ATCO Electric YUKON

October 24, 2023 AEY-YUB-2-001

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-001

Reference: Section 07 - Updated Depreciation - Clean, Section 7: Depreciation, Table 7-1: Depreciation, Table 7-2: Amortization of Contributions and Table 7-3: Negative Net Salvage, PDF pages 1-3;

Attachment 1 - 2022 Depreciation Study Report, PDF pages 41-42;

GRA Schedules, Schedule 7-4 and Schedule 8.6

Issue: Depreciation expense

Quote: 8. AEY is requesting Board approval to resume collection of Negative Net Salvage in revenue requirement. Concentric confirmed the need for Negative Net Salvage in order to minimize future intergenerational equity issues, as well as to reduce the risk of larger-scale increases in net salvage rates being necessary in the future. The current reserve balance of $0.5 million is not enough to fund upcoming retirements and salvage work. These identified factors support AEY's position that the collection of Negative Net Salvage should be restarted during this Test Period. The estimates for salvage depreciation included in this Application have been updated to the final Concentric Depreciation Study balances. AEY requested that Concentric consider a phase-in approach to the re-instatement of Negative Net Salvage to mitigate rate pressures in the Yukon, while ensuring the appropriate funding is collected for future salvage and restoration work. (Footnotes omitted)

Request:

(a) Referring to Table 7-1 and the years 2022 and 2023, how much of the decrease of $0.656 million[1] in Depreciation Expense - Life is attributable to changes in capital balances and how much is attributable to changes in the depreciation parameters related to average service life?

[1] Calculated as 2022 actual of $7.343 million less 2023 forecast of $6.687 million = decrease of $0.656 million.

(b) Referring to Table 7-2, please explain how the amortization rate for contributions is determined. Please also include an explanation for how contributions are tracked and AEY's process for retiring contributions.

(c) Referring to Table 7-3, please identify for each of the years 2022, 2023 and 2024 the five largest capital projects and their respective Removals costs (also referred to as "net salvage" [NS] costs) that were incurred or are forecast to be incurred. These Removals costs for the years 2022, 2023 and 2024 comprise the $0.874 million (actual), $1.0 million and $1.264 million (forecast) amounts respectively shown on Table 7-3.

(d) Referring to the response to part (c), please indicate if any of the projects and related Removals costs identified are for terminal asset retirements as opposed to asset retirements related to replacement projects.

(e) Please update Table 7-3 to include historical information commencing with the opening balance of the year 2007.

(f) Please explain how AEY forecasts net salvage costs. For example, are they forecast as stand-alone amounts based on past experience with a similar project, or are they forecast based on an allocation of the total forecast project costs?

(g) Please confirm that there was no net salvage expense collected during the time period that AEY has been denied the pre-collection of net salvage costs in depreciation expense and that any net salvage expenditures were costs AEY recorded against the net salvage reserve balance.

(h) Please provide a table of the last Board-approved net salvage percentages used by AEY prior to the Board denying the pre-collection of net salvage costs in depreciation expense commencing in 2008. Please include a column on this table with the net salvage percentages proposed by AEY in the current application.

(i) Referring to paragraph 8 as quoted above, what other alternatives to the proposed "phase-in approach" did AEY or Concentric Advisors, ULC (Concentric) consider? For example, did either party consider a proposal to implement the pre-collection of net salvage for a few key/major accounts, or did either party consider a method to capitalize net salvage costs (for replacement projects) or expense net salvage costs (for terminal retirement projects) as they are incurred? Please fully explain why or why not and provide an explanation of the positive and negative aspects of each potential method, including the status quo of not pre-collecting net salvage. Please ensure that a detailed discussion of all aspects pertaining to intergenerational equity for each method is provided.

(j) Please provide details respecting the net salvage methodologies used by AEY's peer comparators.

(k) For the purposes of the amortization of reserve differences calculation for net salvage costs, please clarify how Concentric established the 2023 opening balances of book-accumulated depreciation — net salvage on an account-by-account basis. For example, did this information continue to be tracked by AEY on an ongoing basis, notwithstanding that AEY was denied the pre-collection of net salvage costs in depreciation expense commencing in 2008, or were the 2023 opening balances of book-accumulated depreciation — net salvage the result of some allocation method?

(l) Please provide a revised copy of GRA Schedule 8.6 (Lines 16-25) to include the following breakdown of that information into Accumulated Depreciation - Life and Accumulated Depreciation – Net Salvage.

(m) Please confirm that AEY proposes to either refund or collect any amortization of reserve differences as a dollar amount as indicated on GRA Schedule 7-4.

(n) Referring to Attachment 1 - 2022 Depreciation Study Report, PDF pages 41-42, please respond to the following in respect of accumulated depreciation - life balances:

(i) Provide historical information or events explaining why accounts 333.00, 342.20 and 347.20 remain significantly over-recovered in terms of book - accumulated depreciation balances that exceed the calculated accumulated depreciation balances.

(ii) Provide historical information or events explaining why account 343.20 remains significantly under-recovered in terms of calculated accumulated depreciation balances that exceed the book-accumulated depreciation balances.

(iii) Provide historical information or events explaining why a significant portion of the distribution plant accounts remain significantly over-recovered in terms of book-accumulated depreciation balances that exceed the calculated accumulated depreciation balances. For example, please refer to accounts 364.00, 365.00, 365.10, 367.00, 367.10, 368.00 and 373.00.

(iv) Provide historical information or events explaining why accounts 391.10 and 392.20 remain significantly over-recovered in terms of book-accumulated depreciation balances that exceed the calculated accumulated depreciation balances.

(v) Explain why accounts 334.00, 335.00 and 390.01 indicate negative book-accumulated depreciation — life balances.

(o) Referring to the explanations provided to part (n), would AEY agree to update its amortization of reserve differences amounts at the time of a future technical update as opposed to at the time of a full depreciation study? Please respond and provide all reasons why it would be or would not be beneficial for AEY to do so.

Response:

(a) As outlined further in AEY's response to AEY-YUB-2-002(b), $0.093 million of the $0.656 million variance is due to the general provision life depreciation expense. Please refer to the table below for a breakdown of life changes attributable to capital balances and depreciation parameters.

Table 1: Breakdown of Depreciation Life Expense Change

Change Attributable to Capital	$911,000
Change Attributable to Depreciation Parameters	($818,000)
Change in Life Total	**$93,000**

(b) Consistent with what was approved as part of Board Order 2014-06 and Board Order 2017-01, AEY uses the Distribution life composite rate to amortize its contributions. In preparation of this response, AEY has identified an inadvertent error in its depreciation update where it missed updating the contribution amortization for the updated depreciation parameters. AEY's contribution amortization for the Test Period should be as per the table below. AEY will correct the error as part of its update to be provided in advance of the hearing.

Table 2: Contribution Amortization Update ($000)

Placeholder Sch. 1.1		Updated	
2023 Test Year	**2024 Test Year**	**2023 Test Year**	**2024 Test Year**
(2,159)	(2,528)	(2,077)	(2,389)

Contributions are tracked in the fixed asset subledger via asset plant (location) and vintage. Contribution retirements are processed based on a pro-rata share of the related capital asset retirement. Capital asset retirements are grouped by asset plant and vintage, and a ratio of the asset retirement to total investment in that specific plant and vintage is applied to any related contributions within that same asset plant and vintage combination to determine the appropriate amount of contribution to retire.

(c) Please refer to the table below for the five largest removal projects per year.

Table 3: Five Largest Removal Projects for 2022-2024 ($000)

Project	2022	2023	2024
New Services Overhead and Underground	70	169	173
Watson Unit 6 Replacement	190		
AEY Paint Mountain Cable	157		
Haeckel Hill	67		
DWCI Dual Rated Transformers	58		
New Customer Streetlight Installations		64	
AMI project new meters		40	
Fish Lake 1 Roof Replacement		36	
Fish Lake 2 Replace Power Station - FEED		31	
AEY New Substation Whistle Bend - Leota			250
McIntyre Subdivision Rebuild			112
Louise Lake Auxiliary Structure Replacement			62
AEY DWCI - New 12.5kV substation			71

(d) All the projects identified in part (c) are for retirements related to replacements.

(e) Please refer to AEY-YUB-02-001(e) Attachment 1. Upon review of this response, it was noted that there was an error in Table 7.3 for the 2024 opening net salvage balance. The correct amount is shown in the Attachment.

(f) Net Salvage costs are forecast based on an allocation of the total forecast project costs. The percent allocation is based on a review of the project scope, historical actuals of similar scoped projects where applicable, and a review of unique circumstances (i.e., anticipated harsh weather conditions, remote locations) of each project, which could impact net salvage costs.

(g) Confirmed.

(h) Please refer to AEY-YUB-02-001(h) Attachment 1.

(i) The following response was prepared by Concentric:

Please refer to AEY-YUB-2-001(i) Attachment 1, which summarizes the various methods of net salvage and resulting pros and cons that Concentric considered in preparing AEY's current Depreciation Study. Due to the requirements of AEY for costs of removal related to capital replacement and upgrade programs, and considering the arguments outlined in the Attachment, Concentric recommended the traditional method of net salvage. The traditional method is the most widely used method throughout North America largely because it minimizes intergenerational inequities and volatility in revenue requirements for large costs of removal. AEY, in an effort to balance the need to keep rates low for customers but still have the funds necessary for retirements, requested Concentric to consider a phase-in approach to the reinstatement of net salvage, whereby the lower end of the reasonable range was chosen for most accounts.

AEY agrees with Concentric and continues to support the use of the traditional method of net salvage, which it views as the preferred method to ensure intergenerational equity and avoid peaks and valleys in tariffs related to net salvage requirements. Please refer to AEY's comments within AEY-YUB-2-001(i) Attachment 1.

(j) The following response was prepared by Concentric:

The net salvage methodology used by AEY's peer comparators is the traditional method of net salvage collection. The only peer comparator that does not currently utilize the traditional method is BC Hydro, which currently has no net salvage collection in its Depreciation Study that was used as part of Concentric's peer analysis for AEY. However, it is noted that the BCUC has approved[2] the concept of the Traditional method in a BCUC decision that ordered BC Hydro to file a detailed plan regarding the reinstatement of net salvage collection within the depreciation rates in future depreciation applications.

(k) AEY has continued to track its net salvage reserve balance and the charges against it on an account-by-account basis.

(l) Please refer to AEY-YUB-2-001(l) Attachment 1, line 21, for the salvage depreciation and line 31 to 33 for the breakdown of accumulated depreciation life and accumulated depreciation net salvage.

(m) Confirmed.

(n) In the preparation of this response, AEY has identified that it inadvertently blended some net salvage accumulated depreciation balances with life accumulated depreciation balances. Note that the accumulated depreciation net salvage reserve balances were not impacted. Further, in the examination of its Hydro accounts, Account 331.00 to 335.00, AEY identified that some retirements were inadvertently misclassified within these accounts, please refer to the response to AEY-YUB-2-004(b) for more details. AEY is working with Concentric to quantify the impacts and as such cannot comment on any part of this IR that relates to its Hydro accounts (331.00 to 335.00). AEY will provide an update prior to the

[2] BC Hydro F2023 – F2025 Revenue Requirement Application resulting in BCUC Decision and Order G-9123 endorsing a restatement of net salvage collection in future applications.

commencement of the hearing with the required corrections, and will comment on the parts of this IR that relate to the Hydro accounts at that time. The below table shows updated balances where possible for the accounts in question:

Table 4: Revised Life Book Accumulated Depreciation

Account	Calculated Life Accumulated Depreciation	Initial Life Book Accumulated Depreciation	Variance	Revised Life Book Accumulated Depreciation	Revised Variance
342.20	1,619,609	1,988,546	(368,937)	1,969,406	(349,797)
347.20	242,926	169,269	73,657	169,269	73,657
343.20	6,737,766	5,309,930	1,427,836	5,198,971	1,538,795
364.00	17,239,841	24,349,381	(7,109,540)	21,068,997	(3,829,156)
365.00	10,716,439	14,690,700	(3,947,260)	12,502,352	(1,785,912)
365.10	1,654,681	2,081,386	(426,705)	2,012,950	(358,269)
367.00	11,460,397	12,283,976	(823,579)	12,447,852	(987,455)
367.10	1,615,271	2,058,434	(443,163)	2,055,523	(440,252)
368.00	14,353,989	16,781,180	(2,427,191)	16,941,298	(2,587,310)
373.00	7,020,032	7,929,208	(909,176)	8,329,879	(1,309,847)
391.10	49,047	122.101	(73,055)	107,228	(58,181)
390.01	190,028	(158,228)	348,256	919,491	(729,463)

In the response to this IR, AEY notes that variances between the calculated accumulated depreciation life and the book accumulated depreciation life are common and can be attributed to several factors including:

- A change in average service life.
- A change in the recommended survivor curve.
- Investment levels since the time of the last depreciation study.
- Level and age of retirements since the last study.
- Accumulated depreciation - life position as of the last study.
- Time elapsed since the last study.

For accounts with longer average remaining lives, a variance may take numerous studies to true up. Conversely, for accounts with shorter average remaining lives, an account may appear in a collection in one study if studies are not undertaken frequently. This may shift to a refund by the time the next study is performed.

AEY notes that its variances are caused by a number of the above factors.

(i) Per the above comment regarding the hydro balances, AEY cannot comment on Account 333.00 at this time. As noted above, AEY will provide an update prior to the commencement of the hearing with the required corrections and will include a response regarding the parts of the IRs that relate to the Hydro accounts at that time.

Account 342.20 remains over-recovered as retirements have not materialized to the levels predicted by the Iowa curve.

AEY notes that Account 347.20 is not over-recovered as it has less book accumulated depreciation than calculated accrued depreciation, as shown in Attachment 1 - 2022 Depreciation Study Report, PDF p. 41.

(ii) Account 343.20 remains under-recovered, mainly due to large retirements that occurred in 2014 and 2020 at the Watson Lake, Swift River and Old Crow generation stations.

(iii) For Accounts 364.00, 365.00, 365.10, 367.00 and 367.10, AEY's robust maintenance program has extended the asset life of these accounts longer than previously expected. Concentric has recommended increases to the average service lives and as expected, the book accumulated depreciation - life is greater than the calculated accumulated depreciation - life which will be trued up over time. The book accumulated depreciation – life amounts for Accounts 368.00 and 373.00 exceeded the calculated accumulated

depreciation – life in the last study, and although this is still the case, the gap has decreased and over time will also be trued up.

(iv) AEY notes that Account 391.10 was in a collection position in the last study; however, as time has passed and the corresponding amortization of reserve difference life collection amount of $6,400 was booked each year, the variance has swung, and now this account is over collected. Account 392.20 was in a refund position in the last depreciation study and continues to remain in a refund position as retirements have not materialized to the levels predicted by the Iowa curve.

(v) Per the above comment regarding the hydro balances, AEY cannot comment on Accounts 334.00 and 335.00 at this time. As noted above, AEY will provide an update prior to the commencement of the hearing with the required corrections and will include a response regarding the parts of the IRs that relate to the Hydro accounts at that time.

As a result of the corrected balances in the above table, Account 390.01 is no longer in a debit position.

(o) AEY is not opposed to updating its amortization of reserve differences amounts at the time of future technical updates. More frequent monitoring and true-up of accumulated depreciation variances, both life and net salvage, should ensure timely recovery/refund of accumulated depreciation variances, especially for accounts with short average remaining lives.

ATCO Electric Yukon (AEY)
2023 - 2024 General Rate Application (GRA)

Table 7-3: Negative Net Salvage
($000)

Line No.		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1	Opening Net Salvage	(4,051)	(4,689)	(4,714)	(4,684)	(4,566)	(4,504)	(4,449)	(4,219)	(3,736)	(3,692)	(3,469)	(3,286)	(2,846)	(2,158)	(1,661)	(1,351)	(477)	(1,485)
2	Removal	(40)	(25)	30	118	62	55	230	483	44	223	183	440	688	497	310	874	1,000	1,264
3	Salvage Depreciation	(598)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(2,008)	(2,103)
4	**Ending Net Salvage**	**(4,689)**	**(4,714)**	**(4,684)**	**(4,566)**	**(4,504)**	**(4,449)**	**(4,219)**	**(3,736)**	**(3,692)**	**(3,469)**	**(3,286)**	**(2,846)**	**(2,158)**	**(1,661)**	**(1,351)**	**(477)**	**(1,485)**	**(2,324)**

ATCO Electric Yukon (AEY)
2023 - 2024 General Rate Application (GRA)

Comparison of Last Approved Net-Salvage Rates to Current Request

Line No.		Approved[1] 1996-1997 GRA	Applied for 2023-2024 GRA
1	**Production**		
2	Hydro Assets	-10%	-5%
3	Structures & Improvements	-5%	-5%
4	Fuel Holders, Products & Accessories	-5%	N/A
5	Gen. Equip & Prime Movers	-5%	N/A
6	Accessory Electric Equipment	-5%	0%
7	Misc. Power Plant Equipment	-5%	-5%
8			
9	**Transmission**		
10	Substation Equipment	-5%	0%
11			
12	**Distribution System**		
13	Land Rights	0%	0%
14	Poles, Towers & Fixtures	-50%	-50%
15	Overhead Conductors	-55%	-25%
16	Overhead Services	-10%	-10%
17	Underground Conduit	-2%	-25%
18	Underground Services	-1%	-5%
19	Meters	1%	-5%
20	Substation Equipment	-2%	-10%
21	Street Lights & Signal Systems	5%	-10%
22	Sentinel Lights	40%	10%
23	Line Transformers	-10%	-10%
24			
25	**General Plant**		
26	Structures & Improvements	5%	-10%
27	Office Furniture & Equipment	2%	0%
28	Computer Equipment and Acc.	0%	0%
29	Tools & Intruments	0%	0%
30	Communication Equipment	3%	N/A

Note 1: Board Order 1996-06 Negotiated Settlement. Please refer to AEY-YUB-2-001(h) Attachment 2 for the document.

1996-6

YUKON UTILITIES BOARD

DECISION 1996 -6

APRIL 18, 1996

RE:

YUKON ENERGY CORPORATION AND
THE YUKON ELECTRICAL COMPANY LIMITED

AN ORDER IN THE MATTER of the *Public Utilities Act*
Revised Statutes, 1986, c. 143, as amended

and

A Joint Application by Yukon Energy Corporation and
The Yukon Electrical Company Limited

BEFORE: B. Morris, Chair; and)
G. Duncan, Acting Vice-Chair) April 18, 1996

ORDER 1996 - 6

WHEREAS:

A. On November 17, 1995 Yukon Energy Corporation and Yukon Electrical Company Limited ("YEC/YECL, the Companies") filed with the Board, pursuant to the *Public Utilities Act* ("the Act") and Order-In-Council 1995/90, an Application requesting an Order granting new rates, effective with consumption January 1, 1996 with a further increase on January 1, 1997.

B. The Board reviewed the Application and the written submissions of the parties to the matter and heard the evidence and oral submissions of the parties at a public hearing on March 18 and 19, 1996.

C. The issues on which all parties could agree were enclosed in a Negotiated Settlement Package and submitted for the Board's consideration as an attachment to Exhibit Number 142.

D. The Companies submitted, in Exhibit Number 148, a revised calculation of the revenue requirement based on the settlement package.

E. With the exception of hearing costs, the Board approved the settlement package as accepted by the parties to the process.

NOW THEREFORE the Board orders as follows:

1. The revenue requirement of the Companies as set out in Exhibit 148 is hereby approved save and except for regulatory hearing costs.

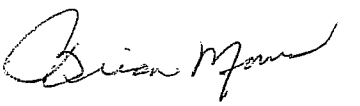
2. For the purposes of calculating revenue requirements, the Board hereby awards estimated hearing costs in the amount of $600,000.

3. Actual hearing costs will be the subject of a further Board Order. Any difference between actual hearing costs and estimated hearing costs will be adjusted in the next General Rate Application by the Companies.

4. Written reasons for this Order will follow.

DATED at the City of Whitehorse, in the Yukon Territory, this 18 day of April, 1996.

BY ORDER



Brian Morris
Chair

THE YUKON ELECTRICAL COMPANY LIMITED
An ATCO Company
P.O. BOX 4190, WHITEHORSE, YUKON Y1A 3T4 • TELEPHONE (403) 633-7000 • FAX (403) 668-3965

March 15, 1996

Yukon Utilities Board
P.O. Box 6070
19 - 1114 First Avenue
Whitehorse, Yukon Y1A 5L7

Attention: Mr. B. Morris, Chair

Dear Sir:

Re: YEC/YECL 1996/97 GRA

We have enclosed the schedules required to calculate the revised revenue requirement based on the negotiated settlement package. These schedules only reflect the reduction in revenue requirement. Due to the substantial decrease in sales to Anvil Range Mining Corporation (1996 4.0 Gwh, 1997 16.0 Gwh) there will be revenue losses which offset a portion of these savings.

The Companies propose to recalculate the 1996 and 1997 Cost of Service studies once the Boards decision is available with respect to cost allocations and revenue to cost ratios. This will ensure that the major industrial class pays its cost of service and that the Board's wishes are honoured with respect to the rate design.

Yours truly,

THE YUKON ELECTRICAL COMPANY LIMITED

C.H. Kerslake, P.Eng.
Vice President and General Manager

YUKON ENERGY CORPORATION

For William E. Byers, Q.C.
President

BM:mp

cc: All Interested Parties

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Yukon Energy Corporation
The Yukon Electrical Company Limited
Negotiated Settlement
Combined Revenue Requirement
($000s)

Revenue Component	1996 Revised	1997 Revised
YEC		
Fuel expense	7,706	7,828
Intercompany transfer (purchased power)	11	11
Other operating and maintenance expenses	9,077	9,538
Depreciation expenses, net	5,305	5,501
Return on rate base	10,642	10,423
Revenue requirement	32,741	33,301
YECL		
Fuel expense	1,918	2,189
Intercompany transfer (purchased power)	15,598	15,800
Other operating and maintenance expenses	5,007	5,326
Income tax expense	1,574	1,957
Depreciation expenses, net	2,185	2,342
Return on rate base	3,078	3,215
Revenue requirement	29,360	30,829
Total Yukon		
Fuel expense	9,624	10,017
Other operating and maintenance expenses	14,084	14,864
Income tax expense	1,574	1,957
Depreciation expenses, net	7,490	7,843
Return on rate base	13,720	13,638
Revenue requirement	46,492	48,319
As filed	48,640	51,551
Revenue Requirement Reduction	2,148	3,232

Yukon Energy Corporation
The Yukon Electrical Company Limited
Negotiated Settlement
Revenue Requirement Changes

	1996	1997
Yukon Energy Corporation		
Remove Diesel Contingency Fund from rate base		
1996 - 3,500 x 50% x 9.95%	174	
1997 - 3,500 x 100% x 9.74%		341
Lower working capital requirement due to lower fuel expense		
1996 - 58 x 9.95%	(6)	
1997 - 125 x 9.74%		(12)
Lower return		
1996 - 45,736 x (12.75% - 10.75%)	(909)	
1997 - 45,176 x (12.75% - 10.75%)		(904)
Lower fuel expense		
Lower Anvil sales		
1996 - 4,000,000 / 3.71 x 110% x 28.36	(336)	
1997 - 16,000,000 / 3.71 x 110% x 28.36		(1,345)
Lower Line Losses		
1996 - see note	(689)	
1997 - see note		(823)
Total YEC	(1,766)	(2,743)
The Yukon Electrical Company Limited		
Remove AMR from rate base		
1996 - 15 x 50% x 10.68%	(1)	
1997 - (500 x 50% x 10.76%) + (15 x 10.76%)		(29)
Higher working capital requirement due to tax changes		
1996 - 96 x 10.68%	10	
1997 - 10 x 10.76%		1
Lower return		
1996 - 11,002 x (13.25% - 11.25%)	(221)	
1997 - 11,932 x (13.25% - 11.25%)		(240)
Lower Income Taxes - Related to Lower Return		
1996 - (212 / (1 - 44.5%)) - 212	(170)	
1997 - (268 / (1 - 45.2%)) - 268		(221)
Total YECL	(382)	(489)
Total Yukon	(2,148)	(3,232)

Note: the line loss calculation consisted of reducing the YEC portion of the WAF line losses by 2.5%. The reduction was based on a study which reviewed the impact of moving a greater portion of the WAF diesel generation to the Faro diesel plant. The savings produced by the lower line losses (and hence lower diesel generation) were partially offset by the higher price of fuel in Faro. The price is higher in Faro due to the additional transportation charges.

Yukon Energy Corporation
Computation of Rate Base
Revised Schedules - Negotiated Settlement
($000s)

Schedule 1
3/15/96

Line No.	Description	Filed 1996	Adjustment 1996		Revised 1996	Filed 1997	Adjustment 1997		Revised 1997
1	**Property, Plant and Equipment**								
2	Year end balance	143,080	0		143,080	145,874	0		145,874
3	Deduct:								
4	Accumulated depreciation	29,173	0		29,173	33,228	0		33,228
5	Construction-in-progress	207	0		207	36	0		36
6	Disallowed assets	200	0		200	200	0		200
7	Miscellaneous reserves	44	0		44	44	0		44
8	Low water reserve	3,500	(3,500)	1	0	3,500	(3,500)	1	0
9	Total deductions	33,124	(3,500)		29,624	37,008	(3,500)		33,508
10	Add:								
11	Deferred study costs	3,137	0		3,137	4,268	0		4,268
12	Other deferred costs	360	0		360	51	0		51
13	Accum. disallowed depreciation	24	0		24	28	0		28
14	Total additions	3,521	0		3,521	4,347	0		4,347
15	**Net plant in Service**								
16	Current year-end balance	113,477	3,500		116,977	113,213	3,500		116,713
17	Previous year-end balance	114,918	0		114,918	113,477	3,500		116,977
18	Total	228,395	3,500		231,895	226,690	7,000		233,690
19	Mid-year balance	114,198	1,750		115,948	113,345	3,500		116,845
20	Mid-year rate case expense	451	0		451	326	0		326
21	Working capital	1,619	(58)	2	1,561	1,746	(126)	2	1,621
22	**Gross Rate Base**	116,268	1,692		117,960	116,417	3,375		118,792
23	Deduct:								
24	**Contributions for extensions**								
25	Current year-end balance	2,460	0		2,460	2,481	0		2,481
26	Previous year-end balance	1,384	0		1,384	2,460	0		2,460
27	Total	3,844	0		3,844	4,941	0		4,941
28	Mid-year balance	1,922	0		1,922	2,471	0		2,471
29	**Net Rate Base**	114,346	1,692		116,038	112,946	3,375		116,321

Adjustment 1: remove diesel contingency fund from rate base.
Adjustment 2: adjust working capital for lower fuel expense.

Yukon Energy Corporation
Computation of Allowance for Working Capital
Revised Schedules - Negotiated Settlement
($000s)

Schedule 2
3/15/96

Line No.	Description	Filed 1996	Adjustment 1996		Revised 1996	Filed 1997	Adjustment 1997		Revised 1997
1	Operating and maintenance	17,607	(1,025)	1	16,582	19,327	(2,168)	1	17,159
2	Taxes other than income	212	0		212	218	0		218
3	Non-allowable expenses	0	0		0	0	0		0
4	Disallowed expenses	0	0		0	0	0		0
5	Cash operating expenses	17,819	(1,025)		16,794	19,545	(2,168)		17,377
6	15/365, 21/365 thereof	1,025	(59)		966	1,125	(125)		1,000
7	Inventory (Three year average)	754	0		754	786	0		786
8	GST impact on working capital	(161)	1		(160)	(165)	0		(165)
9	Working capital	1,619	(58)		1,561	1,746	(125)		1,621

Adjustment 1: adjust O&M for lower fuel expense.

Yukon Energy Corporation
Cost of Capital Calculation
Revised Schedules - Negotiated Settlement
1996 Forecast
($000s)

Schedule 4A
3/15/96

Line No.	Description	Mid Year Balance	Ratio	Mid Year Rate Base	Mid Year Cost Rate	Return
1	**Forecast for 1996 - Filed 12.75% return**					
2	Long-term debt	68,818	60.00%	68,610	8.09%	5,551
3	Common stock	45,875	40.00%	45,736	12.75%	5,832
4	No cost capital	0	0.00%	0	0.00%	0
5	Total	114,693	100.00%	114,346	9.95%	11,383
6	**Forecast for 1996 - Negotiated 10.75% return**					
7	Long-term debt	68,585	60.00%	69,624	8.12%	5,652
8	Common stock	45,722	40.00%	46,414	10.75%	4,990
9	No cost capital	0	0.00%	0	0.00%	0
10	Total	114,307	100.00%	116,038	9.17%	10,642

Yukon Energy Corporation
Cost of Capital Calculation
Revised Schedules - Negotiated Settlement
1997 Forecast
($000s)

Schedule 4B
3/15/96

Line No.	Description	Mid Year Balance	Ratio	Mid Year Rate Base	Mid Year Cost Rate	Return
1	Forecast for 1997 - Filed 12.75% return					
2	Long-term debt	68,869	60.00%	67,770	7.73%	5,237
3	Common stock	45,909	40.00%	45,176	12.75%	5,761
4	No cost capital	0	0.00%	0	0.00%	0
5	Total	114,778	100.00%	112,946	9.74%	10,998
6	Forecast for 1997 - Negotiated 10.75% return					
7	Long-term debt	68,224	60.00%	69,791	7.77%	5,421
8	Common stock	45,486	40.00%	46,530	10.75%	5,002
9	No cost capital	0	0.00%	0	0.00%	0
10	Total	113,710	100.00%	116,321	8.96%	10,423

Yukon Energy Corporation
Utility Revenue Requirement
Revised Schedules - Negotiated Settlement
($000s)

Schedule 5
3/15/96

Line No.	Description	Filed 1996	Adjustment 1996	Revised 1996	Filed 1997	Adjustment 1997	Revised 1997
1	Net rate base	114,346	1,692	116,038	112,946	3,375	116,321
2	Rate of return	9.95%		9.17%	9.74%		8.96%
3	Utility income	11,383	(741)	10,642	10,998	(575)	10,423
4	Utility expenses						
5	Operating and maintenance	17,607	(1,025)	16,582	19,327	(2,168)	17,159
6	Taxes other than income	212	0	212	218	0	218
7	Amortization of deferred costs	1,417	0	1,417	1,437	0	1,437
8	Depreciation	3,964	0	3,964	4,152	0	4,152
9	Amortization of contributions	(72)	0	(72)	(84)	0	(84)
10	Income taxes	0	0	0	0	0	0
11	Non-allowables and disallowed	0	0	0	0	0	0
12	Disallowed depreciation	(4)	0	(4)	(4)	0	(4)
13	Total utility expenses	23,124	(1,025)	22,099	25,046	(2,168)	22,878
14	Revenue requirement	34,507	(1,766)	32,741	36,044	(2,743)	33,301

The Yukon Electrical Company Limited
Computation of Rate Base
Revised Schedules - Negotiated Settlement
($000s)

Schedule 1
3/15/96

Line No.	Description	Filed 1996	Adjustment		Revised 1996	Filed 1997	Adjustment		Revised 1997
1	**Property, Plant and Equipment**								
2	Year end balance	65,961	(15)	1	65,946	70,247	(515)	1	69,732
3	Deduct:								
4	Accumulated depreciation	23,940	0		23,940	26,414	0		26,414
5	Construction-in-progress	72	0		72	60	0		60
6	Non-regulated assets	6	0		6	0	0		0
7	Unamortized land gain - note 1	77	0		77	0	0		0
8	Total deductions	24,095	0		24,095	26,474	0		26,474
9	Add:								
10	Deferred study costs	350	0		350	212	0		212
11	**Net plant in Service**								
12	Current year-end balance	42,216	(15)		42,201	43,985	(515)		43,470
13	Previous year-end balance	39,788	0		39,788	42,216	0		42,201
14	Total	82,004	(15)		81,989	86,201	(515)		85,671
15	Mid-year balance	41,002	(8)		40,995	43,101	(258)		42,836
16	Mid-year rate case expense	89	0		89	83	0		83
17	Working capital	2,579	96	2	2,675	2,426	10	2	2,436
18	**Gross Rate Base**	43,670	89		43,759	45,610	(248)		45,355
19	Deduct:								
20	**Contributions for extensions**								
21	Current year-end balance	13,032	0		13,032	13,431	0		13,431
22	Previous year-end balance	12,696	0		12,696	13,032	0		13,032
23	Total	25,728	0		25,728	26,463	0		26,463
24	Mid-year balance	12,864	0		12,864	13,232	0		13,232
25	**Net Rate Base**	30,806	89		30,895	32,378	(248)		32,123

Adjustement 1: Removal of AMR project from capital expenditures.
Adjustement 2: Working capital adjustment due to change in income tax payments due to lower negotiated return.

The Yukon Electrical Company Limited
Computation of Allowance for Working Capital
Revised Schedules - Negotiated Settlement
($000s)

Schedule 2
3/15/96

Line No.	Description	Filed 1996	Adjustment		Revised 1996	Filed 1997	Adjustment		Revised 1997
1	Operating and maintenance	24,789	0		24,789	25,381	0		25,381
2	Taxes other than income	236	0		236	244	0		244
3	Non-allowable expenses	(9)	0		(9)	(9)	0		(9)
4	Disallowed expenses	0	0		0	0	0		0
5	Cash operating expenses	25,016	0		25,016	25,616	0		25,616
6	20/365, 19/365 thereof	1,305	0		1,305	1,336	0		1,336
7	Previous year utility income taxes	1,725	0		1,725	1,744	(170)	2	1,574
8	33/365, 30/365 thereof	142	0		142	143	(14)		129
9	Income taxes payable	(12)	179	1	167	(443)	47	1	(396)
10	194/365, 196/365 thereof	(6)	96		90	(237)	25		(213)
11	Inventory (Three year average)	1,239	0		1,239	1,293	0		1,293
12	GST Impact on working capital	(101)	0		(101)	(109)	0		(109)
13	Working capital	2,579	96		2,675	2,426	10		2,436

14 Adjustment 1: final tax payment changes due to lower return.
15 Adjustment 2: previous years utility tax changes due to reduction in return.

The Yukon Electrical Company Limited
Cost of Capital Calculation
Revised Schedules - Negotiated Settlement
1996 Forecast
($000s)

Schedule 4A
3/15/96

Line No.	Description	Mid Year Balance	Ratio	Mid Year Rate Base	Mid Year Cost Rate	Return
1	**Forecast for 1996 - Filed 13.25% return**					
2	Long-term debt	13,700	43.65%	13,447	9.61%	1,292
3	Preferred shares	6,440	20.52%	6,321	8.55%	540
4	Common stock	11,209	35.71%	11,002	13.25%	1,458
5	No cost capital	37	0.12%	36	0.00%	0
6	Total	31,386	100.00%	30,806	10.68%	3,290
7	**Forecast for 1996 - Negotiated 11.25% return**					
8	Long-term debt	13,700	43.80%	13,533	9.61%	1,300
9	Preferred shares	6,440	20.59%	6,362	8.55%	544
10	Common stock	11,098	35.49%	10,963	11.25%	1,234
11	No cost capital	37	0.12%	37	0.00%	0
12	Total	31,275	100.00%	30,895	9.96%	3,078

The Yukon Electrical Company Limited
Cost of Capital Calculation
Revised Schedules - Negotiated Settlement
1997 Forecast
($000s)

Schedule 4B
3/15/96

Line No.	Description	Mid Year Balance	Ratio	Mid Year Rate Base	Mid Year Cost Rate	Return
1	**Forecast for 1997 - Filed 13.25% return**					
2	Long-term debt	15,700	48.07%	15,563	9.52%	1,481
3	Preferred shares	4,940	15.12%	4,897	8.60%	421
4	Common stock	12,037	36.85%	11,932	13.25%	1,581
5	No cost capital	(14)	-0.04%	(14)	0.00%	0
6	Total	32,663	100.00%	32,378	10.76%	3,483
7	**Forecast for 1997 - Negotiated 11.25% return**					
8	Long-term debt	15,700	48.62%	15,618	9.52%	1,486
9	Preferred shares	4,940	15.30%	4,914	8.60%	423
10	Common stock	11,666	36.13%	11,605	11.25%	1,306
11	No cost capital	(14)	-0.04%	(14)	0.00%	0
12	Total	32,292	100.00%	32,123	10.01%	3,215

The Yukon Electrical Company Limited
Utility Revenue Requirement
Revised Schedules - Negotiated Settlement
($000s)

Schedule 5
3/15/96

Line No.	Description	Filed 1996	Adjustment	Revised 1996	Filed 1997	Adjustment	Revised 1997
1	Net rate base	30,806	89	30,895	32,378	(248)	32,123
2	Rate of return	10.68%		9.96%	10.76%		10.01%
3	Utility income	3,290	(212)	3,078	3,483	(268)	3,215
4	Utility expenses						
5	Operating and maintenance	22,296	0	22,296	23,080	0	23,080
6	Taxes other than income	236	0	236	244	0	244
7	Amortization of deferred costs/credits	260	0	260	259	0	259
8	Depreciation	2,543	0	2,543	2,740	0	2,740
9	Amortization of contributions	(611)	0	(611)	(651)	0	(651)
10	Income taxes	1,759	(170)	1,589	2,192	(221)	1,971
11	Less:						
12	Non-utility income taxes	(15)	0	(15)	(14)	0	(14)
13	Donations	(9)	0	(9)	(9)	0	(9)
14	Non-regulated depreciation	(7)	0	(7)	(6)	0	(6)
15	Total utility expenses	26,452	(170)	26,282	27,835	(221)	27,614
16	Utiltity revenue requirement	29,742	(382)	29,360	31,318	(489)	30,829

ATCO Electric Yukon (AEY)
2023 - 2024 General Rate Application (GRA)

Net Salvage

Line No.	Option	How it works	Pros	Cons	AEY's Comments
1	**Traditional Method**	Estimate future cost of removal and include in the depreciation rate calculation (or as a separate calculation) to build up a reserve to be used for the funding of future costs of retirement.	Is generationally equitable.	Significant reduction to rate base can occur.	AEY maintains that the traditional method for the collection of Net Salvage is the preferred method to ensure intergenerational equity and avoid peaks and valleys in tariffs related to net salvage requirements. In addition to maintaining intergenerational equity, it is the least burdensome for AEY to administer.
2			Is the most widely used and accepted method.	Possible for reserve to exceed original cost.	
3			Currently used by FortisBC Energy, ATCO Gas and Electric.	Rate pressure particularly in short term when setting it up.	
4		The calculations are based on a review of the historic costs of removal as a percentage of the original cost of the retired assets.	Adjusts for inflation.	Does not deal with the issue of technological change.	
5				Changing environmental standards are not specifically considered.	
6	**Constant Dollar Net Salvage (CDNS)**	All historic transactions are revalued to a current cost.	Is generationally equitable.	The calculations are complex.	Due to the complexity in administering the CDNS method, AEY does not recommend its use. This methodology is less common due to the administrative burden and complexity. AEY would require incremental staff resources in order to administer this methodology.
7		The current cost estimate is inflated to the estimated time of retirement.	Adjusts for both historic and future inflation.	Requires specific estimates of historic inflation and future discount rates.	
8		The future expenditures are then discounted back to today's dollars.	Reduces the net negative salvage burden on current customers.		
9			Calculations are similar to ARO calculations.		
10	**Expensing cost of removal as incurred**	The cost of removal expenditures are expensed when incurred.	No estimate of either historic or future inflation is required.	Is not generally equitable.	In AEY's view this would result in higher volatility in revenue requirements over time, creating rate instability and does not maintain intergenerational equity. If salvage were expensed, AEY would require deferral account treatment due to the cost uncertanty between estimated and actual costs that may result.
11		Recovery is normally approved based on the rate case estimates	The calculations are simple.	Increased utility risk of recovery of any variance between estimated and actual costs.	
12			Is compliant with most accounting guidelines		
13	**Capitalizing cost of removal to the installation cost of replacement**	Costs of removal associated with replacement projects are charged to the installation costs of the new asset.	No estimate of either historic or future inflation required.	Is not generally equitable.	Capitalizing would result in rate base growth, estimated to increase overall costs to customers in excess of $7 million assuming historical average salvage costs over a 20-year period. This methodology does not maintain generational equality, it inflates future depreciation expenses and depending on the nature of cost, AEYs external auditors may raise concern from an IFRS compliance perspective. AEY would require reconfiguration and upgrades to its finacial systems to adminster this methodology in addition to establishing deferral treatment for unforecastable, uncapitalizable costs.
14			The calculations are simple.	Inflates the amount of future depreciation expense.	
15		Considers that the removal of a replaced asset is a site preparation or directly attributable cost of the replacement asset.	Meets IFRS guidelines	Increased utility risk of recovery of any variance between estimated and actual costs (although is more limited than in the expensing alternative discussed above).	

