861.66 541,315.19 568,198.08	30,971 15,647 5,842	30,670 15,495 5,785	650,763 558,299 596,505	52.50 53.50 51.05	12,395 10,435 11,685
	10,370,351.62	3,484,458	3,450,583	7,541,990		202,020
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	37.3	1.95



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 102 - INSTRUMENTATION

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	30-L0.5				
NET SA	LVAGE PERCENT	0				
1968	1,270,122.22	798,056	1,270,122			
1969	533,320.62	331,192	533,321			
	•	•	•			
1971	1,562,828.30	947,074	1,562,828			
1979	25,332.75	13,688	25,333			
1987	19,531.16	9,062	19,531			
1988	172 , 549.37	78 , 280	172 , 549			
1989	19,048.01	8,438	19,048			
1990	518,407.16	224,123	518,407			
1992	19,933.21	8,179	19,309	624	17.69	35
1994	104,218.77	40,367	95,298	8,921	18.38	485
1999	356,341.34	116,167	274,244	82 , 097	20.22	4,060
2002	18,448.05	5,258	12,413	6,035	21.45	281
2005	47,283.46	11,222	26,493	20,790	22.88	909
2006	497,358.78	109,419	258,314	239,045	23.40	10,216
2009	418,330.78	67,489	159,326	259,005	25.16	10,294
2012	45,371.19	4,250	10,033	35,338	27.19	1,300
2014	338,972.40	14,464	34,147	304,826	28.72	10,614
2011	330,372.40	11,104	J= , 14/	304,020	20.12	10,014
	5,967,397.57	2,786,728	5,010,716	956,682		38,194

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.0 0.64



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 103 - INSULATORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1967	88,700.61	69,440	82,281	6,420	7.60	845
1968	114,208.17	88,560	104,936	9,272	7.86	1,180
1969	50,398.83	38 , 706	45,863	4,536	8.12	559
1970	96,375.98	73,301	86,855	9,521	8.38	1,136
1974	12,479.49	9,156	10,849	1,630	9.32	175
1975	514.00	374	443	71	9.53	7
1976	12,341.27	8,910	10,558	1,783	9.73	183
1977	50,283.33	36,032	42,695	7,588	9.92	765
1978	35,427.46 14,781.95	25,214	29 , 876	5,551	10.09	550
1979 1980	11,311.61	10,449 7,941	12,381 9,409	2,401 1,903	10.26 10.43	234 182
1981	69,020.58	48,137	57,038	11,983	10.43	1,132
1982	426,433.41	295,216	349,806	76,627	10.77	7,115
1983	630,479.97	433,051	513,129	117,351	10.96	10,707
1984	70,036.88	47,705	56,526	13,511	11.16	1,211
1985	999,174.39	673,733	798,317	200,857	11.40	17,619
1986	7,562.44	5,043	5,976	1,586	11.66	136
1987	533,947.06	351 , 492	416,488	117,459	11.96	9,821
1988	575,583.15	373,145	442,145	133,438	12.31	10,840
1989	600,838.56	382,818	453 , 607	147,232	12.70	11,593
1990	3,212,707.83	2,006,561	2,377,605	835,103	13.14	63 , 554
1991	1,700,167.83	1,038,071	1,230,027	470,141	13.63	34,493
1992	767,820.50	456,961	541,460	226,360	14.17	15,975
1993	1,189,492.76	687,527	814,661	374,832	14.77	25,378
1994	969,319.30	542,538	642,862	326,457	15.41	21,185
1995	1,758,689.02	949,692	1,125,305	633,384	16.10	39,341
1996 1997	1,786,367.83 889,877.07	926,875 442,144	1,098,269 523,903	688,099 365,974	16.84 17.61	40,861 20,782
1998	720,448.60	341,284	404,393	316,056	18.42	17,158
1999	1,020,689.48	459,310	544,244	476,445	19.25	24,750
2000	3,892,028.71	1,655,786	1,961,967	1,930,062	20.11	95 , 975
2001	681,643.97	273,046	323,536	358,108	20.98	17,069
2002	1,987,065.50	744,871	882,609	1,104,456	21.88	50,478
2003	1,841,341.62	642 , 370	761,154	1,080,188	22.79	47,397
2004	2,775,970.27	895,445	1,061,027	1,714,943	23.71	72,330
2005	333,171.22	98 , 522	116,740	216,431	24.65	8,780
2006	1,324,258.63	355,656	421,422	902,837	25.60	35 , 267
2007	3,136,964.12	756 , 448	896 , 327	2,240,637	26.56	84,361
2008	808,745.61	172,611	204,530	604,216	27.53	21,948
2009	2,123,592.33	393,162	465,864	1,657,728	28.52	58,125
2010	323,890.26	50,805	60,200	263,690	29.51	8,936
2011	490,774.50	63,099	74,767	416,008	30.50	13,640
2012	994,068.55	99,407	117,789	876,280	31.50	27,818

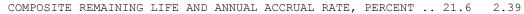


Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 103 - INSULATORS

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWALVAGE PERCENT					
2013 2014 2015	105,635.07 2,685,733.84 67,958.16	7,546 115,111 1,101	8,941 136,397 1,304	96,694 2,549,337 66,654	32.50 33.50 30.46	2,975 76,100 2,188
	41,988,321.72	17,154,372	20,326,481	21,661,840		1,002,854





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 104 - INTAKE STRUCTURES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1966	3,784,392.00	1,805,782	562,054	3,525,089	61.40	57 , 412
1967	1,784,000.00	834 , 790	259,831	1,666,889	62.34	26 , 739
1979	1,454,249.47	516,583	160,788	1,409,801	73.82	19,098
1982	5,039,574.77	1,645,667	512,218	4,930,523	76.74	64,250
1983	16,004.48	5,072	1,579	15,706	77.72	202
1984	3,401,783.55	1,045,416	325,388	3,348,538	78.70	42,548
1989	6,768.76	1,753	546	6,764	83.62	81
1994	5,240.80	1,103	343	5,317	88.57	60
1997	10,571.59	1,915	596	10,821	91.55	118
2002	24,045.32	3,180	990	24,979	96.53	259
2003	3,909,814.02	479,054	149,107	4,073,492	97.52	41,771
	19,436,444.76	6,340,315	1,973,440	19,017,921		252 , 538

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 75.3 1.30



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 105 - INVERTERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA /AGE PERCENT					
1968	182,290.86	191,677	183,692	13,182	0.66	13,182
1979	114,154.89	106,126	101,704	21,583	3.48	6,202
1996	17,604.84	11,667	11,181	7,832	9.66	811
2000	11,968.11	6,763	6,481	6,445	11.92	541
2001	110,955.28	59 , 676	57 , 190	62,642	12.55	4,991
2005	2,340.00	970	930	1,597	15.40	104
2006	16,272.78	6,186	5 , 928	11,647	16.20	719
2008	5,505.60	1,696	1,625	4,321	17.87	242
2012	4,964.72	740	709	4,653	21.55	216
2014	5,643.32	366	351	5,744	23.50	244
2015	49,804.41	1,296	1,242	52,546	20.25	2,595
	521,504.81	387,163	371,033	192,192		29,847

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.4 5.72



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L03 - LAND IMPROVEMENTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1965	5,754.24	3,441	5,754			
1967	174,343.48	100,793	174,343			
1968	82 , 098.79	46,643	82 , 099			
1970	313,594.10	171,765	313,594			
1971	996,777.00	535 , 598	979 , 075	17,702	34.70	510
1972	286,219.42	150,780	275,626	10,593	35.49	298
1974	262,393.06	132,666	242,514	19,879	37.08	536
1975	59,952.49	29 , 672	54,241	5,711	37.88	151
1976	61,289.90	29,664	54,226	7,064	38.70	183
1977	391,514.65	185,214	338 , 572	52,943	39.52	1,340
1978	777 , 770.02	359 , 431	657 , 041	120,729	40.34	2,993
1979	37 , 126.06	16,741	30,603	6,523	41.18	158
1980	1,053,203.62	463,125	846 , 594	206,610	42.02	4,917
1981	271,954.44	116,541	213,037	58,917	42.86	1,375
1982	516,244.80	215,310	393 , 588	122,657	43.72	2,806
1983	260,255.97	105,594	193,026	67,230	44.57	1,508
1984	96,772.74	38,141	69,722	27,051	45.44	595
1985	252,388.80	96,546	176,486	75,903	46.31	1,639
1986	85,530.68	31,726	57,995	27,536	47.18	584
1987	569,158.86	204,368	373,586	195,573	48.07	4,069
1988	188,757.84	65,561	119,846	68,912	48.95	1,408
1989	2,213,223.50	742,160	1,356,671	856,552	49.85	17,183
1990	765,815.64	247,718	452,829	312,987	50.74	6,168
1991	440,749.89	137,219	250 , 837	189,913	51.65	3,677
1992	569,666.82	170,444	311,572	258,095	52.56	4,910
1993	226,860.93	65,125	119,049	107,812	53.47	2,016
1994	187,262.38	51,460	94,069	93,193	54.39	1,713
1995	344,790.90	90,518	165,467	179,324	55.31	3,242
1996	255,875.08	64,002	116,996	138,879	56.24	2,469
1997	24,438.72 321,505.42	5,810	10,621	13,818	57.17	242
1998 1999	117,692.64	72,403 25,030	132,353 45,755	189,152 71,938	58.11 59.05	3,255 1,218
2000	73,029.87	14,615	26,716	46,314		772
2000	172,683.92	30,185	55,178	117,506	59.99 61.89	1,899
2002	228,663.43	37,073	67 , 770	160,893	62.84	2,560
2003	102,617.32	15,324	28,012	74,605	63.80	1,169
2004	87,428.65	11,937	21,821	65,608	64.76	1,013
2005	110,490.47	13,657	24,965	85,525	65.73	1,301
2008	64,541.12	6,317	11,548	52,993	67.66	783
2009	268,364.85	22,792	41,664	226,701	68.63	3,303
2010	13,384.00	962	1,759	11,625	69.61	167
2010	64,779.67	3,817	6,977	57,803	70.58	819
2011	04, 119.01	3,017	0,311	57,003	10.50	019

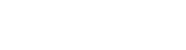


Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L03 - LAND IMPROVEMENTS

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVI	VOR CURVE IOWA	75-R3				
NET S.	ALVAGE PERCENT	0				
2012	49,683.60	2,279	4,166	45,518	71.56	636
2014	369,783.31	7,296	13,337	356,446	73.52	4,848
2015	380,361.34	3,005	5,493	374,868	62.79	5,970
	14,196,794.43	4,940,468	9,017,193	5,179,601		96,403
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	r 53.7	0.68





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT LO4 - LIGHTING SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1967	45,238.49	37,955	45,238			
1968	2,726.81	2,259	2,727			
1970	42,486.22	34,210	42,486			
1971	28,226.00	22,378	28,226			
1974	16,618.25	12,514	16,618			
1975	39,752.16	29 , 385	39 , 752			
1976	4,407.08	3,196	4,407			
1977	29,959.51	21,295	29 , 960			
1978	67 , 894.94	47,255	67 , 035	860	15.20	57
1979	83,571.46	56,912	80 , 735	2,836	15.95	178
1980	25,900.92	17,245	24,464	1,437	16.71	86
1981	9,888.87	6,430	9,122	767	17.49	44
1982	33,845.59	21,465	30,450	3,396	18.29	186
1983	10,991.30	6 , 793	9,636	1,355	19.10	71
1985	3,562.54	2,083	2,955	608	20.76	29
1986	5,857.33	3,326	4,718	1,139	21.61	53
1987	39,322.35	21,643	30,702	8,620	22.48	383
1988	9,837.24	5,241	7,435	2,402	23.36	103
1989	18,023.88	9,282	13,167	4,857	24.25	200
1990	35,606.52	17 , 696	25,104	10,503	25.15	418
1991	18,831.10	9,016	12,790	6,041	26.06	232
1992	2,735.87	1,260	1,787	949	26.98	35
2012	93,027.28	6,512	9,238	83 , 789	46.50	1,802
2013	257,991.58	12,900	18,300	239,692	47.50	5,046
	926,303.29	408,251	557,052	369,251		8,923

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.4 0.96



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L05 - LIGHTNING ARRESTORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1967	44,408.00	31,476	44,408			
1968	50,362.17	35,149	50,362			
1970	61,016.99	41,229	61,017			
1977	65.00	38	62	3	23.72	
1978	19,225.18	11,114	18,190	1,035	24.47	42
1980	290.19	160	262	28	25.99	1
1981	2,066.49	1,113	1,822	244	26.77	9
1982	25,686.00	13,485	22,070	3,616	27.55	131
1986	5,702.63	2,675	4,378	1,325	30.79	43
1987	293.76	134	219	75	31.62	2
1988	811.34	357	584	227	32.45	7
1989	339.63	145	237	103	33.30	3
1992	0.01					
1994	2,591.45	909	1,488	1,103	37.65	29
1995	0.03					
1996	2,464.63	789	1,291	1,174	39.44	30
2000	5,055,707.52	1,298,811	2,125,676	2,930,032	43.10	67 , 982
2004	11,440.48	2,199	3 , 599	7,841	46.85	167
2005	79 , 719.06	14,019	22,944	56 , 775	47.80	1,188
2006	90,109.92	14,355	23,494	66,616	48.76	1,366
2007	13,132.00	1,875	3,069	10,063	49.72	202
2008	52 , 590.01	6 , 637	10,862	41,728	50.68	823
2009	80,001.12	8 , 759	14,335	65,666	51.65	1,271
2010	22,899.74	2,124	3 , 476	19,424	52.62	369
2011	57 , 338.86	4,359	7,134	50,205	53.59	937
2012	86,164.40	5,096	8,340	77,824	54.57	1,426
2013	17 , 692.67	750	1,228	16,465	55.54	296
2014	90,140.65	2,300	3,764	86,377	56.52	1,528
2015	321,349.88	3 , 278	5,365	315,985	48.52	6,512
	6,193,609.81	1,503,335	2,439,676	3,753,934		84,364

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 44.5 1.36



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L06 - LINE COUPLING EQUIPMENT

YEAR (1)	ORIGINAL (COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA 2 ALVAGE PERCENT 0	4-R5				
1984	11,225.56	11,071	11,226			
	11,225.56	11,071	11,226			
	COMPOSITE REMAININ	G LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	0.0	0.00



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M01 - MAIN BREAKERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1968	87,097.27	59,172	94,065			
1970	6,264.96	4,110	6,766			
1980	14,200.00	7,533	12,753	2,583	21.37	121
1983	14,000.00	6,862	11,617	3,503	22.94	153
1986	14,774.50	6,626	11,217	4,739	24.56	193
1991	4,678.14	1,762	2,983	2,069	27.35	76
1996	96,202.47	29 , 117	49,292	54,607	30.23	1,806
1997	4,516.36	1,298	2,197	2,681	30.82	87
1998	23,610.58	6,429	10,884	14,615	31.41	465
2001	47,957.90	10,864	18,391	33,404	33.19	1,006
2003	92,548.49	18,134	30,699	69,253	34.38	2,014
2004	27,895.94	5,036	8,525	21,603	34.98	618
2006	119,193.09	17,838	30,198	98,531	36.18	2,723
	552,939.70	174,781	289,587	307,588		9,262

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.2 1.68



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M02 - MARINE TERMINAL

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA					
NET S	SALVAGE PERCENT	-6				
1969	2,596,299.63	1,843,479	2,752,078			
1971	69,000.00	47,237	73,140			
1980	12,849.36	7,213	13,620			
1983	11,371.66	5 , 882	12,054			
1984	286,814.46	144,061	304,023			
2013	857,536.19	34,960	74,628	834,360	62.50	13,350
	3,833,871.30	2,082,832	3,229,543	834,360		13,350
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAI	L RATE, PERCEN	r 62.5	0.35



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M03 - METALCLAD SWITCHGEAR CUB/EQU 4kv/600

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1968	431,573.00	401,249	457,467			
1980	780,388.00	599,083	814,153	13,058	12.41	1,052
1987	56,409.27	36,129	49,099	10,695	17.81	601
1994	567,211.45	281,118	382,040	219,204	23.96	9,149
1995	14,288.77	6,769	9,199	5,947	24.89	239
2015	383,774.09	4,800	6,523	400,277	41.70	9,599
	2,233,644.58	1,329,148	1,718,481	649,182		20,640

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.5 0.92



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M04 - METER TEST SWITCHES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA /AGE PERCENT					
1981	9,277.57	8,294	9,278			
1982	1,993.00	1,753	1,978	15	4.21	4
1984	897.55	760	858	40	5.36	7
1987	11,856.77	9,326	10,525	1,332	7.47	178
1988	3,304.10	2,525	2,850	454	8.25	55
1991	12,722.44	8,789	9,918	2,804	10.82	259
1993	1,215.96	776	876	340	12.65	27
1994	11,342.69	6,935	7,826	3,517	13.60	259
1997	5,690.51	3,005	3,391	2,299	16.52	139
	58,300.59	42,163	47,500	10,800		928

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.6 1.59



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M05 - METERING TANKS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	37-R3				
NET SAL	VAGE PERCENT	0				
1966	2,500.00	2,281	2,500			
1968	7,113.61	6,391	7,114			
1970	3,981.00	3,516	3,981			
1972	7,362.00	6,381	7,362			
1978	5,434.41	4,372	5,390	44	7.23	6
1979	8,161.00	6,463	7,968	193	7.70	25
1981	131,092.38	100,197	123,537	7,555	8.72	866
1983	5,347.32	3,925	4,839	508	9.84	52
1984	11,116.01	7,983	9,843	1,273	10.43	122
1988	13,825.07	8 , 956	11,042	2,783	13.03	214
1989	11,884.85	7,475	9,216	2,669	13.73	194
1992	17,501.52	9,966	12,288	5,214	15.93	327
1993	36,142.64	19,839	24,460	11,683	16.69	700
1994	21,417.03	11,299	13,931	7,486	17.48	428
1996	14,331.25	6,941	8,558	5,773	19.08	303
1997	1,246.12	576	710	536	19.90	27
2011	66,568.46	7 , 898	9,738	56,830	32.61	1,743
2012	59,915.40	5,554	6,848	53,067	33.57	1,581
2013	95,443.06	6,320	7,792	87,651	34.55	2,537
2014	140,033.36	5,564	6 , 860	133,174	35.53	3,748
	660,416.49	231,897	283,977	376,440		12,873

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.2 1.95



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M06 - METERS - DIGITAL

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	20-L3				
NET SAI	LVAGE PERCENT	0				
1990	22,825.78	17,222	17,997	4,829	4.91	984
1991	374,351.59	277,956	290,461	83,891	5.15	16,290
1992	134,335.27	98,266	102,687	31,648	5.37	5,893
1993	3,358.12	2,423	2,532	826	5.57	148
1994	86,708.38	61 , 780	64 , 559	22,149	5.75	3,852
1995	19,048.53	13,410	14,013	5 , 036	5.92	851
1996	51,918.38	36 , 109	37 , 734	14,184	6.09	2,329
1997	116,144.02	79 , 733	83 , 320	32,824	6.27	5,235
1998	149,674.43	101,105	105,654	44,020	6.49	6,783
1999	89,708.70	59 , 342	62,012	27 , 697	6.77	4,091
2000	22,935.00	14,782	15,447	7,488	7.11	1,053
2001	149,440.00	93,101	97 , 290	52 , 150	7.54	6,916
2002	193,794.17	115,695	120,900	72 , 894	8.06	9,044
2003	64,795.71	36,707	38,358	26,438	8.67	3,049
2004	202,181.96	107,561	112,400	89,782	9.36	9,592
2005	100,278.86	49,538	51,767	48,512	10.12	4,794
2006	59,047.43	26,748	27,951	31,096	10.94	2,842
2007	88,321.99	36,212	37,841	50,481	11.80	4,278
2008	72,758.52	26,593	27,789	44,970	12.69	3,544
2009	1,436,699.35	459,025	479,677	957 , 022	13.61	70,318
2010	394,115.26	107,199	112,022	282,093	14.56	19,375
2011	308,158.46	69,027	72,133	236,025	15.52	15,208
2012	521,108.69	90,933	95,024	426,085	16.51	25,808
2013	711,833.66	88,979	92,982	618,852	17.50	35,363
2014	89,571.49	6 , 718	7,020	82,551	18.50	4,462
2015	411,554.67	11,647	12,171	399,384	17.17	23,261
2010	111,001.07	11,041	12/1/1	333,304	± / • ± /	23,201
	5,874,668.42	2,087,811	2,181,741	3,692,927		285,363

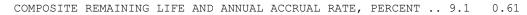
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.9 4.86



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M07 - METERS - ANALOGUE

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	CURVE IOWA AGE PERCENT					
1981	138,968.27	97,889	138,968			
1983	11,142.31	7,626	11,097	45	7.89	6
1984	56,507.73	38,109	55,455	1,053	8.14	129
1987	145,955.65	94,054	136,866	9,090	8.89	1,022
1988	197,071.51	125,101	182,045	15 , 027	9.13	1,646
1989	148,738.52	92 , 991	135,318	13,420	9.37	1,432
	698,383.99	455,770	659,749	38,635		4,235





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M08 - METERS - OTHER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA /AGE PERCENT					
1987	450.00	385	411	39	3.18	12
1988	11,760.00	9,942	10,612	1,148	3.40	338
1993	8,812.52	7,110	7 , 589	1,224	4.25	288
1994	13,132.41	10,494	11,201	1,931	4.42	437
1995	22,190.79	17,501	18,680	3,511	4.65	755
1996	16,112.88	12,466	13,306	2,807	4.98	564
1997	39,570.21	29,822	31,831	7,739	5.42	1,428
1998	833.04	607	648	185	5.97	31
2000	1,765.00	1,175	1,254	511	7.36	69
2003	15,820.86	8,773	9,364	6,457	9.80	659
2004	3,754.50	1,932	2,062	1,692	10.68	158
2005	27,658.30	13,075	13,956	13,702	11.60	1,181
2006	21,750.00	9,343	9,972	11,778	12.55	938
2012	79,242.94	12,607	13,456	65,787	18.50	3,556
	262,853.45	135,232	144,342	118,512		10,414

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.4 3.96



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M10 - MISCELLANEOUS UNITS OF PROPERTY

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1970	6,185.00	6,185	6,185			
1985	315,254.84	259,943	315,255			
1989	795,281.80	607,667	795,282			
1990	825,974.72	616,854	825,975			
1991	50,436.68	36 , 750	50,437			
2004	15,584.21	6,212	11,257	4,327	13.23	327
2007	17,122.85	5,160	9,351	7,772	15.37	506
2010	20,438,077.12	4,069,017	7,373,837	13,064,240	17.62	741,444
2011	1,339,679.15	219,828	398 , 370	941,309	18.39	51,186
2013	1,581,834.50	145,956	264,501	1,317,334	19.97	65 , 966
2014	110,378.30	6 , 171	11,183	99,195	20.77	4,776
2015	320,146.61	11,909	21,581	298,566	12.96	23,038
	25,815,955.78	5,991,652	10,083,214	15,732,742		887,243

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.7 3.44



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M11 - MOBILE - A.T.V.'S AND SNOWMOBILES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	R CURVE IOWA	6-L3				
NET SAL	VAGE PERCENT	+20				
2007	46,853.00	29,611	37,482			
2008	72,292.00	43,279	57,834			
2009	156,935.00	89 , 557	125,548			
2010	91,663.35	50,232	73,331			
2011	156,948.00	79,730	123,955	1,603	2.19	732
2012	83,583.00	35,996	55,962	10,904	2.77	3,936
2013	803,692.66	259 , 323	403,166	239 , 788	3.58	66,980
2014	279,015.41	55 , 430	86,176	137,036	4.51	30,385
2015	215,756.83	16,328	25,385	147,220	4.78	30,799
	1,906,739.25	659,486	988,839	536,552		132,832

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.0 6.97



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M12 - MOBILE - AIR COMPRESSOR ATTACHMENT AND BOAT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	CURVE IOWA					
1979	87,567.04	44,064	70,054			
1980	0.01	1 ((0	0 744			
1981	3,430.57	1,669	2,744			
1986	15,409.87	6 , 799	12,328			
1988	32,750.14	13,821	26,200			
1989	25,669.08	10,576	20,535			
1993	13,484.38	4,978	10,788			
1994	4,062.24	1,454	3 , 250			
1996	11,982.66	4,007	9,586			
1997	12,900.00	4,159	10,320			
1998	2,375.00	736	1,900			
1999	31,217.74	9,278	24,974			
2000	17,995.00	5,118	14,396			
2006	12,599.00	2,500	10,079			
2009	77,874.00	11,650	59,636	2,663	16.26	164
2010	22,689.00	2,986	15,285	2,866	16.71	172
2011	24,400.00	2,743	14,041	5,479	17.19	319
2012	35,640.00	3,265	16,713	11,799	17.71	666
	432,045.73	129,803	322,829	22,807		1,321

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.3 0.31



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M13 - MOBILE - ARGO'S

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	CURVE IOWA					
2010	117,000.00	56,992	93,600			
2011	22,239.69	8,896	17 , 792			
2012	59,494.00	18,509	47,595			
2013	88,553.28	19,679	111,081	40,239-		
	287,286.97	104,076	270,068	40,239-		