ATCO Electric Yukon (AEY)
2023 - 2024 General Rate Application (GRA)

Revised Schedule of Property, Plant and Equipment
($000)

Line No.	Description	Cross Ref.	Actuals 2016	2017	2018	2019	2020	2021	2022	Test Period 2023	2024	Approved 2016	2017
1	**Property, Plant and Equipment**												
2													
3	Balance at Beginning of Year		204,749	215,985	223,068	233,403	239,890	249,496	259,797	273,899	305,644	204,749	217,952
4													
5	Additions	S.9.1 L.34	11,545	8,393	11,159	9,982	11,893	11,014	15,857	34,734	31,780	13,823	12,059
6	Reclassify from Deferred Charges	S. 8.8 L.40	534	-	-	-	-	-	-	-	-	534	-
7	Retirement and Disposals	S.8.7 L.32	(844)	(1,310)	(825)	(3,495)	(2,287)	(714)	(1,754)	(2,989)	(1,644)	(1,154)	(741)
8			11,236	7,083	10,335	6,487	9,606	10,301	14,103	31,745	30,136	13,203	11,319
9													
10	Balance at End of Year		215,985	223,068	233,403	239,890	249,496	259,797	273,899	305,644	335,780	217,952	229,270
11													
12	Construction-in-Progress	S.9.1 L.38	4,266	6,349	4,681	8,227	9,335	13,467	16,524	13,025	6,318	2,375	2,786
13													
14	Total Property, Plant and Equipment		220,251	229,417	238,084	248,117	258,831	273,264	290,424	318,669	342,098	220,326	232,056
15													
16	**Accumulated Depreciation - Life**												
17													
18	Balance at Beginning of Year		74,135	79,268	84,229	89,842	92,855	97,413	103,827	109,627	113,536	74,136	78,917
19	Reclassify from Deferred Charges		-	-	-	-	-	-	-	-	-	-	-
20	Life Depreciation Expense	S.7.1 L.6	5,835	6,115	6,293	6,382	6,707	6,950	7,343	6,687	8,471	5,846	6,231
21	Depreciation Capitalized	S.7.1 L.3	141	156	144	126	138	178	211	211	215	88	90
22	Retirements		(844)	(1,310)	(825)	(3,495)	(2,287)	(714)	(1,754)	(2,989)	(1,644)	(1,154)	(741)
23													
24	Balance at End of Year		79,268	84,229	89,842	92,855	97,413	103,827	109,627	113,536	120,577	78,917	84,497
25													
26													
27	**Accumulated Depreciation - Net Salvage**												
28													
29	Balance at Beginning of Year		3,693	3,470	3,287	2,847	2,159	1,662	1,352	477	1,486	3,692	3,642
30	Salvage Depreciation Expense		-	-	-	-	-	-	-	2,008	2,103	-	-
31	Dismantling		(223)	(183)	(440)	(688)	(497)	(310)	(874)	(1,000)	(1,264)	(50)	(50)
32													
33	Balance at End of Year		3,470	3,287	2,847	2,159	1,662	1,352	477	1,486	2,325	3,642	3,592
34													
35	**Net Property, Plant and Equipment**		137,513	141,901	145,395	153,103	159,756	168,085	180,319	203,648	219,197	137,768	143,967

ATCO Electric YUKON

October 24, 2023 AEY-YUB-2-002

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-002

Reference: GRA Regulatory Schedules — Updated re Depreciation Study

Issue: Depreciation expense

Quote: GRA Schedule 7.2 excerpt and note (1):

ATCO Electric Yukon (AEY)
2023 - 2024 General Rate Application (GRA)

Calculation of Depreciation Expense 2023
($000)

Line No.	Acct.	Description	Cross Ref.	2023 Opening PPE	Depreciation Life Rate	Depreciation on Opening Balance	Net Capital Additions	Depreciation on Capital Additions	2023 Life Depreciation
49	303 00	Demand Side Management[1]		923	20.00%	-	(923)	(185)	(185)
51									
52		Demand Side Management Depreciation Adjustment[1]							(378)
53									
54									
56		Plant Not Studied - Fish Lake Water License, DSM & Land		3,550					

(1) Demand side management (DSM) costs have been fully depreciated and needs to be retired. Upon review of this asset, AEY notes that demand side management has been over depreciated for 2.3 years. As a result, there will be no depreciation on the opening balance, there will be a credit to depreciation of 185 on the immediate retirement of this asset and an additional credit adjustment of 378. This results in a decrease to depreciation expense and revenue requirement.

Preamble: Schedule 7.2, Line 49 shows there is a 2023 opening balance of $0.923 million in DSM that is retired in that same year (as indicated by the negative capital addition).

Request:

(a) Referring to the ($0.185 million and $0.378 million) amounts indicated in note (1) on Schedule 7.2, please provide an explanation for how the over-depreciation occurred, and also identify the AEY processes and controls that are in place to prevent a similar occurrence of over-depreciation in the future for this or any other account.

(b) Please provide an expanded explanation for the decrease of $0.656 million[1] in depreciation expense — life between 2022 and 2023 that includes the error noted on Schedule 7.2, Line 49.

Response:

(a) The overcollection of costs related to the DSM Study costs is not an error and is consistent with the settlement of over or under collections in AEY's Reserve and Deferral accounts. In Board Order 2017-01, the Board approved deferral treatment of the DSM program study costs and directed AEY to treat the costs as capital costs. Accordingly, AEY has reflected these costs in its capital costs and on the depreciation schedules. There is no mechanism between test periods to stop the depreciation associated with these costs, so they continued to amortize given that the amortization costs remained part of AEY's Rider R. Because deferral treatment was approved for these costs, AEY has tracked them since the last test period and is proposing in the Application to refund them to customers by crediting the depreciation account. The credit to the depreciation account decreased depreciation and revenue requirement by $0.563 million. The result is the same as it would have been had AEY reflected the DSM program costs through its amortization of deferred charges schedule instead of reflecting them in its capital costs. Going forward, AEY recommends that all deferral costs be accounted for and settled through the amortization of deferred charges schedule. This method has a consistent settlement mechanism and would eliminate any confusion.

(b) Please refer to the table below for a breakdown of the $0.656 million, including the DSM program study costs refund discussed in the response to part (a) above.

[1] Calculated as 2022 actual depreciation expense – life of $7.343 million less 2023 forecast depreciation expense – life of $6,687 = decrease of $0.656 million.

Table 1: Decrease in Depreciation Between 2022 and 2023
($000)

Description	2022	2023	Difference
Change in Depreciable Base	7,956	8,867	911
Updated Depreciation Parameters	-	(818)	(818)
DSM Refund	-	(563)	(563)
Amortization of Differences - Life	(402)	(588)	(186)
Vehicle Depreciation Capitalized - Life	(211)	(211)	-
Total	**7,343**	**6,687**	**(656)**

October 24, 2023 AEY-YUB-2-003

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-003

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 7-8 and 13

Issue: Depreciation expense

Quote: PDF pages 7-8:

AEY has provided Concentric with the required information, as of December 31, 2022. This information has been compiled from the plant accounting records and includes the following:

▪ current balances by vintage year for each account (aged balances) through December 31, 2022. The balances provide the amount of investment sorted by installation year. This file is only inclusive of plant in service and does not include any retirement information;

▪ retirement transactions for all accounts through December 31, 2022. The transactions include information regarding the transaction year of the retirement, the installation year of the asset being retired, and the original cost of the asset being retired; and

▪ cost of removal and gross salvage transactions for all accounts requiring the recovery of net salvage through December 31, 2022. The transactions include information regarding the transaction year of the retirement, the costs associated with the retirement, and any gross salvage proceeds from the sale or reuse of the property.

PDF page 13:

The estimates of net salvage for the mass property accounts were based in part on historical data related to actual retirement activity for the years 1983 through 2022, with the majority of relevant cost of removal transactions occurring in the last 10 years.

Request:

(a) Referring to the table of comparison of account numbers used in the previous study to the account numbers used in this study prepared by Concentric, please explain whether, as a result of renaming the asset accounts, there were any transfers of asset data and costs between plant accounts. If confirmed, please explain how these transfers affected the outcome of the Depreciation Study for that or those account(s).

(b) Please provide a copy of the interview notes prepared by Concentric during its management and operational staff interviews as a component of the preparation of the Depreciation Study.

(c) Please provide tables summarizing the statistical peer information, identified by peer utility, used by Concentric for each of the depreciation parameters of average service life, Iowa curve and net salvage percentage.

(d) Based on the above quotes, it would appear that AEY provided all actuarial information to Concentric. However, certain placement and experience bands shown in sections 6 and 7 of the 2022 Depreciation Study Report indicate that bands of information were considered. The Board seeks to understand how Concentric generally used the data provided to it in relation to the range of dates or bands of dates indicated on the retirement rate and the net salvage study pages submitted. Should the 1962-2022 experience band dates be interpreted as having no asset retirements from 1945-1962?

(i) Should the net salvage study information be interpreted that there may have been retirements between the years 1983 and 1996 but that there was no net salvage recorded until 1996?

(ii) For example, for Account 365.10 — Distribution Plant — Overhead Services, Concentric used a placement band from 1945-2022; an experience band from 1962-2022 (PDF page 98); and, on the net salvage study, examined information from 1996-2022 (PDF page 149).

Please explain fully whether there have been any restrictions placed on the data available to Concentric in the 2022 Depreciation Study Report.

Response:

(a) There were no changes as a result of renaming accounts. AEY did; however, separate its vehicle accounts, formerly 484.00 - Transportation and Mobile Equipment, into three new accounts:

- Account 392.20 – Transportation Equipment, Fleet Vehicles – Category 2;
- Account 392.30 – Transportation Equipment, Fleet Vehicles – Category 3; and
- Account 392.40 – Transportation Equipment, Fleet Vehicles – Category 4.

This change ensured that assets with similar average service lives were grouped together and enabled the study to be completed at a lower level of granularity for these assets. Further, AEY added a new Account 347.20 – Renewable Energy Storage to capture investment in this new technology.

(b) The following response was prepared by Concentric:

Please refer to AEY-YUB-2-003(b) Attachment 1 for the operational notes from the staff interviews conducted as part of the preparation of the Depreciation Study.

(c) The following response was prepared by Concentric:

Please refer to AEY-YUB-2-003(c) Attachment 1 for the peer comparison tables summarizing the statistical peer information, identified by peer utility, used by Concentric for each of the depreciation parameters of average service life, Iowa curve and net salvage percentage. This attachment addresses and is referenced in multiple responses.

(d) AEY notes that it relied on data provided in the 2011 Depreciation Study, approved in Board Order 2014-06, and provided the incremental data for the 2012-2022 period, there were no restrictions on the data provided in either instance.

The following responses were prepared by Concentric:

(i-ii) The net salvage study should be interpreted as the first year of recorded cost of removal activity for this account in the dataset provided to Concentric for use in the Depreciation Study in 1996. The retirement experience in this

account matches the retirement experience in the actuarial analysis, which ties to the 1962-2022 experience band. The 1945-2022 placement band reflects the years in which the surviving assets in this account were placed in service.

The 1962-2022 experience band dates should be interpreted as the range in which exposures of plant in Account 365.10 were exposed to retirements, and experienced retirement.

There have been no restrictions placed on the data available to Concentric for the completion of the 2022 Depreciation Study.

Concentric's Minutes
Operational Interviews – ATCO Electric Yukon
June 13, 2023

Attended:

John Williams
Tony Badry
Norm Cuzon
Kyle Rolling
Rob Hancock
Michael Rousseau

9:00 AM

- Currently not collecting net salvage in rates due to Commission order.
- Increased salvage costs in recent years across majority of accounts, upcoming replacement projects, and low reserve balance ($477k) is grounds for reinstating net salvage rates.
- Life/Index study last done in 2012.
    - Proposing asset management program in next GRA.

Hydro Generation

- Fish Lake 1 – 2014 vintage; 785kW optimal power output.
    - Fish Lake (old plant) runner came apart (cracking was observed):
        - Pursued options to refurbish or rebuild.
        - Foundation was compromised.
        - Insurance proceeds were received (separate document outlining insurance proceeds received from ATCO).
        - Project to replace was included in the 2016/17 GRA.
    - Needs roof replacement in near-term - Design is done, materials are sourced, and material supply contracts are in place. Construction will happen in 2024. At the advice of legal the business did not pursue legal action. Multiple repair attempts under warranty without a successful repair.

    - Outbuildings are old and may require replacement - a single story metal storage building used for cold storage and a single-story wood framed structure that contains 3 separate storage areas, one of which is heated.

    - Fish Lake control structure was replaced in 2013/2014 (same years as the plant). We have multiple diversion structures that were replaced over 2016-2020 (Ditch 3 diversion, Ditch 1 spillway, Headpond 2 spillway, and Unit 1 spillway diversion).

    - Overflow exists, most water runs through pen stock.

- Fish Lake 2 – 1954 vintage; 490kW optimal power output.

    - End of life in approximately 3 years.

    - Full replacement but smaller in size than Fish Lake Unit 1.

    - No salvage value of plant, except maybe a couple of valves.

    - Pen stock replaced in 2010.

- Fish Lake license renewed in 2013 for 25-years.

- Water control structures.

    - Periodic rebuilds over last 10-years.

    - Total rebuild proposed in next GRA.

- Head ponds and spillways for each hydro plant.

- Control structures are concrete.

    - Replacements over last 10 years were 1950’s vintage.

- Franklin bypass located at Louise Lake Auxiliary Spillway Structure is still wood and needs replacement.

- No greenfield additions planned.

- New plant rebuild will have higher MW output.

- Step-up transformer at Fish Lake 2.

- Louise Lake Control Gate – 1960 vintage:

    - Manual gate.

- Largest control gate in fleet.
- level of the water at the control structure is continuously read and recorded via SCADA system. Field staff also read and record the staff gauge on site daily.
- Concrete was resurfaced in 2011 along with a new gate.

Diesel Generation (60's-80's Vintage)

- Used as peak power usage and not planning to retire to adhere to emissions regulations, upgrades are being made and investigated to reduce emissions.
    - Implementation of new technologies may not be feasible (i.e., biofuel/LNG/propane).
- Photovoltaic (solar)/wind not expected to replace.
- 3/5 plants need to be replaced.
- No reliable alternative to diesel at this time for remote communities.
- Recently replaced PLCs - To date the majority of the PLC models (GE-90-30) covered under this multi-year program have been replaced.
- Locations:
    - Destruction Bay;
    - Beaver Creek;
    - Watson Lake – gen sets replaced recently;
    - Swift River; and
    - Old Crow (70% replaced).
        - New plant built in 2016, replaced a 1950's asset.
        - Independent power solar farm connected – purchase agreement for this.
            - Signed 20-year EPA with IPP solar.
            - Solar charged battery energy storage system (BESS) provides 1-3 hours back up.
            - AEY owns connected battery storage assets.

- Purchased as a turnkey solution (i.e., battery, conductor, structure, miscellaneous equipment).
- Battery is trickle charged in winter to maintain asset.
- Batteries need to be located in a temperature controlled building therefore no anticipated performance issues related to operating in remote Northern communities.
- Replacement of batteries depends on usage, as technology advances it is undeterminable if whole battery needs to be replaced or just cells that aren't performing to tolerance levels (i.e., capacity falls below 80%).
- Estimate that batteries will need to be replaced 2 to 3 times every 20-25 years. This is strictly an estimate as the technology is very new and AEY has limited experience with this equipment.
- No forecast replacement included in Test period 2023-2024, just annual planned maintenance.

- Proposing 3 more batteries ($10+ M investment) in near-term.
  - Customer contribution (from IPP) for initial capital cost.
  - Maintenance and replacement costs will be borne by ratepayer.
  - Service life should be consistent with proposed treatment.

- Overall reduction in engine hours by 25% due to renewable generation.

- Fuel tanks are from mid-90's & some early 2000's – majority need replacement in next few years.
- Overhauls are based on manufacturer specifications.
  - Mobile gen used to ensure capacity.
- SCADA control systems can't shutdown, only monitor.
- 3/5 thermal plants are direct generating.
- 2/5 have step up transformers.
- Range 300kW to 1.4mW output.

- All are reciprocating units.
- Capital plan to do assessments on all units.

Distribution

- New substation on North Klondike, downtown, Whistlebend, due to capacity upgrades, load requirements
- Old substation downtown needs to replaced in next few years.
- Pole testing is almost complete (8-year cycle); Plan to change out 150 poles.
  - Majority older 1970's & earlier vintage.
- Joint use requirements are driving replacements (high in clearance requirements).
- Reconductoring of Alaska highway to improve protection coordination.
- Load growth driving upgrades at certain substations.
- No transformers containing PCBs.
- Padmount transformers make up approximately 40% of fleet.
- Manual meter reads currently (analog).
  - AMI pilot program underway (400 meters) but being applied for in next GRA.

Energy Transition

- Older homes will need to be electrified, which could affect load requirements and require investment in older communities.
- Secondary wiring needs to be replaced/upgraded to voltage requirements.
- 8 homes to each padmount transformer – if 2 homes require more than 9kV, upgrade would be necessary.
- Capacity upgrades mostly reactive.

Streetlights

- Not planning to transition to LEDs on a large scale; however, when replacement is required, LED lights are used due to material constraints for High Pressure Sodium lights.

Fleet

- Categorized based on ATCO standard classification of fleet vehicles.
- Large fleet typically ran to failure with negligible salvage received.
- Recent supply chain shortages lengthening life for some categories; not expected to be the norm going forward.
- Salvage estimates should be comparable to ATCO Electric Distribution (Alberta).

ATCO Electric Yukon

LIFE PEER REVIEW

RELATED TO UTILITY PLANT AS OF DECEMBER 31, 2022

DEPRECIATION RELATED TO RECOVERY OF ORIGINAL COST OF INVESTMENT

Asset Class #	Old Account	Description	Current (From Compliance Filing)	NTPC	BC Hydro	FortisBC Electric	Manitoba Hydro	ATCO Electric - Transmission (2018) & Dist. (2017)	Recommended Life	Recommended Curve	Notes
30200	49100	Franchises and Consents	N/A								
30300	49550	Intangible Other	N/A								
33100	42200	Structures and Improvements	72-R2			60-S1.5	65-S3		70	R2	
33200	42300	Reservoirs, Dams, and Waterways	103-R3		100-R3	70-S2.5	125-R4		100	R3	
33300	42500	Water Wheels, Turbines and Generators	85-R3		55-R3	70-R2.5	65-S3		85	R3	
33400	42600	Accessory Electric Equipment	45-R3			40-R2.5			40	R2.5	
33500	42700	Miscellaneous Power Plant Equipment	30-R2			51-R4			51	R4	
34120	44200	Int Combust Structures	40-R2.5	35-S3			30-S3	50-R2	40	R2	
34220	44400	Int Combust Fuel Holders, Producers and Accessories	35-R4	27-R2			27-R2.5	35-R3	40	R3	
34320	44500	Int Combust Generators	26-S2.5	32-R3	30-R3		30-R2	25-R3	26	S2	
34520	44600	Int Combust Accessory	35-R3	28-R2.5				35-R2	35	R3	
34620	44700	Int Combust Miscellaneous	40-R3	23-R2				40-R3	40	R3	
35300	45700	Transmission Station Equipment	50-R4	32-R3		50-R4		49-R3	50	R3	
36010	47100	Land Rights	75-R3					75-SQ	75	R3	
36200	47710	Distribution Station Equipment	40-R4	25-S2.5		50-R3	40-R3	55-R2.5	40	R2.5	
36210	48600	System Communication & Control	15-SQ					15-R2	15	SQ	
36400	47300	Poles, Towers and Fixtures	45-R3	50-R2	50-R2	50-R3	60-S0	45-R2.5	50	R2	
36500	47400	Overhead Conductors and Devices	45-R4	55-R4	50-R3	55-R2.5	60-R1	65-R3	50	R3	
36510	47410	Overhead Services	45-R3	55-R5	45-R3		35-R1.5	50-R2.5	50	R2.5	
36700	47500	Underground Conductor and Devices	45-R3	30-R5	40-R2		50-S1	55-R3.5	50	R3	
36710	47510	Underground Services	40-R4	55-R5	45-R3		35-R1.5	40-R3	50	R4	
36800	47910	Line Transformers	45-R3	50-R3	40-R4	37-R3		40-R1	45	R2.5	
37000	47610	Conventional Meters	15-L0	18-L1	20-R1	20-R1	15-L3	18-R1.5	15	R0.5	
37100	47630	Automated Meters	15-R2.5		20-R4	10-R0.5	26-L1.5	15-R2.5	15	R2.5	
37300	47810	Street Lights	30-R3	45-R2	40-R3		50-L3	43-R3	30	R3	
37310	47820	Sentinel Lights	23-R2	45-R2				40-R1	23	R2	
39000	48200	Structures and Improvements	40-L3	65-R1.5		35-S1	65-R3	45-R2.5	40	L3	
39001	48820	Structures and Improvements - Houses	40-R3	25-R0.5				12-L0	40	R3	
39100	48300	Office Furniture and Equipment	15-SQ	15-SQ		15-SQ	20-SQ	15-SQ	15	SQ	
39110	48320	Computer Hardware & Voice and Data Network Equipm	5-SQ	5-SQ		5-SQ	5-SQ	5-SQ	5	SQ	
39122	49602	Computer Software and Applications Major (10 YR)	10-S3	10-SQ	10-SQ	8-SQ	10-SQ	10-SQ	10	SQ	
39210	48401	Transportation Equipment, Fleet Vehicles, Category 1	12-L0	9-R2	10-L3	12-L1	10-L3	8-L1.5	12	L3	
39220	48401	Transportation Equipment, Fleet Vehicles, Category 2	12-L0	9-R2	10-L3	16-L2.5	11-L3	9-L2	12	L3	
39230	48401	Transportation Equipment, Fleet Vehicles, Category 3	12-L0	9-R2	12-L3		17-S3	19-S0	15	L3	
39240	48401	Transportation Equipment, Fleet Vehicles, Category 4	12-L0	9-R2	14-L3			11-L2.5	12	L0	
39400	48500	Tools, Shop, Garage, Stores and Laboratory Equipment	15-SQ	15-SQ	15-SQ	15-SQ	15-SQ	10-SQ	15	SQ	

ATCO Electric Yukon

SALVAGE PEER REVIEW

RELATED TO UTILITY PLANT AS OF DECEMBER 31, 2022

DEPRECIATION RELATED TO RECOVERY OF ORIGINAL COST OF INVESTMENT

Asset Class #	Old Account	Description	Current (From Compliance Filing) - None Approved	NTPC	BC Hydro	FortisBC Electric	Manitoba Hydro	AET - Transmission & Dist. (REQUESTED)	Recommended Life	Recommended Curve	Notes
30200	49100	Franchises and Consents	N/A								
30300	49550	Intangible Other	N/A								
33100	42200	Structures and Improvements	-10			-10%	0%				
33200	42300	Reservoirs, Dams, and Waterways	-10		0%	-25%	0%				
33300	42500	Water Wheels, Turbines and Generators	-10		0%	-30%	0%				
33400	42600	Accessory Electric Equipment	-10			-25%	0%				
33500	42700	Miscellaneous Power Plant Equipment	-10			-15%	0%				
34120	44200	Int Combust Structures	-10	-13%			0%	-185%			
34220	44400	Int Combust Fuel Holders, Producers and Accessories	-20	-25%			0%	-172%			
34320	44500	Int Combust Generators	-10	-5%	0%		0%	-12%			
34520	44600	Int Combust Accessory	0	-8%			0%	-17%			
34620	44700	Int Combust Miscellaneous	0	0%			0%	-19%			
35300	45700	Station Equipment	-10	-10%		-15%	0%	0%			
36010	47100	Land Rights	0				0%				
36200	47710	Station Equipment	-10	0%		-30%	0%	-5%			
36210	48600	System Communication & Control	0				0%				
36400	47300	Poles, Towers and Fixtures	-75	-5%	0%	-40%	0%	-65%			
36500	47400	Overhead Conductors and Devices	-80	-5%	0%	-40%	0%	-65%			
36510	47410	Overhead Services	-10	-8%	0%	0%	0%	0%			
36700	47500	Underground Conductor and Devices	-50	0%	0%	0%	0%	-10%			
36710	47510	Underground Services	-10	-8%	0%	0%	0%	0%			
36800	47910	Line Transformers	-10	-5%	0%	-40%	0%	5%			
37000	47610	Conventional Meters	0	0%	0%	0%	0%	0%			
37100	47630	Automated Meters	0	0%	0%	0%	0%	0%			
37300	47810	Street Lights	-10	-8%	0%	-20%	0%	-10%			
37310	47820	Sentinel Lights	0	0%			0%	20%			
39000	48200	Structures and Improvements	0	0%		0%	0%	-5%			
39001	48820	Structures and Improvements - Houses	10	0%		0%	0%	85%			
39100	48300	Office Furniture and Equipment	0	0%		0%	0%	0%			
39110	48320	Computer Hardware & Voice and Data Network Equipment	0	0%		0%	0%	0%			
39122	49602	Computer Software and Applications Major (10 YR)	10	0%	0%	0%	0%	0%			
39210	48401	Transportation Equipment, Fleet Vehicles, Category 1	25	5%	0%	15%	0%	12%			All part of 484.00 in previous study
39220	48401	Transportation Equipment, Fleet Vehicles, Category 2	25	5%	0%	15%	0%	10%			All part of 484.00 in previous study
39230	48401	Transportation Equipment, Fleet Vehicles, Category 3	25	5%	0%	15%	0%	20%			All part of 484.00 in previous study
39240	48401	Transportation Equipment, Fleet Vehicles, Category 4	25	5%	0%	15%	0%	20%			All part of 484.00 in previous study
39400	48500	Tools, Shop, Garage, Stores and Laboratory Equipment	0	0%	0%		0%				

October 24, 2023 AEY-YUB-2-004

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-004

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 14-15, 47 and 136

Issue: Depreciation expense — Account 331.00 — Hydro generation plant — Structures and improvements

Quote: Conversations with AEY operational staff and subject matter experts indicated that the recommended life for this account is consistent with their opinion that there is no change in practice and the future retirement activity should not be materially different from what has been experienced in the past.

Request:

(a) Other than a smaller residual measure associated with the proposed 70-R2 life-curve, what other rationale is there for a change from the currently approved 72-R2 life-curve for Account 331.00 — Hydro generation plant — Structures and improvements given the comments from AEY employees?

(b) Please confirm there were no asset retirements prior to 2013 for Account 331.00 — Hydro generation plant — Structures and improvements.

(c) Referring to PDF page 136, please provide a reason for the net salvage amount of positive $10,978 in 2020 (the equivalent of gross salvage).

Response:

(a) The following response was prepared by Concentric:

The rationale for proposing the 70-R2 life-curve is partially based on the peer analysis, where peers came in lower than what was currently approved for AEY by approximately 10-years. The smaller residual measure is a large part of the proposed change, but more due to the retirement experience occurring within this

account at early vintages. With this account not having available data to rely upon in the previous study, Concentric has proposed to start to recognize this retirement experience while not materially changing the life. This was then confirmed by discussions with AEY staff during the completion of the study.

(b) AEY cannot comment at this time. During the preparation of this response, AEY has identified a classification error for retirements within the Hydro Generation asset accounts. The $652,731 on page 136 of the submitted study, needs to be reclassed as shown in the table below:

Table 1: Hydro Generation Asset Accounts

Account	Retirement Amount
331.00 – Structures and Improvements	$109,652
332.00 – Reservoirs, Dams, and Waterways	$0
333.00 – Water Wheels, Turbines and Generators	$401,965
334.00 – Accessory Electric Equipment	$76,622
335.00 – Miscellaneous Power Plant Equipment	$64,492
Total	**$652,731**

AEY commits to engage Concentric and update the relevant depreciation tables and actuarial analysis for these accounts. AEY will be providing an update prior to the commencement of the hearing with the required corrections, and that it will include a response to this IR at the time.

(c) As part of AEY's project close-out process, it reviews final project costs for accuracy and noted an incorrect amount charged to cost of removal in 2019 that was subsequently corrected in 2020. The net salvage amount of positive $10,978 in 2020 on PDF p. 136 reflects the correction that was made.

ATCO Electric
YUKON

October 24, 2023 AEY-YUB-2-005

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-005

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 15, 49 and 137

Issue: Depreciation expense — Account 332.00 — Hydro generation plant — Reservoirs, dams and waterways

Quote: Although roughly half of the historical retirements were experienced before age 30 ($379,932), conversations with AEY operational staff and subject matter experts indicated that the recommended life for this account is consistent with their opinion that there is no change in practice and the future retirement activity should not be materially different from what has been experienced in the past.

Request:

(a) Please provide the range of years (of data) used in the experience band in AEY's previous Depreciation Study for Account 332.00 — Hydro generation plant — Reservoirs, dams and waterways.

(b) Other than a smaller residual measure associated with the proposed 100-R3 life-curve, what other rationale is there for a change from the currently approved 103-R3 life-curve for Account 332.00 — Hydro generation plant — Reservoirs, dams and waterways given the comments from AEY employees?

(c) Please confirm that there were no asset retirements or NS costs prior to 2019 for Account 332.00 — Hydro generation plant — Reservoirs, dams and waterways. If not confirmed, please explain the range of dates used in the net salvage study (2019-2022).

(d) Please provide detail supporting the negative net salvage amount of $44,309 incurred in 2019 for this account. Please include supporting documentation such as an invoice or similar substantiation.

Response:

(a) The following response was prepared by Concentric:

Refer to the excerpt below from the 2011 Gannett Fleming previous ATCO Electric Yukon Depreciation Study regarding this account:

> …Retirement history of the assets in each of the specific accounts was not available Retirement history of the assets in each of the specific accounts was not available for review. As such, Gannett Fleming recommends the incorporation of the survivor curve estimates for the respective Hydraulic accounts be based upon Yukon Electric Corporation's (YEC) survivor curve estimates as submitted to the Yukon Utilities Board at this time. Gannett Fleming has reviewed the life estimates filed in the YEC proceeding and finds them to be reasonable to use as a proxy for Yukon Electrical Corporation Limited (YECL) Hydraulic accounts until sufficient data by account is collected.

After reviewing the KPMG study on the YEC system and its associated workpapers, provided in an IR Response,[1] Concentric has determined the experience band utilized in that study to be a band of 1986-2010.

AEY notes the 2011 Gannett Fleming Study has been provided in AEY-YUB-2-005(a) Attachment 1.

(b) The following response was prepared by Concentric:

The rationale that were used in changing the recommendation to a 100-year Average Service Life (ASL) from the currently approved 103-years were to better align it with the peer group studied, a better statistical fit to data through the above-mentioned residual measure, and the approximately five-year difference in the maximum life associated with the 100-year ASL versus the 103-year ASL. Ten additional years of retirement history were included in the actuarial analysis since

[1] Yukon Energy Corporation 2012-2013 General Rate Application – YECL-YEC-1-60(d) Attachment 1.

the last study, which has demonstrated a need for a slightly shorter life estimate than what is currently approved.

(c) Please refer to response to AEY-YUB-2-004(b).

(d) Please refer to the table below:

Table 1: Breakdown of $44,309 – Cost of Removal

Project Name	Cost	Type of Cost
Dyke Upgrade	$23,000	1% of total project cost
Spillway Upgrade	$21,309	4% of total project cost
Total	**$44,309**	

The negative net salvage amount represents the costs of the removals, which have been accounted for in the two upgrade projects noted in the above table. Please refer to the response to AEY-YUB-2-001(f) for an explanation of how these percentages are derived. Please note, the percentage is not applied transaction by transaction, but it takes the total of applicable capital tasks and then applies the percentage. It would be administrative burdensome to provide all invoices for these projects and there is not one invoice that would show the amounts noted in this response.

YUKON ELECTRICAL COMPANY LIMITED

Whitehorse, Yukon

DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES APPLICABLE TO PLANT IN SERVICE AS OF DECEMBER 31, 2011



Excellence Delivered ***As Promised***

Gannett Fleming

Excellence Delivered ***As Promised***

April 8, 2013

Yukon Electrical Company Limited
100 – 1100 1st Avenue
Whitehorse, Yukon Y1A 3T4

Attention: Mr. Jerry Janow
Manager Regulatory – Special Projects

Dear Mr. Janow:

Pursuant to your request, we have conducted a depreciation study related to the electric hydro and diesel production, distribution, and general plant systems of Yukon Electrical Company Limited ("YECL" or "the Company") as of December 31, 2011. Our report presents a description of the methods used in the estimation of depreciation, the statistical analyses of service life and net salvage estimates and the summary and detailed tabulations of annual and accrued depreciation.

The calculated annual depreciation accrual rates presented in the report are applicable to plant in service as of December 31, 2011. The depreciation rates are based on the straight-line whole life method using the equal life group procedure. An annual review of the depreciation rates using the same estimates and methods is recommended.

Respectfully submitted,

GANNETT FLEMING CANADA ULC

LARRY E. KENNEDY
Vice President

LEK/hac:056572

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PART I. INTRODUCTION

YUKON ELECTRICAL COMPANY LIMITED
DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES APPLICABLE TO PLANT IN SERVICE AS OF DECEMBER 31, 2011

PART I. INTRODUCTION

SCOPE

This report sets forth the results of the depreciation study conducted for the electric hydro and diesel production, distribution, and general plant assets of Yukon Electrical Company Limited ("YECL" or "the Company") to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the original cost of plant as of December 31, 2011.

The depreciation accrual rates presented herein are based on generally-accepted methods and procedures for calculating depreciation. The estimated survivor curves used in this report are based on studies incorporating data through 2011.

Part I, Introduction, contains statements with respect to the scope of the report and the basis of the study. Part II, Methods Used in the Calculation of Depreciation, presents the methods used in the estimation of average service lives, net salvage percentages, survivor curves and in the calculation of depreciation. Part III, Results of Study, presents a summary of annual depreciation. Part IV, Service Life Statistics, presents the statistical analyses of service lives. Part V, presents the statistical analysis of net salvage percentages, and Part VI, Detailed Depreciation Calculations, presents the detailed tabulations of annual and accrued depreciation.

BASIS OF THE STUDY

Depreciation. The depreciation accrual rates and accrued depreciation were calculated using the straight line method, the whole life basis and the equal life group (ELG) procedure. Any variances in the booked accumulated depreciation balances, and the calculated accumulated depreciation requirements are trued-up over the composite remaining life of each account. The calculation was based on the attained ages and estimated service life and net salvage characteristics for each depreciable group of assets.

Service Life and Net Salvage Estimates. The method of estimating service life consisted of compiling the service life history of the plant accounts and subaccounts, reducing this history to trends through the use of analytical techniques that have been generally accepted in various regulatory jurisdictions, and forecasting the trend of survivors for each depreciable group on the basis of interpretations of past trends and consideration of Company plans for the future. The combination of the historical trend and the estimated future trend yielded a complete pattern of life characteristics from which the average service life was derived. The service life estimates used in the depreciation calculation incorporated historical data compiled through December 31, 2011. Such data included plant additions, retirements, transfers and other plant activity.

A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirement was obtained through contact with Company personnel, and through physical site tours.

The net salvage estimates were based on judgment that incorporated analyses of historical data, a review of policies and outlook with Company management, a

general knowledge of the electric utility industry, and comparisons of the net salvage estimates from studies of other electric utilities. The analyses of historic retirement activity, costs of retirement, and gross salvage proceeds, consisted of expressing the cost of removal and gross salvage as percents of the original cost retired on annual and moving average bases.