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.0 0.00



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M14 - MOBILE - FLEX/FORK/LOAD/GRADE/MUSK/TRAILER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	18-L3				
NET SA	LVAGE PERCENT	+20				
1981	42,744.83	31,042	34,196			
1982	10,643.83	7,630	8,515			
1984	13,077.69	9,120	10,462			
1988	134,706.88 86,197.29	88,307	107,766			
1989 1990	43,680.00	55,511 27,625	68,958 34,944			
1990	145,304.06	88,603	116,243			
1992	36,994.60	22,147	29,596			
1995	30,432.96	17,624	24,346			
1998	371,250.63	206,415	297,001			
1999	283,809.60	155,401	227,048			
2000	222,125.00	119,356	177,700			
2001	282,760.01	148,293	225,349	859	6.20	139
2002	179,687.00	91,200	138,590	5 , 160	6.58	784
2003	15,997.87	7,779	11,821	977	7.06	138
2004	136,636.50	62,914	95,606	13,703	7.64	1,794
2005	328,255.24	141,368	214,826	47,778	8.31	5,749
2006	622,272.69	246,973	375,306	122,512	9.07	13,507
2007	396,251.24	142,828	217,045	99,956	9.89	10,107
2008	1,164,855.27	375,344	570,381	361,503	10.75	33,628
2009	851,566.55	240,333	365,216	316,037	11.65	27,128
2010	352,166.32	84,833	128,914	152,819	12.58	12,148
2011	1,777,190.38	353 , 064	536,524	885 , 228	13.53	65 , 427
2012	819,248.40	127,075	193,106	462,293	14.51	31,860
2013	363,231.41	40,359	61,330	229,255	15.50	14,791
2014	1,486,091.26	99,069	150,548	1,038,325	16.50	62 , 929
2015	384,134.71	9,649	14,663	292,645	15.40	19,003
	10,581,312.22	2,999,862	4,436,000	4,029,050		299,132



COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 13.5 2.83



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M16 - MULTIPLEX EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1980	72,014.91	71,455	72,015			
1999	37,192.70	25,229	37,193			
2000	108,463.34	70,862	108,463			
2001	736,804.61	461,733	718,722	18,083	6.72	2,691
2002	353 , 971.09	211,597	329 , 367	24,604	7.24	3,398
2003	609,578.15	345,765	538,209	71,369	7.79	9,162
2004	4,819.61	2,578	4,013	807	8.37	96
2005	62,819.85	31,410	48,892	13,928	9.00	1,548
2008	138,997.61	52 , 973	82,456	56 , 542	11.14	5,076
2010	495,304.03	143,638	223,584	271,720	12.78	21,261
2011	12,028.86	2,900	4,514	7 , 515	13.66	550
2012	180,222.11	34,242	53,300	126,922	14.58	8,705
	2,812,216.87	1,454,382	2,220,728	591 , 489		52,487

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 11.3 1.87



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 001 - OFFICE EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
` ,	, ,	, ,	,	(- /	(- /	,
	OR CURVE 20-S LVAGE PERCENT	~				
NEI SA	LVAGE PERCENI	0				
1996	16,183.45	15 , 779	16,183			
1997	66,014.61	61,064	66,015			
1998	3,480.00	3,045	3,480			
1999	54,164.38	44,686	54,164			
2000	48,627.79	37 , 687	48,628			
2001	24,963.81	18,099	24,964			
2002	21,822.24	14,730	21,790	32	6.50	5
2003	37 , 899.07	23,687	35 , 040	2,859	7.50	381
2004	32,921.94	18,930	28,003	4,919	8.50	579
2005	9,608.92	5,045	7,463	2,146	9.50	226
2006	77,147.66	36,645	54,209	22 , 939	10.50	2,185
2007	23,654.54	10,053	14,872	8,783	11.50	764
2008	134,350.49	50,381	74,529	59 , 821	12.50	4,786
2009	48,737.86	15,840	23,432	25,306	13.50	1,875
2010	280,792.29	77,218	114,229	166,563	14.50	11,487
2011	117,705.69	26,484	39 , 178	78 , 528	15.50	5,066
2012	65 , 898.39	11,532	17,060	48,838	16.50	2,960
2013	47,195.96	5 , 899	8 , 726	38 , 470	17.50	2,198
2014	169,148.66	12,686	18,767	150,382	18.50	8,129
2015	6,121.97	153	226	5,896	19.50	302
	1,286,439.72	489,643	670 , 958	615,481		40,943

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.0 3.18



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 002 - OFFICE FURNITURE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
		ACCRUED (3)	-			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	OR CURVE 20-S					
NET SA	LVAGE PERCENT	0				
1996	29,219.24	28,489	29 , 219			
1997	36,590.65	33,846	36,591			
1998	79,197.16	69,298	79,197			
1999	80,433.08	66,357	80,433			
2000	211,310.15	163,765	204,954	6,356	4.50	1,412
2001	22,901.71	16,604	20,780	2,122	5.50	386
2002	29,959.88	20,223	25,309	4,651	6.50	716
2003	16,175.45	10,110	12,653	3 , 522	7.50	470
2004	7,439.05	4,277	5,353	2,086	8.50	245
2005	85,208.45	44,734	55 , 985	29,223	9.50	3,076
2006	119,900.15	56 , 953	71,278	48,622	10.50	4,631
2007	59,862.92	25,442	31,841	28,022	11.50	2,437
2008	85,940.49	32,228	40,334	45,606	12.50	3,648
2009	130,101.60	42,283	52,918	77,184	13.50	5,717
2010	194,647.39	53 , 528	66,991	127,656	14.50	8,804
2011	84,517.24	19,016	23,799	60,718	15.50	3 , 917
2012	90,136.68	15 , 774	19,741	70,396	16.50	4,266
2013	24,491.46	3,061	3,831	20,660	17.50	1,181
2014	36,046.62	2,703	3,383	32,664	18.50	1,766
2015	53,910.54	1,348	1,687	52,224	19.50	2,678
	1,477,989.91	710,039	866 , 277	611,713		45,350

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 13.5 3.07



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P01 - P.C.B. STORAGE CONTAINER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1) SURVIVO	(2) R CURVE IOWA	(3) 30-R4	(4)	(5)	(6)	(7)
NET SALV	JAGE PERCENT	0				
1991	42,479.84	31,605	41,427	1,052	7.68	137
	42 , 479.84	31,605	41,427	1,052		137
CO	MPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	7.7	0.32

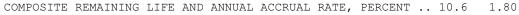


NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P02 - PABX - PRIVATE AUTO BRANCH EXCHANGE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	IVOR CURVE IOWA SALVAGE PERCENT					
1998 2000		29,356 184,811	37,492 258,657			
2003		50,388	78 , 648	5,683	8.05	706
2006	800,527.97	372,246	581,020	219,508	10.70	20,515
	1,181,008.55	636,801	955 , 817	225,191		21,221
	COMPOCIME DEMAIN	TNC TIPE AND	ANINITAT ACCDITAT	DAME DEDCEM	п 10	6 1 00





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P03 - PENSTOCK

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1966	13,597,173.00	9,744,490	5,227,231	9,457,716	23.55	401,602
1967	6,972,000.00	4,912,641	2,635,285	4,894,475	24.33	201,170
1970	351,355.39	234,509	125,798	253,666	26.74	9,486
1979	11,030,667.78	6,045,075	3,242,756	8,670,365	34.48	251,461
1982	12,972,402.67	6,560,834	3,519,425	10,490,770	37.22	281,858
1985	4,690,571.00	2,170,348	1,164,239	3,901,578	40.01	97 , 515
1989	414,557.06	167,511	89 , 858	357 , 864	43.81	8,169
2003	6,732,225.16	1,294,203	694,248	6,576,555	57.54	114,295
2006	2,147,468.60	314,098	168,492	2,150,774	60.52	35,538
	58,908,420.66	31,443,709	16,867,332	46,753,763		1,401,094

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 33.4 2.38



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P04 - POLE CRIBS AND POLE HARDWARE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVI	VOR CURVE IOWA	35-s2.5				
NET S	ALVAGE PERCENT	-20				
1968	1,845.17	1,943	1,842	372	4.29	87
1970	77,086.69	79,950	75,808	16,696	4.75	3,515
1978	11,761.12	11,291	10,706	3,407	7.00	487
1979	1,413.56	1,341	1,272	424	7.34	58
1981	3,061,318.96	2,824,471	2,678,127	995,456	8.09	123,048
1982	1,428,282.57	1,298,669	1,231,381	482,558	8.48	56,905
1983	727,698.47	651,182	617,442	255 , 796	8.90	28,741
1984	896,385.01	788,611	747,751	327,911	9.34	35,108
1985	736,521.61	636,098	603,140	280,686	9.81	28,612
1986 1987	1,193,610.51 2,151,281.92	1,010,811 1,784,204	958,438 1,691,759	473,895 889,779	10.30 10.81	46,009 82,311
1988	1,154,830.63	936,397	887,880	497,917	11.35	43,869
1989	1,696,041.19	1,342,105	1,272,567	762,682	11.92	63,983
1990	1,761,660.55	1,358,388	1,288,006	825 , 987	12.51	66,026
1991	1,767,156.41	1,325,070	1,256,414	864,174	13.13	65,817
1992	1,095,693.13	797,169	755,865	558,967	13.78	40,564
1993	1,292,032.25	909,890	862,746	687 , 693	14.46	47,558
1994	1,579,697.47	1,074,011	1,018,363	877,274	15.17	57,830
1995	1,861,510.71	1,218,389	1,155,261	1,078,552	15.91	67,791
1996	2,633,416.42	1,654,976	1,569,227	1,590,873	16.67	95,433
1997	4,885,285.29	2,937,854	2,785,635	3,076,707	17.46	176,215
1998	1,878,680.76	1,076,958	1,021,158	1,233,259	18.28	67,465
1999	1,372,514.80	747,268	708 , 550	938,468	19.12	49,083
2000	2,050,387.44	1,055,195	1,000,522	1,459,943	19.99	73,034
2001	2,399,127.49	1,161,456	1,101,278	1,777,675	20.88	85,138
2002	4,734,632.00	2,145,981	2,034,792	3,646,766	21.78	167,436
2003	3,265,505.84	1,375,980	1,304,687	2,613,920	22.71	115,100
2004	3,602,858.68	1,402,045	1,329,401	2,994,029	23.65	126,597
2005	3,462,816.60	1,234,730	1,170,755	2,984,625	24.60	121,326
2006	4,537,133.14	1,466,928	1,390,922	4,053,638	25.57	158,531
2007	3,973,884.13	1,152,633	1,092,912	3,675,749	26.54	138,498
2008	5,702,540.68	1,460,512	1,384,839	5,458,210	27.53	198,264
2009	5,642,349.74	1,255,513	1,190,461	5,580,359	28.51	195,733
2010	5,042,753.64	949,208	900,027	5,151,277	29.51	174,560
2011	7,085,136.89	1,093,123	1,036,485	7,465,679	30.50	244,776
2012	7,655,567.91	918,668	871 , 069	8,315,612	31.50	263,988
2013	15,939,566.56	1,366,276	1,295,485	17,831,995	32.50	548,677
2014	1,880,919.80	96 , 739	91,727	2,165,377	33.50	64,638
2015	8,130,250.53	154,150	146,163	9,610,137	31.24	307,623
	118,371,156.27	42,756,183	40,540,863	101,504,524		4,230,434

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 24.0 3.57



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P05 - POLE STRUCTURES - WOOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL COST (2) OR CURVE IOWA		ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
NET SA	LVAGE PERCENT	-20				
1967	1,368,472.29	1,178,616	1,053,667	588,500	16.09	36,576
1968	686,797.97	582,696	520,922	303,236	16.70	18,158
1969	420,665.37	351,320	314,075	190,723	17.33	11,005
1970	2,780,493.34	2,284,698	2,042,489	1,294,103	17.97	72,015
1971	20,688.28	16,712	14,940	9,886	18.63	531
1974	2,809,521.88	2,148,846	1,921,039	1,450,387	20.67	70,169
1975	4,543.00	3,407	3,046	2,406	21.38	113
1976	111,728.97	82,091	73,388	60,687	22.10	2,746
1977	289,602.19	208,329	186,243	161,280	22.83	7,064
1978	5,599,369.39	3,940,769	3,522,994	3,196,249	23.57	135,607
1979	3,913.00	2,693	2,408	2,288	24.31	94
1980	867,615.85	583 , 225	521,395	519,744	25.07	20,732
1981	6,018,792.76	3,948,352	3,529,773	3,692,778	25.84	142,909
1982	6,850,067.63	4,381,139	3,916,679	4,303,402	26.62	161,660
1983	5,788,514.54	3,605,920	3,223,644	3,722,573	27.41	135,811
1984	443,026.83	268,522	240,055	291,577	28.21	10,336
1985	2,041,402.54	1,202,500	1,075,019	1,374,664	29.02	47,370
1986	169,584.93	96,967	86,687	116,815	29.84	3,915
1987	4,807,814.12	2,666,087	2,383,446	3,385,931	30.66	110,435
1988	2,640,192.35	1,417,371	1,267,111	1,901,120	31.50	60,353
1989 1990	585,499.62	303,966	271,742	430,858	32.34	13,323
1991	23,934,682.00 223,252.59	11,997,594 107,866	10,725,687 96,431	17,995,931 171,472	33.19 34.05	542,209 5,036
1991	143,107.01	66,522	59,470	112,258	34.03	3,215
1993	127,323.81	56,854	50,827	101,962	35.79	2,849
1994	115,719.28	49,528	44,277	94,586	36.67	2,579
1995	3,027,560.94	1,239,060	1,107,703	2,525,370	37.56	67,236
1996	6,014,190.95	2,347,411	2,098,554	5,118,475	38.46	133,086
1997	284,490.40	105,649	94,449	246,939	39.36	6,274
1998	3,247,147.94	1,143,684	1,022,438	2,874,140	40.27	71,372
1999	81,830.77	27,237	24,350	73,847	41.19	1,793
2000	6,781,138.74	2,125,724	1,900,368	6,236,998	42.11	148,112
2001	4,203,315.22	1,235,321	1,104,360	3,939,618	43.04	91,534
2002	1,106,847.87	303,631	271,442	1,056,775	43.97	24,034
2003	4,285,684.52	1,090,844	975 , 200	4,167,621	44.91	92 , 799
2004	455,122.20	106,739	95,423	450 , 724	45.86	9,828
2005	2,515,578.70	539 , 652	482,442	2,536,252	46.81	54 , 182
2006	4,551,912.00	885 , 493	791 , 619	4,670,675	47.76	97 , 795
2007	487,546.53	84,985	75,975	509,081	48.72	10,449
2008	2,858,815.26	440,555	393,850	3,036,728	49.68	61,126
2009	3,045,510.63	407,124	363,963	3,290,650	50.65	64,968
2010	591,671.63	67,017	59,912	650,094	51.62	12,594
2011	3,723,983.33	345 , 750	309,096	4,159,684	52.59	79,096



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P05 - POLE STRUCTURES - WOOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE IOWA	57-R3				
NET S	ALVAGE PERCENT	-20				
2012	2,562,848.59	185,079	165,458	2,909,960	53.57	54,321
2013	2,491,211.49	129,025	115,347	2,874,107	54.54	52,697
2014	4,784,879.85	149,059	133,257	5,608,599	55.52	101,019
2015	3,836,606.31	47,881	42,805	4,561,123	47.58	95,862
	129,790,285.41	54,559,510	48,775,465	106,972,878		2,946,987
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	36.3	2.27



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P06 - POLES - CONCRETE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA VAGE PERCENT					
1981	23,208.03	26,992	25,031	2,819	0.77	2,819
1982	72,462.60	83,442	77,380	9,575	1.01	9,480
1984	58,940.77	66 , 457	61,629	9,100	1.51	6,026
1986	69,138.28	76 , 130	70 , 599	12,367	2.06	6,003
1987	10,316.62	11,216	10,401	1,979	2.35	842
1990	23,134.24	23,952	22,212	5 , 549	3.43	1,618
1994	34,476.00	31,988	29,665	11,706	5.67	2,065
1997	1,639.61	1,354	1,256	712	7.79	91
1999	571.34	429	398	288	9.35	31
2005	15,775.50	7,830	7,261	11,670	14.66	796
2014	24,097.27	1,735	1,608	27,308	23.50	1,162
	333,760.26	331,525	307,440	93,072		30,933

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.0 9.27



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P07 - POLES - WOOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1968	1,429.92	1,170	1,716			
1970	17,408.79	13,798	20,891			
1978	2,920.56	1,989	3,438	67	18.59	4
1979	287.20	191	330	15	19.12	1
1981	1,553,445.95	987,992	1,707,915	156,220	20.21	7,730
1982	486,800.75	302,000	522,059	62,102	20.77	2,990
1983	348,061.32	210,391	363 , 697	53 , 977	21.34	2,529
1984 1985	430,502.34 131,555.88	253,378 75,262	438,008 130,103	78,595 27,764	21.91 22.50	3,587 1,234
1986	901,692.63	501,002	866,069	215,962	23.09	9,353
1987	1,101,007.77	593,619	1,026,173	295,036	23.68	12,459
1988	943,974.25	492,890	852,046	280,723	24.29	11,557
1989	1,606,604.49	811,522	1,402,857	525,068	24.90	21,087
1990	1,001,598.39	488,592	844,616	357,302	25.52	14,001
1991	829,595.79	390,102	674,359	321,156	26.15	12,281
1992	757,385.96	342,832	592,645	316,218	26.78	11,808
1993	952,488.78	414,138	715,909	427,078	27.42	15,575
1994	1,338,365.33	557 , 633	963,965	642 , 073	28.07	22,874
1995	951,666.66	379 , 247	655 , 594	486,406	28.72	16,936
1996	1,577,293.90	599,965	1,037,144	855,609	29.37	29,132
1997	1,948,899.80	705,416	1,219,434	1,119,246	30.03	37,271
1998	1,152,928.92	395,754	684,129	699 , 386	30.70	22,781
1999	951,172.04 1,146,005.31	308,716	533,669 605,923	607,737	31.37	19,373
2000 2001	1,271,276.81	350,513 364,709	630,463	769,283 895,069	32.04 32.72	24,010 27,355
2001	6,273,454.43	1,680,734	2,905,440	4,622,705	33.40	138,404
2002	1,513,912.45	376,437	650,737	1,165,958	34.09	34,202
2004	1,430,524.60	328,151	567,266	1,149,364	34.78	33,047
2005	1,946,928.17	409,135	707,261	1,629,053	35.47	45,928
2006	4,237,066.54	808 , 788	1,398,130	3,686,350	36.16	101,946
2007	2,043,174.40	350,094	605,198	1,846,611	36.86	50,098
2008	1,910,171.40	289,460	500,382	1,791,824	37.57	47,693
2009	1,439,822.76	189,659	327,858	1,399,929	38.28	36,571
2010	6,400,391.33	716 , 281	1,238,216	6,442,254	38.99	165,228
2011	2,459,336.59	225 , 797	390 , 329	2,560,875	39.71	64,489
2012	3,783,242.36	271,349	469,074	4,070,817	40.43	100,688
2013	4,806,162.69	246,787	426,614	5,340,781	41.16	129,757
2014	4,724,196.35	146,318	252,936	5,416,100	41.89	129,293
2015	8,231,876.13	231,151	399,585	9,478,667	20.87	454,177
	72,604,629.74	15,812,962	27,332,178	59,793,378		1,857,449

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 32.2 2.56



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT PO8 - POWER LINE CARRIER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	DR CURVE IOWA LVAGE PERCENT					
1978	50,794.89	51,366	53,843			
1980	901,642.38	892,280	955,741			
1982	10,151.14	9,826	10,760			
1990	1,997.13	1,710	2,117			
1995	319,668.37	236,787	338,848			
1996	115,824.11	82,602	122,774			
1999	532,472.13	331 , 879	525,099	39,321	10.30	3,818
2000	1,168,541.93	691 , 169	1,093,568	145,086	11.05	13,130
2002	594,654.98	311,889	493,471	136,863	12.63	10,836
2003	258,180.09	126,436	200,047	73,624	13.45	5,474
2004	287,074.34	130,362	206,259	98,040	14.29	6,861
2008	368,553.14	112,199	177,521	213,145	17.82	11,961
2009	351,267.78	93,086	147,281	225,063	18.75	12,003
2012	10,750.00	1,554	2,459	8,936	21.59	414
	4,971,572.41	3,073,145	4,329,788	940,079		64,497

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.6 1.30



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P09 - POWER SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	R CURVE IOWA					
NET SALV	/AGE PERCENT	-6				
1980	3,939.62	3,664	3 , 591	585	2.45	239
1990	3,702.71	2,961	2,902	1,023	4.91	208
1992	2,349.84	1,822	1,786	705	5.37	131
1997	29,300.16	21,321	20,895	10,163	6.27	1,621
1998	2,672.81	1,914	1,876	957	6.49	147
1999	4,402.88	3,087	3,025	1,642	6.77	243
2000	7,428.22	5 , 075	4,974	2,900	7.11	408
2003	374,436.07	224,845	220,349	176,553	8.67	20,364
2004	29,433.83	16,598	16,266	14,934	9.36	1,596
2006	96,294.52	46,239	45,314	56 , 758	10.94	5,188
2007	1,087.65	473	464	689	11.80	58
2008	24,903.99	9,649	9,456	16,942	12.69	1,335
2012	23,109.92	4,275	4,189	20,308	16.51	1,230
2013	47,739.50	6 , 325	6,199	44,405	17.50	2,537
2014	13,790.40	1,096	1,074	13,544	18.50	732
	664,592.12	349,344	342,360	362,108		36,037

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 10.0 5.42



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P10 - POWERHOUSE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL			
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
SURVI	SURVIVOR CURVE IOWA 75-R3								
NET SA	ALVAGE PERCENT	-8							
1966	6,311,169.11	4,008,731	2,148,243	4,667,820	30.89	151,111			
1967	4,570,325.24	2,853,622	1,529,230	3,406,721	31.64	107,671			
1969	2,852,512.87	1,719,038	921,217	2,159,497	33.15	65,143			
1970	2,813,125.00	1,664,100	891 , 776	2,146,399	33.92	63 , 278			
1971	3,591,077.62	2,083,961	1,116,776	2,761,588	34.70	79 , 585			
1976	5,000.00	2,614	1,401	3 , 999	38.70	103			
1978	1,083,475.00	540 , 763	289 , 790	880,363	40.34	21,824			
1979	6,557,377.81	3,193,472	1,711,353	5,370,615	41.18	130,418			
1980	2,154,843.14	1,023,353	548,406	1,778,825	42.02	42,333			
1981	242,625.77	112,290	60,175	201,861	42.86	4,710			
1982	12,555,601.74	5,655,490	3,030,726	10,529,324	43.72	240,835			
1983	4,570,723.64	2,002,838	1,073,303	3,863,079	44.57	86 , 674			
1984	11,985,754.79	5,101,861	2,734,042	10,210,573	45.44	224,705			
1985	6,005,216.38	2,480,949	1,329,518	5,156,116	46.31	111,339			
1986	10,005.17	4,008	2,148	8,658	47.18	184			
1987	219,450.45	85 , 102	45 , 605	191,401	48.07	3,982			
1988	1,492,250.75	559 , 768	299 , 975	1,311,656	48.95	26 , 796			
1989	1,071,438.20	388 , 028	207,941	949,212	49.85	19,041			
1990	38,861.82	13,576	7,275	34,696	50.74	684			
1991	10,918.56	3 , 671	1,967	9,825	51.65	190			
1993	2,707,655.42	839 , 470	449,864	2,474,404	53.47	46,276			
1994	44,880.61	13,320	7,138	41,333	54.39	760			
1995	148,263.24	42 , 037	22 , 527	137 , 597	55.31	2,488			
1997	7 , 274.98	1,868	1,001	6,856	57.17	120			
1998	9,563.03	2,326	1,246	9,082	58.11	156			
2000	107,638.74	23,265	12,468	103,782	59.99	1,730			
2003	20,849,611.08	3,650,775	1,956,419	20,561,161	62.84	327 , 199			
2006	83,289.00	11,118	5 , 958	83 , 994	65.73	1,278			
2008	110,785.58	11,710	6 , 275	113,373	67.66	1,676			
2013	136,303.49	4,828	2 , 587	144,621	72.54	1,994			
2014	405,707.09	8,645	4,633	433,531	73.52	5 , 897			
2015	966,020.00	8,242	4,417	1,038,885	62.79	16,545			
	93,718,745.32	38,114,839	20,425,400	80,790,845		1,786,725			

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 45.2 1.91



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P11 - PRINTERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE 6-SQ	JARE				
NET SAI	LVAGE PERCENT	0				
2010	33,674.17	30,868	33,674			
2010	109,892.75	82,420	109,893			
2012	442,736.53	258,262	440,915	1,822	2.50	729
2013	234,151.87	97 , 564	166,565	67 , 587	3.50	19,311
2014	127,631.90	31,908	54,475	73 , 157	4.50	16,257
2015	89,913.38	7,492	12,791	77,123	5.50	14,022
	1,038,000.60	508,514	818,313	219,688		50,319

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.4 4.85



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P12 - PROTECTIVE CONTROL AND RELAY PANELS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1967	284,441.83	263,069	284,442			
1968	57,082.00	52,369	57,082			
1980	274,001.64	220,533	274,002			
1984	65,632.30	48,999	65,632			
1987	97,943.45	68 , 057	97,943			
1988	11,036.18	7,467	11,036			
1995	81,935.56	43,543	69,049	12,887	16.40	786
1996	422,516.97	214,879	340,748	81 , 769	17.20	4,754
1999	123,789.76	54,256	86,037	37 , 753	19.66	1,920
2003	1,715,668.03	581 , 371	921 , 918	793 , 750	23.14	34,302
2004	267,884.42	83,885	133,022	134,862	24.04	5,610
2005	136,944.76	39 , 322	62 , 355	74 , 590	24.95	2,990
2006	84,139.78	21,949	34,806	49,334	25.87	1,907
2007	417,771.63	97 , 880	155,215	262,557	26.80	9,797
2008	67,175.89	13,934	22,096	45,080	27.74	1,625
2009	143,451.35	25,863	41,013	102,438	28.69	3,571
2010	77,951.21	11,916	18,896	59 , 055	29.65	1,992
2011	272,015.61	34,119	54,105	217,911	30.61	7,119
2012	1,802,811.24	176 , 153	279 , 337	1,523,474	31.58	48,242
2013	1,875,300.36	131,271	208,164	1,667,136	32.55	51,218
2014	424,664.40	17 , 836	28,284	396 , 380	33.53	11,822
2015	802,970.72	13,490	21,392	781 , 579	29.26	26,712
	9,507,129.09	2,222,161	3,266,574	6,240,555		214,367

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.1 2.25



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R01 - RADIO TOWERS (WOOD OR STEEL)

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	48-R3				
NET SA	LVAGE PERCENT	-14				
1980	1,129,316.10	830 , 927	1,287,420			
1982	163,082.69	114,492	185,914			
1984	345,750.61	230,747	394,156			
1990	60,871.98	33,844	69,394			
1993	20,347.95	10,110	23,197			
2001	2,219,146.63	731,019	1,700,743	829,084	34.13	24,292
2003	4,407,288.75	1,259,192	2,929,557	2,094,752	35.97	58,236
2005	231,191.05	55 , 732	129,663	133,895	37.85	3,538
2007	365,470.35	71,695	166,801	249,835	39.74	6,287
2009	181,643.40	27 , 350	63,631	143,442	41.66	3,443
2010	214,646.98	27 , 377	63,694	181,004	42.63	4,246
2012	157,380.61	12,821	29 , 828	149,586	44.57	3,356
2013	262,969.06	15,301	35,598	264,186	45.55	5,800
	9,759,106.16	3,420,607	7,079,596	4,045,785		109,198

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.0 1.12



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R02 - RADIOS - FIXED MICROWAVE EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	19-R5				
NET SA	LVAGE PERCENT	0				
1980	133,758.69	133,759	133,759			
2001	2,927,352.03	2,183,190	2,716,833	210,519	4.83	43,586
2003	1,936,460.85	1,263,792	1,572,704	363 , 757	6.60	55 , 115
2007	184,426.72	82 , 507	102,674	81,753	10.50	7,786
2010	52,446.64	15,182	18,893	33,554	13.50	2,485
2012	42,443.68	7,819	9,730	32,714	15.50	2,111
2014	935,875.16	73 , 887	91,948	843,927	17.50	48,224
	6,212,763.77	3,760,136	4,646,541	1,566,223		159,307

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 9.8 2.56



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R03 - RADIOS - FIXED UHF EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	CURVE IOWA VAGE PERCENT					
2008	39,521.58	12,094	16,134	23,388	10.41	2,247
2009	49,779.53	13,805	18,417	31,363	10.84	2,893
2012	8,976.21	1,544	2,060	6,916	12.42	557
2015	3,385.14	198	264	3,121	8.04	388
	101,662.46	27,641	36,875	64,787		6,085

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 10.6 5.99



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R04 - RADIOS - FIXED VHF EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR	CURVE IOWA	19-R3				
NET SALV	AGE PERCENT	0				
1992	161,678.78	143,128	161,679			
2003	118,245.16	69,330	106,929	11,316	7.86	1,440
2003	560.00	306	472	88	8.61	1,440
2004	211,040.32	97,524	150,413	60 , 627	10.22	5,932
	•	•	•	•		•
2010	68,641.70	19,039	29,364	39 , 278	13.73	2,861
	560,165.96	329,327	448,857	111,309		10,243

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 10.9 1.83



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R05 - RADIOS - MOBILE VHF BASE STATION

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	15-R4				
NET SAI	LVAGE PERCENT	0				
1990	3,162.00	3,162	3,162			
1999	25,964.56	23,195	25,965			
2000	13,354.38	11,592	13,354			
2003	142,198.39	107,407	132,744	9,454	3.67	2,576
2004	2,800.00	1,982	2,450	350	4.38	80
2006	5,570,753.44	3,364,735	4,158,470	1,412,283	5.94	237,758
2007	449,236.51	245,881	303,884	145,353	6.79	21,407
2010	353,405.39	128,170	158,405	195,000	9.56	20,397
2011	2,650.00	790	976	1,674	10.53	159
2012	715,139.17	165,912	205,051	510,089	11.52	44,279
	7,278,663.84	4,052,826	5,004,461	2,274,203		326,656

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 7.0 4.49



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R06 - RAMPS - YARD STORAGE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
` ,	, ,	, ,	(1)	(3)	(0)	(
	OR CURVE IOWA					
NET SA	LVAGE PERCENT	0				
1975	23,739.53	23,331	23,740			
1979	41,423.85	39,104	41,424			
1982	17,210.71	15,717	17,211			
1987	32,563.96	27,849	32,564			
1989	105,848.63	87,304	102,299	3 , 550	4.38	811
1990	80,081.66	64,674	75 , 782	4,300	4.81	894
1991	18,109.67	14,285	16,739	1,371	5.28	260
1992	11,484.17	8,824	10,340	1,144	5.79	198
1993	49,461.82	36,918	43,259	6,203	6.34	978
1996	49,965.87	33,617	39 , 391	10,575	8.18	1,293
1999	91,261.53	53,662	62 , 879	28,383	10.30	2,756
2001	54,773.84	28,855	33,811	20,963	11.83	1,772
2005	37,371.68	14,724	17,253	20,119	15.15	1,328
2006	157,317.16	56,508	66,213	91,104	16.02	5 , 687
2007	62,524.29	20,233	23,708	38,816	16.91	2,295
2008	128,268.49	36,839	43,166	85,102	17.82	4,776
2009	275,236.83	68 , 809	80,627	194,610	18.75	10,379
2010	194,580.30	41,407	48,519	146,061	19.68	7,422
2014	30,779.66	1,810	2,121	28,659	23.53	1,218
2015	131,553.97	3,078	3,607	127,947	20.87	6,131
	1,593,557.62	677 , 548	784,653	808,905		48,198

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 16.8 3.02



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R07 - REACTORS AND RESISTORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE	ANNUAL ACCRUAL
(1) SURVIVO	R CURVE IOWA		(4)	(3)	(6)	(7)
NET SAL	VAGE PERCENT	0				
1968	20,083.02	18,366	14,534	5,549	3.42	1,623
1977	30,440.00	25 , 729	20,361	10,079	6.19	1,628
1978	8,000.00	6,674	5,282	2,718	6.63	410
1981	11,332.11	9,026	7,143	4,189	8.14	515
1995	706,182.60	361 , 389	285,991	420,192	19.53	21,515
1996	31,021.13	15,107	11,955	19,066	20.52	929
2000	201,957.01	78 , 258	61,931	140,026	24.50	5,715
2006	15,887.39	3,773	2,986	12,901	30.50	423
2012	19,747.12	1,728	1,368	18,379	36.50	504
2014	105,579.69	3 , 959	3,133	102,447	38.50	2,661
2015	74,835.30	965	763	74,072	38.26	1,936
	1,225,065.37	524,974	415,447	809,618		37,859

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 21.4 3.09



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R08- RECLOSERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
			(1)	(0)	(0)	(, ,
	VOR CURVE IOWA					
NET SA	ALVAGE PERCENT	-8				
1967	6,652.00	5,770	7,184			
1968	56,551.87	48,453	61,076			
1970	127,939.91	106,740	138,175			
1971	23,480.43	19,310	25,359			
1975	254,501.39	196,067	274,862			
1976	13,304.00	10,064	14,113	255	14.38	18
1978	51,386.25	37,380	52,420	3,077	15.67	196
1979	14,000.00	9,973	13,986	1,134	16.34	69
1981	247,844.16	168,855	236,796	30,876	17.72	1,742
1982	210,284.73	139,860	196,134	30,974	18.44	1,680
1983	13,679.99	8 , 877	12,449	2,325	19.16	121
1984	195,909.41	123,864	173,702	37,880	19.90	1,904
1985	148,118.05	91,148	127,822	32,145	20.65	1,557
1986	10,486.97	6,272	8,796	2,530	21.42	118
1987	120,202.29	69,805	97,892	31,926	22.19	1,439
1988	192,446.10	108,338	151,929	55 , 913	22.98	2,433
1989	80,623.21	43,935	61,613	25,460	23.78	1,071
1990	168,883.99	88 , 956	124,748	57 , 647	24.59	2,344
1991	53,470.41	27 , 177	38,112	19,636	25.41	773
1992	68,483.94	33 , 529	47,020	26,943	26.24	1,027
1993	42,735.36	20,115	28,209	17,945	27.08	663
1994	308,115.99	139,136	195,119	137,646	27.93	4,928
1995	78,765.23	34,044	47,742	37,324	28.79	1,296
1996	46,812.70	19,328	27,105	23,453	29.65	791
1997	152,244.41	59 , 844	83 , 923	80,501	30.53	2,637
1998	225,640.57	84 , 176	118,045	125 , 647	31.42	3 , 999
1999	28 , 552.97	10,080	14,136	16,701	32.31	517
2000	125,112.26	41,607	58,348	76 , 773	33.22	2,311
2001	74 , 492.85	23,247	32,601	47,851	34.13	1,402
2002	36,048.05	10,503	14,729	24,203	35.05	691
2003	243,555.38	65 , 923	92,448	170,592	35.97	4,743
2004	7,409.35	1,849	2,593	5,409	36.91	147
2005	184,703.55	42,182	59 , 154	140,326	37.85	3,707
2006	44,673.53	9,258	12,983	35,264	38.79	909
2008	156,994.85	25,786	36,161	133,393	40.70	3,277
2009	191,161.39	27,268	38,240	168,214	41.66	4,038
2010	460,161.79	55,602	77,974	419,001	42.63	9,829
2011	294,224.11	29,129	40,849	276,913	43.60	6,351
2012	786,434.97	60,695	85,116	764,234	44.57	17,147



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R08- RECLOSERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA SALVAGE PERCENT					
2013 2014 2015	767,583.00 286,332.34 558,602.79	42,312 9,469 7,420	59,337 13,279 10,405	769,653 295,960 592,886	45.55 46.53 40.15	16,897 6,361 14,767
	7,158,606.54	2,163,346	3,012,684	4,718,611		123,900
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	38.1	1.73



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R09 - REGULATORS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1968	18,866.12	14,594	18,554	1,821	11.35	160
1970	54,167.14	40,760	51,819	6,682	12.13	551
1971	180,731.24	134,095	170,477	24,713	12.52	1,974
1975	236,210.70	164,799	209,512	45,596	14.16	3,220
1977	37,253.00	25,126	31,943	8,290	15.02	552
1980	723,370.55	461,908	587,231	194,009	16.35	11,866
1981	114,979.59	72,023	91,564	32,614	16.80	1,941
1982	94,913.39	58,249	74,053	28,453	17.27	1,648
1983	36,438.00	21,900	27,842	11,511	17.74	649
1984	65,838.76	38,717	49,221	21,885	18.22	1,201
1985	228,343.71	131,259	166,872	79,739	18.71	4,262
1987	96,206.56	52,679	66,972	36,931	19.72	1,873
1988	101,884.72	54,358	69,106	40,929	20.24	2,022
1989	2,844.72	1,477	1,878	1,194	20.77	57
1990	120,936.14	61,061	77,628	52,983	21.30	2,487
1993	97,861.56	44,971	57,172	48,518	22.98	2,111
1994	24,330.81	10,793	13,721	12,556	23.57	533
1995	65,641.15	28,073	35 , 690	35,202	24.16	1,457
1997	103,909.72	40,989	52,110	60,112	25.39	2,368
2000	18,916.42	6,466	8,220	12,210	27.34	447
2001	5,317.92	1,719	2,185	3,558	28.03	127
2002	26,690.60	8,129	10,335	18,491	28.72	644
2003	150,883.10	43,020	54,692	108,262	29.44	3,677
2004	122,332.16	32,468	41,277	90,842	30.17	3,011
2005	36,569.64	8,975	11,410	28,085	30.91	909
2006	89,712.14	20,153	25,621	71,268	31.68	2,250
2007	71,728.09	14,583	18,540	58,926	32.47	1,815
2008	243,153.44	44,183	56,170	206,436	33.27	6,205
2009	402,868.52	64,177	81,589	353,509	34.10	10,367
2010	317,705.00	43,405	55,181	287,940	34.94	8,241
2011	342,450.78	38,741	49,252	320,595	35.81	8,953
2012	616,673.74	54,946	69,854	596,154	36.70	16,244
2013	537,169.67	34,664	44,068	536,075	37.61	14,254
2014	158,574.53	6,251	7,947	163,313	38.54	4,237
2015	122,166.67	2,375	3,020	128,920	27.20	4,740
	5,667,640.00	1,882,086	2,392,726	3,728,325		127,053

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.3 2.24



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R11- REVENUE METERING

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	35-R3				
NET SA	LVAGE PERCENT	0				
1067	10 751 00	11 700	10.045	706	0 60	0.60
1967	12,751.00	11,793	12,045	706	2.63	268
1968	6,820.00	6,257	6,391	429	2.89	148
1970	8,301.90	7,493	7,653	649	3.41	190
1974	13,100.00	11,397	11,640	1,460	4.55	321
1976	9,983.00	8,497	8,678	1,305	5.21	250
1977	8,738.30	7,345	7,502	1,236	5.58	222
1978	37 , 976.15	31,499	32,171	5,805	5.97	972
1979	7 , 907.86	6,464	6,602	1,306	6.39	204
1980	37 , 702.15	30,345	30,993	6 , 709	6.83	982
1981	32,616.27	25,813	26,364	6 , 252	7.30	856
1982	2 , 521.70	1,960	2,002	520	7.80	67
1983	33,124.09	25 , 250	25 , 789	7,335	8.32	882
1984	29,812.28	22 , 257	22 , 732	7,080	8.87	798
1985	14,504.27	10,588	10,814	3,690	9.45	390
1986	43,276.88	30 , 850	31,509	11,768	10.05	1,171
1987	34,327.14	23,853	24,362	9,965	10.68	933
1988	31,848.65	21,548	22,008	9,841	11.32	869
1989	23,844.81	15 , 676	16,011	7,834	11.99	653
1990	15,631.27	9,968	10,181	5,450	12.68	430
1991	16,516.52	10,198	10,416	6,101	13.39	456
1992	34,331.48	20,481	20,918	13,413	14.12	950
1994	5,484.96	3,036	3,101	2,384	15.63	153
1995	7,534.74	4,004	4,089	3,446	16.40	210
1996	29,464.09	14,985	15,305	14,159	17.20	823
1997	9,378.65	4,555	4,652	4,727	18.00	263
2001	121,485.76	47,275	48,284	73,202	21.38	3,424
2002	86,636.39	31,561	32,234	54,402	22.25	2,445
2003	39,573.82	13,410	13,696	25 , 878	23.14	1,118
2009	89,696.48	16,171	16,516	73,180	28.69	2,551
2012	27,330.13	2,670	2,727	24,603	31.58	779
2014	87,162.67	3,661	3,739	83,424	33.53	2,488
2015	283,532.20	4,763	4,865	278,667	29.26	9,524
	1,242,915.61	485,623	495,989	746,926		35 , 790

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 20.9 2.88



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R12 - RIGHT-OF-WAYS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
QIID1/T1/	OR CURVE IOWA	65_D/				
	LVAGE PERCENT					
1966	1,057,755.13	745,315	833,259	224,496	19.20	11,692
1967	1,713,673.55	1,187,970	1,328,145	385,529	19.94	19,334
1968	274,316.09	186,999	209,064	65 , 252	20.69	3,154
1969	85 , 289.66	57 , 131	63 , 872	21,418	21.46	998
1970	299 , 538.55	197 , 096	220,352	79 , 187	22.23	3 , 562
1973	5 , 734.27	3 , 562	3,982	1,752	24.62	71
1974	574 , 591.95	349 , 708	390 , 972	183,620	25.44	7,218
1976	134,344.85	78 , 292	87 , 530	46,815	27.12	1,726
1977	25,664.00	14,621	16,346	9,318	27.97	333
1978	2,890,160.13	1,608,259	1,798,026	1,092,134	28.83	37,882
1980	122,188.63	64,704	72,339	49,850	30.58	1,630
1981	1,116,248.39	575,817	643,761	472,487	31.47	15,014
1982	793,264.95	398,219	445,207	348,058	32.37	10,752
1983	1,786,100.11	871,617	974,464	811,636	33.28	24,388
1984	66,937.79	31,718	35,461	31,477	34.20	920
1985	1,714,103.64	787 , 956	880,931	833,173	35.12	23,724
1986	39,975.47	17,804	19,905	20,070	36.05	557
1987	563,160.38	242 , 677	271,312	291,848	36.99	7,890
1988 1989	175,696.96 549,774.56	73 , 171 220 , 927	81,805 246,995	93,892 302,780	37.93 38.88	2,475 7,788
1990	786,220.76	304,448	340,371	445,850	39.83	11,194
1991	168,758.87	62,856	70,273	98,486	40.79	2,414
1992	23,974.15	8,575	9 , 587	14,387	41.75	345
1993	88,237.17	30,245	33,814	54,423	42.72	1,274
1994	36,190.83	11,865	13,265	22,926	43.69	525
1995	324,798.29	101,636	113,629	211,169	44.66	4,728
1996	531,645.83	158,351	177,036	354,610	45.64	7,770
1997	182,916.05	51,723	57,826	125,090	46.62	2,683
1998	590,349.41	158,031	176,678	413,671	47.60	8,691
1999	103,742.35	26,207	29 , 299	74,443	48.58	1,532
2000	15,017.65	3 , 565	3,986	11,032	49.57	223
2001	10,532.16	2,340	2,616	7,916	50.56	157
2002	1,429,050.07	295 , 699	330,590	1,098,460	51.55	21,309
2003	32,707.00	6 , 270	7,010	25 , 697	52.54	489
2004	79,298.85	13,993	15,644	63,655	53.53	1,189
2005	128,687.90	20,729	23,175	105,513	54.53	1,935
2006	1,128,537.74	164,597	184,018	944,520	55.52	17,012
2007	99,457.18	12 , 975	14,506	84,951	56.52	1,503
2008	149,366.07	17,211	19,242	130,124	57.51	2,263
2009	166,356.00	16,611	18,571	147,785	58.51	2,526
2010	97,644.83	8,247	9,220	88,425	59.51	1,486
2011	13,878.97	959	1,072	12,807	60.51	212
2012	345,323.60	18,596	20,790	324,534	61.50	5 , 277
				Name	المصنمال منتمال	alawa alaw I bualwa



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R12 - RIGHT-OF-WAYS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2013 2014 2015	444,049.95 311,667.47 452,720.59	17,078 7,193 3,712	19,093 8,042 4,150	424,957 303,625 448,570	62.50 63.50 60.48	6,799 4,781 7,417
	21,729,648.80	9,237,275	10,327,231	11,402,418		296,842
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENI	38.4	1.37



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R13 - ROADS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	60-R4				
NET SA	ALVAGE PERCENT	-8				
1967	40,992.69	32,673	12,330	31,942	15.72	2,032
1968	22,493.01	17,644	6,658	17,634	16.42	1,074
1969	490,478.00	378,392	142,796	386,920	17.14	22,574
1970	128,175.47	97 , 201	36,681	101,749	17.87	5 , 694
1971	27,000.00	20,115	7,591	21,569	18.61	1,159
1973	11,211.47	8,046	3,036	9,072	20.13	451
1977	11,758.50	7,761	2,929	9,770	23.33	419
1978	11,048.80	7,128	2,690	9,243	24.16	383
1979	5,061.00	3,188	1,203	4,263	25.00	171
1980	3,165,500.82	1,945,845	734,317	2,684,424	25.85	103,846
1981	15,766.30	9,447	3,565	13,463	26.71	504
1982	2,911.13	1,698	641	2,503	27.59	91
1983	9,598,932.99	5,447,778	2,055,866	8,310,982	28.47	291 , 921
1984	60,540,101.27	33,389,295	12,600,352	52 , 782 , 957	29.36	1,797,785
1985	316,785.74	169,525	63 , 975	278,154	30.27	9,189
1986	13,242.22	6,869	2,592	11,710	31.18	376
1988	1,306,655.61	634,329	239,381	1,171,807	33.03	35 , 477
1989	363,353.41	170,311	64,271	328,151	33.96	9,663
1990	52,244.27	23,604	8,908	47,516	34.90	1,361
1991	54,563.98	23,719	8,951	49,978	35.85	1,394
1993	5,411.45	2,166	817	5,027	37.76	133
1994	25,140.01	9,630	3,634	23,517	38.72	607
1995	10,006.93	3,658	1,380	9,427	39.69	238
1996	3,959.23	1,378	520	3,756	40.66	92
1997	15,649.07	5,172	1,952	14,949	41.64	359
2000	155,870.51	43,263	16,326	152,014	44.58	3,410
2001	432,343.06	112,297	42,378	424,553	45.57	9,317
2002	44,013.10	10,648	4,018	43,516	46.56	935
2003	767,915.72	172,090	64,943	764,406	47.55	16,076
2005	1,358,343.31	255,993	96 , 606	1,370,405	49.53	27 , 668
2007	935,334.53	142,766	53 , 877	956,284	51.52	18,561
2008 2009	404,864.35 324,318.06	54,582 37,888	20,598 14,298	416,655 335,966	52.51 53.51	7,935 6,279
2010	983,257.78	97,166	36,669	1,025,249	54.51	18,808
2010	1,053,370.50	85,130	32,126	1,105,514	55.51	19,916
2011	245,591.86	15,471	5,839	259,400	56.50	4,591
2012	51,671.03	2,325	877	54,928	57.50	955
2013	505,599.92	13,651	5 , 152	540,896	58.50	9,246
2014	939,809.96	8,932	3,371	1,011,624	56.00	18,065
2010	555,005.50	0,332	3,311	1,011,024	50.00	10,000
	84,440,747.06	43,468,774	16,404,114	74,791,893		2,448,755

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 30.5 2.90



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R14 - ROUTERS AND LAN

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	OR CURVE 5-SQU	JARE				
NET SAI	LVAGE PERCENT	0				
2011 2012 2013 2014	651,646.86 673,410.48 268,747.57 286,810.01	586,482 471,387 134,374 86,043	651,647 673,410 223,667 143,219	45,081 143,591	2.50	18,032 41,026
2015	850,362.78	85 , 036	141,544	708,819	4.50	157,515
	2,730,977.70	1,363,322	1,833,487	897,491		216,573

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.1 7.93



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R15 - RUNNER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	55-R5				
NET SA	LVAGE PERCENT	0				
1967	5,230,693.06	4,368,099	3,187,705	2,042,988	9.07	225,247
1968	1,448,949.16	1,192,355	870 , 144	578 , 805	9.74	59,426
1970	1,458,564.95	1,161,820	847 , 861	610,704	11.19	54,576
1977	130,312.00	90,034	65 , 704	64,608	17.00	3,800
1980	50,343.45	32,266	23,547	26 , 796	19.75	1,357
1985	2,644,906.00	1,464,326	1,068,620	1,576,286	24.55	64,207
1989	583,387.23	280,983	205,053	378,334	28.51	13,270
1994	16,158.41	6,316	4,609	11,549	33.50	345
1996	59,841.42	21,217	15,483	44,358	35.50	1,250
1998	46,687.84	14,855	10,841	35,847	37.50	956
	11,669,843.52	8,632,271	6,299,567	5,370,277		424,434

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.7 3.64



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S01 - SCADA EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	DR CURVE IOWA LVAGE PERCENT					
1980	127,277.80	111,686	127,278			
1986	55,464.80	44,705	55,465			
1989	27,913.07	21,409	27,913			
1990	73,377.15	55 , 363	73,377			
1995	14,286.26	10,058	14,286			
1998	18,979.59	12,821	18,443	537	6.49	83
1999	180,642.42	119,495	171 , 893	8,749	6.77	1,292
2001	330,081.74	205,641	295,813	34,269	7.54	4,545
2002	398,819.76	238,095	342,498	56,322	8.06	6,988
2003	562,865.09	318,863	458,682	104,183	8.67	12,016
2004	343,355.76	182,665	262,763	80,593	9.36	8,610
2005	203,547.66	100,553	144,645	58,903	10.12	5,820
2006	225,887.94	102,327	147,197	78,691	10.94	7,193
2007	275,766.06	113,064	162,642	113,124	11.80	9,587
2008	280,808.49	102,636	147,641	133,167	12.69	10,494
2009	251,993.65	80,512	115,816	136,178	13.61	10,006
2010	366 , 628.59	99 , 723	143,451	223 , 178	14.56	15,328
2011	86,307.46	19,333	27,810	58 , 497	15.52	3,769
2012	73,526.84	12,830	18,456	55 , 071	16.51	3,336
2013	209,687.85	26,211	37 , 704	171 , 984	17.50	9,828
2014	27 , 323.88	2,049	2,947	24,377	18.50	1,318
2015	795,391.14	22,510	32,381	763,010	17.17	44,439
	4,929,933.00	2,002,549	2,829,101	2,100,832		154,652

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 13.6 3.14



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S02 - SECTIONALIZERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	CURVE IOWA					
1968	48,466.85	48,467	48,467			
1975	23,769.58	23,770	23,770			
1986	1,941.08	1,855	1,531	410	1.11	369
1989	1,726.87	1,596	1,318	409	1.89	216
1991	46,552.06	41,487	34,249	12,303	2.72	4,523
1996	22,003.75	16,714	13,798	8,206	6.01	1,365
2000	4,105.58	2,532	2,091	2,015	9.58	210
2010	5,443.11	1,197	988	4,455	19.50	228
	154,008.88	137,618	126,212	27,797		6,911

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.0 4.49



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S03 - SERVERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE 7-SQ	UARE				
NET SA	LVAGE PERCENT	0				
2009	52,745.62	48,978	52,746			
2010	1,661,109.97	1,305,151	1,661,110			
2011	358,846.88	230,688	358,847			
2012	183,377.26	91,689	183,377			
2013	257,792.01	92,068	240,975	16,817	4.50	3,737
2014	440,602.61	94,417	247,122	193,481	5.50	35,178
2015	64,729.57	4,624	12,103	52 , 627	6.50	8,096
	3,019,203.92	1,867,615	2,756,280	262,924		47,011

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.6 1.56



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S04 - SEWAGE DISPOSAL SYSTEM