RECOMMENDATIONS

The calculated annual depreciation accrual rates set forth herein apply specifically to plant in service as of December 31, 2011. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate depreciation rates.

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

The survivor curves and net salvage percents used in this study should be the basis for annual recalculations. Complete depreciation studies, which re-evaluate these parameters, should be performed every three to five years.

PART II. METHODS USED IN THE ESTIMATION OF DEPRECIATION

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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, 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 distribution 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 the selection of group depreciation procedures. These subjects are discussed in the sections that follow.

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 Iowa 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 and is derived by obtaining the differences between the amount of property surviving at the beginning and at the end of each interval.

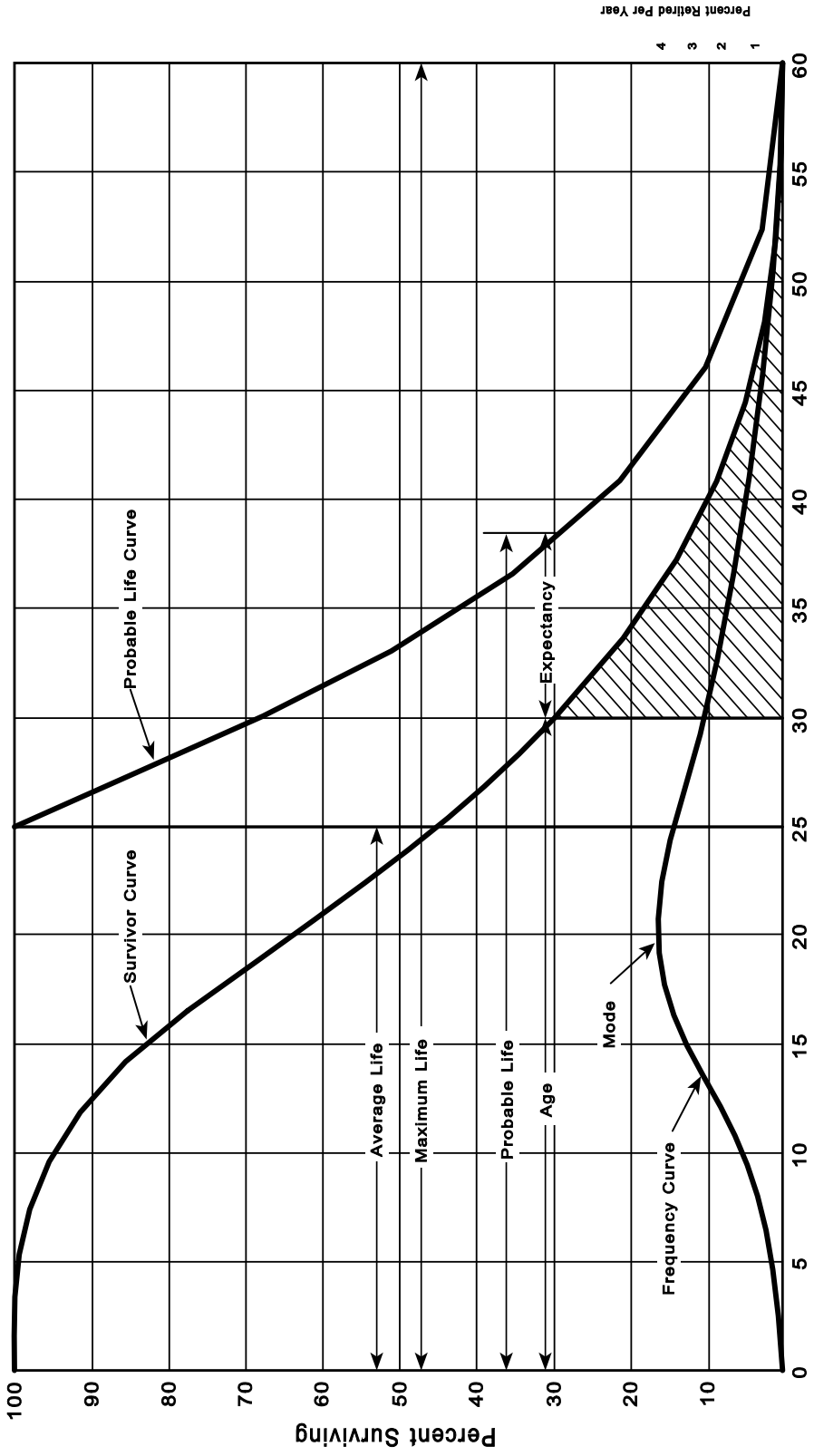


Figure 1. A Typical Survivor Curve and Derived Curves

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 Iowa type curves. There are four families in the Iowa 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 Iowa curves were developed at the Iowa 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 type curves have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and

[1] Winfrey, Robley. Statistical Analyses of Industrial Property Retirements. Iowa State College, Engineering Experiment Station, Bulletin 125. 1935.

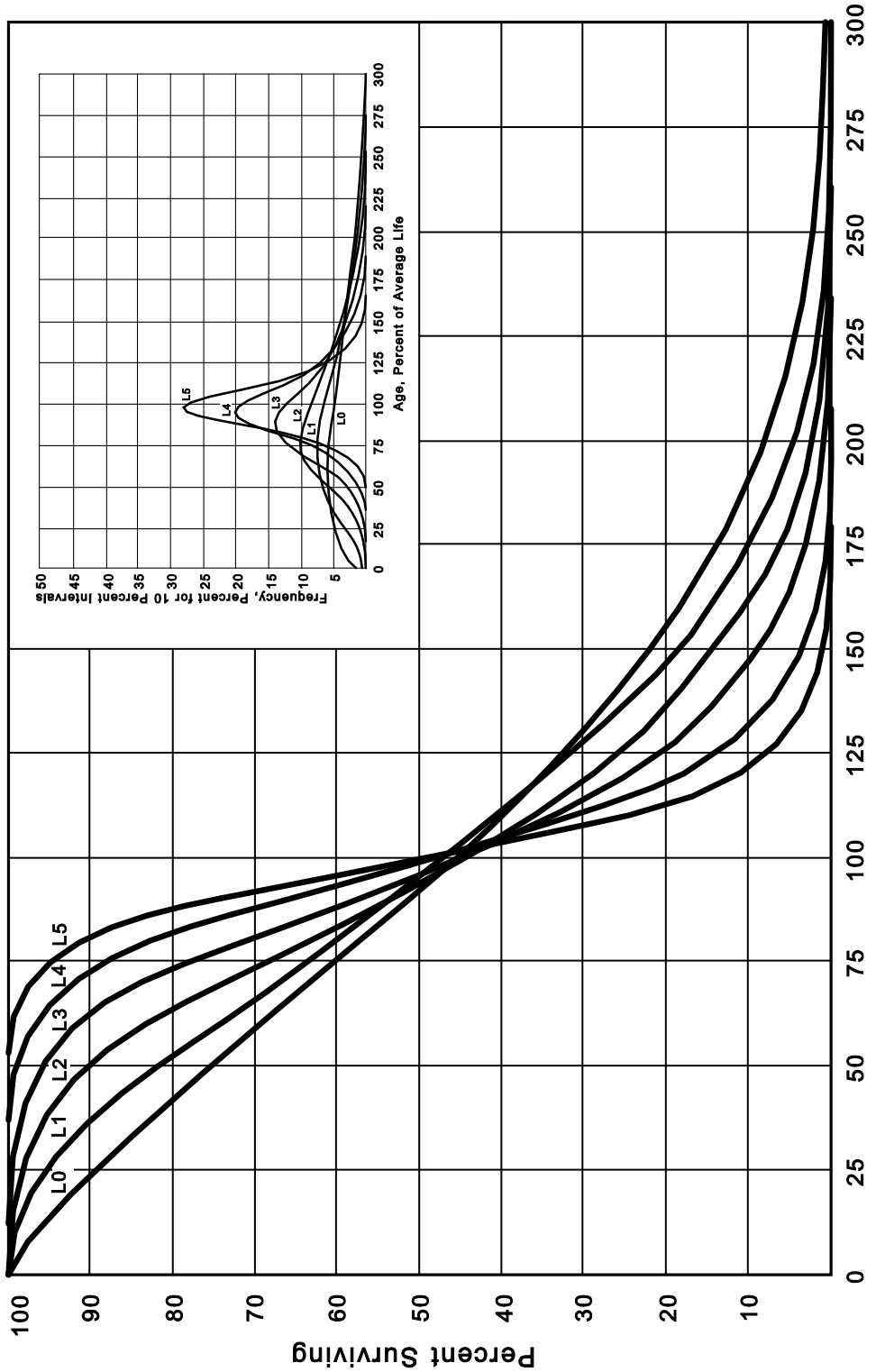


Figure 2. Left Modal or "L" Iowa Type Survivor Curves

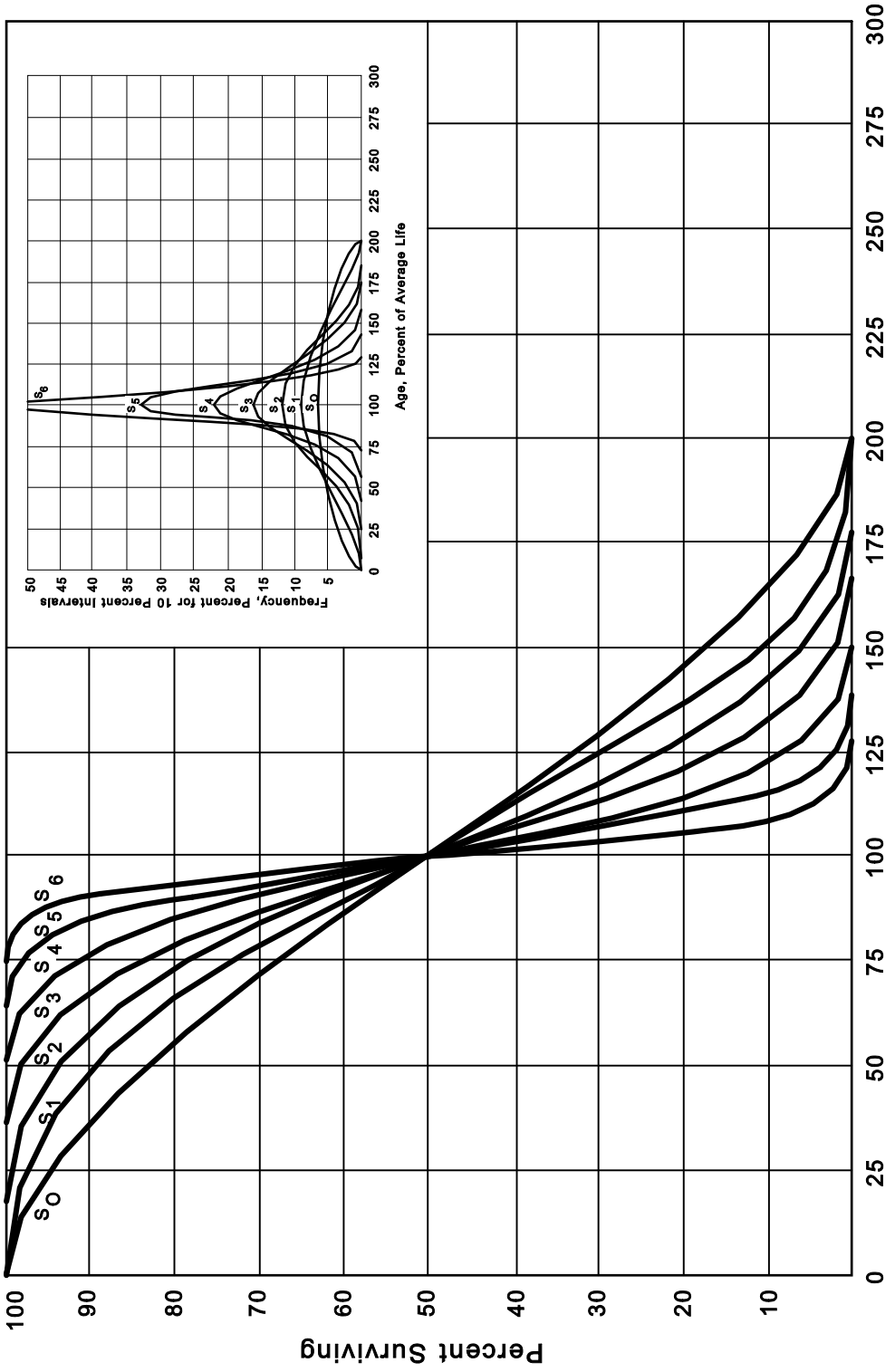


Figure 3. Symmetrical or "S" Iowa Type Survivor Curves

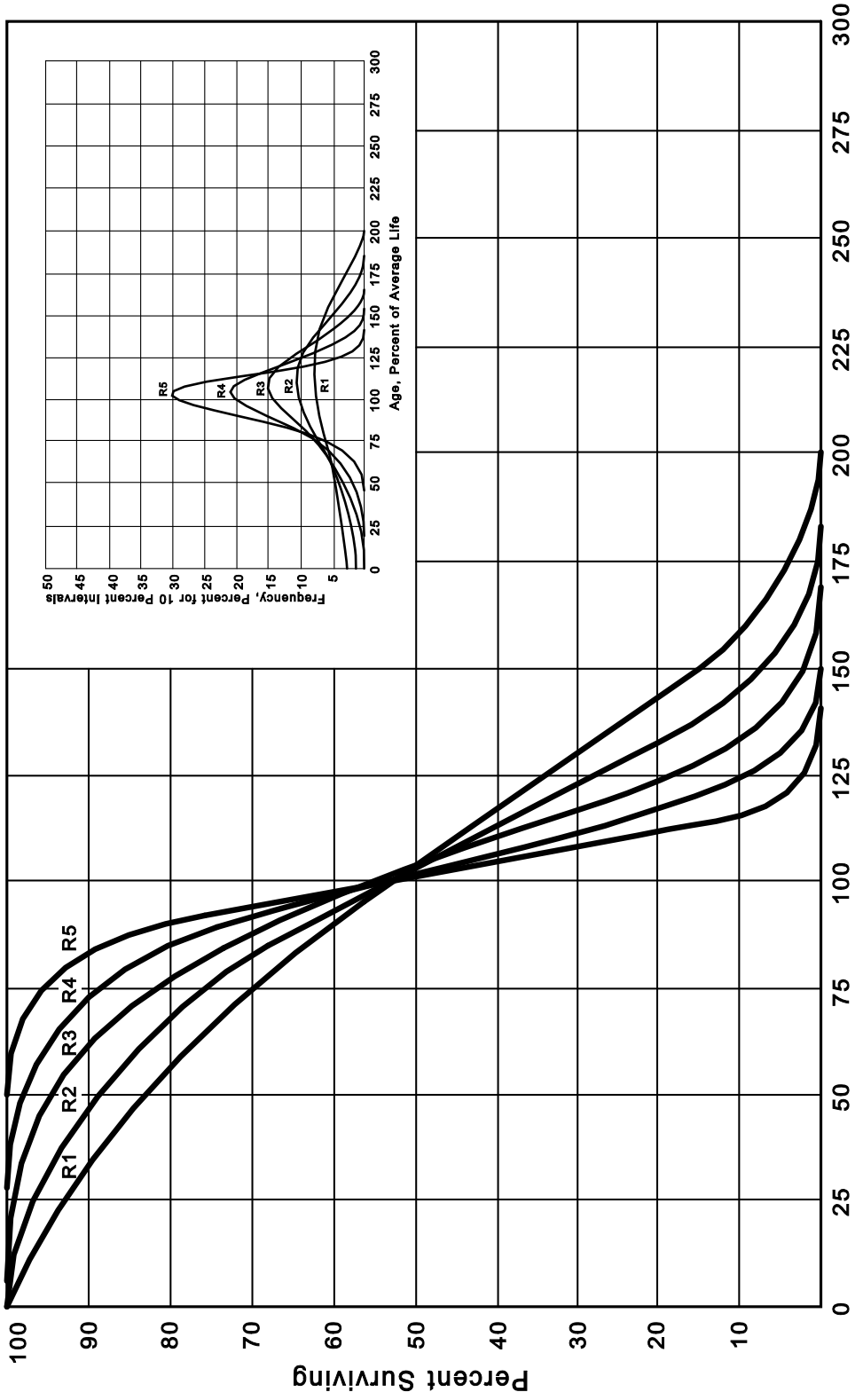


Figure 4. Right Modal or "R" Iowa Type Survivor Curves

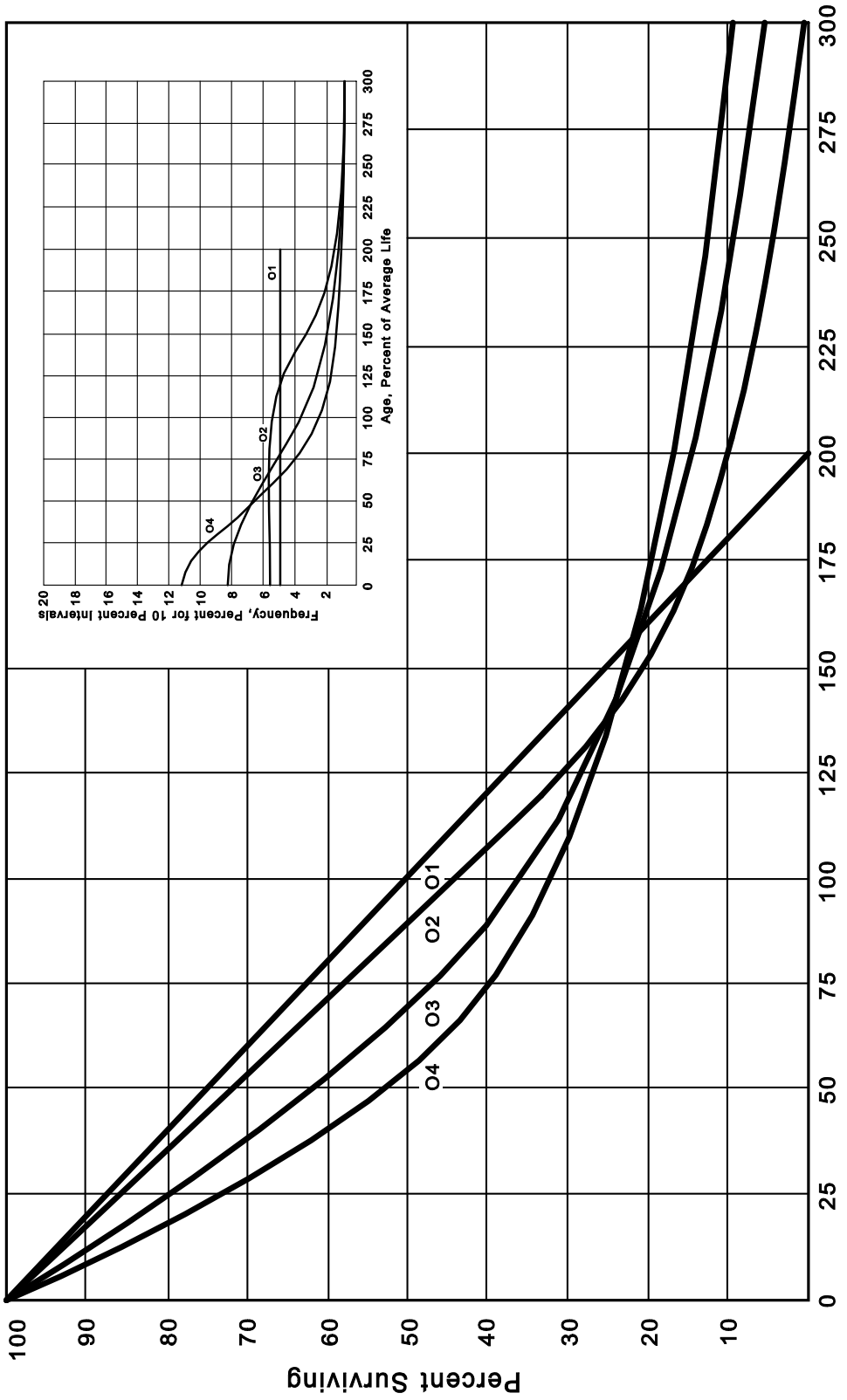


Figure 5. Origin Modal or "O" Iowa Type Survivor Curves

Depreciation."[2] In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student, submitted a thesis[3] presenting his development of the fourth family consisting of the four O 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 or for which aged accounting experience is developed by statistically aging unaged amounts 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,"[4] "Engineering Valuation and Depreciation,"[5] and "Depreciation Systems."[6]

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 experience band, 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 placement band. An example of the calculations used in the development of a life table follows. The

[2]Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

[3]Couch, 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.

[4]Winfrey, Robley, Supra Note 1.

[5]Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 2.

[6]Wolf, Frank K. and W. Chester Fitch. Depreciation Systems. Iowa State University Press. 1994

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 2002-2011 during which there were placements during the years 1997-2011. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Tables 1 and 2 on the following pages. In Table 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 1997 was retired in 2002. 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 4½-5½ is the sum of the retirements entered on Table 1 immediately above the stairstep line drawn on the table beginning with the 2002 retirements of 1997 installations and ending with the 2011 retirements of the 2006 installations. Thus, the total amount of 143 for age interval 4½-5½ equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20.$$

TABLE 1. RETIREMENTS FOR EACH YEAR 2002-2011
SUMMARIZED BY AGE INTERVAL

Experience Band 2002-2011

Placement Band 1997-2011

Year Placed	Retirements, Thousands of Dollars During Year										Total During Age Interval	Age Interval
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1997	10	11	12	13	14	16	23	24	25	26	26	13½-14½
1998	11	12	13	15	16	18	20	21	22	19	44	12½-13½
1999	11	12	13	14	16	17	19	21	22	18	64	11½-12½
2000	8	9	10	11	11	13	14	15	16	17	83	10½-11½
2001	9	10	11	12	13	14	16	17	19	20	93	9½-10½
2002	4	9	10	11	12	13	14	15	16	20	105	8½-9½
2003		5	11	12	13	14	15	16	18	20	113	7½-8½
2004			6	12	13	15	16	17	19	19	124	6½-7½
2005				6	13	15	16	17	19	19	131	5½-6½
2006					7	14	16	17	19	20	143	4½-5½
2007						8	18	20	22	23	146	3½-4½
2008							9	20	22	25	150	2½-3½
2009								11	23	25	151	1½-2½
2010									11	24	153	½-1½
2011										13	80	0-½
Total	53	68	86	106	128	157	196	231	273	308	1,606	

TABLE 2. OTHER TRANSACTIONS FOR EACH YEAR 2002-2011
SUMMARIZED BY AGE INTERVAL

Experience Band 2002-2011 Placement Band 1997-2011

Year Placed (1)	Acquisitions, Transfers and Sales, Thousands of Dollars During Year 2002 (2)	2003 (3)	2004 (4)	2005 (5)	2006 (6)	2007 (7)	2008 (8)	2009 (9)	2010 (10)	2011 (11)	Total During Age Interval (12)	Age Interval (13)
1997	-	-	-	-	-	-	60[a]	-	-	-	-	13½-14½
1998	-	-	-	-	-	-	-	-	-	-	-	12½-13½
1999	-	-	-	-	-	-	-	-	-	-	-	11½-12½
2000	-	-	-	-	-	-	-	(5)[b]	-	-	60	10½-11½
2001	-	-	-	-	-	-	-	6[a]	-	-	-	9½-10½
2002		-	-	-	-	-	-	-	-	-	(5)	8½-9½
2003		-	-	-	-	-	-	-	-	-	6	7½-8½
2004			-	-	-	-	-	-	-	-	-	6½-7½
2005				-	-	-	-	(12)[b]	-	-	-	5½-6½
2006					-	-	-	-	22[a]	-	-	4½-5½
2007						-	-	(19)[b]	-	-	10	3½-4½
2008							-	-	-	-	-	2½-3½
2009								-	-	(102)[c]	(121)	1½-2½
2010									-	-	-	½-1½
2011	—	—	—	—	—	—	—	—	—	—	-	0-½
Total	-	-	-	-	-	-	60	(30)	22	(102)	(50)	

[a] Transfer Affecting Exposures at Beginning of Year
[b] Transfer Affecting Exposures at End of Year
[c] Sale with Continued Use
Parentheses denote Credit amount.

In Table 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 Table 3 on page ll-15. The surviving plant at the beginning of each year from 2002 through 2011 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 Table 3 for each successive year following the beginning balance or addition is obtained by adding or subtracting the net entries shown on Tables 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at 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 beginning of 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 2007 are calculated in the following manner:

Exposures at age 0	= amount of addition	= $750,000
Exposures at age ½	= $750,000 - $ 8,000	= $742,000
Exposures at age 1½	= $742,000 - $18,000	= $724,000
Exposures at age 2½	= $724,000 - $20,000 - $19,000	= $685,000
Exposures at age 3½	= $685,000 - $22,000	= $663,000

TABLE 3. PLANT EXPOSED TO RETIREMENT JANUARY 1
OF EACH YEAR 2002-2011
SUMMARIZED BY AGE INTERVAL

Experience Band 2002-2011 Placement Band 1997-2011

Exposures, Thousands of Dollars

Year Placed	Annual Survivors at the Beginning of the Year										Total at Beginning of Age Interval	Age Interval
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1997	255	245	234	222	209	195	239	216	192	167	167	13½-14½
1998	279	268	256	243	228	212	194	174	153	131	323	12½-13½
1999	307	296	284	271	257	241	224	205	184	162	531	11½-12½
2000	338	330	321	311	300	289	276	262	242	226	823	10½-11½
2001	376	367	357	346	334	321	307	297	280	261	1,097	9½-10½
2002	420[a]	416	407	397	386	374	361	347	332	316	1,503	8½-9½
2003		460[a]	455	444	432	419	405	390	374	356	1,952	7½-8½
2004			510[a]	504	492	479	464	448	431	412	2,463	6½-7½
2005				580[a]	574	561	546	530	501	482	3,057	5½-6½
2006					660[a]	653	639	623	628	609	3,789	4½-5½
2007						750[a]	742	724	685	663	4,332	3½-4½
2008							850[a]	841	821	799	4,955	2½-3½
2009								960[a]	949	926	5,719	1½-2½
2010									1,080[a]	1,069	6,579	½-1½
2011											7,490	0-½
Total	1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852	7,799	44,780	

[a] Additions during the year.

For the entire experience band 2002-2011, 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 (Table 1). For example, the figure of 3,789 shown as the total exposures at the beginning of age interval 4½-5½, is obtained by summing:

255 + 268 + 284 + 311 + 334 + 374 + 405 + 448 + 501 + 609.

Original Life Table. The original life table, illustrated in Table 4 on page II-17**,** is developed from the totals shown on the schedules of retirements and exposures, Tables 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 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 5½ are as follows:

Percent surviving at age 4½	=	88.15				
Exposures at age 4½	=	3,789,000				
Retirements from age 4½ to 5½	=	143,000				
Retirement Ratio	=	143,000	÷	3,789,000	=	0.0377
Survivor Ratio	=	1.000	-	0.0377	=	0.9623
Percent surviving at age 5½	=	(88.15)	x	(0.9623)	=	84.83

TABLE 4. ORIGINAL LIFE TABLE

CALCULATED BY THE RETIREMENT RATE METHOD

Experience Band 2002-2011 Placement Band 1997-2011

(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 Ratio (5)	Percent Surviving at Beginning of Age Interval (6)
0.0	7,490	80	0.0107	0.9893	100.00
0.5	6,579	153	0.0233	0.9767	98.93
1.5	5,719	151	0.0264	0.9736	96.62
2.5	4,955	150	0.0303	0.9697	94.07
3.5	4,332	146	0.0337	0.9663	91.22
4.5	3,789	143	0.0377	0.9623	88.15
5.5	3,057	131	0.0429	0.9571	84.83
6.5	2,463	124	0.0503	0.9497	81.19
7.5	1,952	113	0.0579	0.9421	77.11
8.5	1,503	105	0.0699	0.9301	72.65
9.5	1,097	93	0.0848	0.9152	67.57
10.5	823	83	0.1009	0.8991	61.84
11.5	531	64	0.1205	0.8795	55.60
12.5	323	44	0.1362	0.8638	48.90
13.5	167	26	0.1557	0.8443	42.24
					35.66
Total	44,780	1,606			

Column 2 from Table 3, Column 12, Plant Exposed to Retirement.
Column 3 from Table 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.

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Tables 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, Table 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 Iowa 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 Iowa 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 Table 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life

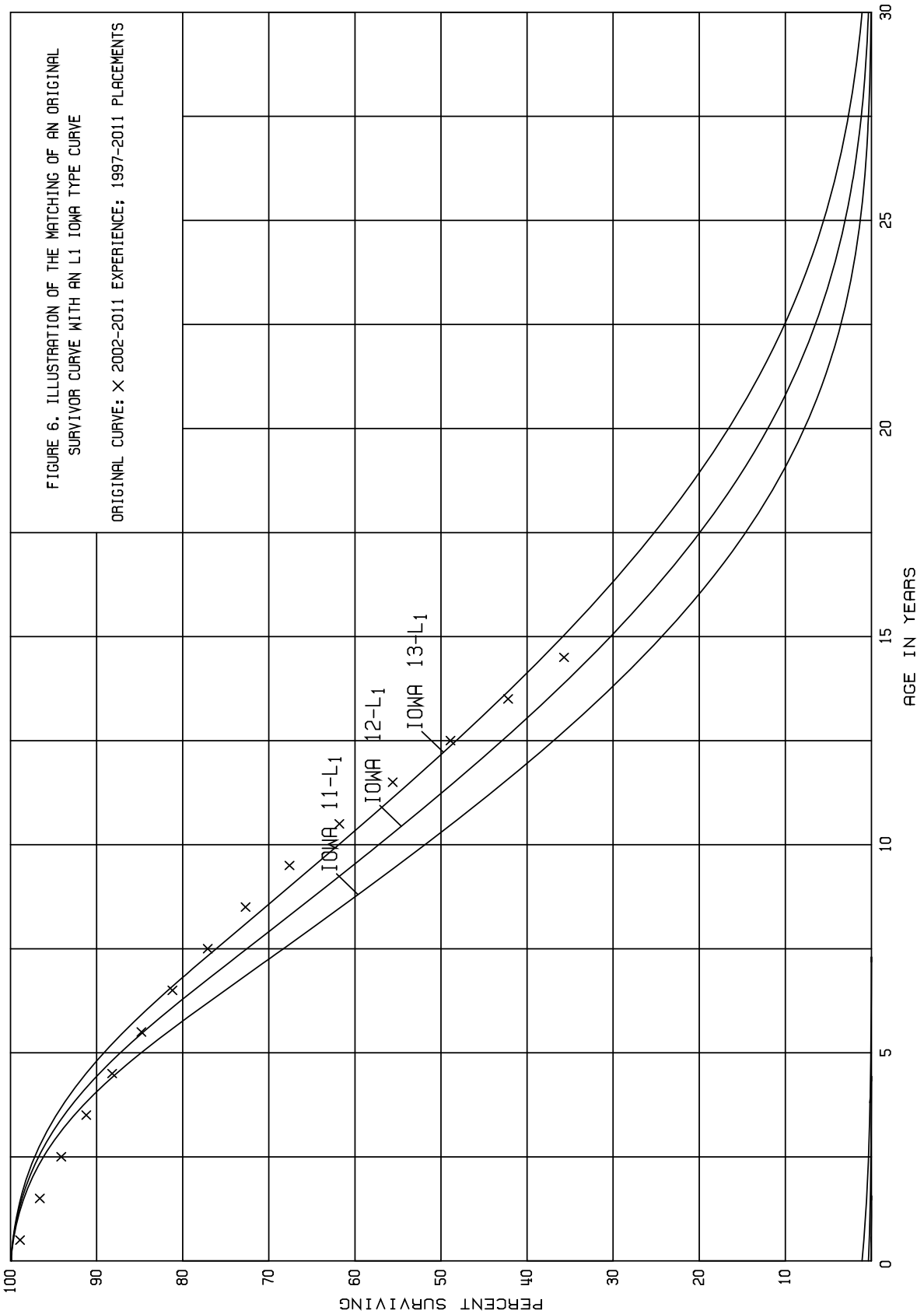


FIGURE 6. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1 IOWA TYPE CURVE
ORIGINAL CURVE: X 2002-2011 EXPERIENCE; 1997-2011 PLACEMENTS
IOWA 11-L1
IOWA 12-L1
IOWA 13-L1
PERCENT SURVIVING
AGE IN YEARS
100
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30

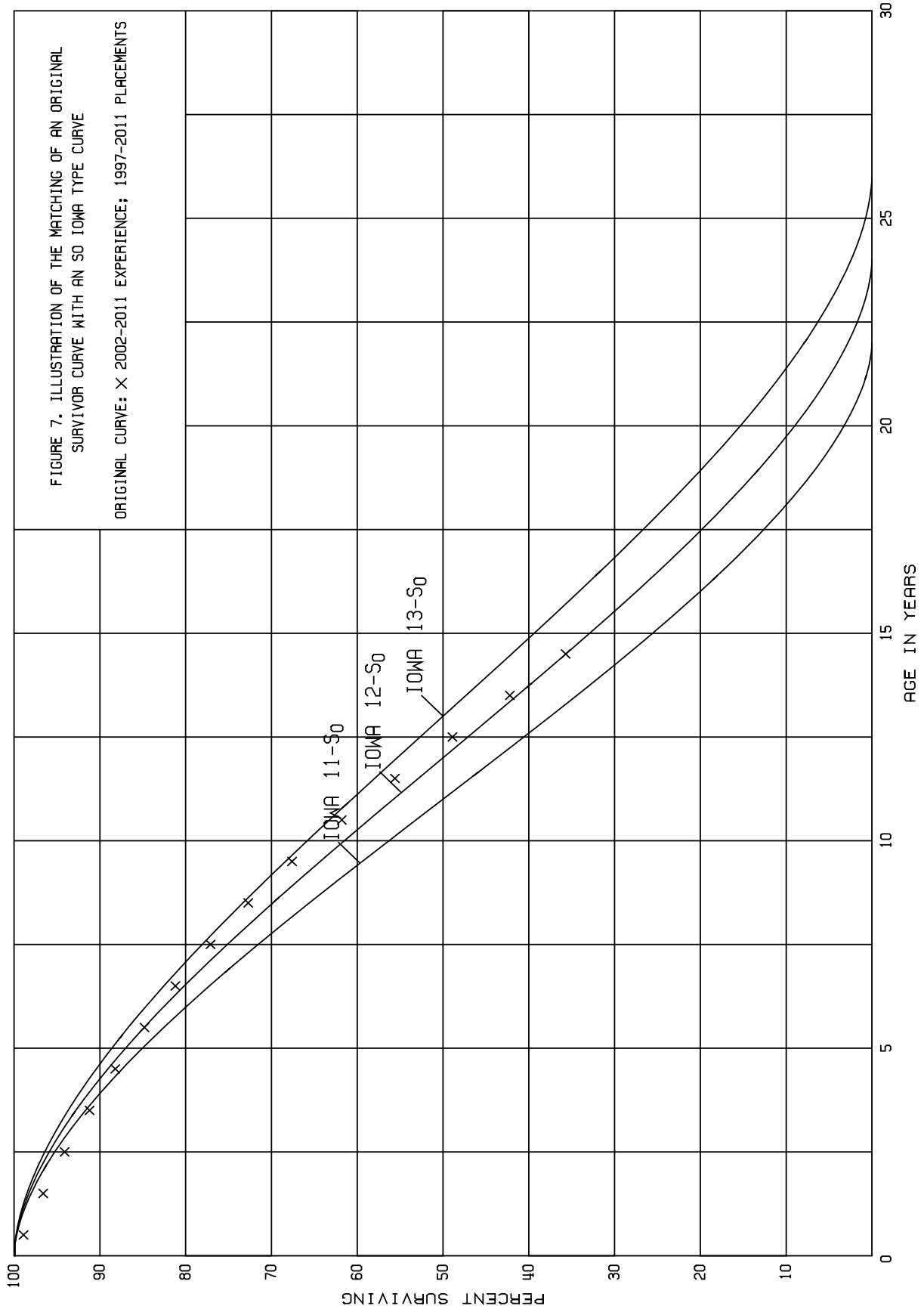


FIGURE 7. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN SO IOWA TYPE CURVE
ORIGINAL CURVE: X 2002-2011 EXPERIENCE; 1997-2011 PLACEMENTS
IOWA 11-S0
IOWA 12-S0
IOWA 13-S0
PERCENT SURVIVING
AGE IN YEARS
100
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30