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1967	10,112.35	8,443	10,719			
1968	7,791.63	6,406	8,259			
1969	132,528.13	107,276	140,480			
1970	14,085.17	11,217	14,930			
1971	1,387.00	1,086	1,470			
1972	4,653.28	3 , 580	4,932			
1977	7,861.00	5,483	8,333			
1978	34,016.40	23,208	36,057			
1980	143,118.72	93,202	151,706			
1981	2,667.48	1,694	2,828			
1982	3,000.00	1,857	3,180			
1983	95,005.41	57 , 256	100,706			
1988	2,697.73	1,395	2,659	201	28.16	7
1989	308,017.92	153 , 869	293,334	33,165	29.08	1,140
1990	50,007.03	24,095	45,934	7,073	30.00	236
1992	15,841.00	7,062	13,463	3,328	31.87	104
1995	131,238.24	51,270	97,741	41,372	34.73	1,191
1996	13,483.21	5,015	9,561	4,731	35.70	133
1997	4,233.64	1,496	2,852	1,636	36.67	45
1998	55,598.68	18,602	35,463	23,472	37.64	624
1999	976,185.68	308,171	587,493	447,264	38.62	11,581
2002	355,826.77	92,167	175,706	201,470	41.56	4,848
2003	97,910.98	23,493	44,787	58 , 999	42.55	1,387
2006	35,314.99	6,445	12,287	25,147	45.53	552
2007	58,129.37	9,500	18,111	43,506	46.52	935
2008	44,604.54	6,430	12,258	35 , 023	47.52	737
2009	44,878.73	5,613	10,700	36 , 871	48.51	760
2010	125,757.70	13,306	25,366	107,937	49.51	2,180
2011	143,366.51	12,407	23,653	128,315	50.51	2,540
	2,919,319.29	1,061,044	1,894,968	1,199,510		29,000

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.4 0.99



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S05 - SOFTWARE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVI	JOR CURVE 7-SQ	UARE				
NET SA	ALVAGE PERCENT	0				
2009	1,013,220.31	940,846	762 , 788	250 , 432	0.50	250 , 432
2010	1,384,293.79	1,087,653	881,811	502,483	1.50	334,989
2011	1,302,502.98	837 , 327	678 , 860	623,643	2.50	249,457
2012	1,018,232.31	509,116	412,764	605,468	3.50	172,991
2013	2,774,542.51	990,900	803,369	1,971,174	4.50	438,039
2014	1,012,715.03	217,015	175,944	836,771	5.50	152,140
2015	1,576,292.03	112,595	91,286	1,485,006	6.50	228,462
	10,081,798.96	4,695,452	3,806,822	6,274,977		1,826,510

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 3.4 18.12



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S06 - SPILLWAY STRUCTURES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1956	37,231.12	21,103	7,168	33,042	52.27	632
1966	2,136,380.00	1,019,407	346,252	1,961,038	61.40	31,939
1967	2,261,132.00	1,058,055	359 , 379	2,082,644	62.34	33,408
1979	3,482,644.79	1,237,115	420,199	3,341,057	73.82	45,260
1982	11,830,011.26	3,863,076	1,312,133	11,464,279	76.74	149,391
1983	2,949.09	935	318	2,867	77.72	37
1984	6,511,055.23	2,000,938	679 , 639	6,352,301	78.70	80,715
1988	28,771.28	7,729	2,625	28,448	82.64	344
1991	35 , 581.53	8,524	2,895	35 , 533	85.60	415
1992	6 , 707.73	1,542	524	6,720	86.59	78
2003	1,737,806.17	212,926	72,323	1,804,508	97.52	18,504
2015	50,000.00	259	88	53,912	102.60	525
	28,120,270.20	9,431,609	3,203,543	27,166,349		361,248

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 75.2 1.28



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S07 - STACKS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(1)	(2)	(3)	(4)	(3)	(0)	(/)
SURVIV	OR CURVE IOWA	55-R4				
NET SA	LVAGE PERCENT	-8				
1968	1,297,967.37	1,087,296	1,401,805			
1971	430,393.00	343 , 296	464,535	289	14.38	20
1974	69,609.69	52 , 584	71,155	4,023	16.53	243
1975	661,362.47	489,862	662 , 862	51,409	17.28	2,975
1976	8,601.34	6,243	8,448	841	18.04	47
1986	27,918.81	15 , 701	21,246	8,906	26.36	338
1988	6,132.90	3,232	4,373	2,251	28.16	80
1992	336,677.64	152 , 917	206,921	156 , 691	31.87	4,917
1995	36,955.81	14,710	19,905	20,007	34.73	576
1996	121,024.55	45,866	62,064	68,643	35.70	1,923
2001	94,022.28	26,623	36,025	65 , 519	40.58	1,615
2005	52,308.82	10,754	14,552	41,942	44.53	942
2007	108,179.45	18,013	24,374	92,460	46.52	1,988
2008	289,892.88	42,579	57,616	255,468	47.52	5,376
2011	527,981.53	46,553	62,994	507,226	50.51	10,042
2015	3,781,821.18	39,618	53,610	4,030,757	51.05	78,957
	7,850,849.72	2,395,847	3,172,485	5,306,433		110,039

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 48.2 1.40



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S08 - STATIC EXCITATION SYSTEM

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	32-R4				
NET SA	LVAGE PERCENT	-6				
1967	951,235.75	1,005,477	816,518	191,792	0.09	191,792
1968	431,036.26	452,901	367,787	89,111	0.09	89,111
1970	688,732.45	714,316	580,075	149,981	0.69	149,981
1974	36,724.00	36,944	30,001	8,926	1.63	5,476
1975	32,918.00	32,832	26,662	8,231	1.89	4,355
1976	8,000.00	7,910	6,423	2,057	2.15	957
1977	8,000.00	7,836	6,363	2,037	2.13	871
1980	1,489,744.00	1,415,294	1,149,318	429,811	3.32	129,461
1980				•	4.04	•
	25,045.38	23,196	18,837	7,711		1,909
1988	2,134.84	1,749	1,420	843	7.27	116
1989	219,265.38	174,753	141,912	90,509	7.94	11,399
1992	127,935.69	92,810	75,368	60,244	10.10	5,965
1998	20,098.07	11,291	9,169	12,135	15.04	807
2002	589,435.62	259 , 486	210,721	414,081	18.71	22,132
2003	590,425.47	241,341	195 , 986	429 , 865	19.66	21,865
2004	648,715.35	244,538	198,582	489,056	20.62	23,718
2012	563,071.00	65 , 093	52 , 860	543 , 995	28.51	19,081
2013	1,219,727.63	101,002	82,020	1,210,891	29.50	41,047
2015	680,819.64	11,980	9,729	711,940	29.53	24,109
	8,333,064.53	4,900,749	3,979,751	4,853,298		744,152

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 6.5 8.93



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S09 - STATIC EXCITATION - TRANSFORMERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVOR	R CURVE IOWA	45-R4				
NET SALV	AGE PERCENT	-6				
1968	92,234.00	85 , 753	97,768			
1978	6,765.39	5,417	7,171			
1980	265,233.03	203,612	277,137	4,010	12.41	323
1982	44,965.17	32 , 983	44,893	2,770	13.86	200
1985	325,129.00	220,719	300,422	44,215	16.18	2,733
	734,326.59	548,484	727,391	50,995		3,256

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 15.7 0.44



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S10 - STATION SERVICE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
NET SAI	LVAGE PERCENT	-6				
1966	491,604.69	442,415	374,999	146,102	7.55	19,351
1967	19,591.00	17,423	14,768	5,998	8.05	745
1968	7,386.55	6,486	5,498	2,332	8.58	272
1970	1,022.42	873	740	344	9.74	35
1971	151,872.00	127,628	108,180	52,804	10.36	5,097
1974	450.00	359	304	173	12.35	14
1975	1,500.00	1,175	996	594	13.04	46
1977	36,906.00	27 , 807	23,570	15,550	14.46	1,075
1978	8,987.26	6,630	5,620	3,906	15.20	257
1979	182,007.25	131,384	111,364	81,564	15.95	5,114
1980	202,598.85	142,984	121,196	93,559	16.71	5,599
1981	9,086.29	6,262	5,308	4,323	17.49	247
1982	7,725.34	5,193	4,402	3,787	18.29	207
1983	775,442.31	507 , 977	430,570	391,399	19.10	20,492
1985	512,446.00	317,659	269,254	273,939	20.76	13,196
1986	2,856.46	1,719	1,457	1,571	21.61	73
1987	2,668.56	1,557	1,320	1,509	22.48	67
1988	69,235.33	39,102	33,144	40,245	23.36	1,723
1989	98,106.21	53 , 556	45,395	58 , 598	24.25	2,416
1990	25,037.31	13,190	11,180	15,360	25.15	611
1991	2,774.58	1,408	1,193	1,748	26.06	67
1992	886.43	433	367	573	26.98	21
1993	2,443.94	1,145	971	1,620	27.91	58
1994	42,122.46	18,887	16,009	28,641	28.85	993
1995	21,028.01	9,009	7,636	14,654	29.79	492
1996	82,955.52	33,854	28,695	59 , 238	30.75	1,926
2002	1,362.83	388	329	1,116	36.58	31
2008	375,325.90	59,518	50,448	347,397	42.52	8,170
2009	339,502.31	46,711	39,593	320,279	43.51	7,361
2010	18,254.70	2,125	1,801	17,549	44.51	394
2011	26,312.12	2,505	2,123	25,768	45.51	566
2012	93,881.41	6,966	5,905	93,609	46.50	2,013
2013	27,928.40	1,480	1,254	28,350	47.50	597
2014	28,527.93	907	769	29,471	48.50	608
2015	1,563,499.52	17 , 567	14,891	1,642,419	46.45	35 , 359
	5,233,335.89	2,054,282	1,741,249	3,806,087		135,293

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 28.1 2.59



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S11 - STOP LOGS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
1966	137,480.00	96,871	45,941	91,539	19.20	4,768
1967	148,478.00	102,929	48,814	99,664	19.94	4,998
1970	20,000.00	13,160	6,241	13,759	22.23	619
1979	561,958.08	305,188	144,736	417,222	29.70	14,048
1982	1,290,854.99	648,009	307,320	983 , 535	32.37	30,384
1983	12,373.49	6,038	2,864	9,509	33.28	286
1984	195,768.00	92 , 765	43,994	151,774	34.20	4,438
1988	65,388.47	27,232	12 , 915	52,473	37.93	1,383
1998	22,751.29	6 , 090	2,888	19,863	47.60	417
1999	22,847.30	5,772	2,737	20,110	48.58	414
2003	135,012.07	25 , 880	12,273	122,739	52.54	2,336
2008	207,322.36	23,890	11,330	195 , 992	57.51	3,408
2015	293,863.07	2,410	1,143	292,720	60.48	4,840
	3,114,097.12	1,356,234	643,196	2,470,901		72,339

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 34.2 2.32



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S12 - STORAGE PALLETS AND RACKINGS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	R CURVE IOWA VAGE PERCENT					
1984	10,706.05	8,786	10,706			
1998	3,696.62	1,957	3,697			
	14,402.67	10,743	14,403			

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 0.0 0.00



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S13 - STORM AND YARD DRAINAGE

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	CURVE IOWA					
1967	3,047.17	2,400	3,047			
1969	105,766.52	80,768	105,767			
1980	260,474.54	160,025	260,475			
1983	237,980.07	135,304	225,246	12,734	23.73	537
1985	374,229.91	200,928	334,492	39,738	25.47	1,560
1987	5,660.27	2,856	4,755	905	27.25	33
1988	963.97	470	782	182	28.16	6
1989	3,287.74	1,549	2,579	709	29.08	24
1990	36,594.92	16,634	27 , 691	8,904	30.00	297
1991	30,419.95	13,313	22,163	8,257	30.93	267
1992	39,856.38	16,762	27,904	11,952	31.87	375
1995	31,748.63	11,701	19,479	12,270	34.73	353
2009	67,290.58	7,940	13,218	54,073	48.51	1,115
2013	75,014.75	3,409	5,675	69,340	52.50	1,321
2014	36,378.00	992	1,652	34,726	53.50	649
	1,308,713.40	655 , 051	1,054,925	253,788		6,537

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.8 0.50



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S14 - STREET LIGHTS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	20-R2				
	VAGE PERCENT					
1981	54,255.98	55 , 527	57,511			
1982	7,797.99	7,869	8,266			
1983	1,970.32	1,958	2,073	16	1.25	13
1984	14,870.88	14,557	15,414	349	1.53	228
1986	10,258.60	9,727	10,299	575	2.11	273
1987	15,938.15	14,859	15 , 734	1,160	2.41	481
1988	29,761.78	27,273	28,878	2,669	2.71	985
1989	40,088.51	36,099	38,224	4,270	3.01	1,419
1990	64,177.85	56,668	60,003	8,026	3.34	2,403
1991	15,698.78	13,579	14,378	2,263	3.68	615
1992	33,394.44	28,230	29,892	5,506	4.05	1,360
1993	37,254.73	30,723	32,531	6,959	4.44	1,567
1994	35,848.17	28,784	30,478	7,521	4.85	1,551
1995	20,507.08	15,977	16,917	4,821	5.30	910
1996	43,177.00	32,564	34,481	11,287	5.77	1,956
1997	160,139.81	116,447	123,301	46,447	6.28	7,396
1998	78,991.65	55,221	58 , 471	25,260	6.81	3,709
1999	78 , 875.09	52 , 756	55 , 861	27,747	7.38	3,760
2000	102,207.84	65 , 167	69,003	39,337	7.97	4,936
2001	129,520.08	78 , 325	82 , 935	54,356	8.59	6,328
2002	113,267.13	64,594	68,396	51,667	9.24	5,592
2003	183,149.00	97 , 943	103,708	90,430	9.91	9,125
2004	197,169.97	98,230	104,011	104,989	10.60	9,905
2005	172,067.42	79 , 158	83,817	98,574	11.32	8,708
2006	195,791.12	82,393	87,242	120,297	12.06	9,975
2007	169,126.18	64,359	68,147	111,127	12.82	8,668
2008	218,006.97	73 , 948	78,300	152,787	13.60	11,234
2009	231,264.08	68 , 639	72 , 679	172,461	14.40	11,976
2010	189,899.06	48,109	50,941	150,352	15.22	9,879
2011	273,065.16	57 , 021	60 , 377	229 , 072	16.06	14,264
2012	188,079.80	30,802	32,615	166,750	16.91	9,861
2013	289,923.32	34,266	36,282	271 , 037	17.77	15,253
2014	193,673.80	13 , 857	14,673	190,621	18.65	10,221
2015	285,771.56	10,723	11,354	291 , 564	13.61	21,423
	3,874,989.30	1,566,352	1,657,192	2,450,297		195,974

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 12.5 5.06



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S15 - STRUCTURAL SUPPORTS (WOOD OR STEEL)

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
CIIDIITIIO	D CLIDATE TOWN	55 D/				
	R CURVE IOWA VAGE PERCENT					
NEI SAL	VAGE PERCENI	-0				
1967	213,565.83	178,306	219,728	6,652	11.68	570
1968	118,266.43	97,236	119,825	5,537	12.34	449
1970	625,023.62	497,735	613,364	49,161	13.68	3,594
1971	3,879.00	3,037	3,743	369	14.38	26
1974	40,813.35	30,260	37,290	5,972	16.53	361
1975	89,370.64	64,970	80,063	14,670	17.28	849
1976	86,734.84	61,783	76,136	15,803	18.04	876
1977	153,542.15	107,093	131,972	30,783	18.81	1,637
1978	840,408.57	573,376	706,577	184,256	19.60	9,401
1979	365,784.41	243,918	300,583	87,148	20.40	4,272
1980	253,554.46	165,120	203,479	65 , 289	21.21	3 , 078
1981	261,871.02	166,347	204,991	72 , 592	22.04	3,294
1982	674,886.46	417,782	514,837	200,543	22.88	8,765
1983	315,782.64	190,311	234,522	100,208	23.73	4,223
1984	14,166.81	8,300	10,228	4,789	24.60	195
1985	11,743.67	6,684	8,237	4,211	25.47	165
1986	75,722.14	41,797	51 , 507	28 , 758	26.36	1,091
1987	308,834.94	165,172	203,543	123,822	27.25	4,544
1988	79,011.14	40,871	50,366	33,386	28.16	1,186
1989	392,408.53	196,026	241,565	174,388	29.08	5 , 997
1990	895,903.74	431,667	531,948	417,710	30.00	13,924
1991	420,663.60	195,145	240,479	205,424	30.93	6,642
1992	611,539.56	272,614	335 , 945	312,287	31.87	9,799
1993	54 , 374.77	23,243	28,643	28 , 994	32.82	883
1994	168,570.90	68 , 972	84 , 995	93 , 690	33.77	2,774
1995	610,704.02	238 , 579	294,004	353 , 342	34.73	10,174
1996	278 , 697.88	103,666	127,749	167 , 671	35.70	4,697
1997	55,631.15	19 , 653	24,219	34 , 750	36.67	948
1998	197,201.80	65 , 979	81 , 307	127,727	37.64	3,393
1999	19,402.49	6 , 125	7,548	13,019	38.62	337
2000	304,743.10	90,448	111,460	211,568	39.60	5,343
2001	51,839.87	14,407	17 , 754	37 , 196	40.58	917
2002	95,124.17	24,639	30,363	70,469	41.56	1,696
2003	185,974.29	44,623	54 , 989	142,144	42.55	3,341
2004	14,790.11	3 , 267	4,026	11,652	43.54	268
2005	17,969.12	3,626	4,468	14,579	44.53	327
2006	18,876.25	3,445	4,245	15,764	45.53	346
2007	432,097.80	70,618	87 , 023	371,001	46.52	7,975
2008	33,346.06	4,807	5,924	29,423	47.52	619
2009	69,987.69	8,754	10,788	63,399	48.51	1,307
2010	226,254.53	23,940	29,502	210,328	49.51	4,248
2011	28,864.22	2,498	3 , 078	27 , 518	50.51	545



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S15 - STRUCTURAL SUPPORTS (WOOD OR STEEL)

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2012 2014 2015	1,553,655.32 308,262.78 97,763.28	104,807 8,911 1,005	129,155 10,981 1,238	1,517,720 315,778 102,391	51.50 53.50 51.05	29,470 5,902 2,006
	11,677,609.15	5,091,562	6,274,387	6,103,879		172,454
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENI	35.4	1.48



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S17 - SUMP SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	35-R4				
NET SAL	VAGE PERCENT	0				
1966	62,921.44	61,465	53,103	9,818	0.81	9,818
1979	54,056.59	47,153	40,739	13,318	4.47	2,979
1985	1,426.00	1,114	962	464	7.67	60
1988	21,760.44	15 , 711	13,574	8,186	9.73	841
1999	22,854.33	10,552	9,116	13,738	18.84	729
2009	75,619.94	14,000	12,096	63,524	28.52	2,227
2015	428,606.40	6 , 515	5,628	422,978	32.39	13,059
	667,245.14	156,510	135,218	532,027		29,713

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 17.9 4.45



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S18 - SURGE SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIVO	R CURVE IOWA	60-R4				
NET SAL	VAGE PERCENT	0				
1966	1,578,845.51	1,183,613	1,313,100	265 , 746	15.02	17,693
1967	2,334,768.00	1,723,059	1,911,562	423,206	15.72	26,922
2002	299,651.03	67,122	74,465	225,186	46.56	4,836
2014	1,496,950.24	37,424	41,518	1,455,432	58.50	24,879
2015	1,262,674.34	11,112	12,328	1,250,347	56.00	22,328
	6,972,889.12	3,022,330	3,352,973	3,619,917		96,658

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.5 1.39



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S19 - STATION SWITCHING

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1965	95,998.62	73,818	87,581	8,418	8.78	959
1968	161,442.28	119,467	141,740	19,702	9.88	1,994
1970	1,000.00	720	854	146	10.64	14
1973	80,010.49	55,144	65 , 425	14,585	11.81	1,235
1980	256,525.40	157,088	186,375	70,150	14.73	4,762
1981	65,308.50	39,220	46,532	18,776	15.18	1,237
1982	123,205.18	72,528	86,050	37,155	15.63	2,377
1984	108,404.79	61,163	72 , 566	35 , 839	16.56	2,164
1985	2,461,120.55	1,358,145	1,611,358	849,763	17.03	49,898
1986	35,050.06	18,890	22,412	12,638	17.52	721
1987	50,537.58	26,585	31,542	18,996	18.01	1,055
1988	24,307.96	12,461	14,784	9,524	18.52	514
1989	125,368.04	62 , 585	74,253	51,115	19.03	2,686
1990	64,390.22	31,263	37 , 092	27 , 298	19.55	1,396
1991	66,301.23	31,249	37 , 075	29,226	20.09	1,455
1992	246,618.65	112,732	133,750	112,869	20.63	5,471
1994	309,425.68	132,239	156 , 894	152 , 532	21.76	7,010
1995	34,006.02	14,014	16,627	17 , 379	22.34	778
1996	146,348.10	58,001	68 , 815	77 , 533	22.94	3,380
1997	500,055.41	190,151	225 , 603	274,452	23.55	11,654
1998	224,915.13	81 , 858	97 , 120	127,795	24.17	5 , 287
1999	30,772.14	10,681	12,672	18,100	24.81	730
2000	411,071.49	135,654	160,945	250,126	25.46	9,824
2001	866,140.97	270 , 556	320 , 998	545,143	26.13	20,863
2002	815,476.44	240,133	284,903	530 , 573	26.81	19,790
2003	601,443.56	165,872	196 , 797	404,647	27.52	14,704
2004	8,687.61	2,231	2,647	6,041	28.24	214
2005	253,591.03	60,261	71,496	182,095	28.97	6,286
2006	143,720.54	31,278	37 , 109	106,612	29.73	3,586
2007	387,150.67	76,311	90 , 539	296,612	30.51	9,722
2008	903,906.47	159 , 377	189,091	714,815	31.30	22,838
2011	449,426.34	49,437	58,654	390,772	33.82	11,554
2012	60,152.93	5,224	6,198	53,955	34.70	1,555
2013	125,150.30	7,871	9,339	115,811	35.61	3,252
2014	1,413,001.86	53,920	63,973	1,349,029	36.55	36,909
	11,650,032.24	3,978,127	4,719,809	6,930,224		267,874

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 25.9 2.30



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S20 - SWITCHING SYSTEMS - L.V.

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	DR CURVE IOWA LVAGE PERCENT					
1967	11,423.00	8 , 935	3,623	7,800	13.07	597
1969	12,000.00	9,064	3,676	8,324	14.68	567
1970	5,070.00	3 , 759	1,524	3,546	15.51	229
1978	42,949.00	26,700	10,827	32,122	22.70	1,415
1980	292,893.12	172,710	70,037	222,856	24.62	9,052
1982	341,312.01	190,223	77 , 139	264,173	26.56	9,946
1983	57,955.20	31,354	12,715	45,240	27.54	1,643
1985	1,030,337.00	523,411	212,253	818,084	29.52	27,713
1989	13,381.22	5,910	2,397	10,984	33.50	328
2012	2,137.86	125	51	2,087	56.50	37
2014	149,698.41	3,742	1,517	148,181	58.50	2,533
2015	345,451.74	2,936	1,191	344,261	58.32	5,903
	2,304,608.56	978 , 869	396,950	1,907,659		59,963

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.8 2.60



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T01 - TELECONTROL SYSTEM

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	25-L1.5				
NET SAI	VAGE PERCENT	0				
1967	155,517.13	123,356	155,517			
1968	150,292.25	118,070	150,292			
1970	486,115.14	374,114	486,115			
1974	139,723.79	102,781	139,724			
1975	38,228.01	27 , 784	38,228			
1976	7,194.87	5,163	7 , 195			
1977	43,794.87	31,024	43 , 795			
1978	28,102.56	19 , 638	28,103			
1980	679 , 315.49	461,663	679 , 315			
1982	25 , 527.39	16,838	25 , 527			
1984	13,123.52	8,383	13,124			
1985	125,247.66	78 , 706	125,248			
1987	32,460.35	19 , 723	32,460			
1988	12,474.58	7,450	12,269	206	10.07	20
1989	25 , 171.86	14 , 771	24,326	846	10.33	82
1990	67 , 835.32	39 , 073	64,348	3,487	10.60	329
1991	9,093.53	5,140	8,465	629	10.87	58
1992	210,249.91	116,563	191,964	18,286	11.14	1,641
1993	9,515.51	5,169	8,513	1,003	11.42	88
1995	340,055.68	176 , 829	291 , 215	48,841	12.00	4,070
1996	150,823.71	76 , 558	126,081	24,743	12.31	2,010
1997	230,157.88	113,790	187,397	42,761	12.64	3,383
1998	120,918.27	58,089	95 , 665	25,253	12.99	1,944
1999	658,698.64	306,427	504,646	154,053	13.37	11,522
2000	232,641.59	104,503	172,103	60,539	13.77	4,396
2001	629,924.69	272 , 127	448,158	181,767	14.20	12,800
2002	287,577.81	118,712	195,503	92,075	14.68	6,272
2003	1,272,180.85	499,204	822,125	450,056	15.19	29,628
2004	185,243.03	68,540	112,877	72,366	15.75	4,595
2005	68,977.27	23,839	39,260	29,717	16.36	1,816
2006	116,763.42	37,318	61,458	55,305	17.01	3,251
2007	155,855.93	45,510	74,949	80,907	17.70	4,571
2008	681,121.71	178,726	294,339	386,783	18.44	20,975
2009	153,434.75	35,597	58,624	94,811	19.20	4,938
2010	775,458.93	154,782	254,906	520,553	20.01	26,015
2011	2,127,249.56	353,123	581,548	1,545,702	20.85	74,134
2012	785,805.63	103,098	169,789	616,017	21.72	28,362



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T01 - TELECONTROL SYSTEM

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
2013 2014 2015	308,556.04 199,430.31 689,419.53	29,375 11,487 19,580	48,377 18,917 32,246	260,179 180,513 657,174	22.62 23.56 17.14	11,502 7,662 38,342
	12,429,278.97	4,362,623	6,824,711	5,604,568		304,406
	COMPOSITE REMAIN:	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENI	18.4	2.45



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T02 - TEST EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE 20-S	QUARE				
NET SA	LVAGE PERCENT	0				
1996	171,525.07	167,237	171,525			
1997	44,520.05	41,181	44,520			
1998	62 , 092.77	54 , 331	62 , 093			
1999	66,647.04	54 , 984	66,647			
2000	21,555.00	16,705	21,555			
2001	129,850.59	94,142	129,851			
2003	35,528.41	22,205	32,293	3,235	7.50	431
2004	56,187.58	32,308	46,985	9,203	8.50	1,083
2005	104,172.87	54,691	79,537	24,636	9.50	2,593
2006	125,767.44	59 , 740	86,880	38,887	10.50	3,704
2007	111,117.86	47,225	68,679	42,439	11.50	3,690
2008	118,554.56	44,458	64,655	53,900	12.50	4,312
2009	245,322.20	79,730	115,952	129,370	13.50	9,583
2010	143,454.99	39,450	57,372	86,083	14.50	5 , 937
2011	82,921.77	18,657	27,133	55,789	15.50	3,599
2012	51,402.18	8,995	13,081	38,321	16.50	2,322
2012	40,726.65	5,091	7,404	33,323	17.50	1,904
2013	279,396.00	20,955	30,475	248,921	18.50	13,455
	•	•	•	- , -		•
2015	64,570.87	1,614	2,347	62,224	19.50	3,191
	1,955,313.90	863,699	1,128,984	826,330		55,804

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.8 2.85



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T03 - TOOLS AND EQUIPMENT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVI	VOR CURVE 20-S	OUARE				
	ALVAGE PERCENT	~				
1996	200,248.76	195,243	200,249			
1997	488,362.83	451 , 736	488,363			
1998	244,471.89	213,913	244,472			
1999	673 , 202.49	555 , 392	673 , 202			
2000	323,762.71	250,916	323,763			
2001	211,193.15	153,115	204,742	6,451	5.50	1,173
2002	183,918.34	124,145	166,004	17,914	6.50	2,756
2003	326,809.44	204,256	273,126	53,683	7.50	7,158
2004	172,231.32	99,033	132,425	39,806	8.50	4,683
2005	452,386.88	237,503	317,583	134,804	9.50	14,190
2006	1,130,061.14	536 , 779	717,768	412,293	10.50	39,266
2007	613,104.06	260,569	348,427	264,677	11.50	23,015
2008	619,700.32	232,388	310,744	308,956	12.50	24,716
2009	1,999,143.86	649 , 722	868,793	1,130,351	13.50	83,730
2010	479,417.85	131,840	176,293	303,125	14.50	20,905
2011	790,951.91	177,964	237,969	552 , 983	15.50	35 , 676
2012	479,101.79	83,843	112,113	366,989	16.50	22,242
2013	817,875.96	102,234	136,705	681,171	17.50	38,924
2014	667,366.06	50,052	66,929	600,437	18.50	32,456
2015	561,016.93	14,025	18,754	542 , 263	19.50	27,808
	11,434,327.69	4,724,668	6,018,424	5,415,904		378,698

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.3 3.31



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T04 - TOWERS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1967	7,774,613.38	6,467,514	5,053,292	4,276,244	19.94	214,456
1968	3,671,739.67	3,003,586	2,346,805	2,059,283		99,530
1970 1974 1976	647,368.87 328,024.10 67,922.93	511,162 239,570	399,389 187,184	377,454 206,445	22.23 25.44 27.12	16,979 8,115
1976 1977 1981	4,145,457.94 133,177.73	47,500 2,833,951 82,440	37,113 2,214,264 64,413	44,395 2,760,286 95,400	27.12 27.97 31.47	1,637 98,687 3,031
1982	27,740.73	16,711	13,057	20,232	32.37	625
1983	5,228,146.18	3,061,602	2,392,135	3,881,640	33.28	116,636
1984	325,719.13	185,210	144,711	246,152	34.20	7,197
1985	14,909,454.99	8,224,473	6,426,065	11,465,281	35.12	326,460
1988	505,215.54	252,482	197,273	408,986	37.93	10,783
1989	692,670.62	334,020	260,981	570,224	38.88	14,666
1990	3,967,744.87	1,843,716	1,440,559	3,320,735	39.83	83,373
1991	1,445,942.58	646,267	504,951	1,230,180	40.79	30,159
1993	131,812.19	54,218	42,362	115,813	42.72	2,711
1996	28,732.47	10,270	8,024	26,455	45.64	580
1999	811,245.78	245,924	192,149	781,346	48.58	16,084
2000	7,662,860.96	2,182,812	1,705,506	7,489,927	49.57	151,098
2001	4,060,773.88	1,082,521	845,811	4,027,118	50.56	79,650
2002	7,597,273.00 4,195,002.97	1,886,433 964,968	1,473,935 753,963	7,642,793 4,280,041	51.55	148,260 81,463
2004	2,053,137.11	434,756	339,690	2,124,075	53.53	39,680
2007	1,498,132.33	234,536	183,251	1,614,508	56.52	28,565
2010	102,678.68	10,407	8,131	115,083	59.51	1,934
2011 2012	173,482.90 5,527,731.64	14,381 357,202	11,236 279,095	196,943 6,354,183	60.51	3,255 103,320
2013	25,620.47	1,182	924	29,821	62.50	477
	77,739,423.64	35,229,814	27,526,269	65,761,040		1,689,411

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 38.9 2.17



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T05 - TRANSFORMERS - OTHER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA ALVAGE PERCENT					
1964	10,236.25	8,315	8,068	2,782	12.85	216
1965	2,170,497.40	1,740,615	1,689,003	611,724	13.39	45,685
1966	295,436.32	233,791	226,859	86,303	13.94	6,191
1967	2,550,570.08	1,990,339	1,931,322	772 , 282	14.51	53,224
1968	1,087,469.18	836 , 239	811,443	341,274	15.10	22,601
1969	1,581,634.14	1,197,648	1,162,136	514,396	15.71	32,743
1970	8,182,128.19	6,099,500	5,918,638	2,754,418	16.32	168,776
1971	2,339,157.03	1,714,926	1,664,075	815,431	16.96	48,080
1972	837,143.10	603,253	585,365	302,007	17.61	17,150
1973	30,493.88	21,586	20,946	11,378	18.27	623
1974	1,198,626.20	833,019	808,318	462,226	18.94	24,405
1975 1976	330,460.22 266,952.78	225 , 267 178 , 373	218,587 173,084	131,701 109,886	19.63 20.33	6,709 5,405
1977	3,621,685.19	2,370,382	2,300,096	1,538,890	21.04	73,141
1978	5,401,385.00	3,459,213	3,356,641	2,368,827	21.77	108,812
1979	169,874.23	106,403	103,248	76,819	22.50	3,414
1980	3,269,811.65	2,000,818	1,941,490	1,524,510	23.25	65,570
1981	1,156,129.07	690,506	670,031	555,466	24.01	23,135
1982	1,022,219.43	595,564	577,904	505,649	24.77	20,414
1983	300,416.84	170,510	165,454	152,988	25.55	5 , 988
1984	61,963.44	34,226	33,211	32,470	26.34	1,233
1985	3,302,469.71	1,773,238	1,720,658	1,779,960	27.14	65 , 584
1986	1,351,098.86	704,625	683,732	748,433	27.94	26,787
1987	391,909.57	198,195	192,318	223,106	28.76	7,758
1988	1,710,691.01	837 , 760	812,919	1,000,413	29.59	33,809
1989	4,722,409.22	2,237,121	2,170,787	2,834,967	30.42	93,194
1990	3,182,456.02	1,456,096	1,412,920	1,960,483	31.26	62,715
1991	487,312.18	214,978	208,604	307,947	32.11	9,590
1992	457,250.18	194,141	188,384	296,301	32.97	8,987
1993	637,973.44	260,174	252,459	423,793	33.84	12,523
1994	224,276.70	87,659	85,060	152,673	34.72	4,397
1995	2,821,265.16	1,054,854	1,023,576	1,966,965	35.60	55 , 252
1996 1997	2,130,805.18 104,738.09	760,150	737,610	1,521,043 76,529	36.49 37.39	41,684
1998	2,072,130.48	35,547 666,933	34,493 647,157	1,549,301	38.30	2,047 40,452
1999	196,003.17	59,647	57 , 878	149,885	39.21	3,823
2000	179,015.54	51,303	49,782	139,974	40.13	3,488
2001	96,325.48	25,879	25,112	76,993	41.06	1,875
2002	2,417,735.37	606,230	588,254	1,974,545	41.99	47,024
2003	1,253,034.95	291,477	282,834	1,045,383	42.93	24,351
2004	1,163,248.70	249,519	242,120	990,924	43.87	22,588
2005	546,492.29	107,324	104,142	475,140	44.81	10,603
2006	182,214.29	32,414	31,453	161,694	45.77	3,533
				Navidavia	المصنما مسمال	abrador Hudro



Newfoundland and Labrador Hydro 2016 Depreciation Study

NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T05 - TRANSFORMERS - OTHER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	OR CURVE IOWA					
2007	1,673,348.41	267,038	259,120	1,514,629	46.72	32,419
2008	96,028.90	13,529	13,128	88,663	47.69	1,859
2009	3,649,480.13	446,612	433,369	3,435,080	48.65	70,608
2010	1,107,821.46	114,869	111,463	1,062,828	49.62	21,419
2011	1,330,021.46	113,040	109,688	1,300,135	50.59	25,699
2012	4,236,924.35	280,067	271,763	4,219,377	51.57	81,818
2013	3,130,464.89	148,427	144,026	3,174,267	52.54	60,416
2014	770,965.88	21,991	21,339	795 , 885	53.52	14,871
2015	7,745,073.72	88,666	86,037	8,123,741	46.01	176,565
	89,255,274.41	38,509,996	37,368,104	57,242,487		1,801,253

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 31.8 2.02



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T06 - TRANSFORMERS - PAD MOUNT

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
NEI SE	ALVAGE FERCENI	-0				
1967	85,000.00	70,388	91,800			
1968	110,241.68	90,189	118,150	911	9.70	94
1970	78,787.71	62,818	82,293	2,798	10.47	267
1974	23,978.75	18,018	23,604	2,293	12.17	188
1981	67,676.80	44,512	58,312	14,779	15.64	945
1982	127,293.37	81,833	107,204	30,273	16.19	1,870
1983	70,647.20	44,349	58,099	18,200	16.75	1,087
1984	14,234.01	8,716	11,418	3 , 955	17.32	228
1985	27,018.49	16,122	21,120	8,060	17.90	450
1987	47,938.17	27 , 039	35,422	16,351	19.11	856
1989	63,969.03	33,939	44,461	24,626	20.35	1,210
1991	82,079.46	40,666	53,274	35 , 372	21.65	1,634
1992	93,133.80	44,483	58 , 274	42,311	22.31	1,897
1993	33,003.74	15 , 167	19,869	15 , 775	22.98	686
1994	139,248.04	61,433	80,479	69,909	23.66	2,955
1995	10,265.00	4,337	5,682	5,404	24.35	222
1996	156,420.31	63 , 181	82 , 769	86,165	25.04	3,441
1997	72,427.27	27 , 866	36 , 505	41,716	25.75	1,620
1998	742.00	271	355	446	26.46	17
1999	45 , 687.77	15,814	20,717	28,626	27.18	1,053
2000	41,970.99	13,701	17,949	27 , 380	27.91	981
2001	356,142.61	109,140	142,977	241,657	28.65	8,435
2002	93,388.29	26 , 753	35,047	65,812	29.39	2,239
2003	30,705.67	8,174	10,708	22,454	30.14	745
2004	70,225.32	17,273	22,628	53,215	30.89	1,723
2005	66,295.63	14,946	19,580	52,019	31.65	1,644
2006	99,363.64	20,336	26,641	80,672	32.42	2,488
2007	98,472.00	18,106	23,719	82,631	33.19	2,490
2008	310,577.85	50,565	66,242	269,182	33.97	7,924
2009	132,056.82	18,683	24,475	118,146	34.76	3,399
2010	179,576.76	21,576	28,265	165,678	35.55	4,660
2011	153,567.38	15,176	19,881	145,972	36.34	4,017
2012	1,706,848.53	131,342	172,062	1,671,334	37.15	44,989
2013	171,473.68	9,491	12,433	172,759	37.95	4,552
2014	12,549,805.40	416,779	545,993	13,007,797	38.77	335,512
2015	313,388.75	7,378	9,666	328,794	22.49	14,620
	17,723,651.92	1,670,560	2,188,073	16,953,472		461,138

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 36.8 2.60



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T07 - TRANSFORMERS - POLE MOUNTED

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1967	12,694.59	9,602	11,784	1,926	8.99	214
1968	3,506.89	2,622	3,218	569	9.23	62
1970	43,296.14	31,610	38 , 792	7,968	9.72	820
1971	311.65	225	276	61	9.97	6
1978	10,884.00	7,123	8,741	3,014	11.82	255
1979	323.10	208	255	94	12.11	8
1981	428,000.05	266,865	327,501	134,739	12.68	10,626
1982	130,758.66	80,118	98,322	42,897	12.98	3,305
1983	218,005.26	131,221	161,036	74,410	13.28	5,603
1984	155,589.64	91,972	112,869	55,168	13.58	4,062
1985	151,605.75	87 , 925	107,903	55,831	13.89	4,020
1986	175,088.19	99 , 527	122,141	66,954	14.21	4,712
1987	459,057.33	255 , 660	313,750	182,032	14.53	12,528
1988	162,746.89	88 , 762	108,930	66,837	14.85	4,501
1989	248,635.14	132,563	162,683	105,843	15.19	6,968
1990	270,942.21	141,238	173 , 329	119,289	15.52	7,686
1991	271 , 811.17	138,265	169,681	123 , 875	15.87	7,806
1992	867 , 575.72	430,384	528 , 174	408,808	16.22	25 , 204
1993	301,034.54	145,545	178 , 615	146,502	16.57	8,841
1994	282,360.08	132,753	162,917	142,032	16.94	8,384
1995	583 , 381.91	266 , 720	327,323	302 , 729	17.30	17 , 499
1996	895,423.58	397 , 141	487 , 378	479 , 679	17.68	27 , 131
1997	1,130,944.07	486,125	596 , 580	624 , 840	18.06	34 , 598
1998	604,436.78	251 , 325	308,430	344,362	18.45	18,665
1999	685 , 159.47	274 , 774	337 , 207	402,765	18.86	21,356
2000	687 , 281.02	265,485	325 , 807	416,457	19.27	21,612
2001	627,766.65	232,550	285,389	392,599	19.71	19,919
2002	818,683.48	289,418	355 , 178	529,000	20.18	26,214
2003	983,095.61	329,852	404,800	656,943	20.68	31,767
2004	800,656.38	253,360	310,927	553 , 782	21.21	26,109
2005	1,021,524.86	302,290	370,975	732,272	21.78	33,621
2006	999,114.89	274,077	336,352	742,692	22.38	33,186
2007	1,308,207.61	328,251	402,835	1,010,029	23.03	43,857
2008	1,065,933.24	241,374	296,218	854,990	23.71	36,060
2009	1,712,109.10	342,690	420,555	1,428,523	24.44	58,450
2010	2,361,337.29	408,039	500,752	2,049,492	25.20	81,329
2011	3,802,181.60	547,500	671,900	3,434,456	26.00	132,094
2012	3,507,262.82	398,974	489,627	3,298,217	26.84	122,884



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T07 - TRANSFORMERS - POLE MOUNTED

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
2013 2014 2015	3,553,161.54 3,281,651.61 2,416,916.21	292,910 164,202 68,911	359,464 201,511 84,569	3,477,950 3,342,673 2,525,700	27.71 28.61 18.44	125,512 116,836 136,969
	37,040,456.72	8,690,156	10,664,694	29,338,999		1,281,279

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 22.9 3.46



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T09 - TURBINES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	55-R2.5				
NET SA	ALVAGE PERCENT	-14				
1967	1,762,788.78	1,408,172	1,210,723	798 , 856	16.46	48,533
1968	8,607,404.86	6,775,982	5,825,876	3,986,566	17.02	234,228
1970	1,683,339.64	1,283,989	1,103,952	815,055	18.20	44,783
1971	26,000.00	19,508	16,773	12,867	18.80	684
1975	101,873.10	71,033	61,073	55 , 062	21.36	2,578
1977	217,905.93	145,841	125,392	123,021	22.71	5,417
1978	4,242,670.89	2,778,894	2,389,246	2,447,399	23.40	104,590
1980	2,788,239.51	1,744,762	1,500,117	1,678,476	24.81	67 , 653
1982	7,091,357.09	4,224,371	3,632,043	4,452,104	26.26	169,539
1983	46,776.00	27,147	23,341	29,984	27.00	1,111
1985	10,927,015.21	6,001,934	5,160,362	7,296,435	28.50	256,015
1987	8,893.22	4,599	3,954	6,184	30.05	206
1988	6,909,835.55	3,461,641	2,976,261	4,900,952	30.83	158,967
1989	1,587,174.93	769,149	661,302	1,148,077	31.62	36,309
2003	11,929,596.94	2,848,466	2,449,063	11,150,678	43.48	256 , 455
2006	305,590.00	55 , 865	48,032	300,341	46.18	6,504
2009	67,170.20	8,451	7,266	69,308	48.93	1,416
2013	2,448,806.00	119,287	102,561	2,689,078	52.65	51,075
2014	289,550.40	8,523	7,328	322,759	53.58	6,024
2015	4,117,648.02	57 , 268	49,238	4,644,881	40.32	115,200
	65,159,636.27	31,814,882	27,353,903	46,928,082		1,567,287

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 29.9 2.41



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T10.00 - HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE 3-SQI SALVAGE PERCENT					
2015	2,206,062.36	367,684	40,444	2,165,618	2.50	866,247
	2,206,062.36	367,684	40,444	2,165,618		866,247
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	2.5	39.27



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T11.00 - HOLYROOD GAS TURBINE - TURBINE OVERHAUL

YEAR	ORIGINAL COST	CALCULATED ACCRUED	ALLOC. BOOK RESERVE	FUTURE BOOK ACCRUALS	REM. LIFE	ANNUAL ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	VOR CURVE 6-SQ					
2015	2,206,062.35	183,831	40,444	2,165,618	5.50	393,749
	2,206,062.35	183,831	40,444	2,165,618		393,749
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	5.5	17.85



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T12.00 - HOLYROOD GAS TURBINE - COMBUSTOR OVERHAUL

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	VOR CURVE 12-SQ SALVAGE PERCENT	~				
2015	3,088,487.29	128,697	56,622	3,031,865	11.50	263,640
	3,088,487.29	128,697	56,622	3,031,865		263,640
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	г 11.5	8.54



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V01 - VACUUM CLEANING SYSTEM

YEAR (1)	ORIGINAL C COST (2)	ALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA 60 ALVAGE PERCENT 0)-R4				
1969 1980	23,574.00 48,877.00	16,840 27,819	23,574 43,406	5,471	25.85	212
	72,451.00	44,659	66,980	5,471		212
	COMPOSITE REMAINING	G LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	25.8	0.29



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V02 - VALVES - PENSTOCK

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA LVAGE PERCENT					
1967	1,415,205.48	993,245	804,476	723,946	22.76	31,808
1970	547,228.00	364,875	295,530	295,476	24.87	11,881
1975	14,300.75	8,654	7,009	8,436	28.58	295
1977	104,000.00	60 , 255	48,803	63,517	30.13	2,108
1982	22,218.67	11,393	9,228	14,768	34.14	433
1985	2,204,894.06	1,038,979	841,518	1,539,768	36.64	42,024
1988	2,432.20	1,042	844	1,783	39.21	45
2001	194,935.91	45 , 378	36,754	173,777	50.99	3,408
2003	236,497.01	47,625	38,574	216,843	52.88	4,101
2004	211,351.90	39,226	31,771	196,489	53.83	3,650
2005	212,317.84	36,053	29,201	200,102	54.78	3,653
2006	176 , 897.79	27,217	22,044	169,006	55.74	3,032
2007	129,795.39	17 , 878	14,480	125,699	56.71	2,217
2008	1,875,177.71	228,381	184,977	1,840,215	57.67	31,909
2015	220,507.28	2,167	1,755	236,393	54.45	4,341
	7,567,759.99	2,922,368	2,366,964	5,806,217		144,905

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 40.1 1.91



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V03 - VEHICLES - 1 TON

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
2013	51,647.92	13,719	16,140	27 , 761	5.50	5,047
	51,647.92	13,719	16,140	27 , 761		5,047
C	OMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	5.5	9.77



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V04 - VEHICLES - 3/4 TON AND UNDER

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	OR CURVE IOWA	7-1.3				
	VAGE PERCENT					
2004	21,073.00	15,174	17,912			
2007	256,097.59	161,085	217,683			
2008	75,904.47	45 , 901	64,519			
2009	452,574.79	264,335	384,689			
2010	817,731.47	450,803	695 , 072			
2011	720,937.71	354,546	612 , 797			
2012	750,380.31	302,513	637 , 823			
2013	282,039.93	83,564	183,264	56 , 470	4.56	12,384
2014	718,833.74	130,059	285,232	325 , 777	5.51	59 , 125
2015	1,071,596.79	73,779	161,805	749,052	5.67	132,108
	5,167,169.80	1,881,759	3,260,796	1,131,298		203,617

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.6 3.94



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V05 - VEHICLES - BOOMS/BODIES/CRANES/CAB/CHASSIS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	OR CURVE IOWA					
2000	23,000.00	14,825	19,137	413	2.90	142
2002	130,045.00	79 , 772	102,972	7 , 566	3.34	2,265
2003	202,565.49	121 , 675	157 , 062	15,119	3.52	4,295
2004	466,287.00	274 , 468	354 , 293	42,051	3.69	11,396
2005	634,697.00	364 , 157	470,066	69,426	3.90	17,802
2006	313,439.36	173,396	223,825	42,598	4.19	10,167
2007	1,464,993.85	765 , 826	988 , 554	256,691	4.62	55 , 561
2008	610,927.99	294,265	379 , 847	139,442	5.20	26,816
2009	1,838,387.86	793 , 035	1,023,677	538 , 953	5.91	91,193
2010	746,610.15	278 , 705	359 , 762	274,857	6.73	40,841
2011	1,663,998.12	516,255	666,399	747,999	7.62	98,163
2012	1,991,867.42	488,168	630,144	1,062,943	8.54	124,466
2013	1,322,985.14	233,342	301,206	823,331	9.51	86,575
2014	976,501.08	103,753	133,928	696,098	10.50	66,295
2015	2,568,240.80	103,038	133,005	2,050,000	10.09	203,171
	14,954,546.26	4,604,680	5,943,877	6,767,488		839,148

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 8.1 5.61



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V06 - VEHICLES - CARS, STATION WAGONS AND VANS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIVO	R CURVE IOWA	6-L3				
NET SAL	VAGE PERCENT	+15				
2006	21,051.00	14,911	17,893			
2007	31,861.28	21,395	27,082			
2008	238,285.56	151,569	202,543			
2009	236,872.66	143,623	201,342			
2010	286,725.00	166,946	243,716			
2011	280,782.15	151,552	238,665			
2012	203,510.02	93,122	172,984			
2013	276,271.38	94,714	234,831			
2014	220,013.03	46,440	177,625	9,386	4.51	2,081
	1,795,372.08	884,272	1,516,681	9,385		2,081

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.5 0.12



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT V07 - VEHICLES - DUMP TRUCKS

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	OR CURVE IOWA ALVAGE PERCENT					
2003	11,535.00	8,814	11,535	1,730-		
	11,535.00	8,814	11,535	1,730-		
(COMPOSITE REMAIN:	ING LIFE AND	ANNUAL ACCRUAI	RATE, PERCENT	г 0.0	0.00



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W01 - WATER REGULATING STRUCTURES

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
SURVIV	OR CURVE IOWA	65-S4				
NET SA	ALVAGE PERCENT	-8				
1966	781,460.65	617,530	407,033	436,945	17.44	25,054
1967	2,271,900.00	1,767,390	1,164,940	1,288,712	18.18	70,886
1979	1,923,424.16	1,161,999	765,909	1,311,389	28.64	45,789
1980	22,093.09	12,995	8,565	15,296	29.60	517
1983	1,760,835.28	949,672	625,957	1,275,745	32.54	39,205
1985	5,067.02	2,566	1,691	3,781	34.52	110
1999	50,969.18	13,974	9,211	45,836	48.50	945
2003	15,340,515.10	3,186,145	2,100,085	14,467,671	52.50	275,575
2010	295,473.83	27,003	17,798	301,314	59.50	5,064
	22,451,738.31	7,739,274	5,101,189	19,146,688		463,145

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 41.3 2.06



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W02 - WATER SUPPLY SYSTEMS

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SIIRVIV	OR CURVE IOWA	30-T.4				
	LVAGE PERCENT					
NEI OII	DVIIOD I DICODICI	Ŭ				
1966	36,616.00	36,461	34,844	4,701	2.34	2,009
1967	10,039.39	9,939	9,498	1,345	2.50	538
1968	7,289.13	7,174	6,856	1,016	2.66	382
1969	31,622.36	30 , 931	29,560	4,592	2.83	1,623
1970	5,778.10	5 , 616	5,367	873	3.00	291
1971	9,746.00	9,410	8,993	1,533	3.18	482
1976	13,007.24	12,086	11,550	2,498	4.19	596
1977	32,252.39	29 , 701	28,384	6,449	4.42	1,459
1978	52,656.72	48,073	45 , 942	10,927	4.64	2,355
1979	166,185.56	150,464	143,793	35 , 687	4.85	7,358
1980	15,467.03	13,887	13,271	3,433	5.06	678
1981	16,651.69	14,843	14,185	3 , 799	5.24	725
1982	72,242.09	63 , 978	61,141	16,880	5.40	3,126
1985	326,739.18	284,303	271,698	81,180	5.83	13,925
1986	10,359.04	8,954	8,557	2,631	5.99	439
1987	40,022.75	34,291	32,771	10,454	6.20	1,686
1988	93,343.70	79 , 069	75 , 563	25,248	6.47	3,902
1989	135,698.19	113,238	108,217	38,337	6.82	5,621
1990	44,904.42	36 , 777	35,146	13,351	7.25	1,842
1991	28,308.25	22,655	21,651	8,922	7.77	1,148
1992	90,973.91	70,840	67,699	30,553	8.37	3 , 650
1993	18,883.67	14,249	13,617	6 , 777	9.04	750
1995	139,943.07	98,139	93,788	57 , 351	10.52	5,452
1996	39,359.32	26,483	25,309	17,199	11.31	1,521
1999	18,116.97	10,540	10,073	9,493	13.84	686
2003	1,242,574.09	556 , 922	532,230	809 , 750	17.55	46,140
2005	38,828.51	14,663	14,013	27 , 922	19.51	1,431
2006	25,217.49	8,624	8,242	18,993	20.50	926
2007	53,657.88	16,419	15,691	42,260	21.50	1,966
2008	54,235.70	14,644	13,995	44,580	22.50	1,981
2011	9,250.00	1,498	1,432	8,558	25.50	336
2013	269,116.45	24,220	23,146	267,500	27.50	9,727
2015	245,467.25	4,666	4,459	260,646	27.83	9,366
	3,394,553.54	1,873,757	1,790,681	1,875,437		134,117