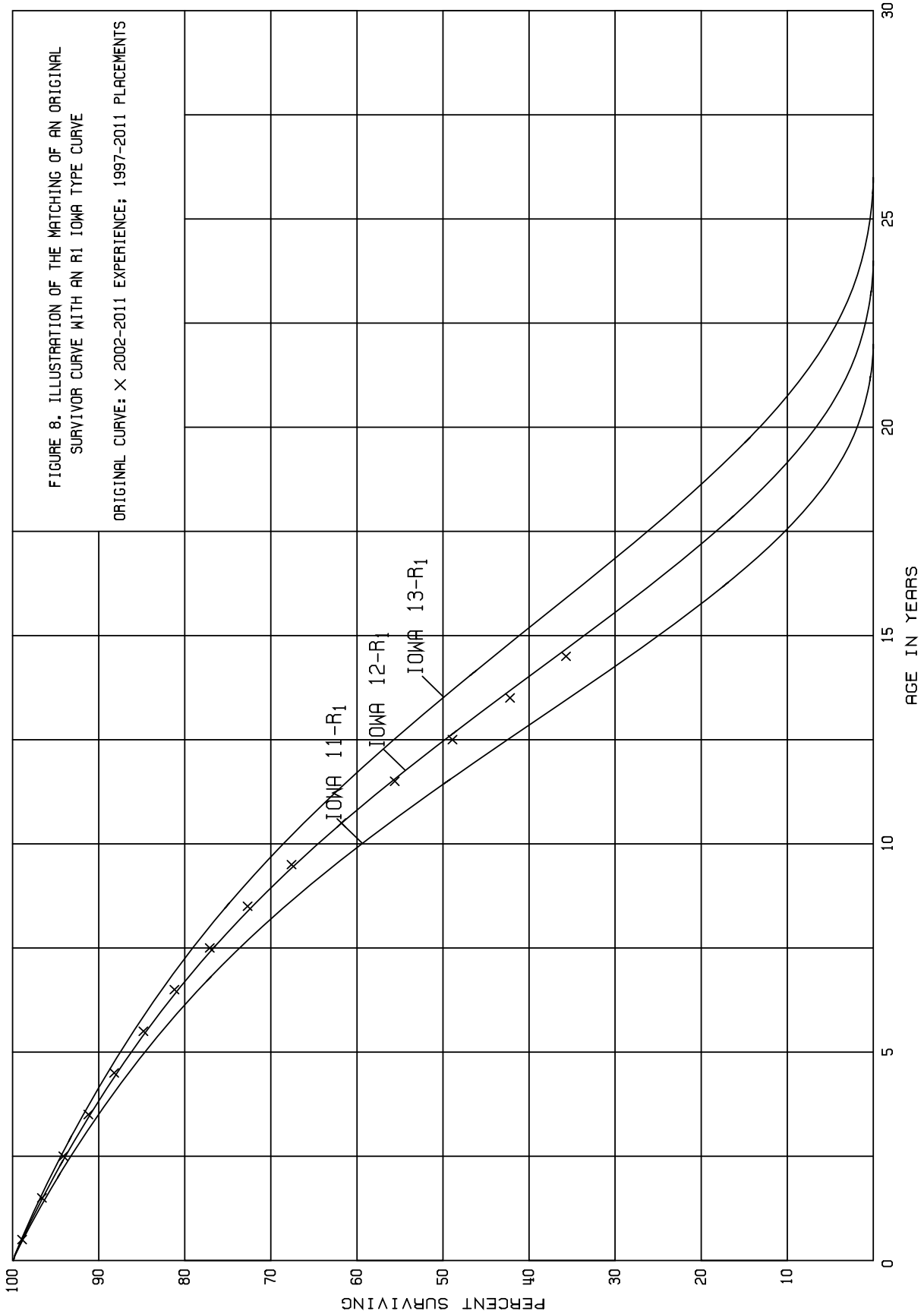


FIGURE 8. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN R1 IOWA TYPE CURVE
ORIGINAL CURVE: X 2002-2011 EXPERIENCE; 1997-2011 PLACEMENTS
IOWA 11-R1
IOWA 12-R1
IOWA 13-R1
PERCENT SURVIVING
100
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30
AGE IN YEARS

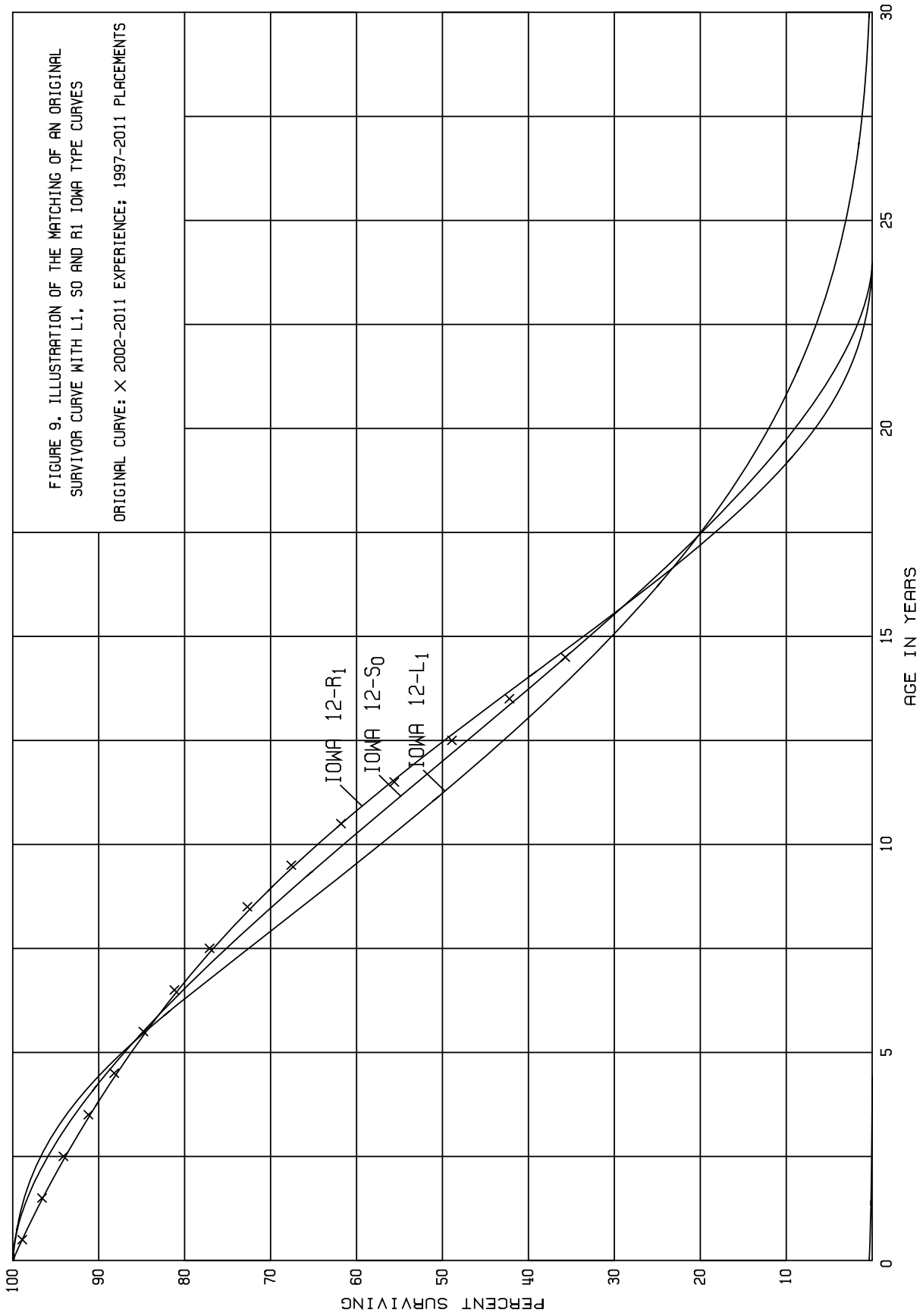


FIGURE 9. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH L1, SO AND R1 IOWA TYPE CURVES
ORIGINAL CURVE: X 2002-2011 EXPERIENCE; 1997-2011 PLACEMENTS
IOWA 12-R1
IOWA 12-S0
IOWA 12-L1
PERCENT SURVIVING
100
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30
AGE IN YEARS

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 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group, assuming no contrary relevant factors external to the analysis of historical data.

Survivor Curve 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 and engineering staff; and survivor curve estimates from previous studies of this Company and other electric distribution companies.

Account 473.00 – Distribution Poles, Towers, and Fixtures, represents 21% of the depreciable plant studied. Following discussions with YECL management it was recommended that all Distribution Poles, Towers and Fixtures be analyzed together as one group. The retirements, additions and other plant transactions for the period 1960 through 2011 were analyzed by the retirement rate method. The original survivor curve, as plotted on page IV-18, indicates consistent retirement ratios through to age 43, then accelerating retirement ratios through to age 52. The previously approved estimate for this account was the Iowa 40-R3. The Iowa 45-R3, selected in this study, increases the average service life for the account by five years. Typical average service lives for this type of equipment normally range from 35 to 45 years. The 45-R3 provides a

reasonable interpretation of the historical data, and is forecast to be representative of the anticipated future retirement activity. Future studies will need to consider lengthening the average service life again if the indications of longer life continue to be apparent at that time.

Account 479.10 – Distribution Line Transformers, represents 17% of the depreciable plant studied. Historical retirements, additions and other plant transactions for the period 1946 through 2011 were analyzed by the retirement rate method. The original survivor curve, as plotted on page IV-44, indicates a modest level of retirement activity in the early years of the accounts life with an increase in retirements shown at ages 33 through 65. Typical Iowa curve estimates for this type of electric distribution plant usually range from 35 to 45 years. The previously approved estimate for this account was the Iowa 35-R3. The Iowa 45-R3 curve selected for this study provides a better recognition of the historic retirement experience, conforms to the expectations of the engineering staff, is within the range typically used by industry, and provides for a reasonable expectation of the future retirement trends.

Account 475.00 – Distribution Underground Conduit, represents 14% of the depreciable plant studied. Historical retirements, additions and other plant transactions for the period 1985 through 2011 were analyzed by the retirement rate method. Typical Iowa curve estimates for this type of electric distribution plant usually range from 35 to 60 years. The previously approved estimate for this account was the Iowa 50-R4, has been adjusted to the Iowa 45-R3 to better fit industry retirement trends. The selected Iowa 45-R3 conforms to the expectations of the company's engineering staff, and is in

the range typically used by industry. Gannett Fleming views that the selected 45-R3 provides for a reasonable expectation of the future retirement trends.

Account 474.00 – Distribution Overhead Conductor, represents 14% of the depreciable plant studied. The original survivor curve, as plotted on page IV-21**,** shows a generally uniform pattern of retirements from early in the accounts life through to age 33. The currently approved Iowa 40-R3 has been modified to the Iowa 45-R4 to better fit the historic retirement indications. Typical average service life indications for this type of electric utility plant range from 35 to 45 years. The selected 45-R4 is in the range typically used by industry and conforms to the expectations of the company's engineering staff.

Account 478.10 – Distribution Street Lights and Signal Systems, represents 6% of the depreciable plant studied. Plant accounting transactions from 1958 through 2011 were analyzed by the retirement rate method. The original survivor curve, as plotted on page IV-39, shows a consistent decline rate of plant retirement through age 17, and continuing out to age 32. Typical average service life indications for this type of plant range from 20 years to 43 years. The previously approved estimate for this account was the Iowa 25-R3, has been adjusted to the Iowa 30-R3 to better fit industry retirement trends. The selected Iowa 30-R3 conforms to the expectations of the company's engineering staff, and is in the range typically used by industry. Gannett Fleming views that the selected 30-R3 provides for a reasonable expectation of the future retirement trends.

Account 482.00 – Structures and Improvements, represents 6% of the depreciable plant studied. The original survivor curve, as plotted on page IV-47**,** shows

a generally cluster pattern of retirements from early in the accounts life through to age 25 and then again at age 34. The currently approved Iowa 32-R4 has been modified to the Iowa 40-L3 to better fit the historic retirement indications. Typical average service life indications for this type of electric utility plant range from 15 to 55 years. The selected 40-L3 is in the range typically used by industry and conforms to the expectations of the company's engineering staff.

Account 477.10 – Distribution Substation Equipment, represents 2% of the depreciable plant studied. The retirements, additions and other plant transactions for the period 1985 through 2011 were analyzed by the retirement rate method. The original survivor curve, as plotted on page IV-36, indicates consistent retirement ratios through to age 50. The previously approved estimate for this account was the Iowa 35-R3. The Iowa 40-R4, selected in this study, increases the average service life for the account by five years. Typical average service lives for this type of equipment normally range from 27 to 55 years. The 40-R4 provides a reasonable interpretation of the historical data, and is forecast to be representative of the anticipated future retirement activity. Future studies will need to consider lengthening the average service life again if the indications of longer life continue to be apparent at that time.

Account 475.10 – Distribution Underground Services, represents 2% of the depreciable plant studied. The original survivor curve, as plotted on page IV-30**,** shows a generally uniform pattern of retirements from early in the accounts life through to age 31, and then continues uniformly to age 38. The currently approved Iowa 40-R4 remains unchanged in fitting the historic retirement indications. Typical average service life indications for this type of electric utility plant range from 35 to 50 years. The selected

40-R4 is in the range typically used by industry and conforms to the expectations of the company's engineering staff.

Accounts 422.00 thru 427.00 – Hydraulic Assets, represents 2.6% in aggregate of the depreciable plant studied. Retirement history of the assets in each of the specific accounts was not available for review. As such, Gannett Fleming recommends the incorporation of the survivor curve estimates for the respective Hydraulic accounts be based upon Yukon Electric Corporation's (YEC) survivor curve estimates as submitted to the Yukon Utilities Board at this time. Gannett Fleming has reviewed the life estimates filed in the YEC proceeding and finds them to be reasonable to use as a proxy for Yukon Electrical Corporation Limited (YECL) Hydraulic accounts until sufficient data by account is collected:

- Account 422.00 - Structures
- Account 423.00 - Reservoirs, Dams and Waterways
- Account 425.00 - Generators
- Account 426.00 - Accessory and Electrical Equipment
- Account 427.00 - Miscellaneous Equipment

The survivor curve estimates for the remaining accounts were based on similar considerations of historical analyses, management outlook and estimates for this Company and other electric utilities.

ESTIMATION OF NET SALVAGE

The concept of the inclusion of net salvage percentage in this study is discussed in the "Additional Evidence of Larry Kennedy".

The estimates of net salvage were based primarily on the professional judgment of Gannett Fleming, in part on historical data for the years 1983 through 2011, and in part through a comparison to peer electric distribution companies. Gross salvage and

cost of removal as recorded to the depreciation reserve account and related to experienced retirements were used. Percentages of the cost of plant retired were calculated for each component of net salvage on both annual and three-year moving average bases.

The net salvage percentages estimated in this study have been determined using the "Traditional Approach" for net salvage estimation. The estimates of net salvage were based in part on the database of historic transactions encompassing the period 1983 through 2011, as presented beginning on page V-2 of this report.

When a utility retires plant, the plant may be: (1) sold to a third party; (2) reused by the utility for additional service; (3) abandoned in place; or (4) physically removed. In the circumstances where the plant is sold or re-used, a salvage proceed (or positive salvage amount) is normally recognized. In circumstances where the plant is abandoned in place or physically removed, a cost of removal expenditure (or negative salvage) is incurred. The net of these estimated gross salvage proceeds and the estimated costs of removal are expressed as a percentage of the account's original cost to determine a net salvage percentage. In the circumstances where the salvage proceeds exceed the costs of retirement, a net positive salvage percentage exists. In the circumstances where the costs of removal exceed the salvage proceeds, a net negative salvage percentage results.

The estimation of the net salvage percentages developed using the traditional approach, included the following steps:

1. The annual retirement, gross salvage and cost of removal transactions for the period January 1, 1983 through December 31, 2011 were extracted from the plant accounting systems.

2. A net salvage amount (gross salvage proceeds less cost of retirement) was calculated for each historic year. Additionally, a net salvage amount was also calculated for each historic three-year rolling band and the most recent five-year rolling band.

3. The net salvage amount determined above was compared to the original booked costs retired for each period in the manner described, which resulted in a net salvage percentage of original costs retired for each year, in addition to three-year rolling bands and the most recent five-year rolling band.

4. The annual, the three-year rolling average, and the most recent five-year rolling average net salvage percentages were analyzed to determine a reasonable estimated net salvage percentage. At this point the net salvage percentage was based purely upon statistical analysis.

5. Each account was then compared to the net salvage percentage currently approved, compared to peer electric distribution companies, and discussed with company engineering staff. Based on the statistical analysis, the review of current and peer company net salvage percentages, and with the professional judgment of Gannett Fleming, a net salvage percentage was determined for each account.

6. The net salvage percentage was then used in the depreciation rate calculations in the technical update.

CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

Group Depreciation Procedures. 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 and equal life group.

In the average service life procedure, the rate of annual depreciation is based on the average life or 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 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 this procedure, the accrued depreciation is based on the average service life of the group and the average remaining life of each vintage within the group derived from the area under the survivor curve between the attained age of the vintage and the maximum age.

In the equal life group 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. The table on the following page presents an illustration of the calculation of equal life group depreciation using the Iowa 15-R2.5 survivor curve, 0 percent net salvage and a December 31, 2011 calculation date. In the table, each equal life group is defined by the age interval shown in columns 1 and 2. These are the ages at which the first and last retirement of each group occurs, and the group's equal life, shown in column 3, is the midpoint of the interval. For purposes of the calculation, each vintage is divided into equal life groups arranged so that the midpoint of each one-year age interval coincides with the calculation date, e.g., December 31 in this case. This enables the calculation of annual accruals for a twelve-month period centered on the date of calculation.

The retirement during the age interval, shown in column 4, is the size of each equal life group and is derived from the Iowa 15-R2.5 survivor curve and 0 percent net

salvage. It is the difference between the percents surviving at the beginning and end of the age interval. Each equal life group's annual accrual, shown in column 5, equals the group's size (column 4) divided by its life (column 3).

DETAILED COMPUTATION OF ANNUAL AND ACCRUED FACTORS USING THE EQUAL LIFE GROUP PROCEDURE

INPUT PARAMETERS:
CALCULATION DATE.. 12-31-2011
SURVIVOR CURVE.... 15-R2.5

AGE INTERVAL BEG (1)	AGE INTERVAL END (2)	LIFE (3)	RETIREMENTS DURING INTERVAL (4)	GROUP ANNUAL ACCRUAL (5)=(4)/(3)	YEAR INST (6)	SUMMATION OF ANNUAL ACCRUALS (7)	AVERAGE PERCENT SURVIVING (8)	ANNUAL FACTOR (9)	ACCRUED FACTOR (10)
0.000	1.000	0.500	0.41456	0.41456000000	2011	8.48317016669	99.801689	0.0850	0.0425
1.000	2.000	1.500	0.54270	0.36180000000	2010	7.88771016669	99.314092	0.0794	0.1191
2.000	3.000	2.500	0.70644	0.28257600000	2009	7.56552216669	98.689522	0.0767	0.1918
3.000	4.000	3.500	0.91471	0.26134571429	2008	7.29356130954	97.878946	0.0745	0.2608
4.000	5.000	4.500	1.17180	0.26040000000	2007	7.03268845240	96.835691	0.0726	0.3267
5.000	6.000	5.500	1.48669	0.27030727273	2006	6.76733481603	95.506445	0.0709	0.3900
6.000	7.000	6.500	1.86917	0.28756461538	2005	6.48839887198	93.828517	0.0692	0.4498
7.000	8.000	7.500	2.32013	0.30935066667	2004	6.18994123095	91.733866	0.0675	0.5063
8.000	9.000	8.500	2.85052	0.33535529412	2003	5.86758825056	89.148540	0.0658	0.5593
9.000	10.000	9.500	3.47395	0.36567894737	2002	5.51707112981	85.986307	0.0642	0.6099
10.000	11.000	10.500	4.19137	0.39917809524	2001	5.13464260851	82.153647	0.0625	0.6563
11.000	12.000	11.500	5.01523	0.43610695652	2000	4.71700008263	77.550345	0.0608	0.6992
12.000	13.000	12.500	5.94099	0.47527920000	1999	4.26130700437	72.072235	0.0591	0.7388
13.000	14.000	13.500	6.90555	0.51152222222	1998	3.76790629326	65.648964	0.0574	0.7749
14.000	15.000	14.500	7.81260	0.53880000000	1997	3.24274518215	58.289889	0.0556	0.8062
15.000	16.000	15.500	8.49729	0.54821225806	1996	2.69923905312	50.134944	0.0538	0.8339
16.000	17.000	16.500	8.76020	0.53092121212	1995	2.15967231803	41.506200	0.0520	0.8580
17.000	18.000	17.500	8.48031	0.48458914286	1994	1.65191714054	32.885946	0.0502	0.8785
18.000	19.000	18.500	7.64316	0.41314378378	1993	1.20305067722	24.824209	0.0485	0.8973
19.000	20.000	19.500	6.41852	0.32915487179	1992	0.83190134943	17.793368	0.0468	0.9126
20.000	21.000	20.500	5.04643	0.24616731707	1991	0.54424025500	12.060894	0.0451	0.9246
21.000	22.000	21.500	3.72024	0.17303441860	1990	0.33463938717	7.677558	0.0436	0.9374
22.000	23.000	22.500	2.56793	0.11413022222	1989	0.19105706676	4.533472	0.0421	0.9473
23.000	24.000	23.500	1.62424	0.06911659574	1988	0.09943365778	2.437389	0.0408	0.9588
24.000	25.000	24.500	0.92634	0.03780979592	1987	0.04597046195	1.162100	0.0396	0.9702
25.000	26.000	25.500	0.48697	0.01909686275	1986	0.01751713261	0.455446	0.0385	0.9818
26.000	27.000	26.500	0.18915	0.00713773585	1985	0.00439983331	0.117386	0.0375	0.9938
27.000	27.900	27.450	0.02281	0.00083096539	1984	0.00037393443	0.010265	0.0364	1.0000
TOTAL			100.00000						

Columns 6 through 10 show the derivation of the annual and accrued factors for each vintage based on the information developed in the first five columns. The year installed is shown in column 6. For all vintages other than 2011, the summation of annual accruals for each year installed, shown in column 7, is calculated by adding one-half of the group annual accrual (column 5) for that vintage's current age interval plus the group annual accruals for all succeeding age intervals. For example, the figure

7.88771016669 for 2010 equals one-half of 0.36180000000 plus all of the succeeding figures in column 5. Only one-half of the annual accrual for the vintage's current age interval group is included in the summation because the equal life group for that interval has reached the year during which it is expected to be retired.

The summation of annual accruals (column 7) for installations during 2011 is calculated on the basis of an in-service date at the midpoint of the year, i.e., June 30. In as much as the overall calculation is centered of December 31, 2011, the first figure in column 7, for vintage 2011, equals all of the group annual accrual for the first equal life group plus the accruals for all of the subsequent equal life groups.

The average percent surviving derived from the Iowa 15-R2.5 survivor curve and 0 percent net salvage is shown in column 8 for each age interval. The annual factor, shown in column 9, is the result of dividing the summation of annual accruals (column 7) by the average percent surviving (column 8). The accrued factor, shown in column 10, equals the annual factor multiplied by the age of the group at December 31, 2011**.**

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 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 reducing accumulated depreciation variances for all accounts that incorporated the use of the ELG procedure applied on a whole life basis is derived by compositing the individual equal life group remaining lives in accordance with the following equation:

$$\text{Composite Remaining Life} = \frac{\sum(\frac{\text{Book Cost}}{\text{Life}} \text{ x Remaining Life})}{\sum \frac{\text{Book Cost}}{\text{Life}}}.$$

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.

In as much as book cost divided by life equals the whole life annual accrual, the foregoing equation reduces to the following form:

$$\text{Composite Remaining Life} = \frac{\sum \text{Whole Life Future Accruals}}{\sum \text{Whole Life Annual Accruals}}$$

Or

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

PART III. RESULTS OF STUDY

PART III. RESULTS OF STUDY

QUALIFICATION OF RESULTS

The calculated annual and accrued depreciation and the calculation of the composite average remaining life 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 and net salvage estimates were based on judgment that incorporated statistical analysis of retirement data, discussions with management and consideration of estimates made for other electric utilities. The results of the statistical analysis of service life are presented in the supporting materials document beginning on page IV-2. The results of the net salvage analysis are presented beginning on page V-2.

For each depreciable group analyzed by the retirement rate method, a chart depicting the original and estimated survivor curves is 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 were 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 that appear in the experience.

The tables of the calculated annual depreciation applicable to plant as of December 31, 2011 are presented in account sequence starting on page V-2**.** 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, the allocated book reserve, future book accruals, remaining life and the calculated annual accrual.

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	ANNUAL ACCRUAL RATE
	(1)	(2)	(3)	(4)	(5)	(6)=(5)/(3)
GENERATION						
HYDRO GENERATION (LIFE SPAN OF 2052)						
422.00	HYDRO STRUCTURES	72-R2	215,286	59,965	4,724	2.19
423.00	HYDRO RESERVOIRS, DAMS AND WATERWAYS	103-R3	1,875,073	316,708	39,536	2.11
425.00	HYDRO GENERATORS	85-R3	1,458,435	153,398	33,511	2.30
426.00	HYDRO ACCESSORIES AND EQUIPMENT	45-R3	105,192	48,486	2,443	2.32
427.00	HYDRO MISCELLANEOUS EQUIPMENT	30-R2	68,657	19,466	2,643	3.85
TOTAL HYDRO PLANT			**3,722,643**	**598,025**	**82,856**	
DIESEL GENERATION						
BEAVER CREEK (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	37,488	22,252	902	2.41
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	92,859	40,692	2,719	2.93
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	535,779	367,441	19,646	3.67
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	173,365	57,897	5,302	3.06
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	48,603	8,191	1,388	2.86
TOTAL BEAVER CREEK			**888,094**	**496,472**	**29,957**	
CARMACKS (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	167,739	44,228	4,784	2.85
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	40,394	25,071	1,163	2.88
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	419,543	309,237	14,948	3.56
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	101,158	34,682	3,102	3.07
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	7,366	535	221	3.00
TOTAL CARMACKS			**736,201**	**413,753**	**24,217**	
DESTRUCTION BAY (LIFE SPAN OF 2023)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	42,282	31,221	1,178	2.79
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	105,478	54,551	4,473	4.24
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	488,076	140,036	31,506	6.46
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	284,627	142,466	12,854	4.52
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	28,048	13,174	1,306	4.66
TOTAL DESTRUCTION BAY			**948,512**	**381,448**	**51,317**	
HAINES JUNCTION (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	608,472	115,568	18,129	2.98
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	619,132	248,915	18,389	2.97
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	60,097	37,282	2,307	3.84
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	94,952	47,493	2,677	2.82
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	2,454	1,482	58	2.36
TOTAL HAINES JUNCTION			**1,385,107**	**450,740**	**41,561**	
OLD CROW (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	187,900	101,997	4,652	2.48
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	215,087	82,975	6,303	2.93
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	1,223,713	529,491	49,686	4.06
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	119,365	68,323	3,379	2.83
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	171,496	66,532	4,561	2.66
TOTAL OLD CROW			**1,917,561**	**849,318**	**68,581**	

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	RATE
	(1)	(2)	(3)	(4)	(5)	(6)=(5)/(3)
PELLY CROSSING (LIFE SPAN OF 2033)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	48,892	33,820	1,158	2.37
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	129,302	92,887	3,533	2.73
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	474,056	300,758	17,945	3.79
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	431,735	164,126	15,056	3.49
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	61,485	20,121	2,170	3.53
TOTAL PELLY CROSSING			**1,145,469**	**611,712**	**39,862**	
ROSS RIVER (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	171,221	57,383	4,713	2.75
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	85,126	32,959	2,547	2.99
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	189,753	147,095	6,507	3.43
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	124,872	48,576	3,768	3.02
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	9,639	1,775	273	2.83
TOTAL ROSS RIVER			**580,611**	**287,788**	**17,808**	
STEWART CROSSING (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	247,966	64,265	7,068	2.85
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	65,107	14,928	1,947	2.99
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	45,677	24,846	1,675	3.67
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	70,425	26,610	2,126	3.02
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	84,682	6,985	2,533	2.99
TOTAL STEWART CROSSING			**513,857**	**137,634**	**15,348**	
SWIFT RIVER (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	22,503	9,907	583	2.59
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	63,430	37,645	1,828	2.88
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	241,047	98,815	9,675	4.01
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	93,560	31,055	2,880	3.08
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	11,924	3,190	328	2.75
TOTAL SWIFT RIVER			**432,465**	**180,612**	**15,295**	
TESLIN (LIFE SPAN OF 2053)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	37,986	10,437	1,133	2.98
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	99,863	22,619	3,016	3.02
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	762,034	524,432	28,347	3.72
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	54,417	25,006	1,611	2.96
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	69,778	9,302	2,014	2.89
TOTAL TESLIN			**1,024,077**	**591,796**	**36,121**	
WATSON LAKE (LIFE SPAN OF 2113)						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	359,393	203,938	8,843	2.46
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	747,818	108,117	22,509	3.01
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	2,169,195	1,318,706	79,932	3.68
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	578,189	305,256	16,449	2.84
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	258,430	61,919	7,095	2.75
TOTAL WATSON LAKE			**4,113,025**	**1,997,936**	**134,828**	
TOTAL DIESEL PLANT			**13,684,978**	**6,399,211**	**474,894**	

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	RATE
	(1)	(2)	(3)	(4)	(5)	(6)=(5)/(3)
MOBILE						
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	10,662	8,809	217	2.04
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	25,562	16,999	723	2.83
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	568,500	303,283	21,486	3.78
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	87,652	40,799	2,555	2.91
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	92,170	12,008	2,603	2.82
TOTAL MOBILE			**784,546**	**381,898**	**27,585**	
TOTAL GENERATION			**18,192,167**	**7,379,133**	**585,335**	
SUBSTATION PLANT						
457.00	SUBSTATION EQUIPMENT - TRANSMISSION	50-R4	1,384,421	626,639	28,478	2.06
TOTAL SUBSTATION PLANT			**1,384,421**	**626,639**	**28,478**	
DISTRIBUTION PLANT						
471.00	LAND RIGHTS	75-R3	1,267,608	151,638	19,155	1.51
473.00	POLES, TOWERS AND FIXTURES	45-R3	30,231,546	8,972,741	726,834	2.40
474.00	OVERHEAD CONDUCTOR	45-R4	20,514,612	5,832,601	475,347	2.32
474.10	OVERHEAD SERVICES	45-R3	2,849,453	1,023,337	67,049	2.35
475.00	UNDERGROUND CONDUIT	45-R3	20,982,589	6,074,457	506,341	2.41
475.10	UNDERGROUND SERVICES	40-R4	2,953,077	924,039	77,204	2.61
476.10	METERS	15-L0	1,683,985	682,328	134,650	8.00
476.30	AMR - METERS	15-R2.5	67,646	14,259	5,175	7.65
477.10	SUBSTATION EQUIPMENT - DISTRIBUTION	40-R4	3,131,073	1,605,098	79,061	2.53
478.10	STREET LIGHTS AND SIGNAL SYSTEMS	30-R3	9,147,522	3,814,663	316,295	3.46
478.20	SENTINEL LIGHTS	23-R2	284,738	246,947	8,784	3.08
479.10	LINE TRANSFORMERS	45-R3	24,427,769	6,695,953	590,016	2.42
TOTAL DISTRIBUTION PLANT			**117,541,619**	**36,038,060**	**3,005,911**	
GENERAL PLANT						
482.00	STRUCTURES AND IMPROVEMENTS	40-L3	3,459,315	1,660,879	91,701	2.65
483.00	OFFICE FURNITURE AND EQUIPMENT	15-SQ	172,793	62,511	10,448	6.05
483.20	COMPUTER EQUIPMENT AND ACCESSORIES	5-SQ	47,367	10,448	8,929	18.85
484.00	TRANSPORTATION AND MOBILE EQUIPMENT	12-L0	2,561,147	964,510	157,467	6.15
485.00	TOOLS AND INSTRUMENTS	15-SQ	719,184	273,558	46,712	6.50
486.00	COMMUNICATION EQUIPMENT	15-SQ	872,842	422,551	49,726	5.70
488.20	HOUSES	40-R3	473,256	152,396	12,719	2.69
TOTAL GENERAL PLANT			**8,305,904**	**3,546,853**	**377,702**	
TOTAL UTILITY PLANT IN SERVICE			**145,424,111**	**47,590,686**	**3,997,427**	

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE REQUIRED NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE (*)	ESTIMATED NET SALVAGE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	ANNUAL ACCRUAL RATE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(6)/(4)
GENERATION							
HYDRO PLANT (LIFE SPAN OF 2052)							
422.00	HYDRO STRUCTURES	72-R2	(10)	215,286	5,997	472	0.22
423.00	HYDRO RESERVOIRS, DAMS AND WATERWAYS	103-R3	(10)	1,875,073	31,671	3,954	0.21
425.00	HYDRO GENERATORS	85-R3	(10)	1,458,435	15,340	3,351	0.23
426.00	HYDRO ACCESSORIES AND EQUIPMENT	45-R3	(10)	105,192	4,849	244	0.23
427.00	HYDRO MISCELLANEOUS EQUIPMENT	30-R2	(10)	68,657	1,947	264	0.38
TOTAL HYDRO PLANT				**3,722,643**	**59,802**	**8,286**	
PRODUCTION DIESEL PLANT							
BEAVER CREEK (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	37,488	2,225	90	0.24
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	92,859	8,138	544	0.59
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	535,779	36,744	1,965	0.37
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	173,365	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	48,603	-	-	-
TOTAL BEAVER CREEK				**888,094**	**47,108**	**2,599**	
CARMACKS (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	167,739	4,423	478	0.29
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	40,394	5,014	233	0.58
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	419,543	30,924	1,495	0.36
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	101,158	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	7,366	-	-	-
TOTAL CARMACKS				**736,201**	**40,361**	**2,206**	
DESTRUCTION BAY (LIFE SPAN OF 2023)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	42,282	3,122	118	0.28
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	105,478	10,910	895	0.85
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	488,076	14,004	3,151	0.65
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	284,627	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	28,048	-	-	-
TOTAL DESTRUCTION BAY				**948,512**	**28,036**	**4,163**	
HAINES JUNCTION (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	608,472	11,557	1,813	0.30
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	619,132	49,783	3,678	0.59
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	60,097	3,728	231	0.38
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	94,952	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	2,454	-	-	-
TOTAL HAINES JUNCTION				**1,385,107**	**65,068**	**5,721**	
OLD CROW (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	187,900	10,200	465	0.25
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	215,087	16,595	1,261	0.59
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	1,223,713	52,949	4,969	0.41
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	119,365	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	171,496	-	-	-
TOTAL OLD CROW				**1,917,561**	**79,744**	**6,694**	

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE REQUIRED NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE (*)	ESTIMATED NET SALVAGE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	ANNUAL ACCRUAL RATE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(6)/(4)
PELLY CROSSING (LIFE SPAN OF 2033)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	48,892	3,382	116	0.24
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	129,302	18,577	707	0.55
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	474,056	30,076	1,794	0.38
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	431,735	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	61,485	-	-	-
TOTAL PELLY CROSSING				**1,145,469**	**52,035**	**2,617**	
ROSS RIVER (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	171,221	5,738	471	0.28
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	85,126	6,592	509	0.60
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	189,753	14,710	651	0.34
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	124,872	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	9,639	-	-	-
TOTAL ROSS RIVER				**580,611**	**27,040**	**1,631**	
STEWART CROSSING (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	247,966	6,427	707	0.29
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	65,107	2,986	389	0.60
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	45,677	2,485	167	0.37
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	70,425	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	84,682	-	-	-
TOTAL STEWART CROSSING				**513,857**	**11,897**	**1,264**	
SWIFT RIVER (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	22,503	991	58	0.26
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	63,430	7,529	366	0.58
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	241,047	9,881	968	0.40
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	93,560	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	11,924	-	-	-
TOTAL SWIFT RIVER				**432,465**	**18,401**	**1,391**	
TESLIN (LIFE SPAN OF 2053)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	37,986	1,044	113	0.30
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	99,863	4,524	603	0.60
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	762,034	52,443	2,835	0.37
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	54,417	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	69,778	-	-	-
TOTAL TESLIN				**1,024,077**	**58,011**	**3,551**	
WATSON LAKE (LIFE SPAN OF 2113)							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	359,393	20,394	884	0.25
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	747,818	21,623	4,502	0.60
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	2,169,195	131,871	7,993	0.37
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	578,189	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	258,430	-	-	-
TOTAL WATSON LAKE				**4,113,025**	**173,888**	**13,379**	
TOTAL DIESEL PLANT				**13,684,978**	**601,587**	**45,217**	

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 1B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO RECOVERY OF THE REQUIRED NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE (*)	ESTIMATED NET SALVAGE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	ANNUAL ACCRUAL AMOUNT	ANNUAL ACCRUAL RATE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(6)/(4)
MOBILE							
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	10,662	881	22	0.20
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	25,562	3,400	145	0.57
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	568,500	30,328	2,149	0.38
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	87,652	-	-	-
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	92,170	-	-	-
TOTAL MOBILE				**784,546**	**34,609**	**2,315**	
TOTAL GENERATION				**18,192,167**	**695,999**	**55,818**	
SUBSTATION PLANT							
457.00	SUBSTATION EQUIPMENT - TRANSMISSION	50-R4	(10)	1,384,421	62,664	2,848	0.21
TOTAL SUBSTATION PLANT				**1,384,421**	**62,664**	**2,848**	
DISTRIBUTION PLANT							
471.00	LAND RIGHTS	75-R3	0	1,267,608	-	-	-
473.00	POLES, TOWERS AND FIXTURES	45-R3	(75)	30,231,546	6,729,555	545,126	1.80
474.00	OVERHEAD CONDUCTOR	45-R4	(80)	20,514,612	4,666,080	380,278	1.85
474.10	OVERHEAD SERVICES	45-R3	(10)	2,849,453	102,334	6,705	0.24
475.00	UNDERGROUND CONDUIT	45-R3	(50)	20,982,589	3,037,229	253,171	1.21
475.10	UNDERGROUND SERVICES	40-R4	(10)	2,953,077	92,404	7,720	0.26
476.10	METERS	15-L0	0	1,683,985	-	-	-
476.30	AMR - METERS	15-R2.5	0	67,646	-	-	-
477.10	SUBSTATION EQUIPMENT - DISTRIBUTION	40-R4	(10)	3,131,073	160,510	7,906	0.25
478.10	STREET LIGHTS AND SIGNAL SYSTEMS	30-R3	(10)	9,147,522	381,466	31,629	0.35
478.20	SENTINEL LIGHTS	23-R2	0	284,738	-	-	-
479.10	LINE TRANSFORMERS	45-R3	(10)	24,427,769	669,595	59,002	0.24
TOTAL DISTRIBUTION PLANT				**117,541,619**	**15,839,174**	**1,291,536**	
GENERAL PLANT							
482.00	STRUCTURES AND IMPROVEMENTS	40-L3	0	3,459,315	-	-	-
483.00	OFFICE FURNITURE AND EQUIPMENT	15-SQ	0	172,793	-	-	-
483.20	COMPUTER EQUIPMENT AND ACCESSORIES	5-SQ	0	47,367	-	-	-
484.00	TRANSPORTATION AND MOBILE EQUIPMENT	12-L0	25	2,561,147	-	-	-
485.00	TOOLS AND INSTRUMENTS	15-SQ	0	719,184	-	-	-
486.00	COMMUNICATION EQUIPMENT	15-SQ	0	872,842	-	-	-
488.20	HOUSES	40-R3	(10)	473,256	15,240	1,272	0.27
TOTAL GENERAL PLANT				**8,305,904**	**15,240**	**1,272**	
TOTAL UTILITY PLANT IN SERVICE				**145,424,111**	**16,613,076**	**1,351,474**	

(*) Interim Survivor Curve

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 2A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
GENERATION								
HYDRO PLANT (LIFE SPAN OF 2052)								
422.00	HYDRO STRUCTURES	ND	215,286	59,965	123,192	(63,227)	37.8	(1,673)
423.00	HYDRO RESERVOIRS, DAMS AND WATERWAYS	72-R2	1,875,073	316,708	662,044	(345,336)	40.4	(8,548)
425.00	HYDRO GENERATORS	103-R3	1,458,435	153,398	315,135	(161,737)	40.2	(4,023)
426.00	HYDRO ACCESSORIES AND EQUIPMENT	85-R3	105,192	48,486	99,610	(51,124)	32.2	(1,588)
427.00	HYDRO MISCELLANEOUS EQUIPMENT	45-R3	68,657	19,466	39,992	(20,526)	27.4	(749)
TOTAL HYDRO PLANT			**3,722,643**	**598,025**	**1,239,974**	**(641,949)**		**(16,581)**
PRODUCTION DIESEL PLANT								
BEAVER CREEK (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	37,488	22,252	26,440	(4,188)	18.9	(222)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	92,859	40,692	50,013	(9,322)	22.0	(424)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	535,779	367,441	350,423	17,018	9.6	1,773
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	173,365	57,897	68,793	(10,896)	25.9	(421)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	48,603	8,191	10,719	(2,528)	33.4	(76)
TOTAL BEAVER CREEK			**888,094**	**496,472**	**506,387**	**(9,915)**		**631**
CARMACKS (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	167,739	44,228	52,552	(8,324)	30.2	(276)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	40,394	25,071	30,815	(5,744)	14.4	(399)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	419,543	309,237	294,915	14,323	8.3	1,726
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	101,158	34,682	40,647	(5,965)	24.6	(242)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	7,366	535	212	323	36.0	9
TOTAL CARMACKS		40-R3	**736,201**	**413,753**	**419,141**	**(5,388)**		**818**
DESTRUCTION BAY (LIFE SPAN OF 2023)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	42,282	31,221	37,097	(5,876)	9.5	(619)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	105,478	54,551	67,047	(12,497)	11.6	(1,077)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	488,076	140,036	133,550	6,486	11.0	590
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	284,627	142,466	174,086	(31,620)	11.5	(2,750)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	28,048	13,174	18,011	(4,837)	11.8	(410)
TOTAL DESTRUCTION BAY			**948,512**	**381,448**	**429,792**	**(48,344)**		**(4,266)**
HAINES JUNCTION (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	608,472	115,568	137,319	(21,751)	32.1	(678)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	619,132	248,915	305,938	(57,023)	21.9	(2,604)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	60,097	37,282	35,555	1,727	11.2	154
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	94,952	47,493	58,093	(10,600)	25.4	(417)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	2,454	1,482	1,989	(507)	33.4	(15)
TOTAL HAINES JUNCTION			**1,385,107**	**450,740**	**538,894**	**(88,154)**		**(3,560)**
OLD CROW (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	187,900	101,997	121,194	(19,196)	20.9	(918)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	215,087	82,975	101,983	(19,008)	24.1	(789)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	1,223,713	529,491	505,966	23,525	15.7	1,498
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	119,365	68,323	80,570	(12,247)	18.9	(648)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	171,496	66,532	91,261	(24,729)	26.9	(919)
TOTAL OLD CROW			**1,917,561**	**849,318**	**900,974**	**(51,656)**		**(1,776)**

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 2A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
PELLY CROSSING (LIFE SPAN OF 2033)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	48,892	33,820	40,186	(6,366)	14.0	(455)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	129,302	92,887	114,166	(21,279)	16.3	(1,305)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	474,056	300,758	286,219	14,539	10.6	1,372
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	431,735	164,126	199,681	(35,555)	19.2	(1,852)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	61,485	20,121	27,361	(7,240)	20.5	(353)
TOTAL PELLY CROSSING			**1,145,469**	**611,712**	**667,613**	**(55,901)**		**(2,594)**
ROSS RIVER (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	171,221	57,383	68,182	(10,800)	28.0	(386)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	85,126	32,959	40,510	(7,551)	22.2	(340)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	189,753	147,095	140,282	6,813	7.3	933
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	124,872	48,576	58,732	(10,156)	23.5	(432)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	9,639	1,775	2,208	(433)	33.9	(13)
TOTAL ROSS RIVER			**580,611**	**287,788**	**309,914**	**(22,126)**		**(237)**
STEWART CROSSING (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	247,966	64,265	76,361	(12,096)	30.3	(399)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	65,107	14,928	18,103	(3,176)	28.5	(111)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	45,677	24,846	21,626	3,220	10.9	295
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	70,425	26,610	32,538	(5,928)	24.9	(238)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	84,682	6,985	9,638	(2,653)	35.4	(75)
TOTAL STEWART CROSSING			**513,857**	**137,634**	**158,267**	**(20,633)**		**(528)**
SWIFT RIVER (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	22,503	9,907	11,772	(1,865)	24.9	(75)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	63,430	37,645	46,269	(8,624)	15.7	(549)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	241,047	98,815	94,569	4,245	16.3	260
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	93,560	31,055	37,516	(6,461)	25.0	(258)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	11,924	3,190	4,249	(1,059)	30.6	(35)
TOTAL SWIFT RIVER			**432,465**	**180,612**	**194,375**	**(13,764)**		**(657)**
TESLIN (LIFE SPAN OF 2053)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	37,986	10,437	12,402	(1,964)	28.9	(68)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	99,863	22,619	27,801	(5,181)	27.5	(188)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	762,034	524,432	500,142	24,290	9.6	2,530
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	54,417	25,006	27,410	(2,404)	21.5	(112)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	69,778	9,302	11,989	(2,687)	33.9	(79)
TOTAL TESLIN			**1,024,077**	**591,796**	**579,744**	**12,052**		**2,083**
WATSON LAKE (LIFE SPAN OF 2113)								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	359,393	203,938	242,320	(38,382)	20.1	(1,910)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	747,818	108,117	132,885	(24,768)	30.6	(809)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	2,169,195	1,318,706	1,256,361	62,346	11.3	5,517
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	578,189	305,256	366,604	(61,348)	22.3	(2,751)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	258,430	61,919	83,525	(21,606)	33.8	(639)
TOTAL WATSON LAKE			**4,113,025**	**1,997,936**	**2,081,695**	**(83,759)**		**(592)**
TOTAL PRODUCTION DIESEL PLANT			**13,684,978**	**6,399,211**	**6,786,796**	**(387,586)**	-	**(10,678)**

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 2A. ESTIMATED SURVIVOR CURVES, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE ORIGINAL COST

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
MOBILE								
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	10,662	8,809	10,466	(1,657)	9.3	(178)
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	25,562	16,999	20,893	(3,894)	12.8	(304)
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	568,500	303,283	287,763	15,520	13.1	1,185
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	87,652	40,799	48,221	(7,422)	23.1	(321)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	92,170	12,008	16,120	(4,112)	35.5	(116)
TOTAL MOBILE			**784,546**	**381,898**	**383,463**	**(1,565)**		**265**
TOTAL GENERATION			**18,192,167**	**7,379,133**	**8,410,233**	**(1,031,099)**		**(26,994)**
SUBSTATION PLANT								
457.00	SUBSTATION EQUIPMENT - TRANSMISSION	50-R4	1,384,421	626,639	829,972	(203,333)	31.0	(6,559)
TOTAL SUBSTATION PLANT			**1,384,421**	**626,639**	**829,972**	**(203,333)**		**(6,559)**
DISTRIBUTION PLANT								
471.00	LAND RIGHTS	75-R3	1,267,608	151,638	151,507	131	67.3	2
473.00	POLES, TOWERS AND FIXTURES	45-R3	30,231,546	8,972,741	11,487,576	(2,514,836)	33.4	(75,294)
474.00	OVERHEAD CONDUCTOR	45-R4	20,514,612	5,832,601	7,036,909	(1,204,309)	32.3	(37,285)
474.10	OVERHEAD SERVICES	45-R3	2,849,453	1,023,337	1,271,831	(248,494)	33.4	(7,440)
475.00	UNDERGROUND CONDUIT	45-R3	20,982,589	6,074,457	5,608,170	466,287	32.6	14,303
475.10	UNDERGROUND SERVICES	40-R4	2,953,077	924,039	1,049,337	(125,298)	28.5	(4,396)
476.10	METERS	15-L0	1,683,985	682,328	41,448	640,880	10.6	60,460
476.30	AMR - METERS	15-R2.5	67,646	14,259	-	14,259	12.3	1,159
477.10	SUBSTATION EQUIPMENT - DISTRIBUTION	40-R4	3,131,073	1,605,098	1,950,231	(345,133)	21.5	(16,053)
478.10	STREET LIGHTS AND SIGNAL SYSTEMS	30-R3	9,147,522	3,814,663	5,173,329	(1,358,667)	21.1	(64,392)
478.20	SENTINEL LIGHTS	23-R2	284,738	246,947	319,069	(72,122)	4.0	(18,030)
479.10	LINE TRANSFORMERS	45-R3	24,427,769	6,695,953	9,796,355	(3,100,402)	37.0	(83,795)
TOTAL DISTRIBUTION PLANT			**117,541,619**	**36,038,060**	**43,885,763**	**(7,847,703)**		**(230,761)**
GENERAL PLANT								
482.00	STRUCTURES AND IMPROVEMENTS	40-L3	3,459,315	1,660,879	2,027,012	(366,133)	23.9	(15,319)
483.00	OFFICE FURNITURE AND EQUIPMENT	15-SQ	172,793	62,511	17,775	44,736	5.5	8,134
483.20	COMPUTER EQUIPMENT AND ACCESSORIES	5-SQ	47,367	10,448	(11,313)	21,761	3.4	6,400
484.00	TRANSPORTATION AND MOBILE EQUIPMENT	12-L0	2,561,147	964,510	1,693,246	(728,736)	10.0	(72,874)
485.00	TOOLS AND INSTRUMENTS	15-SQ	719,184	273,558	239,068	34,490	8.7	3,964
486.00	COMMUNICATION EQUIPMENT	15-SQ	872,842	422,551	391,629	30,922	7.8	3,964
488.20	HOUSES	40-R3	473,256	152,396	1,717,512	(1,565,115)	21.8	(71,794)
TOTAL GENERAL PLANT			**8,305,904**	**3,546,853**	**6,074,929**	**(2,528,076)**		**(137,525)**
TOTAL UTILITY PLANT IN SERVICE			**145,424,111**	**47,590,686**	**59,200,897**	**(11,610,211)**		**(401,838)**

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 2B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	NET SALVAGE %	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
GENERATION									
HYDRO PLANT (LIFE SPAN OF 2052)									
422.00	HYDRO STRUCTURES	ND	(10)	215,286	5,997	813	5,184	37.8	137
423.00	HYDRO RESERVOIRS, DAMS AND WATERWAYS	72-R2	(10)	1,875,073	31,671	4,367	27,304	40.4	676
425.00	HYDRO GENERATORS	103-R3	(10)	1,458,435	15,340	2,079	13,261	40.2	330
426.00	HYDRO ACCESSORIES AND EQUIPMENT	85-R3	(10)	105,192	4,849	657	4,192	32.2	130
427.00	HYDRO MISCELLANEOUS EQUIPMENT	45-R3	(10)	68,657	1,947	264	1,683	27.4	61
TOTAL HYDRO PLANT				**3,722,643**	**59,802**	**8,180**	**51,623**		**1,334**
PRODUCTION DIESEL PLANT									
BEAVER CREEK (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	37,488	2,225	(3,232)	5,457	18.9	289
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	92,859	8,138	1,494	6,645	22.0	302
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	535,779	36,744	20,345	16,399	9.6	1,708
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	173,365	-	2,313	(2,313)	25.9	(89)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	48,603	-	628	(628)	33.4	(19)
TOTAL BEAVER CREEK				**888,094**	**47,108**	**21,549**	**25,559**		**2,191**
CARMACKS (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	167,739	4,423	(6,423)	10,846	30.2	359
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	40,394	5,014	920	4,094	14.4	284
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	419,543	30,924	17,122	13,801	8.3	1,663
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	101,158	-	1,947	(1,947)	24.6	(79)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	7,366	-	529	(529)	36.0	(15)
TOTAL CARMACKS				**736,201**	**40,361**	**14,095**	**26,266**		**2,212**
DESTRUCTION BAY (LIFE SPAN OF 2023)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	42,282	3,122	(4,534)	7,656	9.5	806
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	105,478	10,910	2,003	8,908	11.6	768
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	488,076	14,004	7,754	6,250	11.0	568
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	284,627	-	882	(882)	11.5	(77)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	28,048	-	239	(239)	11.8	(20)
TOTAL DESTRUCTION BAY				**948,512**	**28,036**	**6,343**	**21,693**		**2,045**
HAINES JUNCTION (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	608,472	11,557	(16,783)	28,340	32.1	883
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	619,132	49,783	9,138	40,645	21.9	1,856
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	60,097	3,728	2,064	1,664	11.2	149
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	94,952	-	235	(235)	25.4	(9)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	2,454	-	64	(64)	33.4	(2)
TOTAL HAINES JUNCTION				**1,385,107**	**65,068**	**(5,283)**	**70,351**		**2,876**
OLD CROW (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	187,900	10,200	(14,813)	25,012	20.9	1,197
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	215,087	16,595	3,046	13,549	24.1	562
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	1,223,713	52,949	29,376	23,573	15.7	1,501
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	119,365	-	3,340	(3,340)	18.9	(177)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	171,496	-	907	(907)	26.9	(34)
TOTAL OLD CROW				**1,917,561**	**79,744**	**21,856**	**57,888**		**3,050**

YUKON ELECTRICAL COMPANY LIMITED

SCHEDULE 2B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	NET SALVAGE %	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
PELLY CROSSING (LIFE SPAN OF 2033)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	48,892	3,382	(4,912)	8,294	14.0	592
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	129,302	18,577	3,410	15,167	16.3	931
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	474,056	30,076	16,618	13,458	10.6	1,270
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	431,735	-	1,889	(1,889)	19.2	(98)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	61,485	-	513	(513)	20.5	(25)
TOTAL PELLY CROSSING				**1,145,469**	**52,035**	**17,518**	**34,517**		**2,669**
ROSS RIVER (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	171,221	5,738	(8,333)	14,072	28.0	503
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	85,126	6,592	1,210	5,382	22.2	242
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	189,753	14,710	8,145	6,565	7.3	899
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	124,872	-	926	(926)	23.5	(39)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	9,639	-	251	(251)	33.9	(7)
TOTAL ROSS RIVER				**580,611**	**27,040**	**2,199**	**24,841**		**1,597**
STEWART CROSSING (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	247,966	6,427	(9,333)	15,760	30.3	520
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	65,107	2,986	548	2,438	28.5	86
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	45,677	2,485	1,256	1,229	10.9	113
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	70,425	-	143	(143)	24.9	(6)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	84,682	-	39	(39)	35.4	(1)
TOTAL STEWART CROSSING				**513,857**	**11,897**	**(7,348)**	**19,245**		**712**
SWIFT RIVER (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	22,503	991	(1,439)	2,430	24.9	98
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	63,430	7,529	1,382	6,147	15.7	392
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	241,047	9,881	5,491	4,391	16.3	269
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	93,560	-	624	(624)	25.0	(25)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	11,924	-	170	(170)	30.6	(6)
TOTAL SWIFT RIVER				**432,465**	**18,401**	**6,228**	**12,174**		**728**
TESLIN (LIFE SPAN OF 2053)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	37,986	1,044	(1,516)	2,559	28.9	89
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	99,863	4,524	830	3,693	27.5	134
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	762,034	52,443	29,038	23,405	9.6	2,438
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	54,417	-	3,301	(3,301)	21.5	(154)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	69,778	-	897	(897)	33.9	(26)
TOTAL TESLIN				**1,024,077**	**58,011**	**32,550**	**25,461**		**2,481**
WATSON LAKE (LIFE SPAN OF 2113)									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	359,393	20,394	(29,617)	50,011	20.1	2,488
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	747,818	21,623	3,969	17,654	30.6	577
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	2,169,195	131,871	72,943	58,928	11.3	5,215
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	578,189	-	8,293	(8,293)	22.3	(372)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	258,430	-	2,252	(2,252)	33.8	(67)
TOTAL WATSON LAKE				**4,113,025**	**173,888**	**57,840**	**116,048**		**7,841**
TOTAL PRODUCTION DIESEL PLANT				**13,684,978**	**601,587**	**167,547**	**434,040**		**28,403**

YUKON ELECTRICAL COMPANY LIMITED

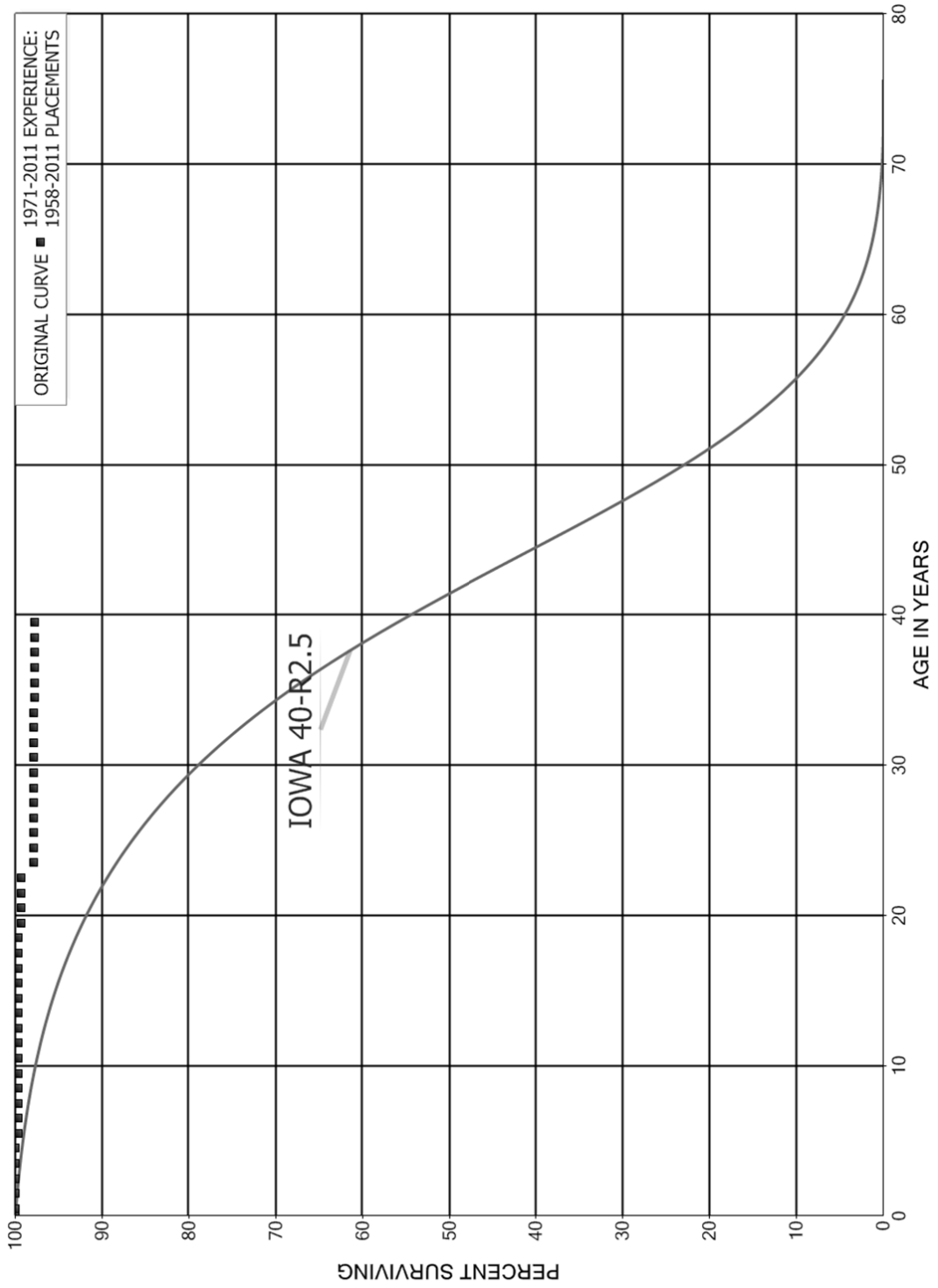
SCHEDULE 2B. ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENTS, ORIGINAL COST AND ANNUAL ACCRUALS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2011

RELATED TO THE RECOVERY OF THE NET SALVAGE ESTIMATES

	DESCRIPTION	ESTIMATED SURVIVOR CURVE	NET SALVAGE %	SURVIVING ORIGINAL COST AS OF DECEMBER 31, 2011	CALCULATED ACCRUED DEPRECIATION	BOOK ACCUMULATED DEPRECIATION	ACCUMULATED DEPRECIATION VARIANCE	PROBABLE REMAINING LIFE	ANNUAL PROVISION FOR TRUE-UP
	(1)	(2)	(3)	(4)	(5)	(6)	(7)=(5)-(6)	(8)	(9)=(7)/(8)
MOBILE									
442.00	STRUCTURES AND IMPROVEMENTS	40-R2.5	(10)	10,662	881	(1,279)	2,160	9.3	232
444.00	FUEL HOLDERS, PRODUCTS AND ACCESSORIES	35-R4	(20)	25,562	3,400	624	2,776	12.8	217
445.00	GENERAL EQUIPMENT AND PRIME MOVERS	26-S2.5	(10)	568,500	30,328	16,707	13,621	13.1	1,040
446.00	ACCESSORY ELECTRIC EQUIPMENT	35-R3	0	87,652	-	1,899	(1,899)	23.1	(82)
447.00	MISCELLANEOUS POWER PLANT EQUIPMENT	40-R3	0	92,170	-	516	(516)	35.5	(15)
TOTAL MOBILE				**784,546**	**34,609**	**18,467**	**16,142**		**1,392**
TOTAL GENERATION				**18,192,167**	**695,999**	**194,194**	**501,805**		**31,130**
SUBSTATION PLANT									
457.00	SUBSTATION EQUIPMENT - TRANSMISSION		(10)	1,384,421	62,664	21,171	41,493	31.0	1,338
TOTAL SUBSTATION PLANT				**1,384,421**	**62,664**	**21,171**	**41,493**		**1,338**
DISTRIBUTION PLANT									
471.00	LAND RIGHTS	75-R3	0	1,267,608	-	(166)	166	67.3	2
473.00	POLES, TOWERS AND FIXTURES	45-R3	(75)	30,231,546	6,729,555	3,685,089	3,044,466	33.4	91,152
474.00	OVERHEAD CONDUCTOR	45-R4	(80)	20,514,612	4,666,080	2,290,803	2,375,277	32.3	73,538
474.10	OVERHEAD SERVICES	45-R3	(10)	2,849,453	102,334	68,292	34,041	33.4	1,019
475.00	UNDERGROUND CONDUIT	45-R3	(50)	20,982,589	3,037,229	(74,602)	3,111,831	32.6	95,455
475.10	UNDERGROUND SERVICES	40-R4	(10)	2,953,077	92,404	3,618	88,786	28.5	3,115
476.10	METERS	15-L0	0	1,683,985	-	27,423	(27,423)	10.6	(2,587)
476.30	AMR - METERS	15-R2.5	0	67,646	-	-	-	12.3	-
477.10	SUBSTATION EQUIPMENT - DISTRIBUTION	40-R4	(10)	3,131,073	160,510	(128,522)	289,032	21.5	13,443
478.10	STREET LIGHTS AND SIGNAL SYSTEMS	30-R3	(10)	9,147,522	381,466	(265,776)	647,242	21.1	30,675
478.20	SENTINEL LIGHTS	23-R2	0	284,738	-	(105,624)	105,624	4.0	26,406
479.10	LINE TRANSFORMERS		(10)	24,427,769	669,595	311,505	358,090	37.0	9,678
TOTAL DISTRIBUTION PLANT				**117,541,619**	**15,839,174**	**5,812,042**	**10,027,132**		**341,897**
GENERAL PLANT									
482.00	STRUCTURES AND IMPROVEMENTS	40-L3	0	3,459,315	-	(135,119)	135,119	23.9	5,654
483.00	OFFICE FURNITURE AND EQUIPMENT	15-SQ	0	172,793	-	(4,613)	4,613	5.5	839
483.20	COMPUTER EQUIPMENT AND ACCESSORIES	5-SQ	0	47,367	-	-	-	3.4	-
484.00	TRANSPORTATION AND MOBILE EQUIPMENT	12-L0	25	2,561,147	-	(408,732)	408,732	10.0	40,873
485.00	TOOLS AND INSTRUMENTS	15-SQ	0	719,184	-	141	(141)	8.7	(16)
486.00	COMMUNICATION EQUIPMENT	15-SQ	0	872,842	-	(6,237)	6,237	7.8	800
488.20	HOUSES		(10)	473,256	15,240	(1,077,696)	1,092,936	21.8	50,135
TOTAL GENERAL PLANT				**8,305,904**	**15,240**	**(1,632,256)**	**1,647,495**		**98,283**
TOTAL UTILITY PLANT IN SERVICE			**-**	**145,424,111**	**16,613,076**	**4,395,151**	**12,217,925**	**-**	**472,649**

PART IV. SERVICE LIFE STATISTICS

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

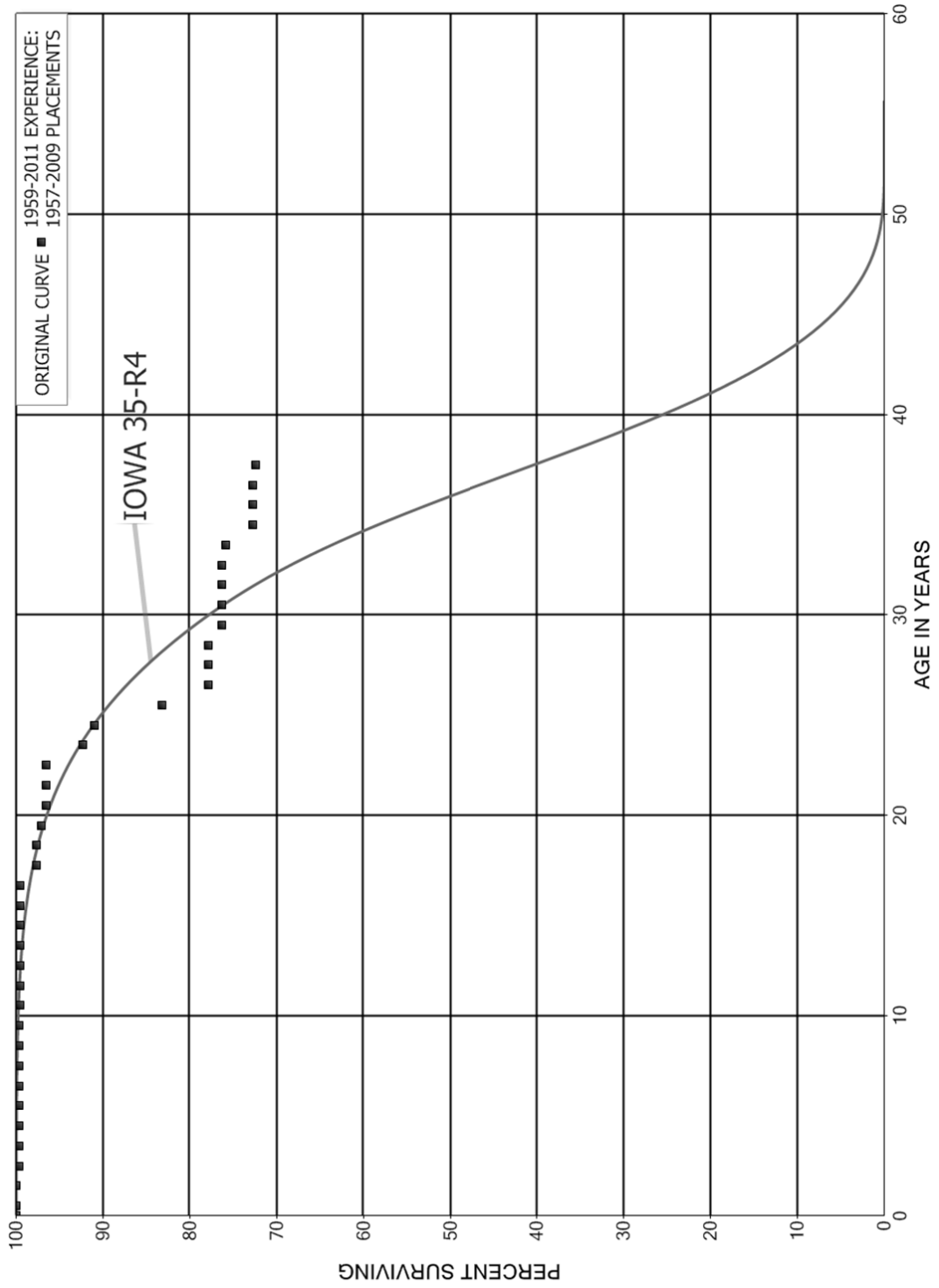
ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

ORIGINAL LIFE TABLE

PLACEMENT BAND 1958-2011 EXPERIENCE BAND 1971-2011

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	1,654,355		0.0000	1.0000	100.00
0.5	1,864,466		0.0000	1.0000	100.00
1.5	1,926,396		0.0000	1.0000	100.00
2.5	1,901,065		0.0000	1.0000	100.00
3.5	1,578,385		0.0000	1.0000	100.00
4.5	1,402,603	5,674	0.0040	0.9960	100.00
5.5	1,175,602		0.0000	1.0000	99.60
6.5	932,589		0.0000	1.0000	99.60
7.5	931,587		0.0000	1.0000	99.60
8.5	931,587		0.0000	1.0000	99.60
9.5	931,587		0.0000	1.0000	99.60
10.5	931,401		0.0000	1.0000	99.60
11.5	931,407		0.0000	1.0000	99.60
12.5	901,724		0.0000	1.0000	99.60
13.5	847,579		0.0000	1.0000	99.60
14.5	794,374		0.0000	1.0000	99.60
15.5	785,466		0.0000	1.0000	99.60
16.5	785,466		0.0000	1.0000	99.60
17.5	785,466		0.0000	1.0000	99.60
18.5	726,307	2,028	0.0028	0.9972	99.60
19.5	714,137	100	0.0001	0.9999	99.32
20.5	712,627		0.0000	1.0000	99.30
21.5	712,627		0.0000	1.0000	99.30
22.5	682,808	10,000	0.0146	0.9854	99.30
23.5	633,423		0.0000	1.0000	97.85
24.5	322,062		0.0000	1.0000	97.85
25.5	299,940		0.0000	1.0000	97.85
26.5	285,988	6	0.0000	1.0000	97.85
27.5	285,982		0.0000	1.0000	97.85
28.5	243,920		0.0000	1.0000	97.85
29.5	188,582		0.0000	1.0000	97.85
30.5	188,582		0.0000	1.0000	97.85
31.5	188,582		0.0000	1.0000	97.85
32.5	188,582		0.0000	1.0000	97.85
33.5	188,412	170	0.0009	0.9991	97.85
34.5	188,241		0.0000	1.0000	97.76
35.5	172,665		0.0000	1.0000	97.76
36.5	172,665		0.0000	1.0000	97.76
37.5	163,958		0.0000	1.0000	97.76
38.5	163,958		0.0000	1.0000	97.76
39.5	163,958		0.0000	1.0000	97.76
40.5					97.76

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

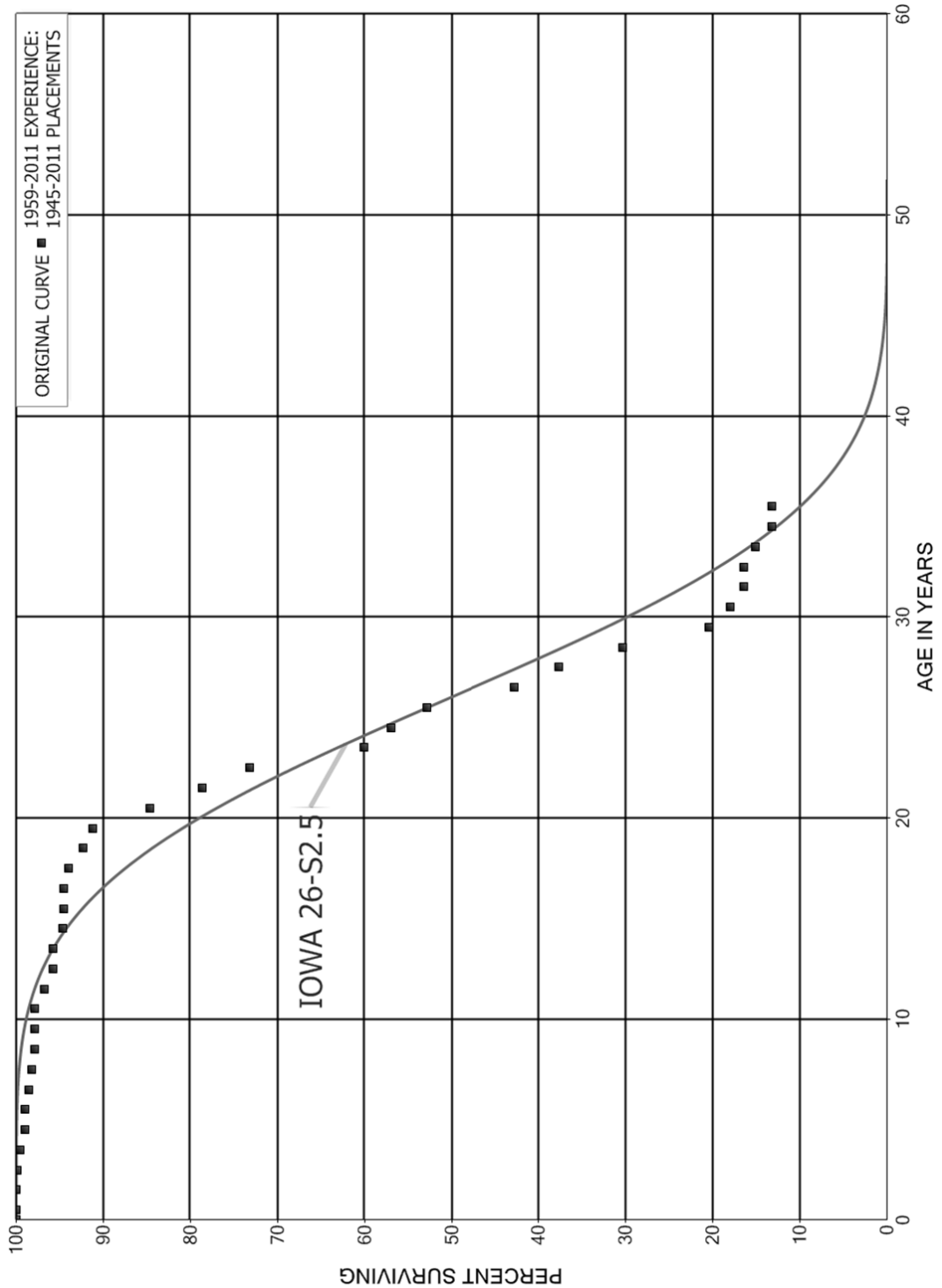
ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

ORIGINAL LIFE TABLE

PLACEMENT BAND 1957-2009 EXPERIENCE BAND 1959-2011

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	2,350,676		0.0000	1.0000	100.00
0.5	2,351,040		0.0000	1.0000	100.00
1.5	2,360,650	7,910	0.0034	0.9966	100.00
2.5	2,203,751		0.0000	1.0000	99.66
3.5	2,176,571	1,700	0.0008	0.9992	99.66
4.5	2,149,309	8	0.0000	1.0000	99.59
5.5	2,049,062	349	0.0002	0.9998	99.59
6.5	1,363,674		0.0000	1.0000	99.57
7.5	1,323,497		0.0000	1.0000	99.57
8.5	1,249,302		0.0000	1.0000	99.57
9.5	1,249,302	302	0.0002	0.9998	99.57
10.5	1,249,000		0.0000	1.0000	99.55
11.5	1,249,000		0.0000	1.0000	99.55
12.5	1,102,899		0.0000	1.0000	99.55
13.5	890,869	2	0.0000	1.0000	99.55
14.5	493,722		0.0000	1.0000	99.55
15.5	488,252		0.0000	1.0000	99.55
16.5	488,252	9,322	0.0191	0.9809	99.55
17.5	386,740		0.0000	1.0000	97.64
18.5	260,407	1,640	0.0063	0.9937	97.64
19.5	258,767	1,491	0.0058	0.9942	97.03
20.5	257,276		0.0000	1.0000	96.47
21.5	243,142		0.0000	1.0000	96.47
22.5	233,206	10,000	0.0429	0.9571	96.47
23.5	136,226	1,986	0.0146	0.9854	92.33
24.5	113,405	9,712	0.0856	0.9144	90.99
25.5	96,604	6,230	0.0645	0.9355	83.20
26.5	90,373		0.0000	1.0000	77.83
27.5	90,373		0.0000	1.0000	77.83
28.5	90,373	1,774	0.0196	0.9804	77.83
29.5	36,524		0.0000	1.0000	76.30
30.5	36,524		0.0000	1.0000	76.30
31.5	36,524		0.0000	1.0000	76.30
32.5	36,524	228	0.0062	0.9938	76.30
33.5	35,307	1,426	0.0404	0.9596	75.83
34.5	33,881		0.0000	1.0000	72.76
35.5	25,481		0.0000	1.0000	72.76
36.5	25,481	120	0.0047	0.9953	72.76
37.5	25,361	7,892	0.3112	0.6888	72.42
38.5	12,407		0.0000	1.0000	49.89
39.5	12,407	9,402	0.7578	0.2422	49.89
40.5					12.08