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 14.0 3.95



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W03 - WATER SYSTEMS - FEED

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
SURVIV	OR CURVE IOWA	55-R2.5				
NET SA	LVAGE PERCENT	-8				
1968 1971 1980	329,755.00 1,732,845.00 1,646,391.76	245,929 1,231,766 976,019	354,161 1,773,858 1,405,559	1,974 97,615 372,544	17.02 18.80 24.81	116 5,192 15,016
2013 2015	170,885.85 2,651,382.05	7,886 34,935	11,357 50,310	173,200 2,813,183	52.65 40.32	3,290 69,771
2010	6,531,259.66	2,496,535	3,595,245	3,458,516	10.52	93,385

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 37.0 1.43



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W04 - WATER TREATMENT

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	VOR CURVE IOWA ALVAGE PERCENT					
1968	65,708.12	48,097	69,651			
1969	1,663,202.51	1,198,836	1,762,995			
1971	204,537.00	142,699	216,809			
1988	57,541.66	26,804	57 , 967	3,027	30.83	98
1990	15,137.27	6 , 587	14,245	1,801	32.42	56
1991	2,681,164.08	1,124,934	2,432,817	409,217	33.23	12,315
1995	5,359.72	1,907	4,124	1,557	36.54	43
1997	2,409,124.70	778,640	1,683,911	869 , 761	38.23	22,751
2012	659,794.84	41,837	90,478	608,905	51.71	11,775
2015	4,160,003.20	53,797	116,343	4,293,261	40.32	106,480
	11,921,573.10	3,424,138	6,449,340	6,187,528		153,518
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAI	RATE, PERCEN	T 40.3	1.29



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT A04.1 - AUXILIARY POWER SYSTEMS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBA	IM SURVIVOR CURVI BLE RETIREMENT YI ALVAGE PERCENT	EAR 3-2021	=			
2010	620,866.42	327,484	313,020	326,472	5.24	62,304
	620,866.42	327,484	313,020	326,472		62,304
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	1 5.2	10.04



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B01.1 - BATTERY AND POWER SYSTEMS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABLI	SURVIVOR CURV E RETIREMENT Y VAGE PERCENT	EAR 3-2021				
1968 2013	62,070.09 44,556.86	54,810 14,837	35,509 9,612	28,423 36,282	3.69 5.17	7,703 7,018
	106,626.95	69,647	45,121	64,705		14,721

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.4 13.81



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B02.1 - BOILER SYSTEM - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTER:	IM SURVIVOR CURV BLE RETIREMENT Y ALVAGE PERCENT	E IOWA 40-R EAR 3-2021	3	ν	(-)	(1)
1976	6,373.00	6,092	5,908	975	4.34	225
1979	20,390.00	19,269	18,687	3,334	4.56	731
1980	17,650,550.81	16,614,958	16,113,472	2,949,123	4.62	638,338
1983	2,205,577.30	2,048,993	1,987,149	394,874	4.79	82,437
1984	88,778.32	82,106	79,628	16,253	4.83	3,365
1985	36,723.56	33 , 799	32,779	6,882	4.87	1,413
1986	2,072.08	1,897	1,840	398	4.91	81
1987	138,230.21	125,891	122,091	27,198	4.94	5,506
1989	42,488.95	38,240	37,086	8,802	5.00	1,760
1992	164,446.23	144,982	140,606	36,996	5.06	7,311
1996	9,711.53	8,252	8,003	2,485	5.13	484
1997	955,842.08	803,209	778,966	253,343	5.14	49,289
1999	181,052.03	148,189	143,716	51,820	5.16	10,043
2001	408,654.76	323,746	313,974	127,373	5.18	24,589
2007	3,620,559.38	2,414,864	2,341,977	1,568,227	5.22	300,427
2008	4,217,954.40	2,678,570	2,597,723	1,957,668	5.22	375,032
2009	1,322,059.11	789 , 030	765,215	662,609	5.23	126,694
2010	1,357,501.38	749 , 486	726,864	739 , 237	5.23	141,346
2011	714,762.78	356 , 159	345,409	426,535	5.23	81,555
2012	1,376,773.06	593 , 398	575 , 488	911,427	5.24	173,936
2013	82 , 687.17	28 , 766	27 , 898	61,404	5.24	11,718
2014	376,808.77	90 , 567	87,833	319,120	5.24	60,901
2015	93,433.07	8,819	8,553	92,355	5.22	17,693
	35,073,429.98	28,109,282	27,260,865	10,618,440		2,114,874

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.0 6.03



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B05.1 - BUILDINGS - OTHER - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

WEAD.	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
INTERIM	SURVIVOR CURV	E IOWA 50-R	.0.5			
PROBABL	E RETIREMENT Y	EAR 3-2021				
NET SAL	VAGE PERCENT	-3				
2004	119,618.36	82,847	82,613	40,594	5.12	7,929
2006	594,079.01	385,908	384,816	227,085	5.13	44,266
2008	113,363.32	67,301	67,111	49,653	5.13	9,679
2010	176,461.62	91,230	90,972	90 , 783	5.13	17 , 696
2011	296,727.90	138,154	137,762	167,867	5.14	32,659
	1,300,250.21	765,440	763,274	575,983		112,229

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.1 8.63



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT B06.1 - BUILDINGS - METAL - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAE	M SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	EAR 3-2021				
2009	72,011.04	40,981	39 , 551	34,620	5.24	6,607
	72,011.04	40,981	39,551	34,620		6,607
(COMPOSITE REMAIN:	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	г 5.2	9.17



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C01.1 - CABLES - TELECONTROL - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABI	M SURVIVOR CURVI LE RETIREMENT YI LVAGE PERCENT	EAR 3-2021	=			
2004	89,749.79	63 , 572	63,121	29,321	5.20	5,639
	89,749.79	63,572	63,121	29,321		5,639
С	OMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	г 5.2	6.28



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C03.1 - CABLES - UNDERGROUND - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	IM SURVIVOR CURVI BLE RETIREMENT YI ALVAGE PERCENT	EAR 3-2021	4			
1980	544,049.00	540 , 859	481,561	138,655	5.20	26,664
	544,049.00	540,859	481,561	138,655		26,664
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	r 5.2	4.90



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C04.1 - CABLES - ABOVE GROUND - HOLYROOD

YEAR	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBA	IM SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	EAR 3-2021				
1980	629,827.19	625,747	560,583	157,420	5.16	30,508
	629,827.19	625,747	560,583	157,420		30,508
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	г 5.2	4.84



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C07.1 - CHEMICAL FEED SYSTEMS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
PROBABLE	SURVIVOR CURV E RETIREMENT Y VAGE PERCENT	EAR 3-2021				
1987	8,841.21	7,929	8,054	1,318	5.08	259
1995	68,322.84	57 , 694	58,602	13,820	5.20	2,658
	77,164.05	65,623	66,656	15,138		2,917

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 3.78



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C12.1 - CONDENSERS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTERIM	SURVIVOR CURV	E IOWA 55-R	.3			
	E RETIREMENT Y					
1980	2,042,518.00	1,828,512	1,896,994	206,800	5.09	40,629
1997	51,553.63	41,313	42,860	10,240	5.21	1,965
2008	235,595.08	142,620	147,962	94,701	5.24	18,073
	2,329,666.71	2,012,445	2,087,816	311,741		60,667

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.1 2.60



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT C15.1 - CONTROL, METER, RELAYING - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAE	M SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	EAR 3-2021				
2012	119,879.96	47,842	48,437	71,443	5.24	13,634
	119,879.96	47,842	48,437	71,443		13,634
(COMPOSITE REMAIN:	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCEN'	r 5.2	11.37



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT E03.1 - ENVIRONMENTAL EQUIPMENT - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABI	I SURVIVOR CURV E RETIREMENT Y VAGE PERCENT	EAR 3-2021				
2000	263,583.82	196,222	199,368	64,216	5.17	12,421
2001	2,680.00	1,960	1,991	689	5.18	133
2003	815,776.03	572 , 593	581 , 775	234,001	5.19	45,087
2008	150,049.97	88,006	89,418	60,632	5.21	11,638
2014	48,171.15	10,681	10,852	37,319	5.23	7,136
	1,280,260.97	869,462	883,404	396,857		76,415

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 5.97



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F03.1 - FIRE FIGHTING EQUIPMENT - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
INTERIM	SURVIVOR CURV	E IOWA 50-R	.4			
PROBABLI	E RETIREMENT Y	EAR 3-2021				
NET SAL	JAGE PERCENT	0				
1968	76,937.47	69,733	60,373	16,564	4.43	3,739
1980	506,992.00	442,315	382,942	124,050	5.03	24,662
2009	213,220.13	117,951	102,118	111,102	5.25	21,162
2003	210/220.10	11//301	102/110	111,102	0.20	21,102
	797,149.60	629,999	545,433	251,716		49,563

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.1 6.22



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F04.1 - FOOTINGS AND FOUNDATIONS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAB	M SURVIVOR CURVE LE RETIREMENT YE LVAGE PERCENT	EAR 3-2021	3			
1987	56,612.79	51,569	46,927	14,214	5.19	2,739
	56,612.79	51,569	46,927	14,214		2,739
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCEN	r 5.2	4.84



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT F06.1 - FUEL SYSTEMS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAE	M SURVIVOR CURVIBLE RETIREMENT YEALVAGE PERCENT	EAR 3-2021				
1980	4,294,944.43	4,097,952	3,707,897	1,059,491	5.02	211,054
1991	76,747.60	69,343	62,743	22,447	5.11	4,393
1992	37,066.15	33,239	30,075	11,068	5.12	2,162
1995	37,257.20	32,563	29,464	11,891	5.13	2,318
2001	712,705.67	574 , 776	520 , 067	271,036	5.16	52,526
2008	775,913.22	501,764	454,005	407,259	5.18	78 , 621
2010	2,366,125.59	1,330,665	1,204,008	1,422,391	5.19	274,064
2012	3,379,559.02	1,487,432	1,345,853	2,405,458	5.19	463,479
2013	1,628,833.20	578 , 182	523,149	1,284,856	5.19	247,564
	13,309,152.08	8,705,916	7,877,261	6,895,898		1,336,181

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 10.04



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G01.1 - GAS TURBINE SYSTEMS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBA	IM SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	AR 3-2021				
1987	24,645.16	21,192	23,906	1,232	5.05	244
	24,645.16	21,192	23,906	1,232		244
	COMPOSITE REMAINI	NG LIFE AND	ANNUAL ACCRUA	L RATE, PERCEN'	r 5.0	0.99



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G03.1 - GENERATORS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTERIM	SURVIVOR CURV	E IOWA 65-S	3			
PROBABL	E RETIREMENT Y	EAR 3-2021				
NET SAL	VAGE PERCENT	-8				
1987	846.63	772	687	227	5.22	43
2008	78,948.91	50,156	44,661	40,604	5.25	7,734
2012	210,136.55	90,779	80,832	146,115	5.25	27,831
2012	777,505.62	270,872	241,193	598,513	5.25	114,002
2013	111,303.02	210,012	241,193	390,313	J. 2J	114,002
	1,067,437.71	412,579	367,373	785 , 459		149,610

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.3 14.02



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT G06.1 - GOVENORS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTER	IM SURVIVOR CURVE	E IOWA 45-S	4			
	BLE RETIREMENT YE					
NET S	ALVAGE PERCENT	-14				
1980	218,343.00	218,755	198,381	50,530	4.76	10,616
1999	922,781.05	798,046	723,721	328,249	5.25	62,524
2003	1,003,258.64	805,438	730,424	413,291	5.25	78,722
	2,144,382.69	1,822,239	1,652,526	792 , 071		151,862
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	5.2	7.08



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 102.1 - INSTUMENTATION - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABI	M SURVIVOR CURVI LE RETIREMENT YI LVAGE PERCENT	EAR 3-2021				
1980	2,307,659.57	1,912,819	1,881,919	425,741	4.57	93,160
1987	470,718.02	380,957	374,803	95 , 915	4.67	20,539
1988	112,204.97	90,369	88,909	23,296	4.69	4,967
1989	32,021.39	25,668	25,253	6,768	4.70	1,440
1994	655,548.30	509,086	500,862	154,686	4.77	32,429
2004	1,639,203.46	1,104,413	1,086,572	552,631	4.91	112,552
2005	1,156,534.93	757,808	745,567	410,968	4.93	83,361
2008	344,737.06	200,178	196,944	147,793	4.99	29,618
2014	8,698.00	1,930	1,899	6,799	5.12	1,328
	6,727,325.70	4,983,228	4,902,728	1,824,598		379,394

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.8 5.64



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 105.1 - INVERTERS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABLE	SURVIVOR CURV E RETIREMENT Y /AGE PERCENT	EAR 3-2021	1.5			
2000 2008	18,910.94 5,505.60	15,304 3,512	14,372 3,298	6,052 2,648	4.74 5.10	1,277 519
	24,416.54	18,816	17,670	8,700		1,796

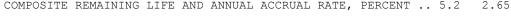
COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 4.8 7.36



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT L03.1 - LAND IMPROVEMENTS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABI	M SURVIVOR CURVI LE RETIREMENT Y LVAGE PERCENT	EAR 3-2021	3			
1989	5,765.52	4,807	4,965	801	5.22	153
	5,765.52	4,807	4,965	801		153
C	OMPOSITE REMAIN	TNC LIFE AND	ANNIIAT. ACCRIIA	T. DATE DEDCEM	r 5.2	2 65





NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M02.1 - MARINE TERMINAL - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBA	IM SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	AR 3-2021				
1996 2009	346,931.75 121,591.12	289,763 71,299	288,055 70,879	79,693 58,008	5.24 5.25	15,209 11,049
	468,522.87	361,062	358,934	137,700		26,258
	COMPOSITE REMAINI	NG LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	1 5.2	5.60



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT M10.1 - MISCELLANEOUS UNITS OF PROPERTY - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)		
INTERIM SURVIVOR CURVE IOWA 22-R1.5 PROBABLE RETIREMENT YEAR 3-2021								
	ALVAGE PERCENT	0 2021						
2011	174,380.59	78 , 989	81,721	92,660	5.06	18,312		
2014	1,437,566.30	314,813	325,701	1,111,866	5.10	218,013		
	1,611,946.89	393,802	407,422	1,204,525		236,325		
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	5.1	14.66		



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT 002.1 - OFFICE FURNITURE - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAI	IM SURVIVOR CURVE BLE RETIREMENT YE ALVAGE PERCENT	AR 3-2021				
1998	58,975.29	51,603	48,674	10,302	2.50	4,121
	58,975.29	51,603	48,674	10,302		4,121
	COMPOSITE REMAINI	NG LIFE AND	ANNUAL ACCRUAI	L RATE, PERCEN'	г2.5	6.99



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P10.1 - POWERHOUSE - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
	IM SURVIVOR CURV					
	BLE RETIREMENT Y					
1980	8,874,021.38	8,338,606	7,826,979	1,756,964	5.19	338,529
1987	29,410.44	26,797	25,153	6,610	5.21	1,269
	8,903,431.82	8,365,403	7,852,132	1,763,575		339,798
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	5.2	3.82



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT P12.1 - PROTECTIVE CONTROL AND RELAY PANELS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAE	M SURVIVOR CURVE BLE RETIREMENT Y ALVAGE PERCENT	EAR 3-2021	3			
2008	106,685.08	62,746	65 , 531	41,154	5.21	7 , 899
	106,685.08	62,746	65 , 531	41,154		7 , 899
(COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAI	L RATE, PERCENT	г 5.2	7.40



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT R13.1 - ROADS - HOLYROOD

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABL	SURVIVOR CURV E RETIREMENT Y VAGE PERCENT	EAR 3-2021	4			
1980	1,859.00	1,750	1,635	373	5.16	72
	1,859.00	1,750	1,635	373		72
CO	MPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCEN	T 5.2	3.87



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S07.1 - STACKS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
PROBABI	1 SURVIVOR CURVI LE RETIREMENT YE LVAGE PERCENT	EAR 3-2021				
1968	2,511,250.83	2,447,065	2,153,213	558,938	4.81	116,203
1980	1,698,208.00	1,599,121	1,407,093	426,972	5.11	83,556
1992	511,777.49	451 , 876	397 , 613	155,107	5.22	29,714
2005	2,016,821.65	1,451,640	1,277,322	900,845	5.25	171,590
2011	261,850.00	130,523	114,849	167,949	5.25	31,990
2012	2,182,691.48	942,923	829,695	1,527,612	5.25	290,974
2014	19,519.33	4,685	4,122	16,959	5.25	3,230
	9,202,118.78	7,027,833	6,183,907	3,754,381		727,257

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 7.90



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT S08.1 - STATIC EXCITATION SYSTEM - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTER	IM SURVIVOR CURV	E IOWA 32-R	.4			
	BLE RETIREMENT Y					
NET S	ALVAGE PERCENT	-6				
1968	1,115,787.92	1,172,386	813,916	368,819	0.28	368,819
2000	329,058.01	261,217	181,347	167,454	5.15	32,515
2001	16,588.65	12,936	8,981	8,603	5.17	1,664
	1,461,434.58	1,446,539	1,004,244	544,877		402,998
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	1.4	27.58



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T03.1 - TOOLS AND EQUIPMENT - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBABLI	SURVIVOR CURV E RETIREMENT Y /AGE PERCENT	EAR 3-2021				
2001	30,649.10	22,502	22,162	8,487	5.25	1,617
2010	320,612.40	164,035	161,554	159,059	5.25	30,297
	351,261.50	186,537	183,716	167,546		31,914

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 9.09



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T05.1 - TRANSFORMERS - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBAI	IM SURVIVOR CURVI BLE RETIREMENT YE ALVAGE PERCENT	EAR 3-2021	3			
2013	126,690.40	43,376	38,007	96,285	5.24	18,375
	126,690.40	43,376	38,007	96,285		18,375
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUA	L RATE, PERCENT	r 5.2	14.50



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT T09.1 - TURBINES - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
PROBA	IM SURVIVOR CURV BLE RETIREMENT Y ALVAGE PERCENT	EAR 3-2021				
1980	6,398,098.00	6,322,366	5,612,011	1,681,821	5.08	331,067
1995	1,579.76	1,429	1,268	533	5.18	103
2006	611,180.01	447,464	397,189	299,556	5.22	57 , 386
2007	1,705,004.00	1,198,760	1,064,072	879,633	5.22	168,512
2009	988,302.25	622,279	552,362	574,303	5.22	110,020
2010	430,013.25	249,931	221,850	268,365	5.23	51,313
2012	1,691,863.26	769,272	682,840	1,245,884	5.23	238,219
2013	10,126,535.70	3,713,324	3,296,111	8,248,140	5.23	1,577,082
2014	5,124,796.25	1,295,406	1,149,860	4,692,408	5.23	897,210
	27,077,372.48	14,620,231	12,977,563	17,890,642		3,430,912
	COMPOSITE REMAIN	ING LIFE AND	ANNUAL ACCRUAL	RATE, PERCENT	5.2	12.67



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W03.1 - WATER SYSTEMS - FEED - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

YEAR (1)	ORIGINAL COST (2)	CALCULATED ACCRUED (3)	ALLOC. BOOK RESERVE (4)	FUTURE BOOK ACCRUALS (5)	REM. LIFE (6)	ANNUAL ACCRUAL (7)
INTERI	M SURVIVOR CURV	E IOWA 55-R	2.5			
PROBABI	LE RETIREMENT Y	EAR 3-2021				
NET SAI	LVAGE PERCENT	-8				
1979	1,107,382.84	1,040,222	887,011	308,962	5.07	60,939
1980	1,024,814.00	959,385	818,080	288,719	5.08	56,834
2014	95,600.00	22,893	19,521	83 , 727	5.23	16,009
2015	590,837.65	56,153	47,882	590,222	5.18	113,942
	2,818,634.49	2,078,653	1,772,494	1,271,631		247,724

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.1 8.79



NEWFOUNDLAND AND LABRADOR HYDRO

ACCOUNT W04.1 - WATER TREATMENT - HOLYROOD

CALCULATED REMAINING LIFE DEPRECIATION ACCRUAL RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2016

	ORIGINAL	CALCULATED	ALLOC. BOOK	FUTURE BOOK	REM.	ANNUAL
YEAR	COST	ACCRUED	RESERVE	ACCRUALS	LIFE	ACCRUAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)
INTERI	M SURVIVOR CURV	E IOWA 55-R	R2.5			
PROBAB	LE RETIREMENT Y	EAR 3-2021	-			
NET SA	LVAGE PERCENT	-6				
1969	177,015.88	167,637	157,358	30,279	4.90	6,179
	•	•	•	•		•
1979	5 , 098.00	4,700	4,412	992	5.07	196
1980	622 , 363.00	571 , 839	536 , 775	122,930	5.08	24,199
1983	18,823.46	17,097	16,049	3,904	5.11	764
1995	9,354.00	7,867	7,385	2,530	5.18	488
1996	224,794.62	187,073	175,602	62 , 680	5.19	12,077
2011	1,418,153.65	691 , 898	649,473	853 , 770	5.23	163,245
2013	317,359.44	108,207	101,572	234,829	5.23	44,900
	2,792,962.05	1,756,318	1,648,626	1,311,914		252,048

COMPOSITE REMAINING LIFE AND ANNUAL ACCRUAL RATE, PERCENT .. 5.2 9.02



APPENDIX I ADDITIONAL EVIDENCE OF LARRY KENNEDY



NEWFOUNDLAND AND LABRADOR HYDRO

IN THE MATTER OF

AN APPLICATION BY NEWFOUNDLAND AND LABRADOR HYDRO BEFORE THE NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

EVIDENCE

OF

LARRY E. KENNEDY RELATED TO THE CONVERSION TO GROUP ACCOUNTING METHODS

JULY, 2017



DEPRECIATION EVIDENCE OF LARRY KENNEDY

Introduction and Overview

- Q1. Please state your name and business address.
- A1. My name is Larry Kennedy and my business address is Suite 277, 200 Rivercrest Drive S.E., Calgary, Alberta, T2C 2X5.
- Q2. Please state your occupation.
- A2. I am Vice President of Concentric Advisors ULC.

Q3. Have you previously testified before this or any other regulatory boards?

A3. Yes, I have testified on numerous occasions before regulatory boards throughout Canada as summarized in my Curriculum Vitae, attached to this evidence. Also, as summarized in my Curriculum Vitae, I have prepared a number of additional depreciation reviews that have resulted in negotiated settlements or where appearances were not required.

Of specific note, I have presented expert reports and testimony on depreciation-related matters on behalf of Newfoundland and Labrador Hydro ("NL Hydro") to the Newfoundland and Labrador Board of Commissioners of Public Utilities ("PUB") on three (3) prior occasions.

Q4. Please state the purpose of this evidence.

A4. Concentric Advisors was retained by NL Hydro to complete a full and complete depreciation study for inclusion as part of a regulatory application to the PUB. Additionally, Concentric Advisors was asked to provide a response to a PUB directive resulting from the last depreciation study and negotiated settlement application relating to the historical NL Hydro departure from the use of typical regulated group depreciation accounting. This evidence discusses the issues and

concepts related to Group Depreciation and provides a recommendation to convert to group depreciation accounting. This recommendation was used in the development of the depreciation rates that are determined in the Concentric Advisors Depreciation Study.

Q5. Please summarize the PUB Directive.

A5. In PUB Order No P.U. 40(2012), the Board directed as follows:

"In accordance with the terms of the Settlement Agreement Hydro has agreed to provide, at the time of its next depreciation study, a report, on a limited number of groups of property, comparing the agreed methodology to the application of depreciation on a pure group basis. The Board notes that the findings of this report would not be applied retroactively but rather would provide information for future rate making purposes. In the Board's view this is a reasonable approach to resolve what appears to have been a difference in expert opinion on this specific issue. The Board will accept this recommendation."

Q6. Please describe the current NLHydro accounting practices.

A6. At present, the current NL Hydro practice would be described as a "Hybrid Unit Depreciation" practice. Within the current accounting system (JD Edwards), each asset is ascribed with a life estimate. The accounting system then prepares the depreciation expense entries utilizing a remaining life calculation on each asset, with the associated depreciation expense tracked against each specific asset. At the time of retirement of the asset, the original cost of the asset is removed from the gross plant in service ledger. Additionally the accumulated depreciation expense associated with the specific asset is removed from the accumulated depreciation account. The difference between the original cost and the accumulated depreciation expense is booked as a loss to the income statement on the period of the retirement transactions. As the current system will not allow for the over depreciation of an asset, the entry to the income statement is virtually always a loss, absent any net salvage considerations.

¹ Order No. P.U. 40(2012), page 3, lines 28-35.