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1959-2011

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	11,469,065		0.0000	1.0000	100.00
0.5	10,028,165	6,784	0.0007	0.9993	100.00
1.5	9,872,312	10,726	0.0011	0.9989	99.93
2.5	9,816,261	34,933	0.0036	0.9964	99.82
3.5	9,792,298	45,431	0.0046	0.9954	99.47
4.5	9,750,407	8,231	0.0008	0.9992	99.01
5.5	9,742,176	41,215	0.0042	0.9958	98.92
6.5	9,700,961	32,634	0.0034	0.9966	98.50
7.5	8,863,532	28,717	0.0032	0.9968	98.17
8.5	8,687,204		0.0000	1.0000	97.86
9.5	8,680,481		0.0000	1.0000	97.86
10.5	8,680,481	99,081	0.0114	0.9886	97.86
11.5	8,548,182	88,184	0.0103	0.9897	96.74
12.5	7,828,406	3,256	0.0004	0.9996	95.74
13.5	7,420,399	84,893	0.0114	0.9886	95.70
14.5	7,220,912	4,879	0.0007	0.9993	94.61
15.5	6,908,491	20	0.0000	1.0000	94.54
16.5	6,908,471	42,331	0.0061	0.9939	94.54
17.5	6,673,533	120,226	0.0180	0.9820	93.96
18.5	5,450,561	62,147	0.0114	0.9886	92.27
19.5	5,272,487	384,392	0.0729	0.9271	91.22
20.5	3,651,535	255,728	0.0700	0.9300	84.57
21.5	3,240,457	224,816	0.0694	0.9306	78.64
22.5	2,769,342	496,700	0.1794	0.8206	73.19
23.5	2,203,869	115,677	0.0525	0.9475	60.06
24.5	2,018,037	144,761	0.0717	0.9283	56.91
25.5	1,818,722	346,467	0.1905	0.8095	52.83
26.5	844,799	101,376	0.1200	0.8800	42.76
27.5	736,475	143,124	0.1943	0.8057	37.63
28.5	555,062	181,518	0.3270	0.6730	30.32
29.5	373,543	44,154	0.1182	0.8818	20.40
30.5	319,620	27,884	0.0872	0.9128	17.99
31.5	291,736		0.0000	1.0000	16.42
32.5	291,736	23,957	0.0821	0.9179	16.42
33.5	264,964	32,625	0.1231	0.8769	15.07
34.5	218,890		0.0000	1.0000	13.22
35.5	218,890	14,731	0.0673	0.9327	13.22
36.5	204,159	4,886	0.0239	0.9761	12.33
37.5	189,046	19,856	0.1050	0.8950	12.03
38.5	157,819	15,939	0.1010	0.8990	10.77

YUKON ELECTRICAL COMPANY LIMITED

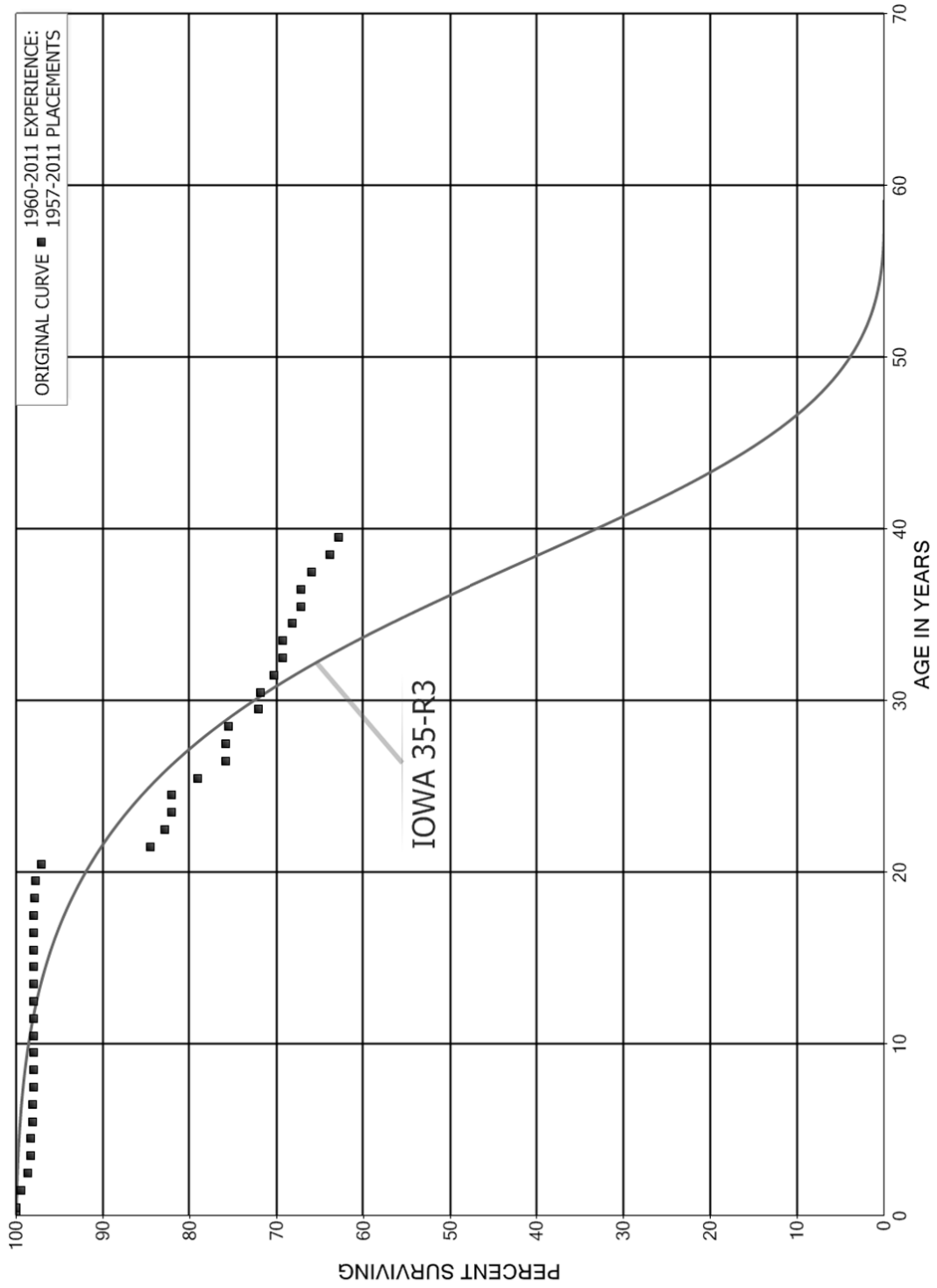
ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1959-2011

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	139,654	128,185	0.9179	0.0821	9.68
40.5	11,469	11,319	0.9869	0.0131	0.80
41.5	150		0.0000	1.0000	0.01
42.5	150		0.0000	1.0000	0.01
43.5	150		0.0000	1.0000	0.01
44.5	150		0.0000	1.0000	0.01
45.5	150		0.0000	1.0000	0.01
46.5	150		0.0000	1.0000	0.01
47.5	150		0.0000	1.0000	0.01
48.5	150		0.0000	1.0000	0.01
49.5	150		0.0000	1.0000	0.01
50.5	150		0.0000	1.0000	0.01
51.5	150	150	1.0000		0.01
52.5					

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

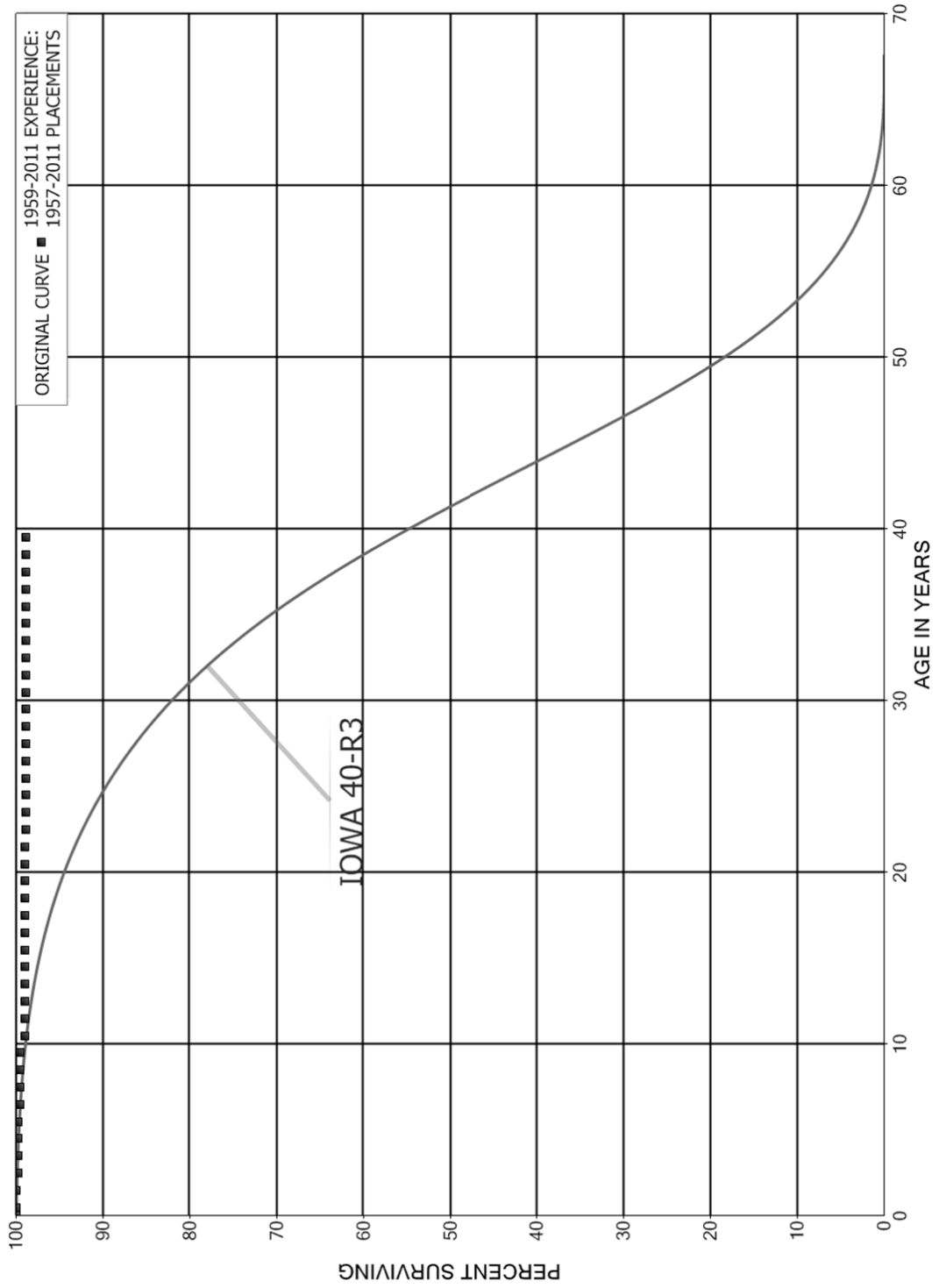
ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

ORIGINAL LIFE TABLE

PLACEMENT BAND 1957-2011 EXPERIENCE BAND 1960-2011

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	2,419,371		0.0000	1.0000	100.00
0.5	2,397,443	15,260	0.0064	0.9936	100.00
1.5	2,385,458	17,240	0.0072	0.9928	99.36
2.5	2,366,911	7,468	0.0032	0.9968	98.65
3.5	2,163,664		0.0000	1.0000	98.33
4.5	2,093,865	4,681	0.0022	0.9978	98.33
5.5	2,060,311	2,159	0.0010	0.9990	98.11
6.5	2,053,192	240	0.0001	0.9999	98.01
7.5	2,014,624		0.0000	1.0000	98.00
8.5	1,884,783		0.0000	1.0000	98.00
9.5	1,854,047		0.0000	1.0000	98.00
10.5	1,666,069		0.0000	1.0000	98.00
11.5	1,487,309		0.0000	1.0000	98.00
12.5	1,323,617		0.0000	1.0000	98.00
13.5	1,202,777		0.0000	1.0000	98.00
14.5	982,900		0.0000	1.0000	98.00
15.5	982,900		0.0000	1.0000	98.00
16.5	982,900		0.0000	1.0000	98.00
17.5	973,543	1,500	0.0015	0.9985	98.00
18.5	883,105	809	0.0009	0.9991	97.85
19.5	855,100	6,347	0.0074	0.9926	97.76
20.5	833,797	107,410	0.1288	0.8712	97.03
21.5	604,548	12,194	0.0202	0.9798	84.53
22.5	492,295	4,746	0.0096	0.9904	82.83
23.5	487,549		0.0000	1.0000	82.03
24.5	267,341	9,712	0.0363	0.9637	82.03
25.5	228,899	9,232	0.0403	0.9597	79.05
26.5	218,258		0.0000	1.0000	75.86
27.5	209,162	1,069	0.0051	0.9949	75.86
28.5	204,571	9,326	0.0456	0.9544	75.47
29.5	168,525	417	0.0025	0.9975	72.03
30.5	163,725	3,584	0.0219	0.9781	71.86
31.5	156,292	2,134	0.0137	0.9863	70.28
32.5	154,157		0.0000	1.0000	69.32
33.5	154,157	2,454	0.0159	0.9841	69.32
34.5	151,542	2,274	0.0150	0.9850	68.22
35.5	145,808	104	0.0007	0.9993	67.20
36.5	145,704	2,615	0.0179	0.9821	67.15
37.5	137,309	4,462	0.0325	0.9675	65.94
38.5	117,869	1,850	0.0157	0.9843	63.80
39.5	98,916	21,142	0.2137	0.7863	62.80
40.5					49.38

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

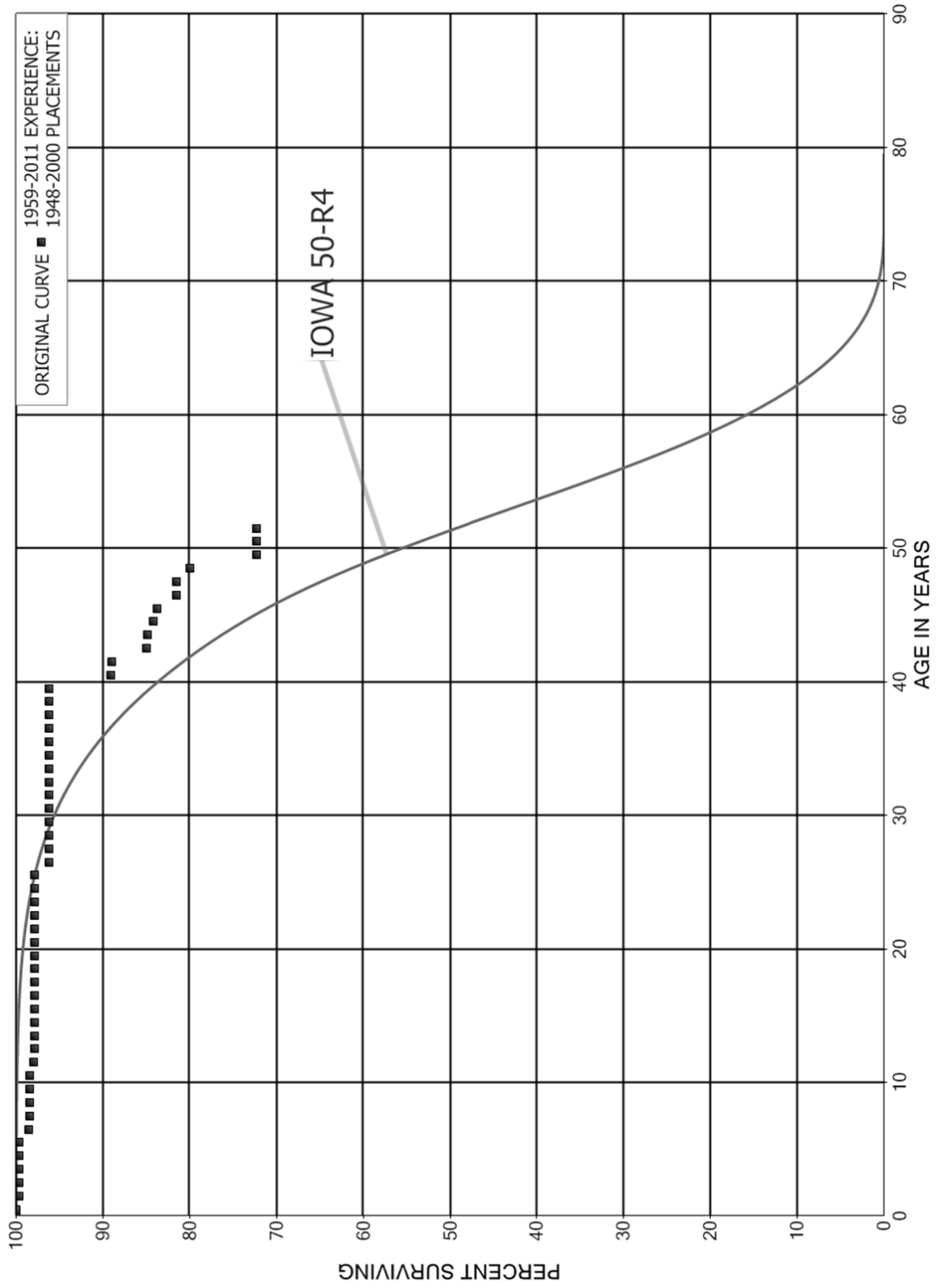
ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

ORIGINAL LIFE TABLE

PLACEMENT BAND 1957-2011 EXPERIENCE BAND 1959-2011

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	865,043		0.0000	1.0000	100.00
0.5	773,326		0.0000	1.0000	100.00
1.5	764,224	2,205	0.0029	0.9971	100.00
2.5	708,538		0.0000	1.0000	99.71
3.5	681,596		0.0000	1.0000	99.71
4.5	423,105		0.0000	1.0000	99.71
5.5	396,037	1,000	0.0025	0.9975	99.71
6.5	376,681		0.0000	1.0000	99.46
7.5	315,109		0.0000	1.0000	99.46
8.5	278,011		0.0000	1.0000	99.46
9.5	278,011	1,327	0.0048	0.9952	99.46
10.5	276,684		0.0000	1.0000	98.98
11.5	275,234		0.0000	1.0000	98.98
12.5	267,187		0.0000	1.0000	98.98
13.5	239,739		0.0000	1.0000	98.98
14.5	185,125		0.0000	1.0000	98.98
15.5	185,049		0.0000	1.0000	98.98
16.5	185,049		0.0000	1.0000	98.98
17.5	185,049		0.0000	1.0000	98.98
18.5	184,851		0.0000	1.0000	98.98
19.5	92,609		0.0000	1.0000	98.98
20.5	58,574		0.0000	1.0000	98.98
21.5	58,574	64	0.0011	0.9989	98.98
22.5	58,510		0.0000	1.0000	98.88
23.5	58,510		0.0000	1.0000	98.88
24.5	44,076		0.0000	1.0000	98.88
25.5	44,076		0.0000	1.0000	98.88
26.5	44,076		0.0000	1.0000	98.88
27.5	44,076		0.0000	1.0000	98.88
28.5	44,076		0.0000	1.0000	98.88
29.5	21,773		0.0000	1.0000	98.88
30.5	21,773		0.0000	1.0000	98.88
31.5	21,773		0.0000	1.0000	98.88
32.5	17,594		0.0000	1.0000	98.88
33.5	17,594		0.0000	1.0000	98.88
34.5	17,594		0.0000	1.0000	98.88
35.5	17,594		0.0000	1.0000	98.88
36.5	17,594		0.0000	1.0000	98.88
37.5	17,594		0.0000	1.0000	98.88
38.5	17,594		0.0000	1.0000	98.88
39.5	17,594	14,213	0.8078	0.1922	98.88
40.5					19.00

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 457.00 - SUBSTATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 457.00 - SUBSTATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1948-2000 EXPERIENCE BAND 1959-2011

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	2,052,255		0.0000	1.0000	100.00
0.5	1,415,445	4,796	0.0034	0.9966	100.00
1.5	1,423,083		0.0000	1.0000	99.66
2.5	1,423,083		0.0000	1.0000	99.66
3.5	1,423,083		0.0000	1.0000	99.66
4.5	1,423,083	253	0.0002	0.9998	99.66
5.5	1,422,830	16,423	0.0115	0.9885	99.64
6.5	1,406,407	1,349	0.0010	0.9990	98.49
7.5	1,405,058		0.0000	1.0000	98.40
8.5	1,405,058		0.0000	1.0000	98.40
9.5	1,405,058		0.0000	1.0000	98.40
10.5	1,415,843	5,610	0.0040	0.9960	98.40
11.5	1,406,152	2,888	0.0021	0.9979	98.01
12.5	1,341,224	118	0.0001	0.9999	97.81
13.5	1,341,106		0.0000	1.0000	97.80
14.5	1,246,953		0.0000	1.0000	97.80
15.5	1,098,975	79	0.0001	0.9999	97.80
16.5	1,098,896		0.0000	1.0000	97.79
17.5	1,098,896		0.0000	1.0000	97.79
18.5	638,467		0.0000	1.0000	97.79
19.5	407,160		0.0000	1.0000	97.79
20.5	407,160	33	0.0001	0.9999	97.79
21.5	407,127		0.0000	1.0000	97.78
22.5	388,651		0.0000	1.0000	97.78
23.5	367,054		0.0000	1.0000	97.78
24.5	367,054		0.0000	1.0000	97.78
25.5	324,038	5,175	0.0160	0.9840	97.78
26.5	304,260		0.0000	1.0000	96.22
27.5	294,670		0.0000	1.0000	96.22
28.5	294,670		0.0000	1.0000	96.22
29.5	291,460		0.0000	1.0000	96.22
30.5	283,310		0.0000	1.0000	96.22
31.5	283,310		0.0000	1.0000	96.22
32.5	283,310		0.0000	1.0000	96.22
33.5	283,310		0.0000	1.0000	96.22
34.5	283,310		0.0000	1.0000	96.22
35.5	283,310		0.0000	1.0000	96.22
36.5	139,701		0.0000	1.0000	96.22
37.5	98,451		0.0000	1.0000	96.22
38.5	98,451		0.0000	1.0000	96.22

YUKON ELECTRICAL COMPANY LIMITED

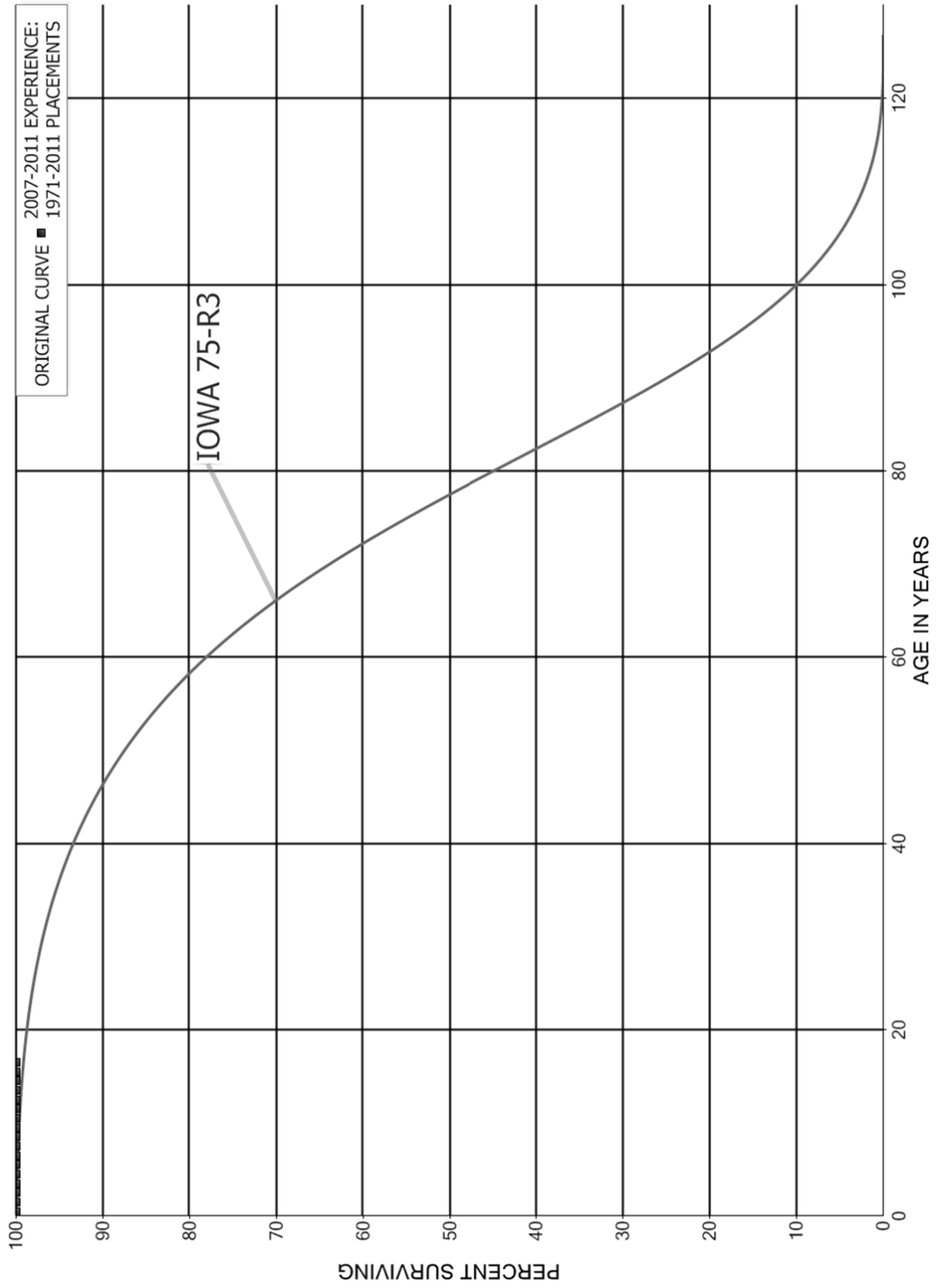
ACCOUNT 457.00 - SUBSTATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1948-2000 EXPERIENCE BAND 1959-2011

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	98,451	7,356	0.0747	0.9253	96.22
40.5	87,165	36	0.0004	0.9996	89.03
41.5	69,358	3,165	0.0456	0.9544	89.00
42.5	40,931	34	0.0008	0.9992	84.94
43.5	26,880	221	0.0082	0.9918	84.87
44.5	20,780	115	0.0055	0.9945	84.17
45.5	20,603	547	0.0266	0.9734	83.70
46.5	19,645		0.0000	1.0000	81.48
47.5	19,431	354	0.0182	0.9818	81.48
48.5	18,061	1,739	0.0963	0.9037	79.99
49.5	16,322		0.0000	1.0000	72.29
50.5	15,664		0.0000	1.0000	72.29
51.5	12,434	3,953	0.3179	0.6821	72.29
52.5	8,482		0.0000	1.0000	49.31
53.5	8,482		0.0000	1.0000	49.31
54.5					49.31

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 471.00 - LAND RIGHTS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

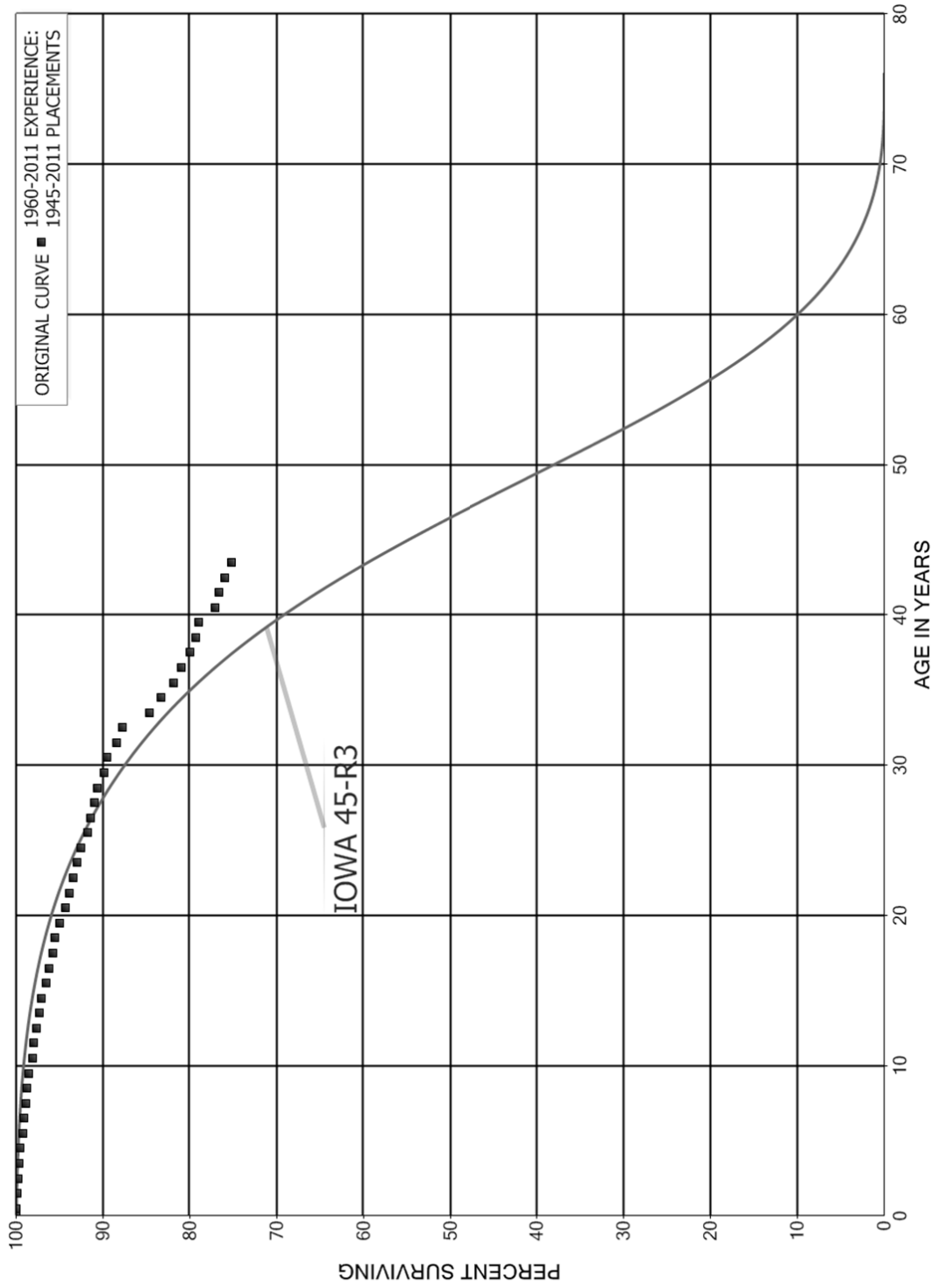
ACCOUNT 471.00 - LAND RIGHTS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1971-2011 EXPERIENCE BAND 2007-2011

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	407,391		0.0000	1.0000	100.00
0.5	379,408		0.0000	1.0000	100.00
1.5	496,651		0.0000	1.0000	100.00
2.5	484,652		0.0000	1.0000	100.00
3.5	382,967		0.0000	1.0000	100.00
4.5	347,887		0.0000	1.0000	100.00
5.5	356,980		0.0000	1.0000	100.00
6.5	202,566		0.0000	1.0000	100.00
7.5	191,644		0.0000	1.0000	100.00
8.5	240,193		0.0000	1.0000	100.00
9.5	345,659		0.0000	1.0000	100.00
10.5	336,396		0.0000	1.0000	100.00
11.5	331,701		0.0000	1.0000	100.00
12.5	294,397		0.0000	1.0000	100.00
13.5	243,875		0.0000	1.0000	100.00
14.5	103,762		0.0000	1.0000	100.00
15.5	57,676		0.0000	1.0000	100.00
16.5	12,701		0.0000	1.0000	100.00
17.5					100.00
18.5					
19.5					
20.5					
21.5					
22.5					
23.5					
24.5					
25.5					
26.5					
27.5	198		0.0000		
28.5	198		0.0000		
29.5	198		0.0000		
30.5	198		0.0000		
31.5	198		0.0000		
32.5					
33.5					
34.5					
35.5	1,500		0.0000		
36.5	1,500		0.0000		
37.5	1,500		0.0000		
38.5	1,500		0.0000		
39.5	1,500		0.0000		
40.5					

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1960-2011

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	29,568,573	1,856	0.0001	0.9999	100.00
0.5	26,595,181	34,714	0.0013	0.9987	99.99
1.5	25,717,605	40,985	0.0016	0.9984	99.86
2.5	25,355,606	25,846	0.0010	0.9990	99.70
3.5	23,716,776	35,921	0.0015	0.9985	99.60
4.5	22,593,758	55,885	0.0025	0.9975	99.45
5.5	21,141,482	29,923	0.0014	0.9986	99.21
6.5	20,126,699	49,725	0.0025	0.9975	99.07
7.5	18,798,226	20,613	0.0011	0.9989	98.82
8.5	18,003,552	42,290	0.0023	0.9977	98.71
9.5	16,976,858	62,727	0.0037	0.9963	98.48
10.5	16,278,855	33,677	0.0021	0.9979	98.12
11.5	15,633,531	43,188	0.0028	0.9972	97.91
12.5	14,824,647	50,164	0.0034	0.9966	97.64
13.5	14,095,722	28,346	0.0020	0.9980	97.31
14.5	13,302,404	81,074	0.0061	0.9939	97.12
15.5	12,321,817	44,321	0.0036	0.9964	96.52
16.5	11,376,746	51,876	0.0046	0.9954	96.18
17.5	10,319,365	24,536	0.0024	0.9976	95.74
18.5	8,720,559	54,151	0.0062	0.9938	95.51
19.5	7,502,142	49,943	0.0067	0.9933	94.92
20.5	6,669,977	32,362	0.0049	0.9951	94.29
21.5	5,527,269	27,327	0.0049	0.9951	93.83
22.5	4,924,930	20,519	0.0042	0.9958	93.37
23.5	4,570,788	21,089	0.0046	0.9954	92.98
24.5	4,131,753	36,613	0.0089	0.9911	92.55
25.5	3,815,579	14,083	0.0037	0.9963	91.73
26.5	3,047,058	14,524	0.0048	0.9952	91.39
27.5	2,758,915	11,638	0.0042	0.9958	90.95
28.5	2,612,237	20,365	0.0078	0.9922	90.57
29.5	2,237,773	8,032	0.0036	0.9964	89.86
30.5	2,100,577	26,478	0.0126	0.9874	89.54
31.5	1,965,330	16,386	0.0083	0.9917	88.41
32.5	1,748,647	59,997	0.0343	0.9657	87.67
33.5	1,476,624	23,507	0.0159	0.9841	84.67
34.5	1,212,410	22,323	0.0184	0.9816	83.32
35.5	1,093,857	11,867	0.0108	0.9892	81.78
36.5	935,545	11,464	0.0123	0.9877	80.90
37.5	834,537	6,264	0.0075	0.9925	79.91
38.5	729,566	2,883	0.0040	0.9960	79.31

YUKON ELECTRICAL COMPANY LIMITED

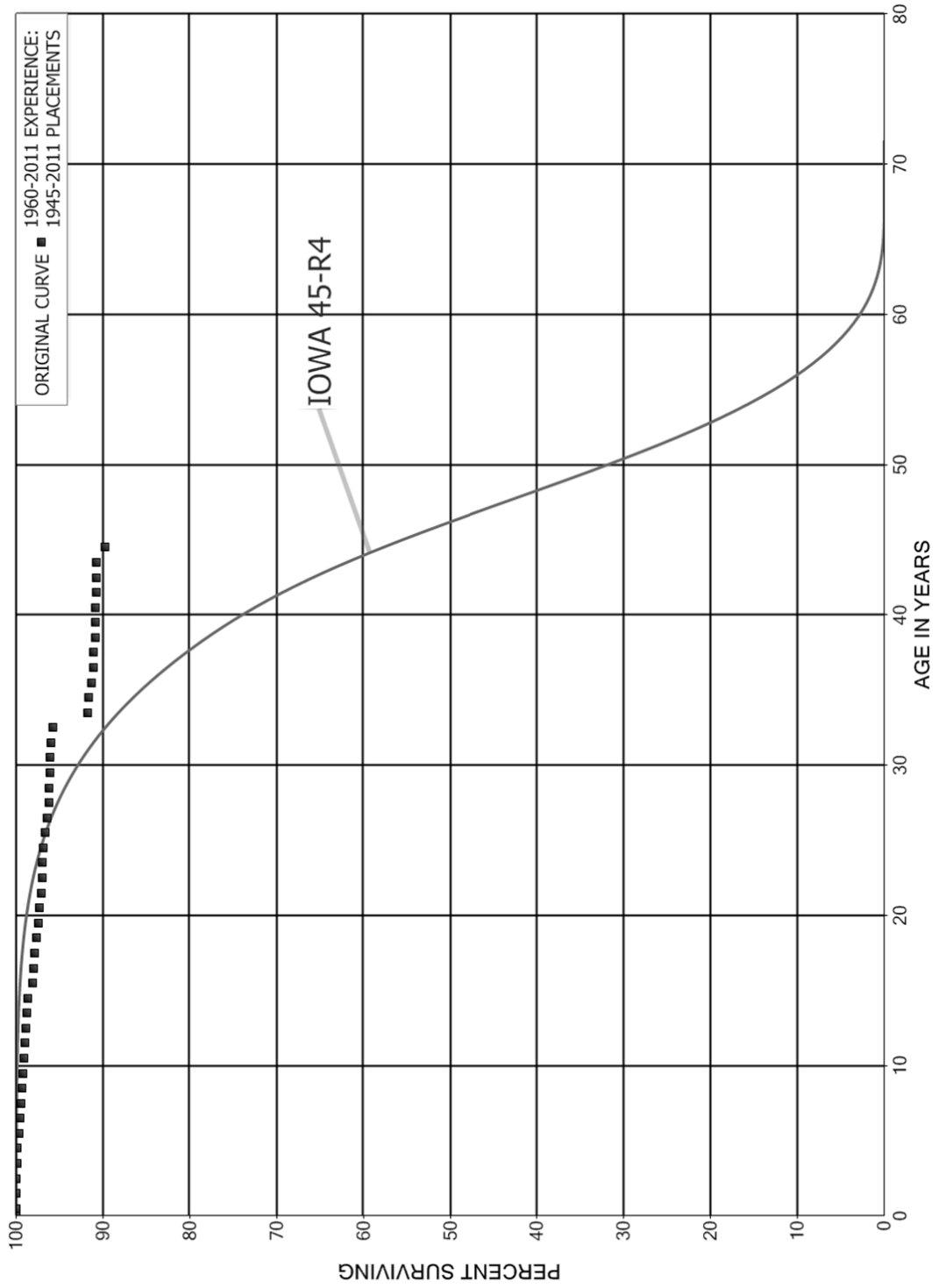
ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1960-2011

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	596,858	14,549	0.0244	0.9756	78.99
40.5	563,600	3,438	0.0061	0.9939	77.07
41.5	544,139	4,501	0.0083	0.9917	76.60
42.5	432,890	4,521	0.0104	0.9896	75.96
43.5	331,701	4,723	0.0142	0.9858	75.17
44.5	290,732	5,677	0.0195	0.9805	74.10
45.5	214,835	2,863	0.0133	0.9867	72.65
46.5	187,747	4,923	0.0262	0.9738	71.69
47.5	157,296	7,348	0.0467	0.9533	69.81
48.5	127,211	2,764	0.0217	0.9783	66.54
49.5	106,543	7,445	0.0699	0.9301	65.10
50.5	76,836	6,332	0.0824	0.9176	60.55
51.5	6,437		0.0000	1.0000	55.56
52.5	3,015		0.0000	1.0000	55.56
53.5					55.56

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1960-2011

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	20,788,532	1,575	0.0001	0.9999	100.00
0.5	19,255,095	5,362	0.0003	0.9997	99.99
1.5	17,908,306	8,690	0.0005	0.9995	99.96
2.5	16,961,532	7,649	0.0005	0.9995	99.92
3.5	15,438,459	8,346	0.0005	0.9995	99.87
4.5	13,852,737	25,606	0.0018	0.9982	99.82
5.5	12,671,058	10,200	0.0008	0.9992	99.63
6.5	11,870,886	23,813	0.0020	0.9980	99.55
7.5	11,071,005	7,107	0.0006	0.9994	99.35
8.5	10,641,572	15,028	0.0014	0.9986	99.29
9.5	10,116,550	9,654	0.0010	0.9990	99.15
10.5	9,635,130	9,489	0.0010	0.9990	99.05
11.5	9,147,121	10,685	0.0012	0.9988	98.96
12.5	8,726,184	10,116	0.0012	0.9988	98.84
13.5	8,306,314	6,262	0.0008	0.9992	98.73
14.5	7,782,555	42,168	0.0054	0.9946	98.65
15.5	7,179,911	11,043	0.0015	0.9985	98.12
16.5	6,811,022	12,246	0.0018	0.9982	97.97
17.5	6,335,122	10,108	0.0016	0.9984	97.79
18.5	5,532,054	14,645	0.0026	0.9974	97.63
19.5	5,030,743	7,208	0.0014	0.9986	97.38
20.5	4,503,763	7,892	0.0018	0.9982	97.24
21.5	3,815,233	2,759	0.0007	0.9993	97.07
22.5	3,479,773	3,297	0.0009	0.9991	97.00
23.5	3,237,292	3,038	0.0009	0.9991	96.90
24.5	2,905,628	4,716	0.0016	0.9984	96.81
25.5	2,764,229	6,524	0.0024	0.9976	96.66
26.5	2,079,805	4,703	0.0023	0.9977	96.43
27.5	1,953,210	1,071	0.0005	0.9995	96.21
28.5	1,820,093	1,118	0.0006	0.9994	96.16
29.5	1,609,089	605	0.0004	0.9996	96.10
30.5	1,520,643	1,871	0.0012	0.9988	96.06
31.5	1,396,581	3,232	0.0023	0.9977	95.94
32.5	1,316,188	54,761	0.0416	0.9584	95.72
33.5	1,167,506	2,086	0.0018	0.9982	91.74
34.5	1,020,380	3,611	0.0035	0.9965	91.57
35.5	909,914	1,473	0.0016	0.9984	91.25
36.5	763,802	389	0.0005	0.9995	91.10
37.5	706,362	1,353	0.0019	0.9981	91.06
38.5	596,458	7	0.0000	1.0000	90.88

YUKON ELECTRICAL COMPANY LIMITED

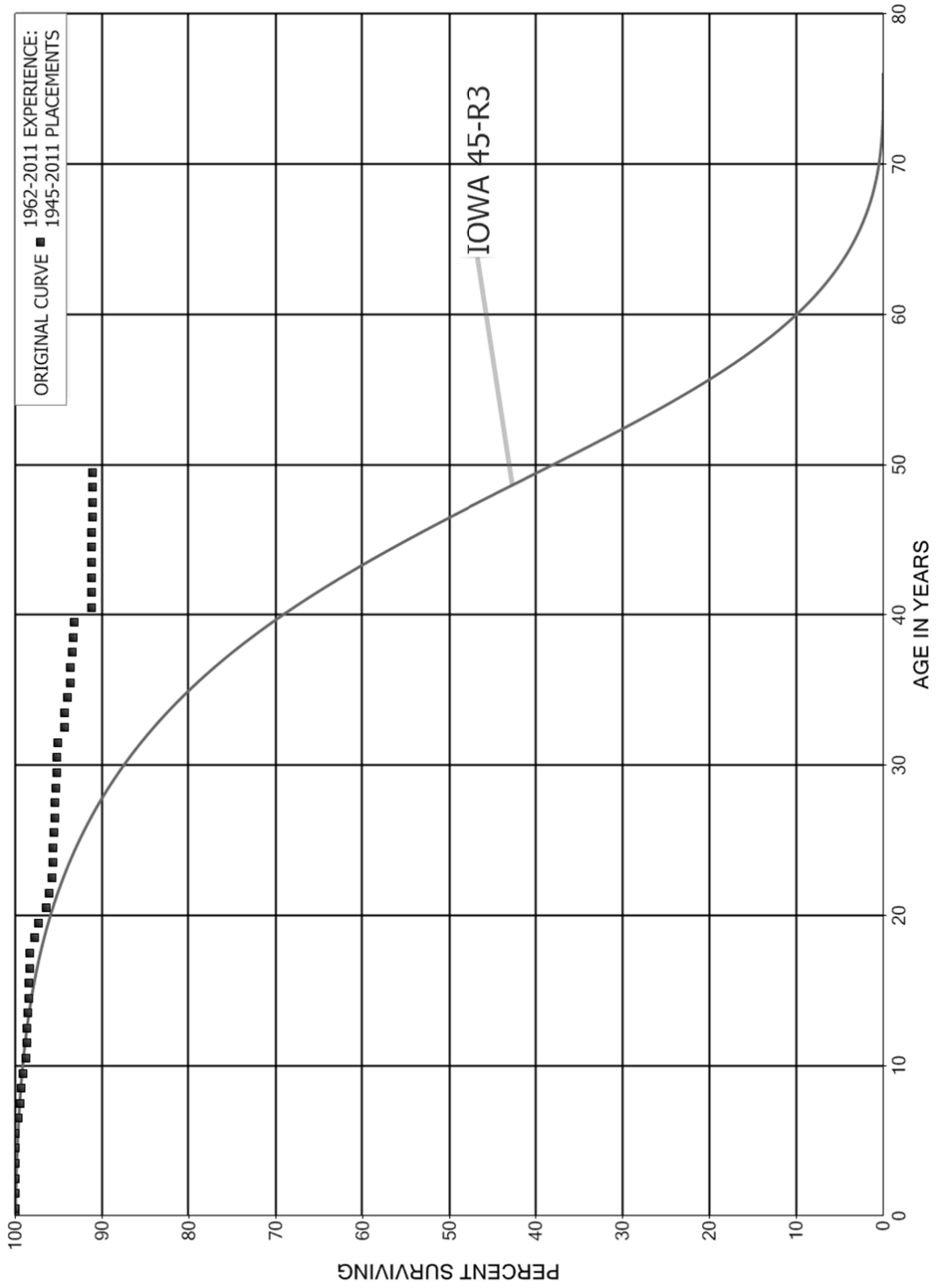
ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1960-2011

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	486,662	304	0.0006	0.9994	90.88
40.5	467,393	361	0.0008	0.9992	90.82
41.5	440,024	76	0.0002	0.9998	90.75
42.5	314,775	176	0.0006	0.9994	90.74
43.5	246,352	2,735	0.0111	0.9889	90.69
44.5	207,723	2,767	0.0133	0.9867	89.68
45.5	161,189	462	0.0029	0.9971	88.49
46.5	146,161		0.0000	1.0000	88.23
47.5	135,620		0.0000	1.0000	88.23
48.5	121,377	644	0.0053	0.9947	88.23
49.5	108,633	136	0.0013	0.9987	87.76
50.5	99,204	15	0.0002	0.9998	87.66
51.5	26,805	470	0.0175	0.9825	87.64
52.5	18,295		0.0000	1.0000	86.10
53.5	12,736		0.0000	1.0000	86.10
54.5	11,814	976	0.0826	0.9174	86.10
55.5	8,095	253	0.0313	0.9687	78.99
56.5	7,423		0.0000	1.0000	76.52
57.5	4,785		0.0000	1.0000	76.52
58.5	2,756		0.0000	1.0000	76.52
59.5	1,629		0.0000	1.0000	76.52
60.5	890		0.0000	1.0000	76.52
61.5	766	100	0.1307	0.8693	76.52
62.5	156	7	0.0450	0.9550	66.52
63.5					63.53

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1962-2011

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	2,897,960		0.0000	1.0000	100.00
0.5	2,679,527	209	0.0001	0.9999	100.00
1.5	2,650,305	137	0.0001	0.9999	99.99
2.5	2,523,445	1,031	0.0004	0.9996	99.99
3.5	2,289,535	361	0.0002	0.9998	99.95
4.5	2,101,382	368	0.0002	0.9998	99.93
5.5	1,968,323	4,885	0.0025	0.9975	99.91
6.5	1,902,819	4,437	0.0023	0.9977	99.66
7.5	1,833,401	3,026	0.0017	0.9983	99.43
8.5	1,777,197	3,219	0.0018	0.9982	99.27
9.5	1,716,047	6,929	0.0040	0.9960	99.09
10.5	1,684,449	572	0.0003	0.9997	98.69
11.5	1,651,024	894	0.0005	0.9995	98.66
12.5	1,610,121	1,026	0.0006	0.9994	98.60
13.5	1,562,798	2,139	0.0014	0.9986	98.54
14.5	1,515,231	769	0.0005	0.9995	98.40
15.5	1,514,883	1,339	0.0009	0.9991	98.35
16.5	1,461,458	317	0.0002	0.9998	98.27
17.5	1,396,360	6,657	0.0048	0.9952	98.25
18.5	1,277,630	6,847	0.0054	0.9946	97.78
19.5	1,107,081	9,680	0.0087	0.9913	97.25
20.5	989,250	3,274	0.0033	0.9967	96.40
21.5	896,304	3,357	0.0037	0.9963	96.08
22.5	811,679	1,006	0.0012	0.9988	95.72
23.5	744,060	235	0.0003	0.9997	95.61
24.5	675,944	256	0.0004	0.9996	95.58
25.5	624,079	1,040	0.0017	0.9983	95.54
26.5	590,354	180	0.0003	0.9997	95.38
27.5	549,937	107	0.0002	0.9998	95.35
28.5	509,327	645	0.0013	0.9987	95.33
29.5	477,702	237	0.0005	0.9995	95.21
30.5	424,234	213	0.0005	0.9995	95.16
31.5	380,748	3,198	0.0084	0.9916	95.12
32.5	325,500	195	0.0006	0.9994	94.32
33.5	263,123	711	0.0027	0.9973	94.26
34.5	219,990	896	0.0041	0.9959	94.01
35.5	181,415		0.0000	1.0000	93.62
36.5	146,796	281	0.0019	0.9981	93.62
37.5	126,348	144	0.0011	0.9989	93.44
38.5	111,511	161	0.0014	0.9986	93.34

YUKON ELECTRICAL COMPANY LIMITED

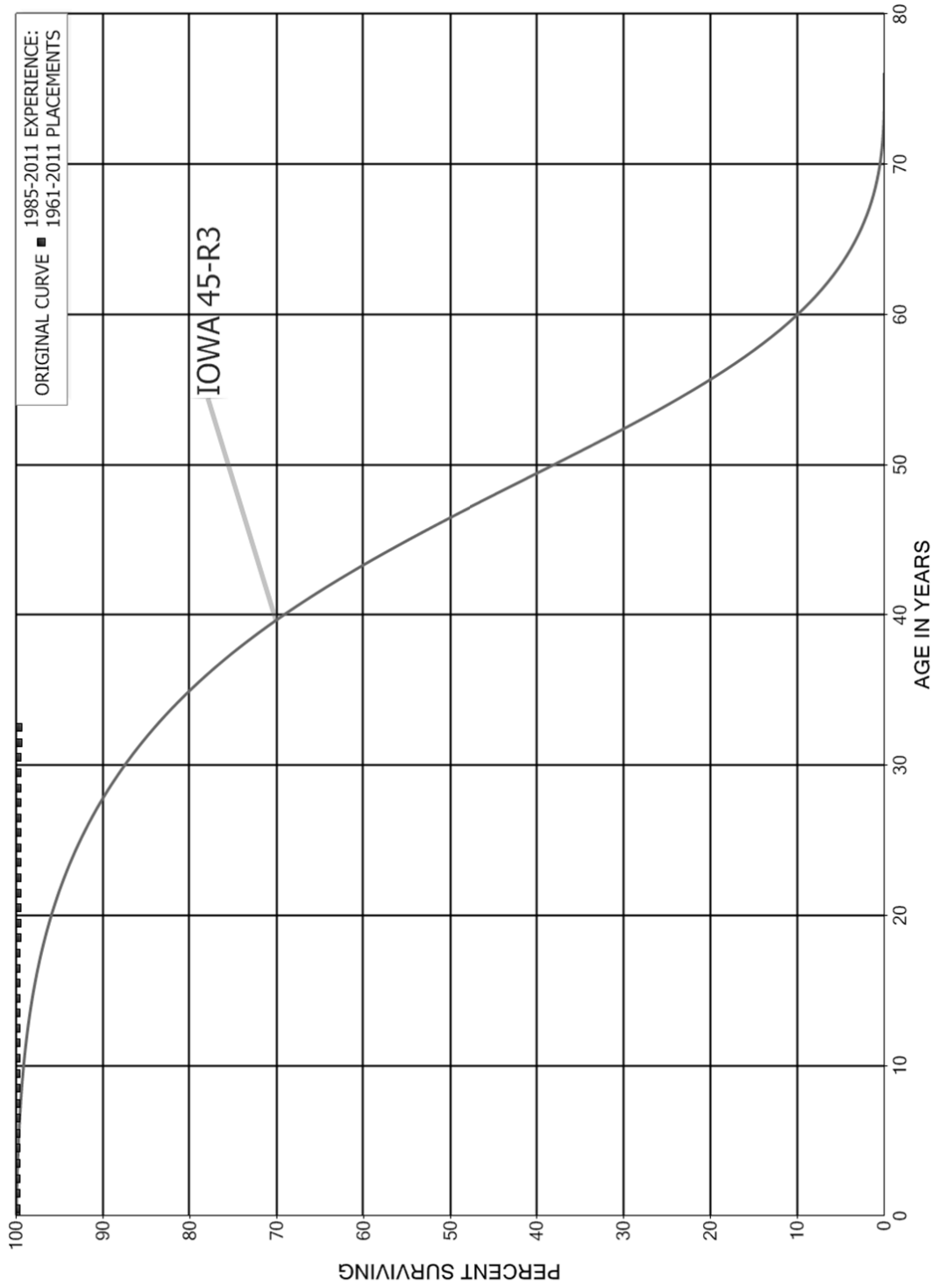
ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1962-2011

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	98,393	2,138	0.0217	0.9783	93.20
40.5	84,181	26	0.0003	0.9997	91.18
41.5	72,402		0.0000	1.0000	91.15
42.5	64,880		0.0000	1.0000	91.15
43.5	56,880		0.0000	1.0000	91.15
44.5	49,399		0.0000	1.0000	91.15
45.5	44,802	32	0.0007	0.9993	91.15
46.5	41,541		0.0000	1.0000	91.08
47.5	36,981		0.0000	1.0000	91.08
48.5	34,457		0.0000	1.0000	91.08
49.5	29,129	296	0.0102	0.9898	91.08
50.5	27,041		0.0000	1.0000	90.16
51.5	25,481		0.0000	1.0000	90.16
52.5	23,948		0.0000	1.0000	90.16
53.5	22,778		0.0000	1.0000	90.16
54.5	19,186		0.0000	1.0000	90.16
55.5	15,861		0.0000	1.0000	90.16
56.5	13,090		0.0000	1.0000	90.16
57.5	9,893		0.0000	1.0000	90.16
58.5	7,434		0.0000	1.0000	90.16
59.5	6,068		0.0000	1.0000	90.16
60.5	5,167		0.0000	1.0000	90.16
61.5	4,359		0.0000	1.0000	90.16
62.5	3,686		0.0000	1.0000	90.16
63.5	3,116		0.0000	1.0000	90.16
64.5	2,640		0.0000	1.0000	90.16
65.5	2,225	22	0.0099	0.9901	90.16
66.5					89.27

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1961-2011 EXPERIENCE BAND 1985-2011

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	19,704,379	306	0.0000	1.0000	100.00
0.5	18,868,373	200	0.0000	1.0000	100.00
1.5	18,307,894	2,007	0.0001	0.9999	100.00
2.5	17,131,040	7	0.0000	1.0000	99.99
3.5	16,330,481	679	0.0000	1.0000	99.99
4.5	16,220,522	97	0.0000	1.0000	99.98
5.5	15,496,884	314	0.0000	1.0000	99.98
6.5	15,029,442	339	0.0000	1.0000	99.98
7.5	14,036,041		0.0000	1.0000	99.98
8.5	12,949,411	378	0.0000	1.0000	99.98
9.5	11,944,443	81	0.0000	1.0000	99.97
10.5	10,228,413	1,186	0.0001	0.9999	99.97
11.5	9,704,739	2,885	0.0003	0.9997	99.96
12.5	8,841,122	20	0.0000	1.0000	99.93
13.5	8,183,034		0.0000	1.0000	99.93
14.5	7,062,651	2,151	0.0003	0.9997	99.93
15.5	6,528,623	525	0.0001	0.9999	99.90
16.5	5,403,385	41	0.0000	1.0000	99.89
17.5	5,135,520	490	0.0001	0.9999	99.89
18.5	4,138,490	455	0.0001	0.9999	99.88
19.5	3,401,557	12	0.0000	1.0000	99.87
20.5	3,229,608	81	0.0000	1.0000	99.87
21.5	2,990,286	72	0.0000	1.0000	99.87
22.5	1,607,602	11	0.0000	1.0000	99.87
23.5	1,537,464	38	0.0000	1.0000	99.87
24.5	1,356,302	660	0.0005	0.9995	99.86
25.5	1,333,676	3	0.0000	1.0000	99.82
26.5	1,272,443		0.0000	1.0000	99.82
27.5	1,239,767		0.0000	1.0000	99.82
28.5	1,171,472	19	0.0000	1.0000	99.82
29.5	1,122,142	15	0.0000	1.0000	99.81
30.5	1,098,861	591	0.0005	0.9995	99.81
31.5	382,215	7	0.0000	1.0000	99.76
32.5	365,200	5	0.0000	1.0000	99.76
33.5	107,939		0.0000	1.0000	99.76
34.5	103,390		0.0000	1.0000	99.76
35.5	36,720		0.0000	1.0000	99.76
36.5	28,132		0.0000	1.0000	99.76
37.5	20,759		0.0000	1.0000	99.76
38.5	15,703		0.0000	1.0000	99.76

YUKON ELECTRICAL COMPANY LIMITED

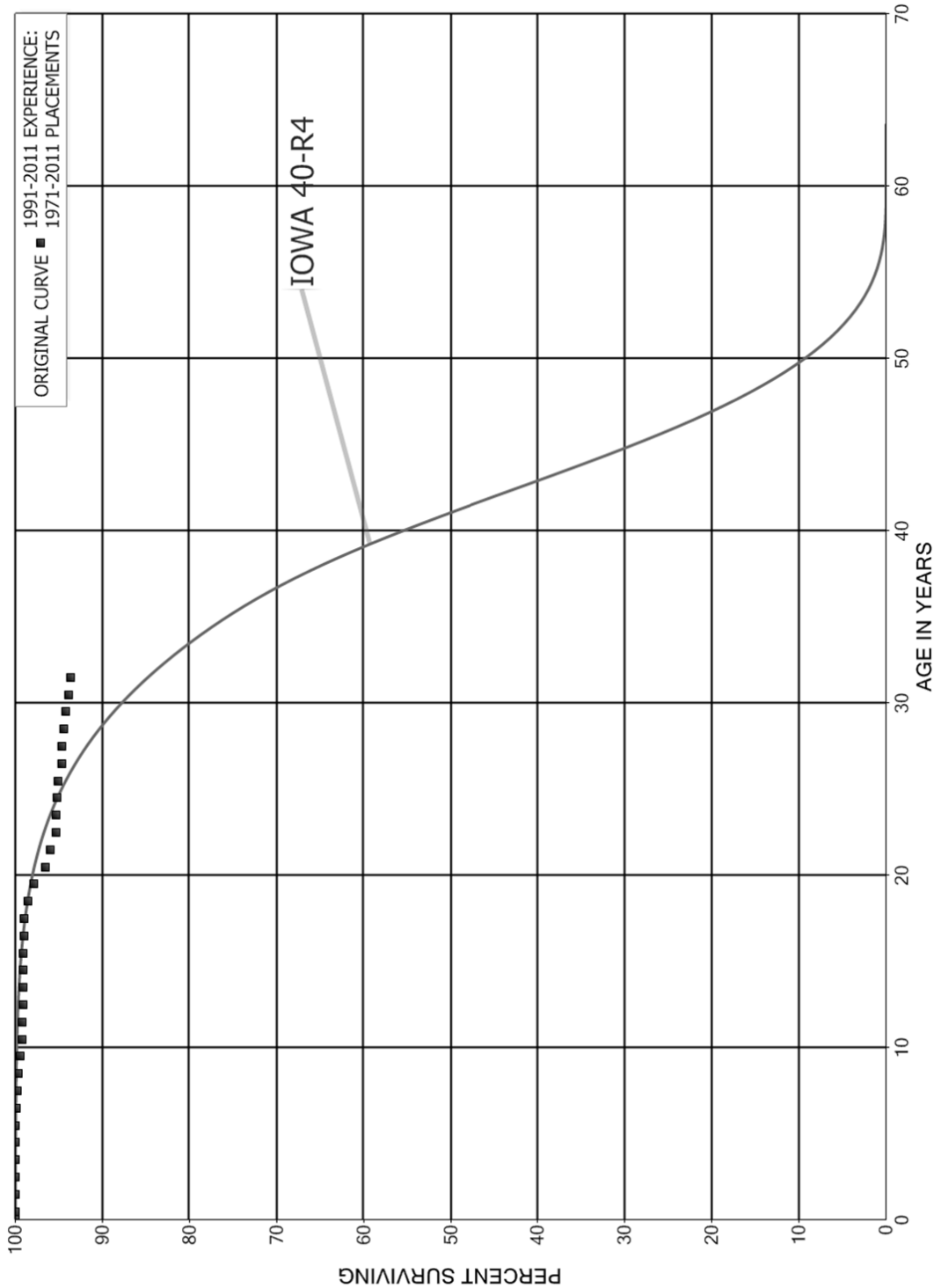
ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1961-2011 EXPERIENCE BAND 1985-2011

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	1,549		0.0000	1.0000	99.76
40.5	1,484		0.0000	1.0000	99.76
41.5	1,484		0.0000	1.0000	99.76
42.5	127		0.0000	1.0000	99.76
43.5	127		0.0000	1.0000	99.76
44.5	127		0.0000	1.0000	99.76
45.5	127		0.0000	1.0000	99.76
46.5	127		0.0000	1.0000	99.76
47.5	127		0.0000	1.0000	99.76
48.5	127		0.0000	1.0000	99.76
49.5	127	115	0.9055	0.0945	99.76
50.5					9.43

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 475.10 - UNDERGROUND SERVICES - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

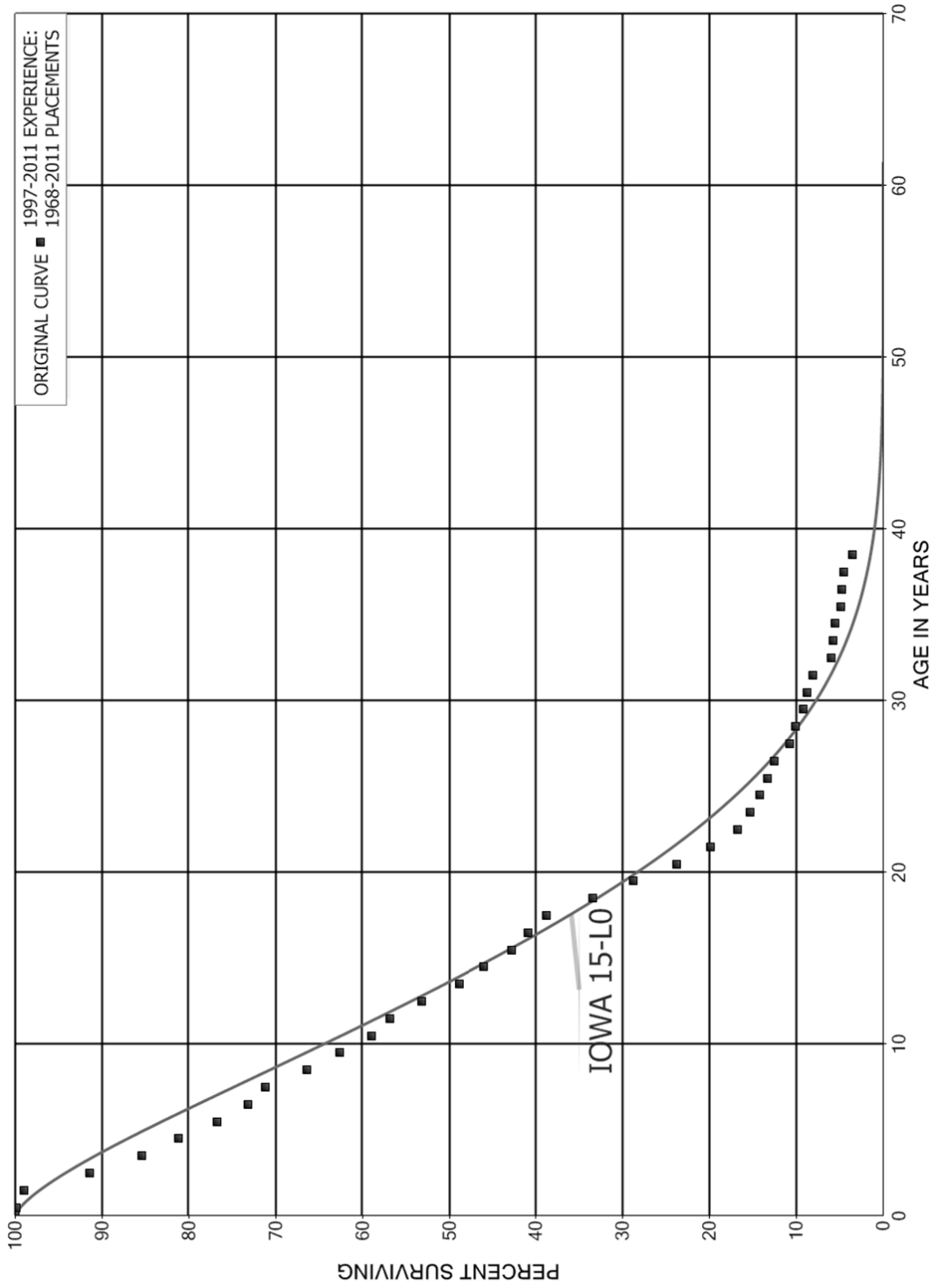
ACCOUNT 475.10 - UNDERGROUND SERVICES - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1971-2011 EXPERIENCE BAND 1991-2011

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	2,620,757		0.0000	1.0000	100.00
0.5	2,471,964	136	0.0001	0.9999	100.00
1.5	2,443,291	95	0.0000	1.0000	99.99
2.5	2,461,478	684	0.0003	0.9997	99.99
3.5	2,430,245	234	0.0001	0.9999	99.96
4.5	2,314,544	254	0.0001	0.9999	99.95
5.5	2,083,803	1,771	0.0008	0.9992	99.94
6.5	1,939,759	2,687	0.0014	0.9986	99.86
7.5	1,734,398	2,602	0.0015	0.9985	99.72
8.5	1,663,049	2,148	0.0013	0.9987	99.57
9.5	1,603,712	4,583	0.0029	0.9971	99.44
10.5	1,539,527	175	0.0001	0.9999	99.16
11.5	1,540,195	556	0.0004	0.9996	99.15
12.5	1,479,001	204	0.0001	0.9999	99.11
13.5	1,380,492	238	0.0002	0.9998	99.10
14.5	1,254,583	389	0.0003	0.9997	99.08
15.5	1,027,868	548	0.0005	0.9995	99.05
16.5	903,446	89	0.0001	0.9999	99.00
17.5	818,448	4,222	0.0052	0.9948	98.99
18.5	616,038	3,902	0.0063	0.9937	98.47
19.5	460,903	6,273	0.0136	0.9864	97.85
20.5	368,937	2,050	0.0056	0.9944	96.52
21.5	302,970	2,299	0.0076	0.9924	95.98
22.5	236,419	46	0.0002	0.9998	95.25
23.5	181,025	163	0.0009	0.9991	95.24
24.5	116,477	149	0.0013	0.9987	95.15
25.5	68,732	281	0.0041	0.9959	95.03
26.5	65,984	52	0.0008	0.9992	94.64
27.5	59,882	74	0.0012	0.9988	94.57
28.5	55,696	151	0.0027	0.9973	94.45
29.5	49,409	164	0.0033	0.9967	94.19
30.5	34,917	82	0.0024	0.9976	93.88
31.5	29,718	2,962	0.0997	0.9003	93.66
32.5	10,601	1,728	0.1630	0.8370	84.33
33.5	67		0.0000	1.0000	70.58
34.5	67		0.0000	1.0000	70.58
35.5	67		0.0000	1.0000	70.58
36.5	67		0.0000	1.0000	70.58
37.5	67		0.0000	1.0000	70.58
38.5	67	67	1.0000		70.58
39.5					

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 476.10 - METERS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

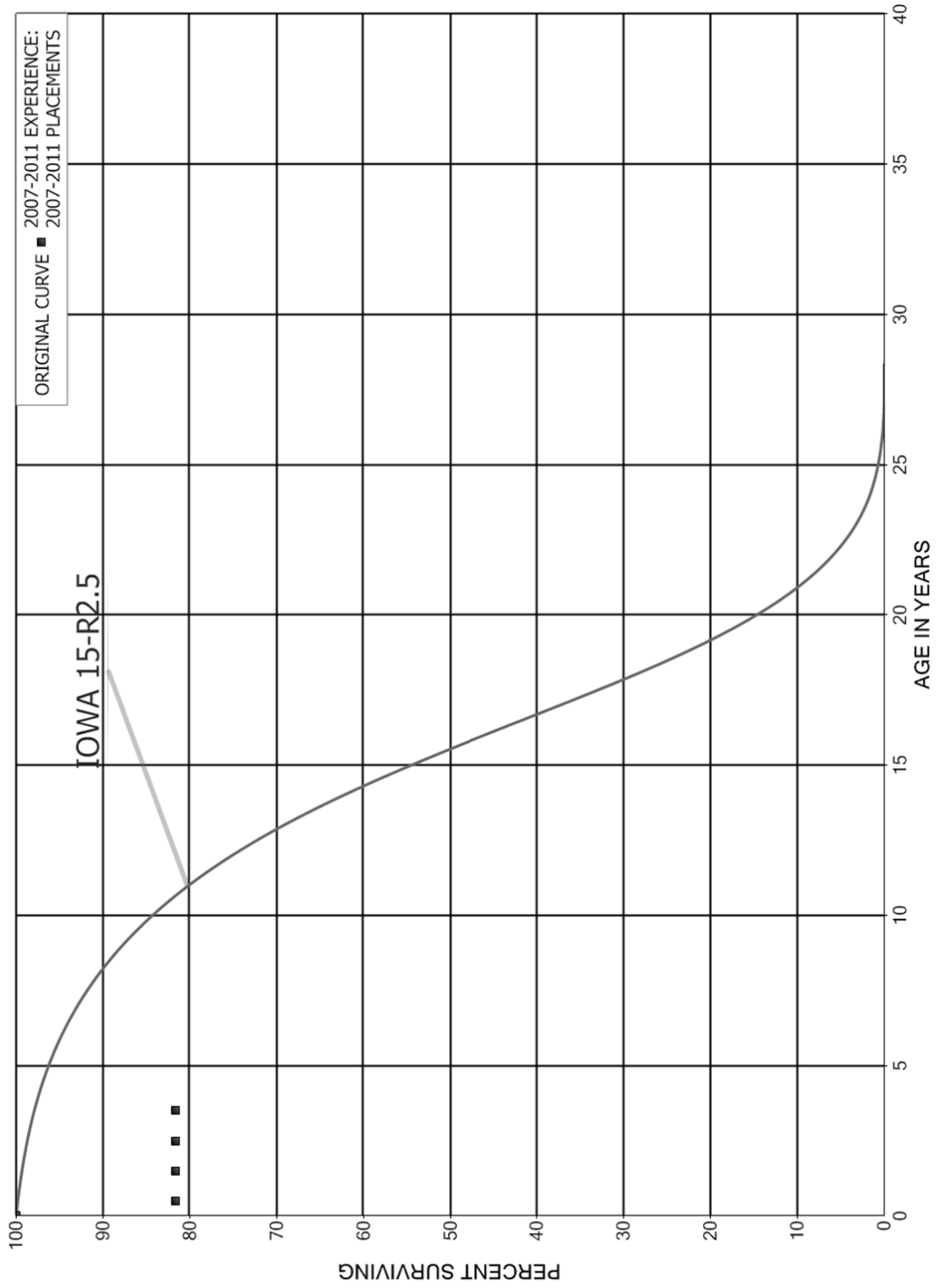
ACCOUNT 476.10 - METERS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2011 EXPERIENCE BAND 1997-2011

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	1,721,599	3,504	0.0020	0.9980	100.00
0.5	1,531,375	13,272	0.0087	0.9913	99.80
1.5	1,070,993	81,132	0.0758	0.9242	98.93
2.5	1,023,478	67,944	0.0664	0.9336	91.44
3.5	1,047,822	51,658	0.0493	0.9507	85.37
4.5	1,077,564	59,331	0.0551	0.9449	81.16
5.5	1,082,760	50,139	0.0463	0.9537	76.69
6.5	1,095,126	29,652	0.0271	0.9729	73.14
7.5	1,029,623	68,528	0.0666	0.9334	71.16
8.5	906,930	52,676	0.0581	0.9419	66.42
9.5	862,730	49,639	0.0575	0.9425	62.56
10.5	801,121	29,265	0.0365	0.9635	58.96
11.5	694,679	44,249	0.0637	0.9363	56.81
12.5	596,929	48,819	0.0818	0.9182	53.19
13.5	463,951	27,305	0.0589	0.9411	48.84
14.5	438,374	30,603	0.0698	0.9302	45.97
15.5	441,140	19,936	0.0452	0.9548	42.76
16.5	435,881	22,313	0.0512	0.9488	40.83
17.5	427,358	59,526	0.1393	0.8607	38.74
18.5	347,310	48,033	0.1383	0.8617	33.34
19.5	278,046	48,276	0.1736	0.8264	28.73
20.5	245,715	40,171	0.1635	0.8365	23.74
21.5	212,614	33,624	0.1581	0.8419	19.86
22.5	153,200	13,190	0.0861	0.9139	16.72
23.5	151,212	10,471	0.0692	0.9308	15.28
24.5	142,946	9,196	0.0643	0.9357	14.22
25.5	146,977	9,371	0.0638	0.9362	13.31
26.5	145,781	20,904	0.1434	0.8566	12.46
27.5	126,914	6,652	0.0524	0.9476	10.67
28.5	138,334	13,514	0.0977	0.9023	10.11
29.5	119,588	5,484	0.0459	0.9541	9.12
30.5	110,516	8,782	0.0795	0.9205	8.71
31.5	97,389	24,789	0.2545	0.7455	8.01
32.5	72,132	3,348	0.0464	0.9536	5.97
33.5	64,822	2,413	0.0372	0.9628	5.70
34.5	60,249	7,443	0.1235	0.8765	5.49
35.5	49,274	1,406	0.0285	0.9715	4.81
36.5	37,476	1,057	0.0282	0.9718	4.67
37.5	35,353	7,984	0.2258	0.7742	4.54
38.5	22,447	1,847	0.0823	0.9177	3.51
39.5	16,441	11,964	0.7277	0.2723	3.22
40.5	184	166	0.9015	0.0985	0.88
41.5					0.09

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 476.30 - AMR METERS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