Currently, the annual charges to the income statement (as described above) are large enough to warrant inclusion in the revenue requirement. As such, the retirement entries need to be forecast for all test periods, and the associated gain and loss for each forecast retirement transaction requires estimation and inclusion in the each test year's revenue requirement. To the extent that the current practice of estimating the forecast losses, there exists for the potential of material over or under statement of the company's net income.

While the above discussion describes a unit depreciation process, there are some aspects of a more traditional grouping process in the current NL Hydro practices. Average service life estimates and retirement dispersion curves are developed on the basis of combining all of the average age and retirement characteristics of the overall UOP grouping rather than on each individual asset. The same depreciation rate is then applied to all assets within the UOP grouping. In this manner the depreciation rate does recognize a weighted probability of retirement dispersion providing for potential retirement of the asset either prior to or later than the average service life estimate.

Q7. Please outline the concept of Group Depreciation Accounting

A7. Group depreciation refers to the widely accepted procedure for rate regulated utilities where, rather than depreciating each item by itself (unit depreciation), a group containing homogenous units of plant which are alike in character, used in the same manner throughout the utilities service territory, and operated under the same general conditions is formed. Group depreciation recognizes that there will be differing lives for individual units within the group. For example, poles are often combined into a single group. Some poles will be retired due to storms or third party damage (for example automobile accidents, for strikes by farm equipment, etc.). Others will decay, while some will be displaced due to road relocations, and some will be replaced due to the need to provide underground service. However they are combined into the same group because they are homogenous units. With group depreciation, the entire group is considered as the asset being depreciated,

therefore, one depreciation rate is applied to the entire group and only one accumulated depreciation account is tracked for the entire group.

Under group depreciation no gain or loss is recognized for retirement of individual assets, as only one depreciation calculation is made on the entire group. Upon retirement of an asset from the group, the total original cost of the asset is debited to the accumulated depreciation account and credited to the asset account. Any gross salvage received (if applicable) for the retired asset is credited to the accumulated depreciation account and any cost of removal is debited to the accumulated depreciation account and any cost of removal is debited to the accumulated depreciation account. Under group depreciation, since the accumulated depreciation relates to the entire group rather than to specific assets within the group, no gain or loss is recognized. This assumes that the group depreciation rate is accurate for the group as a whole and that the cost of the retired asset, net of gross salvage and cost of removal, is being fully provided for in the accumulated depreciation account.

Details of the Review

- Q8. Please describe the review that was undertaken to comply with negotiated settlement agreement.
- A8. The negotiated settlement determined that the following Units of Plant (accounts) be studied for review:
 - C11 Computers
 - R14 Routers and LAN
 - S03 Servers
 - S05 Software
 - V04 Vehicles 3/4 ton and under
 - V06 Vehicles Cars, Stations Wagons and Vans

In addition to the above accounts, two additional accounts were reviewed, in order

to analyze the impacts when applied to longer life accounts with a retirement dispersion considered in the depreciation rates, and with a significantly larger level of investment as compared to the accounts as agreed to in negotiated settlement process. The two additional accounts were:

- C13 Conductor
- P07 Poles-Wood

Q9. Please further explain why it was necessary to include the two additional accounts in the analysis.

A9. The accounts that were selected during the negotiated settlement process were all short life accounts and most were subjected to a Square lowa curve. The use of Square lowa curves results in an analysis where the benefits of group accounting are eliminated due to the underlying assumption that the assets would be amortized in a method which removes any retirement dispersion. Secondly, short life accounts such as vehicles also have a limited amount of retirement dispersion, and therefore the benefits of group accounting would be reduced.

Given the above, Concentric Advisors suggested that the analysis to be completed by NLHydro should include at least two accounts that have long average service life estimates and would retire due to diverse forces of retirement.

Q10. Please summarize the results of the review.

A10. The analysis indicated that the benefits of group accounting increase as the life estimates and amount of retirement dispersion of the account increases. Consistent with this finding, the accounts that are amortized through the use of a square lowa indicated more benefit of continued use of the Hybrid approach, whereas the long life accounts such as Wood poles and Conductor were virtually neutral as to the use of the current Hybrid approach versus traditional grouping accounting approaches.

A summary of the results of the testing is presented in the following table:

	Estimate of Increase in Depreciation	on in Moving to t	he Group Account	ing Method	
UOP	Description		2013	2014	2015
C11	Computers	5-Square	(41,924.12)	507,678.91	616,991.42
R14	Routers and LAN	5-Square	9,948.78	422,351.76	571,690.71
S03	Servers	7-Square	(5,387.18)	784,970.35	842,901.91
S05	Software	7-Square	23,162.87	85,730.82	94,654.46
V04	Vehicles - 3/4 ton and Under	7-L3	9,003.03	20,784.87	165,763.57
V06	Vehicles - Cars, Station Wagons and Vans	6-L3	13,030.53	31,135.78	229,956.17
C13	Conductor	60-R3	(6,254.89)	(5,485.91)	(0.71)
P07	Poles - Wood	43-R1	(50,827.16)	(9,775.94)	20,049.82
			(49,248.14)	1,837,390.62	2,542,007.34

As noted above, the two long lived accounts indicate virtually no impact of a conversion to group accounting. I also note that as of December 31, 2015, accounts subjected to amortization accounting represent \$79 million of the approximately of the \$2.5 Billion (3.2%) of depreciable investment.

While the above analysis indicates that approximately \$79 million of investment could be subjected to higher depreciation expense with a discontinuation of the current Hybrid approach, Concentric Advisors views that changes to the approach for the amortized accounts can be made that would eliminate this issue. As discussed in the Concentric Advisors depreciation study report, it is recommended that when each vintage for each applicable amortized account reaches the complete amortization period, that vintage be fully retired irrespective of whether the associated equipment is still in service. In this manner, these accounts would be depreciated in a manner consistent with the current Hybrid approach, and the impacts noted in the table above would be virtually eliminated.

Q11. What is your Recommendation with regard to the Board Directive Based on this Review?

- A11. Based on the review as described herein, I recommend the following:
 - That NL Hydro convert to a more traditional Group Accounting and Depreciation Practice for all accounts other than Amortized accounts as discussed below;

 That amortized accounts (as noted with a Square or SQ lowa curve) be subjected to a pure amortization procedure wherein the investment in these accounts is retired when it reaches its full amortization period. All retirements in these accounts should be made only at the expiration of the amortization period.

Q12. Does this conclude your Evidence?

A12. Yes.



LARRY E. KENNEDY, CDP VICE PRESIDENT

Larry E. Kennedy, CDP Vice President

TECHNICAL SPECIALTIES

- Public Utility Plant Depreciation
- Public Utility Plant Accounting

PERSONAL INFORMATION

- Diploma, Applied Arts Business Administration, Northern Alberta Institute of Technology, 1978
- Member, Society of Depreciation Professionals
- Certified Depreciation Professional

EXPERIENCE

Mr. Kennedy joined Gannett Fleming, Inc. in January 1999 and was Vice President of Gannett Fleming Canada ULC. Mr. Kennedy is now Vice President of Concentric Advisors UCL. His responsibilities include the assembly of data, the preparation and review of depreciation studies, advice to clients regarding asset retirement obligation accounting, plant accounting issues, and provision of general regulatory litigation support.

Representative assignments include:

REPRESENTATIVE PROJECT EXPERIENCE

- AltaGas Utilities Inc.: A number of depreciation studies have been completed, which
 included the assembly of basic data from the Company's accounting systems, statistical
 analysis of retirements for service life and net salvage indications, discussions with
 management regarding the outlook for property, and the calculations of annual and
 accrued depreciation. The studies were prepared for submission to the Alberta Energy
 and Utilities Board. Mr. Kennedy has appeared before the Alberta Utilities Commission
 on behalf of AltaGas on a number of occasions.
- AltaLink LP: An initial study was developed for submission to the Alberta Utilities Commission ("AUC") in 2002. The study included the estimation of service life characteristics, and the estimation of net salvage requirements for all electric transmission assets. A net salvage study and technical update was also filed with the Board in 2004. Since 2004 additional depreciation studies were filed in 2005, 2010 and 2012, and 2014. The 2010, 2012, and 2014 studies included a number of provisions in order to ensure compliance to Alberta's Minimum Filing Requirements for depreciation studies and for compliance to the International Financial Reporting Standards.





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- ATCO: Studies have included the development of annual and accrued depreciation rates for the electric transmission and distribution systems for the Alberta Assets of ATCO Electric, in addition to the generation, transmission, and distribution assets of Northland Utilities (NWT) Inc. and the distribution assets of Northland Utilities (Yellowknife) Inc. ATCO Electric studies were submitted to the AUC for review, while the Northland Utilities Inc. studies were submitted to the Northwest Territories Utilities Board and Yukon Electric Company Limited (YECL) was submitted to Yukon Public Utilities Board. ATCO Gas studies were prepared in 2010 and were the subject of a review by the AUC. Elements of all of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements.
- BC Hydro: This assignment included the development of an average service life study for all of the BC Hydro's electric generation, transmission, distribution and general plant assets. The study, which was prepared for submission to the British Columbia Utilities Commission ("BCUC), included development of depreciation policy for the company, development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, and the compilation of a detailed report. The assignment included the support of the study through the regulatory process. Mr. Kennedy has also completed a review of the cost allocation procedures and practices which was filed with the BCUC in 2010.
- Centra Gas Manitoba, Inc.: The study included development of annual and accrued depreciation rates for all gas plant in service. Elements of the study included a field inspection of metering and compression facilities, service buildings and other gas plant; service life analysis for all accounts using the retirement rate analysis on a combined database developed from actuarial data and data developed through the computed method; discussions with management regarding outlook; and the estimation of net salvage requirements. A similar study was completed in 2006, 2011, and 2014. The 2011 and 2014 depreciation studies were the subject of a review by the Manitoba Public Utilities Board in 2012 and 2015. Mr. Kennedy has also consulted on issues regarding IFRS compliance and required componentization.
- Enbridge Gas Distribution Inc.: Full and Comprehensive depreciation studies have been completed in 2009 and 2011. The 2009 study also included review of the company's gas storage operations. Both studies included the development of annual and accrued depreciation rates for all depreciable natural gas distribution, transmission and general plant assets. Elements of the studies included the service life analysis for all accounts using the computed mortality method of analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. Studies were prepared for submission to the Ontario Energy Board.
- Mr. Kennedy has also completed an allocation of the accumulated depreciation accounts into the amounts related to the recovery of original cost and the amounts recovered in tolls for the future removal of assets currently in service. The allocations were determined as of December 31, 2009 and were deemed by the company's external auditors to be in conformance with proper accounting standards and procedures. In 2013, a review of the reserve required for the future removal of assets currently in





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service was undertaken by Mr. Kennedy. The results of the review were summarized in evidence presented by Mr. Kennedy to the Ontario Energy Board.

- ENMAX Power Corporation: Studies have included the development of annual and accrued depreciation rates for all depreciable electric transmission assets. Elements of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. Studies were prepared for submission to the Alberta Department of Energy and more recently for submission to the Alberta Energy and Utilities Board. Similar studies have also been completed for submission for the ENMAX Electric Distribution assets for submission to the AUC. The ENMAX distribution asset assignments also included an extensive asset verification project where the plant accounting and operational asset records were verified to the field assets actually in service.
- Fortis Inc.: Studies have included the development of annual and accrued depreciation rates for the electric distribution assets in Alberta and for the generation, transmission, and distribution assets in British Columbia. The FortisBC Inc. studies were completed and filed with the BCUC in 2005, 2010, 2011 and 2015 encompassing both the FortisBC electric and natural gas companies. FortisAlberta studies were completed in 2004 (updated in 2005), 2009 and 2010. Additionally, a Technical Update was prepared for FortisAlberta in 2015 and submitted to the AUC for review. Elements of the studies included the development of average service lives using the retirement rate method of analysis, development of net salvage estimates, compliance with IFRS, and the determination of appropriate annual accrual and accrued depreciation rates.
- International Financial Reporting Standards (IFRS): Mr. Kennedy has been retained by numerous clients encompassing most Canadian Provinces and Territories. The assignments included the review of company's assets and depreciation practices to provide opinion on the compliance to the IFRS. The assignments have also included the issuance of opinion to the External Auditors of Utilities to comment on the manner in which the Utilities can minimize differences in the regulatory ledgers and the accounting records used for financial disclosure purposes. Mr. Kennedy has also presented to the Canadian Electric Association, the Society of Depreciation Professionals, the Canadian Energy Pipeline Association, and to the British Columbia Utilities Commission on this topic.
- Mackenzie Valley Pipeline Project: This assignment included the review of the proposed depreciation schedule for the proposed Mackenzie Valley Pipeline. The review included a discussion of the policies used by the company and the depreciation concepts to be included in a depreciation schedule for a Greenfield pipeline. The review was supported through appearance at the oral public hearings before the National Energy Board of Canada.
- Manitoba Hydro: A study was developed to determine the appropriate depreciation
 parameters for all electric generation, transmission and distribution assets. The study
 was submitted to the Manitoba Public Utilities Board. Elements of the study included a





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field review of electric generation and transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. A similar study was also completed in 2006 2011, and 2014. The 2011 and 2014 depreciation studies were the subject of a review by the Manitoba Public Utilities Board in 2012 and 2015. Mr. Kennedy has also consulted with Manitoba Hydro on issues regarding IFRS compliance and required componentization.

- Newfoundland and Labrador Hydro: Mr. Kennedy developed a comprehensive depreciation study that included the development of depreciation policy and rates for Newfoundland and Labrador Hydro. The study provided a significant review of the previous depreciation policy, which included use of a sinking fund depreciation method and provided justification for the conversation to the straight-line depreciation method. The study, which was prepared for submission to the Newfoundland and Labrador Utilities Commission, included a significant amount of discussion regarding the development of depreciation policy for the company. The study also included development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, development of appropriate net salvage rates, development of average service life estimates, and the compilation of the report for submission in a General Tariff Application. Additional studies were also completed in 2008 and 2010. The 2010 study was the subject of Regulatory Review in 2012.
- Ontario Power Generation: Assignments have included a review of the Depreciation Review Committee process completed in 2007. This review provided recommendations for enhanced internal processes and controls in order to ensure that the depreciation expense reflects the annual consumption of service value. Additionally, full assessments of the lives the regulated assets were completed in 2011 and 2013, and were submitted to the Ontario Energy Board for review.
- TransCanada PipeLines Limited Alberta Facilities: The assignment included working with the company to develop the appropriate depreciation policy to align with the organization's overall goals and objectives. The resulting depreciation study, which was submitted to the Alberta Energy and Utilities Board, incorporated the concepts of time-based depreciation for gas transmission accounts and unit based depreciation for gathering facilities. The data was assembled from two different accounting systems and statistical analysis of service life and net salvage were performed. For gathering accounts, the assignment included the oversight of the development of appropriate gas production and ultimate gas potential studies for specific areas of gas supply. Field inspections of gas compression, metering and regulating, and service operations were conducted. Studies were completed in 2002 and 2004, 2007, 2009 and 2012.
- TransCanada PipeLines Limited Mainline Facilities: The study prepared for submission to the National Energy Board of Canada ("NEB") included the development of annual and accrued depreciation rates for gas transmission plant east of the Alberta Saskatchewan border. Elements of the study included a field inspection of compression and metering facilities, service life and net salvage analysis for all accounts. The study was completed in 2002, and was supported through an appearance





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before the NEB. Study updates have been completed in 2005, 2007, 2009 and an additional full and comprehensive study was completed in 2011. The 2011 study was fully supported through an appearance before the NEB in 2012

Mr. Kennedy has successfully completed the series of week-long programs offered by Depreciation Programs, Inc. and is a past president of the Society of Depreciation Professionals.



CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

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YEAR	CLIENT	APPLICANT	REGULATORY BOARD	PROCEEDING NUMBER
1999	ENMAX Power Corporation	Edmonton Power Corporation	Alberta Energy and Utilities Board	980550
2000	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	Decision 2002-43
2001	City of Calgary	ATCO Pipelines South	Alberta Energy and Utilities Board	2000-365
2001	City of Calgary	ATCO Gas South	Alberta Energy and Utilities Board	2000-350
2001	City of Calgary	ATCO Affiliate Proceeding	Alberta Energy and Utilities Board	1237673
2001	ENMAX Power Corporation	ENMAX Power Corporation - Transmission	Alberta Department of Energy	N/A
2002	Centra Gas British Columbia	Centra Gas British Columbia	British Columbia Utilities Commission	N/A
2002	ENMAX Power Corporation	ENMAX Power Corporation - Transmission	Alberta Department of Energy	N/A
2003	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1279345
2003	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2003	City of Calgary	ATCO Pipelines	Alberta Energy and Utilities Board	1292783
2003	City of Calgary	ATC0 Electric-IS0 Issues	Alberta Energy and Utilities Board	N/A
2003	City of Calgary	ATCO Gas	Alberta Energy and Utilities Board	1275466
2003	City of Calgary	ATC0 Electric	Alberta Energy and Utilities Board	1275494
2003	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2003	TransCanada Pipelines Limited	TransCanada Pipelines Limited	National Energy Board of Canada	RH-1-2002
2004	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1305995



NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP

YEAR	CLIENT	APPLICANT	REGULATORY BOARD	PROCEEDING NUMBER
2004	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1336421
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2004	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Energy and Utilities Board	1306819
2004	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2004	NOVA Gas Transmission Limited	NOVA Gas Transmission Limited	Alberta Energy and Utilities Board	1315423
2004	Westridge Utilities Inc.	Westridge Utilities Inc.	Alberta Energy and Utilities Board	1279926
2005	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1378000
2005	ATCO Electric	ATCO Electric	Alberta Energy and Utilities Board	1399997
2002	ATCO Power	ATCO Power	Municipal Government Board of Alberta	N/A
2005	British Columbia Transmission Corporation	British Columbia Transmission Corporation	British Columbia Utilities Commission	N/A
2005	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2002	ENMAX Power Corporation	ENMAX Power Corporation- Transmission	Alberta Energy and Utilities Board	N/A
2002	ENMAX Power Corporation	ENMAX Power Corporation- Distribution Assets	Alberta Energy and Utilities Board	1380613
2005	FortisAlberta Inc.	FortisAlberta Inc.	Alberta Energy and Utilities Board	1371998
2005	FortisAlberta Inc.	FortisAlberta Inc.	Alberta Energy and Utilities Board	N/A





CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP

YEAR	CLIENT	APPLICANT	REGULATORY BOARD	PROCEEDING NUMBER
2002	FortisBC, Inc.	FortisBC, Inc.	British Columbia Utilities Commission	N/A
2005	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2005	New Brunswick Board of Commissioners of Public Utilities	New Brunswick Power Distribution and Customer Service Company	New Brunswick Board of Commissioners of Public Utilities	N/A
2005	Northland Utilities (NWT) Inc.	Northland Utilities (NWT) Inc.	Northwest Territories Utilities Board	N/A
2005	Northland Utilities (Yellowknife) Inc.	Northland Utilities (Yellowknife) Inc.	Northwest Territories Utilities Board	N/A
2005	NOVA Gas Transmission Ltd.	NOVA Gas Transmission Ltd.	Alberta Energy and Utilities Board	1375375
2005	City of Red Deer	City of Red Deer Electric System	Alberta Energy and Utilities Board	1402729
2005	Yukon Energy Corporation	Yukon Energy Corporation	Yukon Utilities Board	N/A
2006	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1456797
2006	BC Hydro	BC Hydro	British Columbia Utilities Commission	N/A
2006	Imperial Oil Resources Ventures Limited	McKenzie Valley Pipeline Project	National Energy Board of Canada	GH-1-2004
2007	Enbridge Pipelines Limited	Enbridge Pipelines Limited	National Energy Board of Canada	RH-2-2007
2007	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Energy and Utilities Board	1514140
2007	Kinder Morgan	Terasen (Jet fuel) Pipeline Limited	British Columbia Utilities Commission	N/A
2008	ATCO Electric	Yukon Electrical Company Limited	Yukon Utilities Board	N/A
2008	ATCO Gas	ATCO Gas	Alberta Utilities Commission	1553052



NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP

YEAR	CLIENT	APPLICANT	REGULATORY BOARD	PROCEEDING NUMBER
2008	City of Lethbridge Electric System	City of Lethbridge	Alberta Utilities Commission	N/A
2008	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Utilities Commission	1512089
2008	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
5009	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	N/A
2009	Fortis Alberta Inc.	Fortis Alberta, Inc.	Alberta Utilities Commission	1605170
2010	ATCO Electric	ATCO Electric	Alberta Utilities Commission	1606228
2010	Enbridge Pipelines Limited· Line 9	Enbridge Pipelines Limited - Line 9	National Energy Board of Canada	N/A
2010	Gazifere	Gazifere	La Regie de L'Energie	R-3724-2010
2010	Kinder Morgan	Kinder Morgan	National Energy Board of Canada	N/A
2010	Pacific Northern Gas	Pacific Northern Gas	British Columbia Utilities Commission	N/A
2011	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	1606694
2011	AltaLink LP	AltaLink LP	Alberta Utilities Commission	1606895
2011	ATCO Electric	Northland Utilities (NWT) Inc.	Northwest Territories Utility Board	N/A
2011	ATCO Gas	ATCO Gas	Alberta Utilities Commission	1606822
2011	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Utilities Commission	1607159
2011	FortisBC Energy, Inc.	FortisBC Energy, Inc.	British Columbia Utilities Commission	3698627
2011	GazMetro	GazMetro	La Regie de L'Energie	R-3752-2011





CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP

NEWFOUNDLAND AND LABRADOR HYDRO

DEPRECIATION STUDY

PROCEEDING NUMBER Appearance Pending Proceeding 3524 2013/2013 GRA 2013-2015 GRA EB-2012-0459 EB 2011-0345 RH-003-2011 R-3807-2012 1609674 3698620 1608641 1608711 N/A N/A N/A N/A N/A N/A Nova Scotia Utility and Review Board **Northwest Territories Public Utilities** of Commissioners of Public Utilities Newfoundland and Labrador Board National Energy Board of Canada Municipal Government Board of Manitoba Public Utilities Board Utilities Rates Review Council Alberta Utilities Commission Alberta Utilities Commission Alberta Utilities Commission Alberta Utilities Commission Internal Review Committee **British Columbia Utilities** Ontario Energy Board Ontario Energy Board REGULATORY BOARD La Regie de L'Energie Yukon Utilities Board Commission Alberta Board TransAlta Utilities Corporation TransCanada Pipelines Limited Enbridge Gas Distribution Inc. Newfoundland and Labrador Northwest Territories Power **ENMAX Power Corporation** Yukon Electrical Company **Enbridge Gas Distribution** IntraGaz Incorporated Heritage Gas Ltd. Manitoba Hydro City of Red Deer Limited (YECL) FortisBC, Inc. Corporation AltaLink LP APPLICANT AltaLink LP SaskPower Hydro Qulliq Enbridge Gas Distribution Inc. Newfoundland and Labrador Northwest Territories Power **ENMAX Power Corporation** Yukon Electrical Company **Enbridge Gas Distribution** TransCanada Pipelines IntraGaz Incorporated TransAlta Utilities Heritage Gas Ltd. Manitoba Hydro City of Red Deer Limited (YECL) FortisBC, Inc. Corporation Corporation AltaLink LP AltaLink LP SaskPower Limited CLIENT Hydro Qulliq YEAR 2015 2011 2012 2012 2012 2012 2012 2012 2012 2013 2013 2013 2014 2014 2011 2011 2011

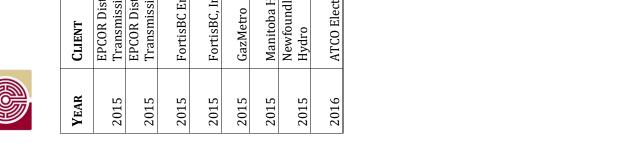




NEWFOUNDLAND AND LABRADOR HYDRO DEPRECIATION STUDY

CONFIDENTIAL EXPERT TESTIMONY OF LARRY E. KENNEDY, CDP

YEAR	CLIENT	APPLICANT	REGULATORY BOARD	PROCEEDING NUMBER
	EPCOR Distribution &	EPCOR Distribution &		
2015	Transmission	Transmission	Alberta Utilities Commission	Proceeding 20407
	EPCOR Distribution &	EPCOR Distribution &		
2015	Transmission	Transmission	Alberta Utilities Commission	Appearance Pending
			British Columbia Utilities	
2015	FortisBC Energy, Inc.	FortisBC Energy, Inc.	Commission	N/A
			British Columbia Utilities	
2015	FortisBC, Inc.	FortisBC, Inc.	Commission	Appearance Pending
2015	GazMetro	GazMetro	La Regie de L'Energie	N/A
2015	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	2014/15 & 2015/16 GRA
	Newfoundland and Labrador	Newfoundland and Labrador	Newfoundland and Labrador Board	
2015	Hydro	Hydro	of Commissioners of Public Utilities	N/A
				Proceeding 20272
2016	ATCO Electric	ATCO Electric	Alberta Utilities Commission	Appearance Pending





APPENDIX 2 ESTIMATION OF SURIVOR CURVES



ESTIMATION OF SURVIVOR CURVES

Average Service Life

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages. A discussion of the general concept of survivor curves is presented. Also, the lowa type survivor curves are reviewed.

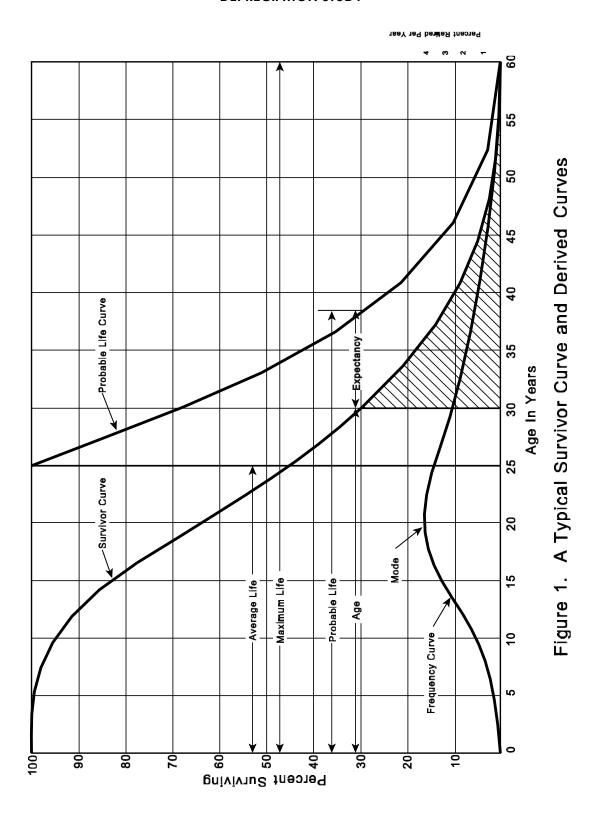
SURVIVOR CURVES

The survivor curve graphically depicts the amount of property existing at each age throughout the life of an original group. From the survivor curve, the average life of the group, the remaining life expectancy, the probable life, and the frequency curve can be calculated. In Figure 1, a typical smooth survivor curve and the derived curves are illustrated. The average life is obtained by calculating the area under the survivor curve, from age zero to the maximum age, and dividing this area by the ordinate at age zero. The remaining life expectancy at any age can be calculated by obtaining the area under the curve, from the observation age to the maximum age, and dividing this area by the percent surviving at the observation age. For example, in Figure 1, the remaining life at age 30 is equal to the crosshatched area under the survivor curve divided by 29.5 percent surviving at age 30. The probable life at any age is developed by adding the age and remaining life. If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve presents the number of units retired in each age interval. It is derived by obtaining the differences between the amount of property surviving at the beginning and at the end of each interval.

Iowa Type Curves

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the







lowa type curves. There are four families in the lowa system, labeled in accordance with the location of the modes of the retirements in relationship to the average life and the relative height of the modes. The left moded curves, presented in Figure 2, are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical moded curves, presented in Figure 3, are those in which the greatest frequency of retirement occurs at average service life. The right moded curves, presented in Figure 4, are those in which the greatest frequency occurs to the right of, or after, average service life. The origin moded curves, presented in Figure 5, are those in which the greatest frequency of retirement occurs at the origin, or immediately after age zero. The letter designation of each family of curves (L, S, R or O) represents the location of the mode of the associated frequency curve with respect to the average service life. The numbers represent the relative heights of the modes of the frequency curves within each family.

The lowa curves were developed at the lowa State College Engineering Experiment Station through an extensive process of observation and classification of the ages at which industrial property had been retired. A report of the study which resulted in the classification of property survivor characteristics into 18 type curves, which constitute three of the four families, was published in 1935 in the form of the Experiment Station's Bulletin 125.1 These curve types have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and Depreciation." In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student, submitted a thesis presenting his development of the fourth family consisting of the four O type survivor curves.

³Couch, Frank V. B., Jr. "Classification of Type O Retirement Characteristics of Industrial Property." Unpublished M.S. thesis (Engineering Valuation). Library, Iowa State College, Ames, Iowa. 1957.



¹ Winfrey, Robley. <u>Statistical Analyses of Industrial Property Retirements</u>. Iowa State College, Engineering Experiment Station, Bulletin 125. 1935.

²Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

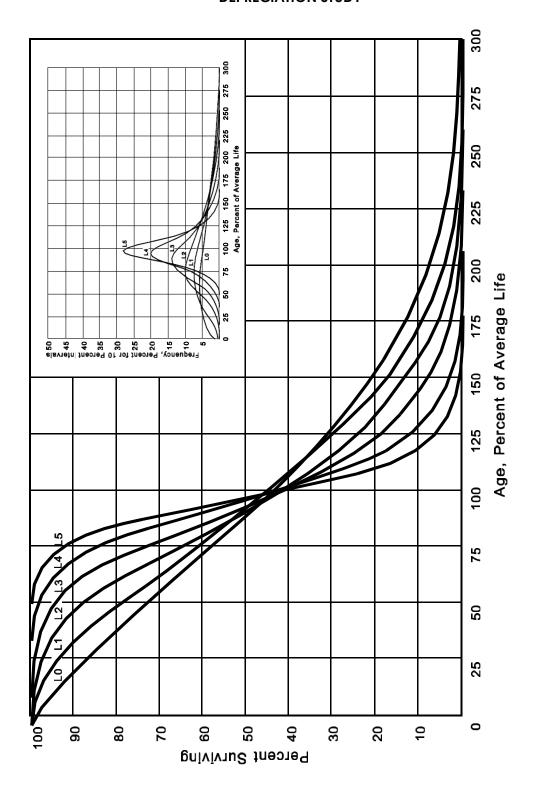
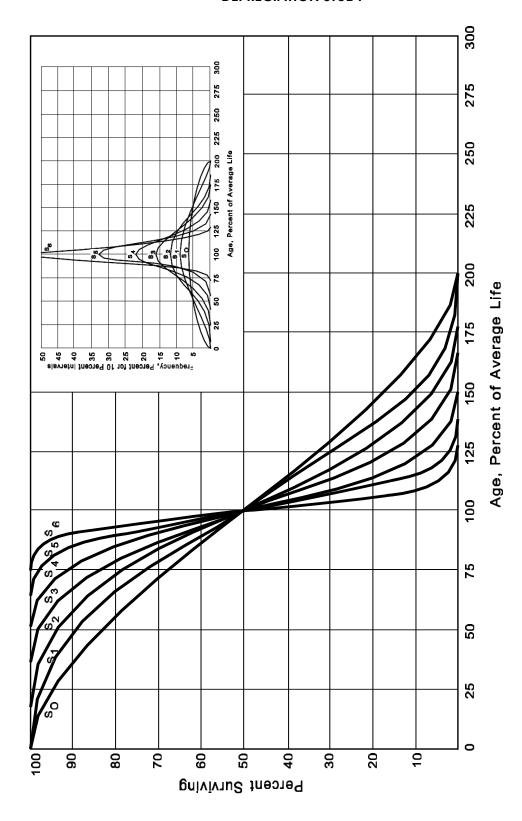


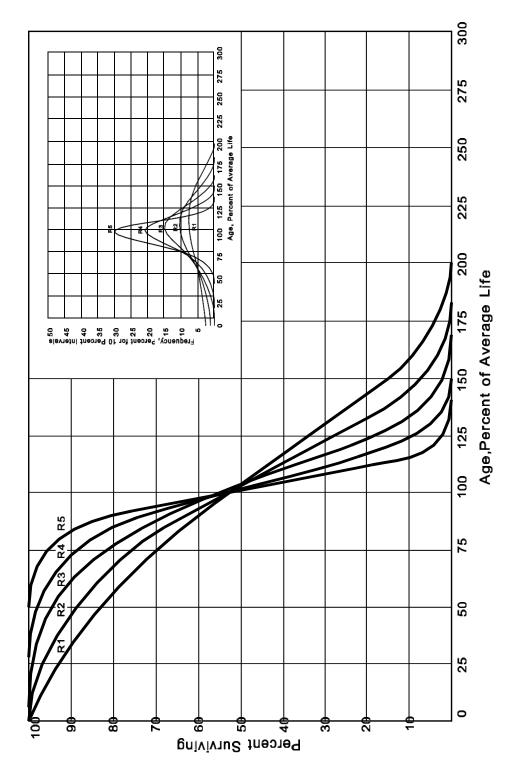
Figure 2. Left Modal or "L" lowa Type Survivor Curves





Symmetrical or "S" lowa Type Survivor Curves რ Figure





Right Modalor "R" lowa Type Survivor Curves Figure 4.



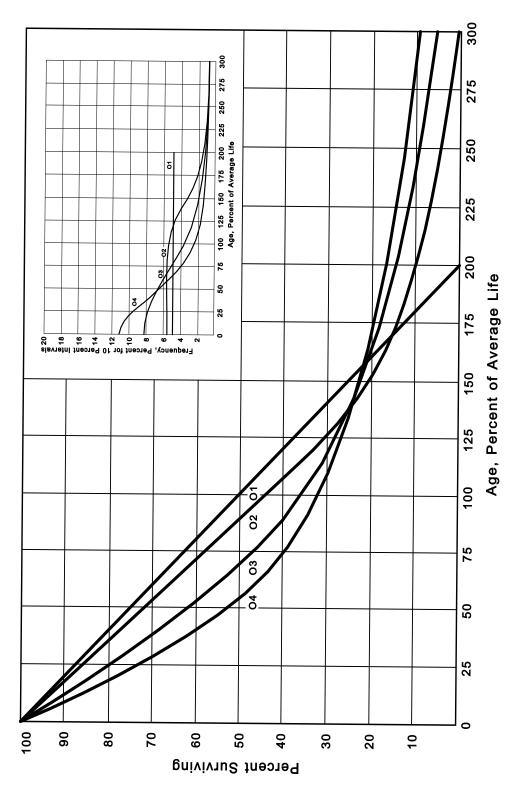


Figure 5. Origin Modal or "O" lowa Type Survivor Curves



Retirement Rate Method of Analysis

The retirement rate method is an actuarial method of deriving survivor curves using the average rates at which property of each age group is retired. The method relates to property groups for which aged accounting experience is available and is the method used to develop the original stub survivor curves in this study. The method (also known as the annual rate method) is illustrated through the use of an example in the following text, and is also explained in several publications, including "Statistical Analyses of Industrial Property Retirements," "Engineering Valuation and Depreciation," and "Depreciation Systems."

The average rate of retirement used in the calculation of the percent surviving for the survivor curve (life table) requires two sets of data: first, the property retired during a period of observation, identified by the property's age at retirement; and second, the property exposed to retirement at the beginning of the age intervals during the same period. The period of observation is referred to as the <u>experience band</u>, and the band of years which represent the installation dates of the property exposed to retirement during the experience band is referred to as the <u>placement band</u>. An example of the calculations used in the development of a life table follows. The example includes schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

Schedules of Annual Transactions in Plant Records

The property group used to illustrate the retirement rate method is observed for the experience band 2007-2016 during which there were placements during the years 2007-2016. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Schedules 1 and 2 on the following pages. In Schedule 1, the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the dollars invested in 2002 were

⁶Wolf, Frank K. and W. Chester Fitch. <u>Depreciation Systems</u>. Iowa State University Press. 1994.



⁴Winfrey, Robley, Supra Note 1.

⁵Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 2.

SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2007-2016 SUMMARIZED BY AGE INTERVAL

	d 2002-2016	Age Interval	(13)	131/2-141/2	121/2-131/2	111/2-121/2	101/2-111/2	91/2-101/2	81/2-91/2	71/2-81/2	61/2-71/2	51/2-61/2	41/2-51/2	31/2-41/2	21/2-31/2	11/2-21/2	1/2-11/2	0-1/2	
Placement Band 2002-2016	Total During Age Interval	(12)	. 50	44	64	83	93	105	113	124	131	143	146	150	151	153	80	1,606	
Experience Band 2007-2016		<u>2016</u> (11)	. 50	19	18	17	20	20	20	19	19	20	23	25	22	24	13	308	
			<u>2015</u> (10)	. 52	22	22	16	19	16	9	19	19	19	22	22	23	7		273
			201 <u>4</u> (9)	24	21	21	15	17	15	16	17	17	17	20	20	7			231
		ollars	<u>2013</u> (8)	23	20	19	14	16	4	15	16	16	16	18	တ				196
		usands of [<u>2012</u> (7)	. 16	18	17	13	14	13	14	15	15	14	∞					157
		Retirements, Thousands of Dollars During Year	2011 (6)	. 4	16	16	7	13	12	13	13	13	7						128
		Retiren	<u>2010</u> (5)		15	14	11	12	7	12	12	9							106
	တ		<u>2009</u> (4)	. 7	13	13	10	7	10	7	9								86
	1 2007-201		200 <u>8</u> (3)	<u> </u>	12	12	တ	10	တ	2									89
	ience Band		<u>2007</u> (2)	10	11	7	_∞	တ	4										53
	Exper	Year Placed	(£)	2005	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total



SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2007-2016 SUMMARIZED BY AGE INTERVAL

Experience Band 2007-2016

Placement Band 2007-2016

	Age <u>Interval</u> (13)	13½-14½	12½-13½ 11½-12½	101/2-111/2	91/2-101/2	81/2-91/2	71/2-81/2	61/2-71/2	51/2-61/2	41/2-51/2	31/2-41/2	21/2-31/2	11/2-21/2	1/2-11/2	0-1/2	
	Total During <u>Age Interval</u> (12)	ı		09	1	(2)	•	ı	ı	ı	10	ı	(121)	•		(20)
	<u>2016</u> (11)	ı		ı			ı						$(102)^{c}$			(102)
	<u>2015</u> (10)	ı		ı	,		•	,	•	22^{a}	•		,			22
Dollars	2014 (9)	ı		(5) _b	e _a		•		(12) ^b	ı	(19) ^b		•			(30)
usands of	<u>2013</u> (8)	e09		ı	ı						,					09
Acquisitions, Transfers and Sales, Thousands of Dollars During Year	<u>2012</u> (7)	ı		ı	•		,	•	•	1	ı					
fers and S	<u>2011</u> (6)	ı		ı	,		•			ı						
ons, Trans	<u>2010</u> (5)	ı		ı	•		,	•	•							
Acquisiti	<u>2009</u> (4)	ı		ı	•		,	•								
	<u>2008</u> (3)	ı		ı	•		,									
	<u>2007</u> (2)	ı		ı	ı	,										
	Year Placed (1)	2002	2003 2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total

^a Transfer Affecting Exposures at Beginning of Year

Parentheses Denote Credit Amount.



^b Transfer Affecting Exposures at End of Year

[°] Sale with Continued Use

retired in 2007. The \$10,000 retirement occurred during the age interval between 4½ and 5½ years on the basis that approximately one-half of the amount of property was installed prior to and subsequent to July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval $4\frac{1}{2}$ - $5\frac{1}{2}$ is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2007 retirements of 2002 installations and ending with the 2016 retirements of the 2011 installations. Thus, the total amount of 143 for age interval $4\frac{1}{2}$ - $5\frac{1}{2}$ equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20$$
.

In Schedule 2, other transactions which affect the group are recorded in a similar manner. The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements, but are used in developing the exposures at the beginning of each age interval.

Schedule of Plant Exposed to Retirement

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 on the following page. The surviving plant at the beginning of each year from 2007 through 2016 is recorded by year in the portion of the table headed "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or addition, are obtained by adding or subtracting the net entries



SCHEDULE 3. PLANT EXPOSED TO RETIREMENT JANUARY 1
OF EACH YEAR 2007-2016
SUMMARIZED BY AGE INTERVAL

Experience Band 2007-2016

Placement Band 2002-2016

	Age Interval (13)	13½-14½ 12½-13½ 11½-12½ 9½-10½ 8½-9½ 7½-8½ 6½-7½ 5½-6½ 4½-5½ 3½-4½ 2½-3½ 1½-2½ ½-1½	
Total at Beginning	of Age Interval (12)	167 323 531 823 1,097 1,503 1,952 2,463 3,057 4,332 4,332 4,955 6,579 6,579	44,780
	<u>2016</u> (11)	167 131 162 226 226 261 316 356 412 482 663 799 923 1,069 1,220ª	7,799
	<u>2015</u> (10)	192 153 184 242 280 332 374 431 501 628 685 821 949 1,080ª	6,852
J.E.	2014 (9)	216 174 205 262 267 347 390 448 530 623 724 841	6,017
of the Yea	<u>2013</u> (8)	239 194 224 276 307 361 405 464 546 639 742 850ª	5,247
Exposures, Thousands of Dollars	201 <u>2</u> (7)	195 212 241 289 321 374 419 479 561 653 750°	4,494
ures, Thou	<u>2011</u> (6)	209 228 257 300 334 432 492 574 660 ^a	3,872
Exposi	<u>2010</u> (5)	222 243 271 346 397 444 504 580 ^a	3,318
Anr	2009 (4)	234 256 284 321 257 407 455 510 ^a	2,824
	2008	245 268 296 330 367 416 460ª	2,382
	<u>2007</u> (2)	255 279 307 338 376 420ª	1,975
·	Year Placed (1)	2002 2003 2004 2005 2006 2007 2010 2011 2012 2013 2013 2014	

^a Additions during the year.



shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being <u>exposed</u> to retirement in this group <u>at</u> the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the <u>beginning of</u> the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2006 are calculated in the following manner:

Exposures at age 0 = amount of addition = \$750,000 Exposures at age $\frac{1}{2}$ = \$750,000 - \$8,000 = \$742,000 Exposures at age $\frac{1}{2}$ = \$742,000 - \$18,000 = \$724,000 Exposures at age $\frac{2}{2}$ = \$724,000 - \$20,000 - \$19,000 = \$685,000 Exposures at age $\frac{3}{2}$ = \$685,000 - \$22,000 = \$663,000

For the entire experience band 2006-2015, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval $4\frac{1}{2}$ - $5\frac{1}{2}$, is obtained by summing:

Original Life Table

The original life table, illustrated in Schedule 4 on the following page, is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100% at age zero and successively multiplying the percent



SCHEDULE 4. ORIGINAL LIFE TABLE

CALCULATED BY THE RETIREMENT RATE METHOD

Experience Band 2007-2016

Placement Band 2002-2016

(Exposure and Retirement Amounts are in Thousands of Dollars)

Age at Beginning of Interval (1)	Exposures at Beginning of Age Interval (2)	Retirements During Age Interval (3)	Retirement Ratio (4)	Survivor <u>Ratio</u> (5)	Percent Surviving at Beginning of Age Interval (6)
0.0 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5 12.5	7,490 6,579 5,719 4,955 4,332 3,789 3,057 2,463 1,952 1,503 1,097 823 531 323 167	80 153 151 150 146 143 131 124 113 105 93 83 64 44 26	0.0107 0.0233 0.0264 0.0303 0.0337 0.0377 0.0429 0.0503 0.0579 0.0699 0.0848 0.1009 0.1205 0.1362 0.1557	0.9893 0.9767 0.9736 0.9697 0.9663 0.9571 0.9497 0.9421 0.9301 0.9152 0.8991 0.8795 0.8638 0.8443	100.00 98.93 96.62 94.07 91.22 88.15 84.83 81.19 77.11 72.65 67.57 61.84 55.60 48.90 42.24
Total	44,780	<u>1,606</u>			35.66

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 divided by Column 2.

Column 5 = 1.0000 minus Column 4.

Column 6 = Column 5 multiplied by Column 6 as of the Preceding Age Interval.



surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age $5\frac{1}{2}$ are as follows:

Percent surviving at age $4\frac{1}{2}$ = 88.15 Exposures at age $4\frac{1}{2}$ = 3,789,000 Retirements from age $4\frac{1}{2}$ to $5\frac{1}{2}$ = 143,000

Retirement Ratio = $143,000 \div 3,789,000 = 0.0377$ Survivor Ratio = 1.000 - 0.0377 = 0.9623Percent surviving at age $5\frac{1}{2}$ = $(88.15) \times (0.9623) = 84.83$

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless. The original survivor curve is plotted from the original life table (column 6, Schedule 4). When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.

Smoothing the Original Survivor Curve

The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100% to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

The lowa type curves are used in this study to smooth those original stub curves which are expressed as percents surviving at ages in years. Each original survivor curve was compared to the lowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R lowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an

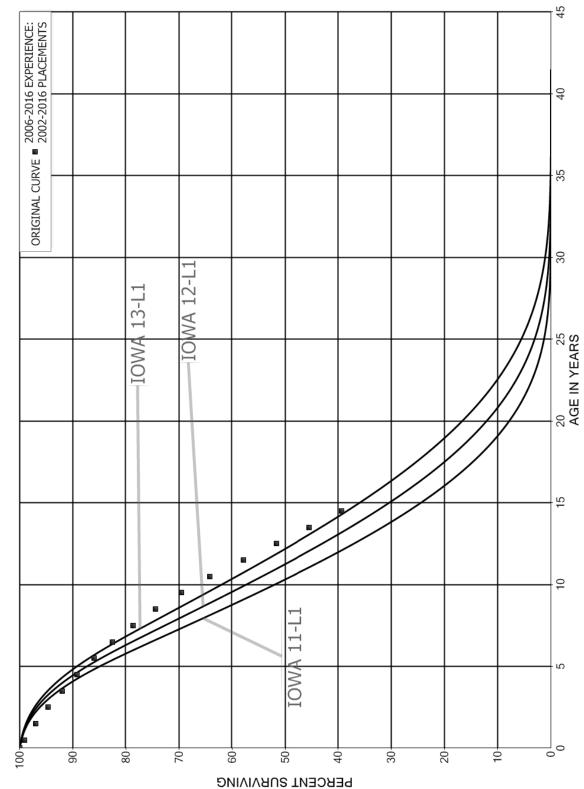


average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 lowa curve would be selected as the most representative of the plotted survivor characteristics of the group.

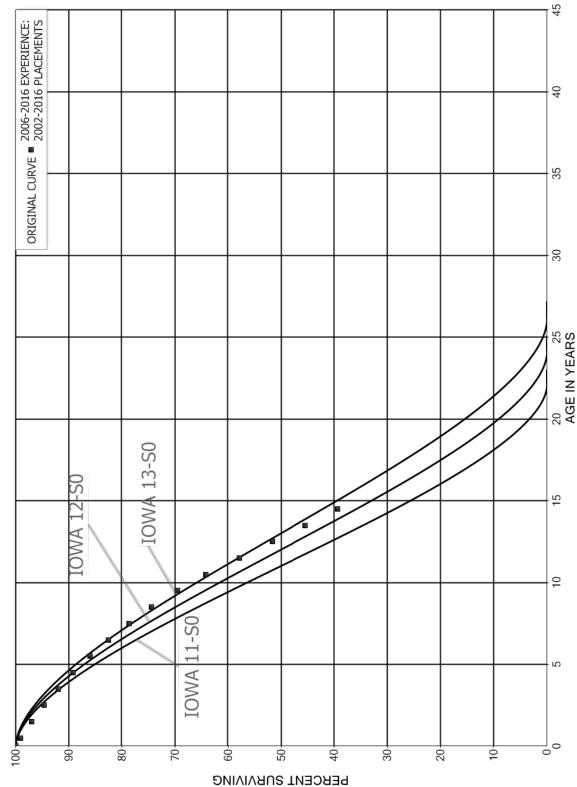


THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1 IOWA TYPE CURVE ORIGINAL AND SMOOTH SURVIVOR CURVES FIGURE 6. ILLUSTRATION OF





THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN SO IOWA TYPE CURVE ORIGINAL AND SMOOTH SURVIVOR CURVES FIGURE 7. ILLUSTRATION OF





THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN R1 IOWA TYPE CURVE ORIGINAL AND SMOOTH SURVIVOR CURVES FIGURE 8. ILLUSTRATION OF

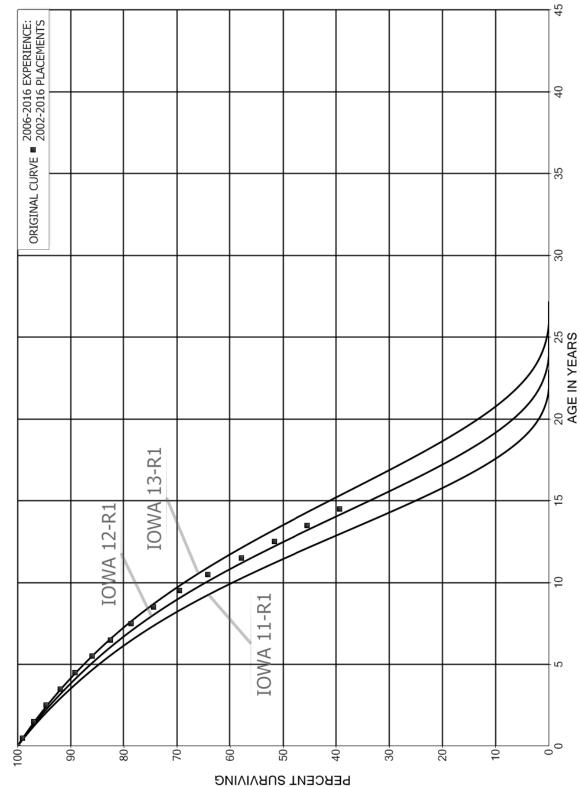
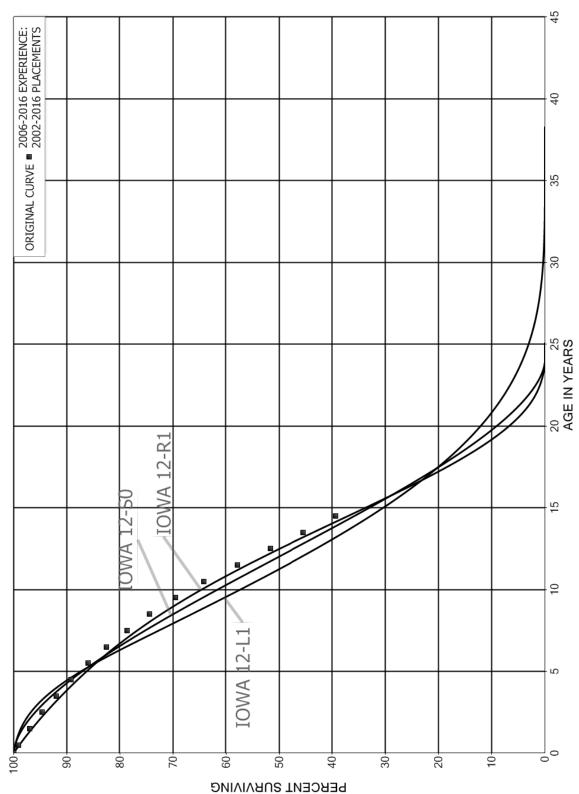




FIGURE 9. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1, SO AND R1 IOWA TYPE CURVE ORIGINAL AND SMOOTH SURVIVOR CURVES





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