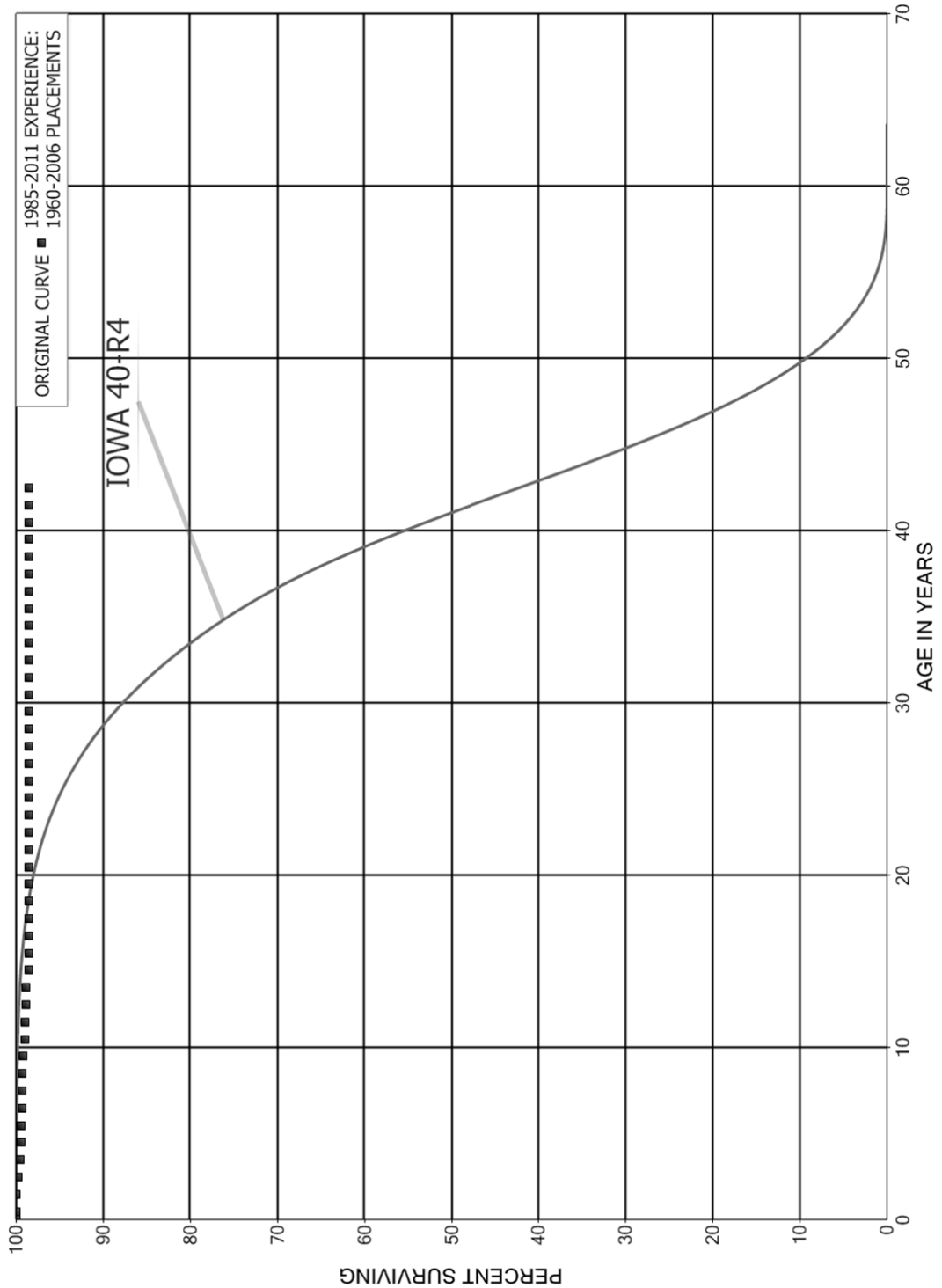
ACCOUNT 476.30 - AMR METERS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 2007-2011 EXPERIENCE BAND 2007-2011

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	78,825	14,525	0.1843	0.8157	100.00
0.5	62,588		0.0000	1.0000	81.57
1.5	49,447		0.0000	1.0000	81.57
2.5	37,215		0.0000	1.0000	81.57
3.5	7,790		0.0000	1.0000	81.57
4.5					81.57

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2006 EXPERIENCE BAND 1985-2011

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	2,726,576		0.0000	1.0000	100.00
0.5	2,401,558	211	0.0001	0.9999	100.00
1.5	2,401,347	5,152	0.0021	0.9979	99.99
2.5	2,396,194	7,649	0.0032	0.9968	99.78
3.5	2,515,590	786	0.0003	0.9997	99.46
4.5	2,603,775	2,182	0.0008	0.9992	99.43
5.5	2,594,208	723	0.0003	0.9997	99.34
6.5	2,101,778		0.0000	1.0000	99.32
7.5	2,174,234		0.0000	1.0000	99.32
8.5	2,507,476	4,215	0.0017	0.9983	99.32
9.5	2,504,858	6,207	0.0025	0.9975	99.15
10.5	2,252,210		0.0000	1.0000	98.90
11.5	2,229,667	1,638	0.0007	0.9993	98.90
12.5	2,184,787		0.0000	1.0000	98.83
13.5	2,224,755	6,267	0.0028	0.9972	98.83
14.5	2,217,118	90	0.0000	1.0000	98.55
15.5	2,021,818	1,182	0.0006	0.9994	98.55
16.5	2,037,242		0.0000	1.0000	98.49
17.5	1,995,561	176	0.0001	0.9999	98.49
18.5	1,828,451		0.0000	1.0000	98.48
19.5	1,729,873		0.0000	1.0000	98.48
20.5	1,469,952		0.0000	1.0000	98.48
21.5	1,337,752		0.0000	1.0000	98.48
22.5	1,301,170		0.0000	1.0000	98.48
23.5	1,240,263		0.0000	1.0000	98.48
24.5	908,097		0.0000	1.0000	98.48
25.5	789,781		0.0000	1.0000	98.48
26.5	746,259		0.0000	1.0000	98.48
27.5	746,259		0.0000	1.0000	98.48
28.5	746,259		0.0000	1.0000	98.48
29.5	746,259		0.0000	1.0000	98.48
30.5	619,929		0.0000	1.0000	98.48
31.5	539,094		0.0000	1.0000	98.48
32.5	524,140		0.0000	1.0000	98.48
33.5	524,140		0.0000	1.0000	98.48
34.5	453,256		0.0000	1.0000	98.48
35.5	120,164		0.0000	1.0000	98.48
36.5	120,164		0.0000	1.0000	98.48
37.5	119,718		0.0000	1.0000	98.48
38.5	63,168		0.0000	1.0000	98.48

YUKON ELECTRICAL COMPANY LIMITED

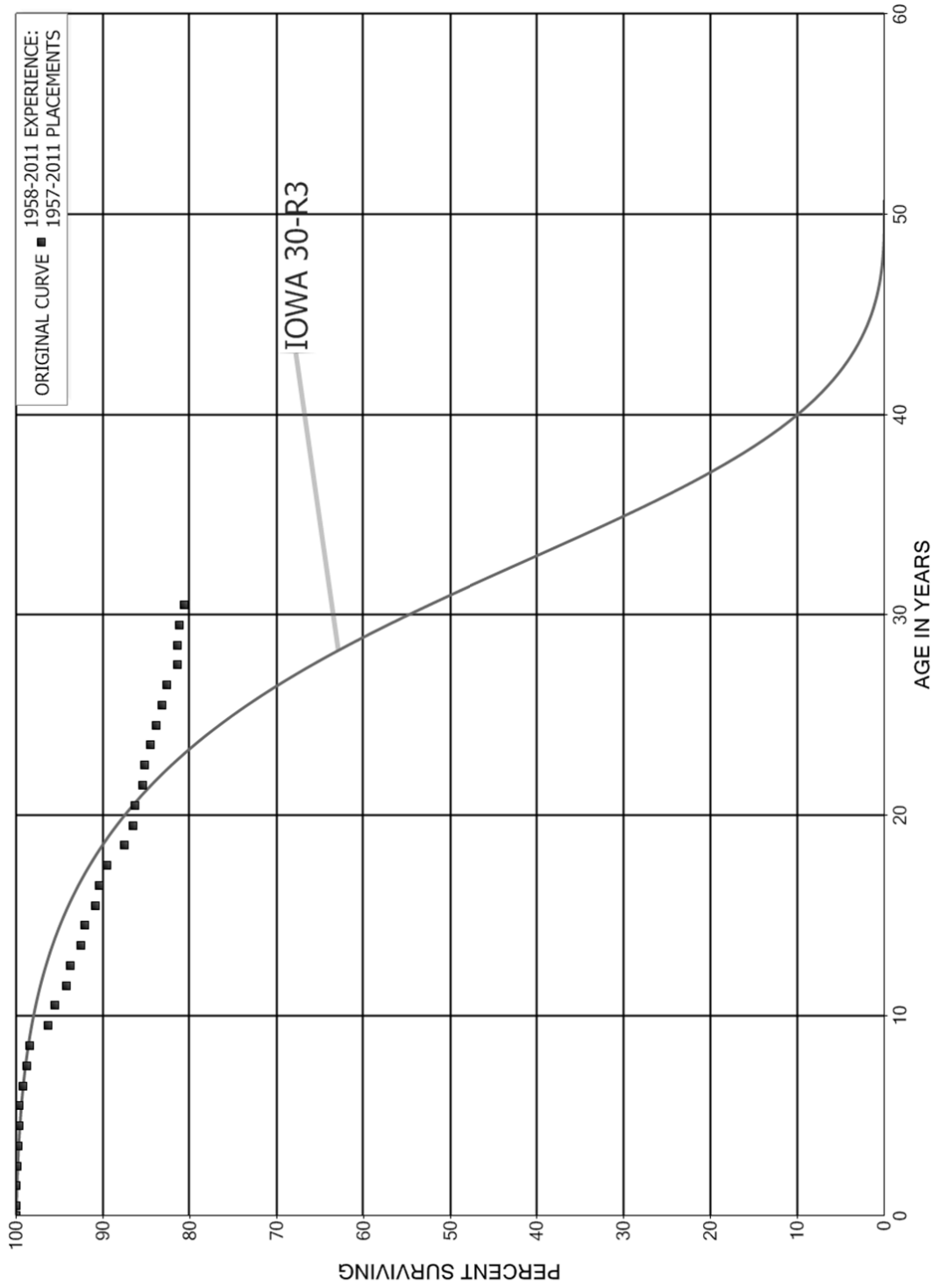
ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2006 EXPERIENCE BAND 1985-2011

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	61,079		0.0000	1.0000	98.48
40.5	21,120		0.0000	1.0000	98.48
41.5	21,120		0.0000	1.0000	98.48
42.5	20,238		0.0000	1.0000	98.48
43.5	3,632		0.0000	1.0000	98.48
44.5	3,632		0.0000	1.0000	98.48
45.5	3,632		0.0000	1.0000	98.48
46.5	3,632		0.0000	1.0000	98.48
47.5	3,632		0.0000	1.0000	98.48
48.5	3,632		0.0000	1.0000	98.48
49.5	3,632		0.0000	1.0000	98.48
50.5	3,632		0.0000	1.0000	98.48
51.5					98.48

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 478.10 - STREET LIGHTS AND SIGNAL SYSTEMS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

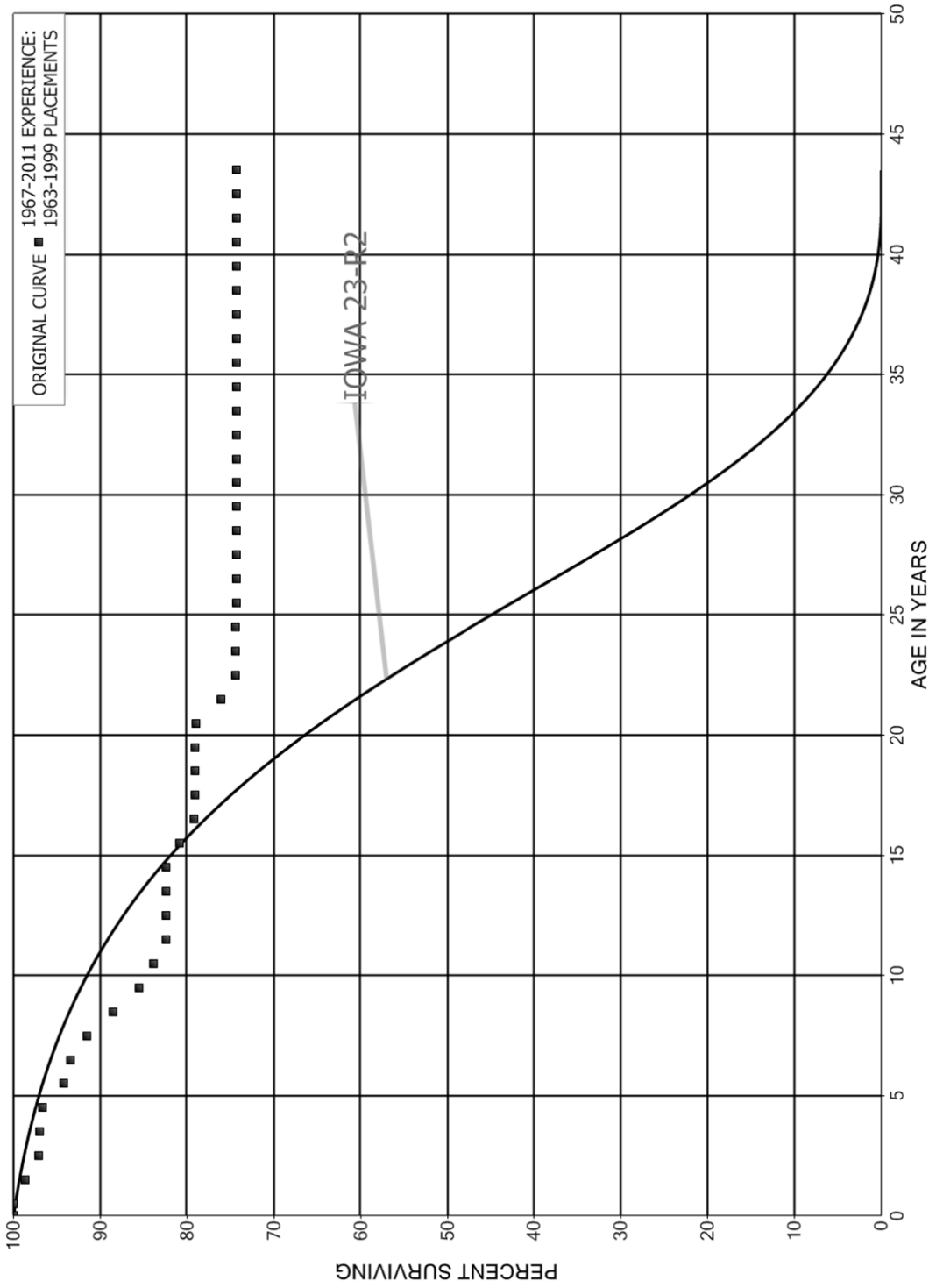
ACCOUNT 478.10 - STREET LIGHTS AND SIGNAL SYSTEMS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1957-2011 EXPERIENCE BAND 1958-2011

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	9,842,476	1,271	0.0001	0.9999	100.00
0.5	9,383,230	6,132	0.0007	0.9993	99.99
1.5	9,182,075	11,841	0.0013	0.9987	99.92
2.5	8,585,083	2,754	0.0003	0.9997	99.79
3.5	8,364,298	8,118	0.0010	0.9990	99.76
4.5	7,831,564	6,625	0.0008	0.9992	99.66
5.5	7,024,946	26,358	0.0038	0.9962	99.58
6.5	6,889,532	29,966	0.0043	0.9957	99.21
7.5	6,354,839	24,352	0.0038	0.9962	98.77
8.5	5,742,293	121,079	0.0211	0.9789	98.40
9.5	5,425,679	48,608	0.0090	0.9910	96.32
10.5	5,020,513	67,908	0.0135	0.9865	95.46
11.5	4,742,405	21,903	0.0046	0.9954	94.17
12.5	4,469,160	57,860	0.0129	0.9871	93.73
13.5	4,193,540	20,962	0.0050	0.9950	92.52
14.5	3,758,700	49,070	0.0131	0.9869	92.06
15.5	3,602,407	16,853	0.0047	0.9953	90.85
16.5	3,275,025	33,875	0.0103	0.9897	90.43
17.5	2,993,862	64,747	0.0216	0.9784	89.49
18.5	2,575,313	32,421	0.0126	0.9874	87.56
19.5	2,453,096	4,945	0.0020	0.9980	86.46
20.5	2,225,813	22,546	0.0101	0.9899	86.28
21.5	1,931,883	4,769	0.0025	0.9975	85.41
22.5	1,354,352	11,558	0.0085	0.9915	85.20
23.5	1,132,832	8,300	0.0073	0.9927	84.47
24.5	987,380	8,065	0.0082	0.9918	83.85
25.5	630,699	4,529	0.0072	0.9928	83.17
26.5	596,975	8,560	0.0143	0.9857	82.57
27.5	489,934	127	0.0003	0.9997	81.39
28.5	375,818	1,046	0.0028	0.9972	81.36
29.5	305,222	2,119	0.0069	0.9931	81.14
30.5	274,615	5,083	0.0185	0.9815	80.57
31.5	84,881	372	0.0044	0.9956	79.08
32.5	69,037	99	0.0014	0.9986	78.74
33.5	46,678		0.0000	1.0000	78.62
34.5	4,288		0.0000	1.0000	78.62
35.5	4,288		0.0000	1.0000	78.62
36.5	4,058		0.0000	1.0000	78.62
37.5					78.62

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1963-1999 EXPERIENCE BAND 1967-2011

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	362,351		0.0000	1.0000	100.00
0.5	365,415	5,205	0.0142	0.9858	100.00
1.5	364,074	5,705	0.0157	0.9843	98.58
2.5	368,538	90	0.0002	0.9998	97.03
3.5	368,660	1,359	0.0037	0.9963	97.01
4.5	367,301	9,199	0.0250	0.9750	96.65
5.5	358,102	3,074	0.0086	0.9914	94.23
6.5	355,028	7,104	0.0200	0.9800	93.42
7.5	347,924	11,746	0.0338	0.9662	91.55
8.5	336,178	11,318	0.0337	0.9663	88.46
9.5	324,860	6,348	0.0195	0.9805	85.48
10.5	318,512	5,466	0.0172	0.9828	83.81
11.5	313,046		0.0000	1.0000	82.37
12.5	312,597		0.0000	1.0000	82.37
13.5	312,597		0.0000	1.0000	82.37
14.5	296,725	5,706	0.0192	0.9808	82.37
15.5	291,019	5,978	0.0205	0.9795	80.79
16.5	285,041	55	0.0002	0.9998	79.13
17.5	284,986		0.0000	1.0000	79.11
18.5	284,834		0.0000	1.0000	79.11
19.5	274,249	374	0.0014	0.9986	79.11
20.5	271,312	10,247	0.0378	0.9622	79.01
21.5	257,736	5,540	0.0215	0.9785	76.02
22.5	244,805		0.0000	1.0000	74.39
23.5	231,309		0.0000	1.0000	74.39
24.5	217,097	407	0.0019	0.9981	74.39
25.5	184,777		0.0000	1.0000	74.25
26.5	174,248		0.0000	1.0000	74.25
27.5	155,180		0.0000	1.0000	74.25
28.5	144,345		0.0000	1.0000	74.25
29.5	135,210		0.0000	1.0000	74.25
30.5	118,173		0.0000	1.0000	74.25
31.5	99,203		0.0000	1.0000	74.25
32.5	69,882		0.0000	1.0000	74.25
33.5	53,809		0.0000	1.0000	74.25
34.5	43,269		0.0000	1.0000	74.25
35.5	28,416		0.0000	1.0000	74.25
36.5	23,662		0.0000	1.0000	74.25
37.5	3,987		0.0000	1.0000	74.25
38.5	2,516		0.0000	1.0000	74.25

YUKON ELECTRICAL COMPANY LIMITED

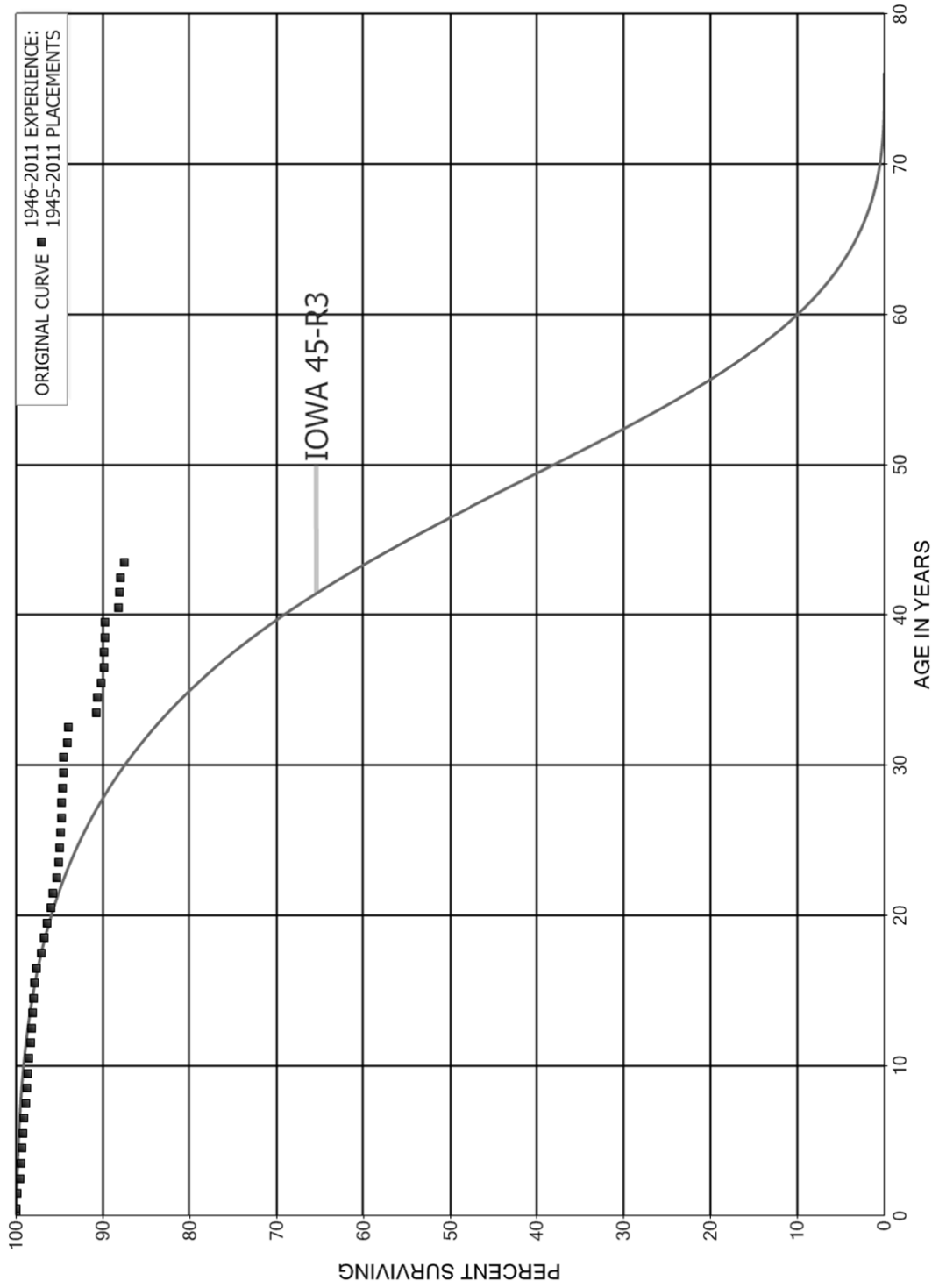
ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1963-1999 EXPERIENCE BAND 1967-2011

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	2,516		0.0000	1.0000	74.25
40.5	2,516		0.0000	1.0000	74.25
41.5	2,516		0.0000	1.0000	74.25
42.5	2,516		0.0000	1.0000	74.25
43.5	2,516		0.0000	1.0000	74.25
44.5					74.25

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1946-2011

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	25,052,873	16,453	0.0007	0.9993	100.00
0.5	23,310,374	34,729	0.0015	0.9985	99.93
1.5	21,775,170	67,595	0.0031	0.9969	99.79
2.5	20,041,568	15,739	0.0008	0.9992	99.48
3.5	18,076,610	19,387	0.0011	0.9989	99.40
4.5	16,475,987	14,546	0.0009	0.9991	99.29
5.5	14,937,417	26,617	0.0018	0.9982	99.20
6.5	13,545,746	23,773	0.0018	0.9982	99.03
7.5	12,786,466	11,421	0.0009	0.9991	98.85
8.5	12,036,297	23,092	0.0019	0.9981	98.76
9.5	11,477,631	14,118	0.0012	0.9988	98.57
10.5	10,892,446	21,867	0.0020	0.9980	98.45
11.5	10,282,359	8,650	0.0008	0.9992	98.26
12.5	9,904,990	9,475	0.0010	0.9990	98.17
13.5	9,400,530	13,990	0.0015	0.9985	98.08
14.5	8,902,665	9,311	0.0010	0.9990	97.93
15.5	8,237,401	15,739	0.0019	0.9981	97.83
16.5	7,751,251	48,338	0.0062	0.9938	97.64
17.5	7,198,786	21,003	0.0029	0.9971	97.04
18.5	6,236,497	25,561	0.0041	0.9959	96.75
19.5	5,439,976	25,680	0.0047	0.9953	96.36
20.5	4,647,183	9,685	0.0021	0.9979	95.90
21.5	3,911,785	17,405	0.0044	0.9956	95.70
22.5	3,409,109	8,040	0.0024	0.9976	95.28
23.5	3,094,937	1,707	0.0006	0.9994	95.05
24.5	2,587,632	3,208	0.0012	0.9988	95.00
25.5	2,379,299	3,409	0.0014	0.9986	94.88
26.5	2,173,363	1,677	0.0008	0.9992	94.74
27.5	2,114,074	1,207	0.0006	0.9994	94.67
28.5	2,046,944	1,286	0.0006	0.9994	94.62
29.5	1,920,486	411	0.0002	0.9998	94.56
30.5	1,734,730	8,812	0.0051	0.9949	94.54
31.5	1,534,477	1,629	0.0011	0.9989	94.06
32.5	1,341,755	46,399	0.0346	0.9654	93.96
33.5	1,153,538	1,809	0.0016	0.9984	90.71
34.5	1,058,214	4,176	0.0039	0.9961	90.57
35.5	983,371	4,029	0.0041	0.9959	90.21
36.5	874,089	561	0.0006	0.9994	89.84
37.5	804,289	844	0.0010	0.9990	89.78
38.5	736,151	35	0.0000	1.0000	89.69

YUKON ELECTRICAL COMPANY LIMITED

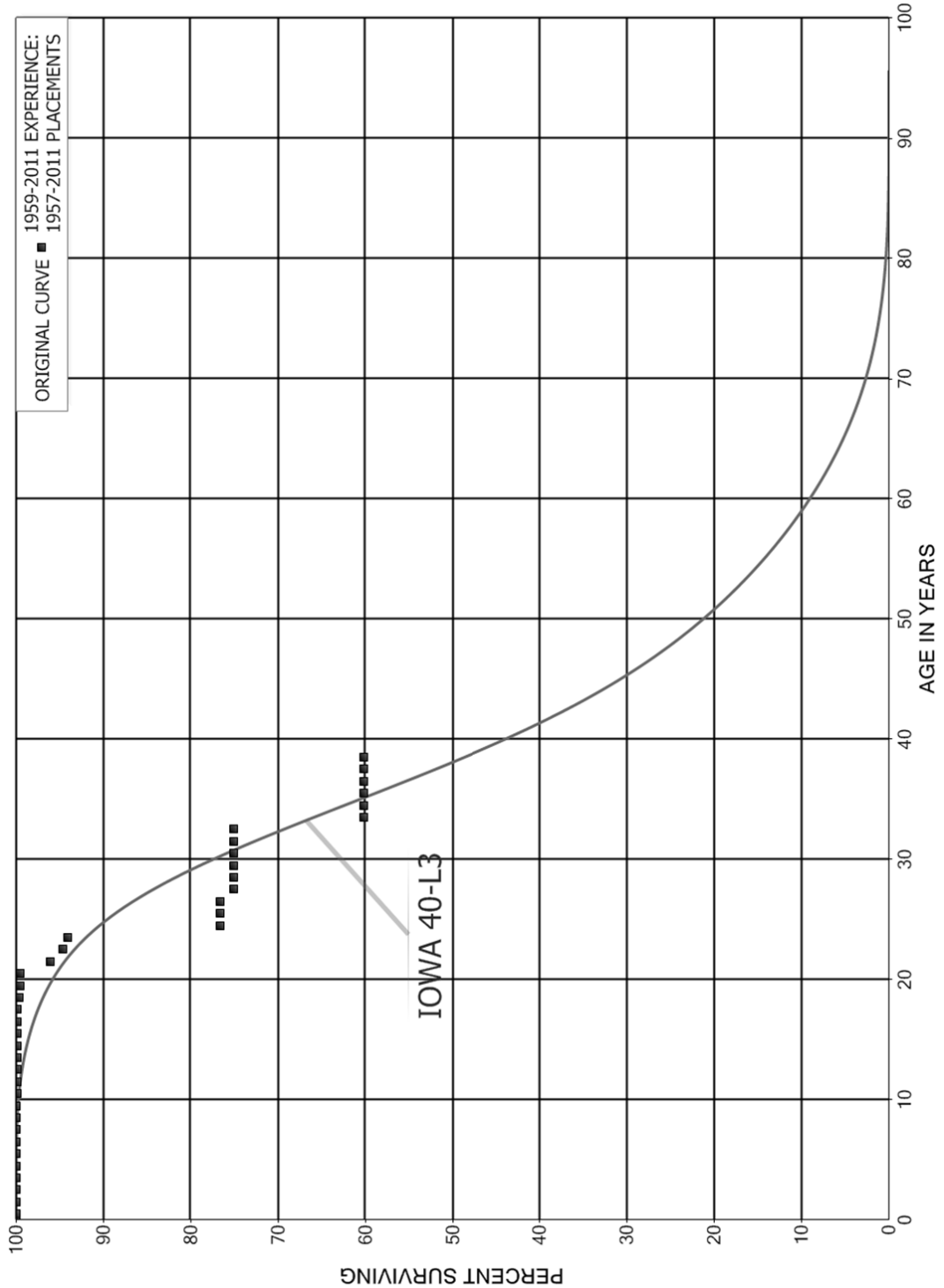
ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1945-2011 EXPERIENCE BAND 1946-2011

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	658,012	11,272	0.0171	0.9829	89.68
40.5	578,763	853	0.0015	0.9985	88.15
41.5	530,268	529	0.0010	0.9990	88.02
42.5	491,894	2,113	0.0043	0.9957	87.93
43.5	311,251	240	0.0008	0.9992	87.55
44.5	248,541	2,381	0.0096	0.9904	87.48
45.5	209,571		0.0000	1.0000	86.65
46.5	195,844		0.0000	1.0000	86.65
47.5	188,849		0.0000	1.0000	86.65
48.5	164,319	192	0.0012	0.9988	86.65
49.5	154,691	1,150	0.0074	0.9926	86.54
50.5	142,719		0.0000	1.0000	85.90
51.5	105,661		0.0000	1.0000	85.90
52.5	86,935		0.0000	1.0000	85.90
53.5	84,680	9,005	0.1063	0.8937	85.90
54.5	75,675	1,552	0.0205	0.9795	76.77
55.5	70,394		0.0000	1.0000	75.19
56.5	49,068	1,343	0.0274	0.9726	75.19
57.5	42,271		0.0000	1.0000	73.13
58.5	39,513		0.0000	1.0000	73.13
59.5	18,613		0.0000	1.0000	73.13
60.5	3,115		0.0000	1.0000	73.13
61.5	3,086		0.0000	1.0000	73.13
62.5	3,086		0.0000	1.0000	73.13
63.5	1,469		0.0000	1.0000	73.13
64.5	226		0.0000	1.0000	73.13
65.5					73.13

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 482.00 - STRUCTURES AND IMPROVEMENTS - GENERAL PLANT
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

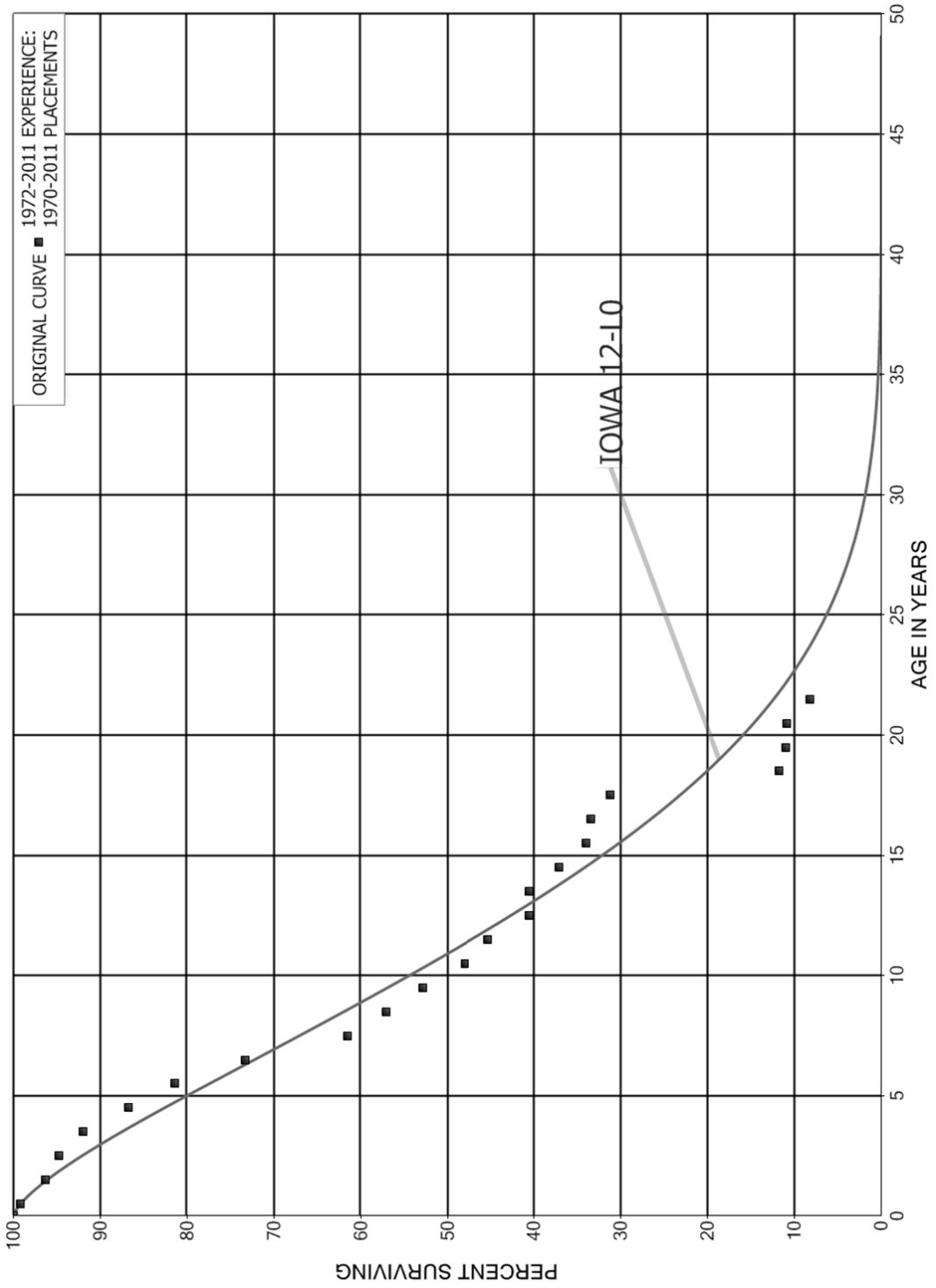
ACCOUNT 482.00 - STRUCTURES AND IMPROVEMENTS - GENERAL PLANT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1957-2011 EXPERIENCE BAND 1959-2011

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	3,973,674		0.0000	1.0000	100.00
0.5	3,611,105		0.0000	1.0000	100.00
1.5	3,537,756		0.0000	1.0000	100.00
2.5	3,463,198		0.0000	1.0000	100.00
3.5	3,387,166		0.0000	1.0000	100.00
4.5	3,374,629		0.0000	1.0000	100.00
5.5	3,290,987		0.0000	1.0000	100.00
6.5	3,287,697		0.0000	1.0000	100.00
7.5	3,239,027		0.0000	1.0000	100.00
8.5	3,192,142	3,305	0.0010	0.9990	100.00
9.5	3,163,395	258	0.0001	0.9999	99.90
10.5	3,115,633		0.0000	1.0000	99.89
11.5	3,064,702		0.0000	1.0000	99.89
12.5	3,055,682		0.0000	1.0000	99.89
13.5	2,972,107	1,089	0.0004	0.9996	99.89
14.5	2,915,288		0.0000	1.0000	99.85
15.5	2,889,512		0.0000	1.0000	99.85
16.5	2,855,910	1,586	0.0006	0.9994	99.85
17.5	2,795,475	4,237	0.0015	0.9985	99.80
18.5	2,673,649	2,788	0.0010	0.9990	99.65
19.5	2,369,876	2,019	0.0009	0.9991	99.54
20.5	943,424	31,722	0.0336	0.9664	99.46
21.5	866,449	13,273	0.0153	0.9847	96.11
22.5	849,676	5,188	0.0061	0.9939	94.64
23.5	756,631	140,247	0.1854	0.8146	94.06
24.5	237,188		0.0000	1.0000	76.63
25.5	234,410		0.0000	1.0000	76.63
26.5	234,410	4,613	0.0197	0.9803	76.63
27.5	205,512		0.0000	1.0000	75.12
28.5	205,512		0.0000	1.0000	75.12
29.5	183,806	230	0.0013	0.9987	75.12
30.5	171,114		0.0000	1.0000	75.02
31.5	171,114		0.0000	1.0000	75.02
32.5	156,307	30,940	0.1979	0.8021	75.02
33.5	125,367		0.0000	1.0000	60.17
34.5	124,352		0.0000	1.0000	60.17
35.5	122,852		0.0000	1.0000	60.17
36.5	122,852		0.0000	1.0000	60.17
37.5	76,117		0.0000	1.0000	60.17
38.5	59,482		0.0000	1.0000	60.17
39.5					60.17

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 484.00 - TRANSPORTATION AND MOBILE EQUIPMENT - GENERAL PLANT
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

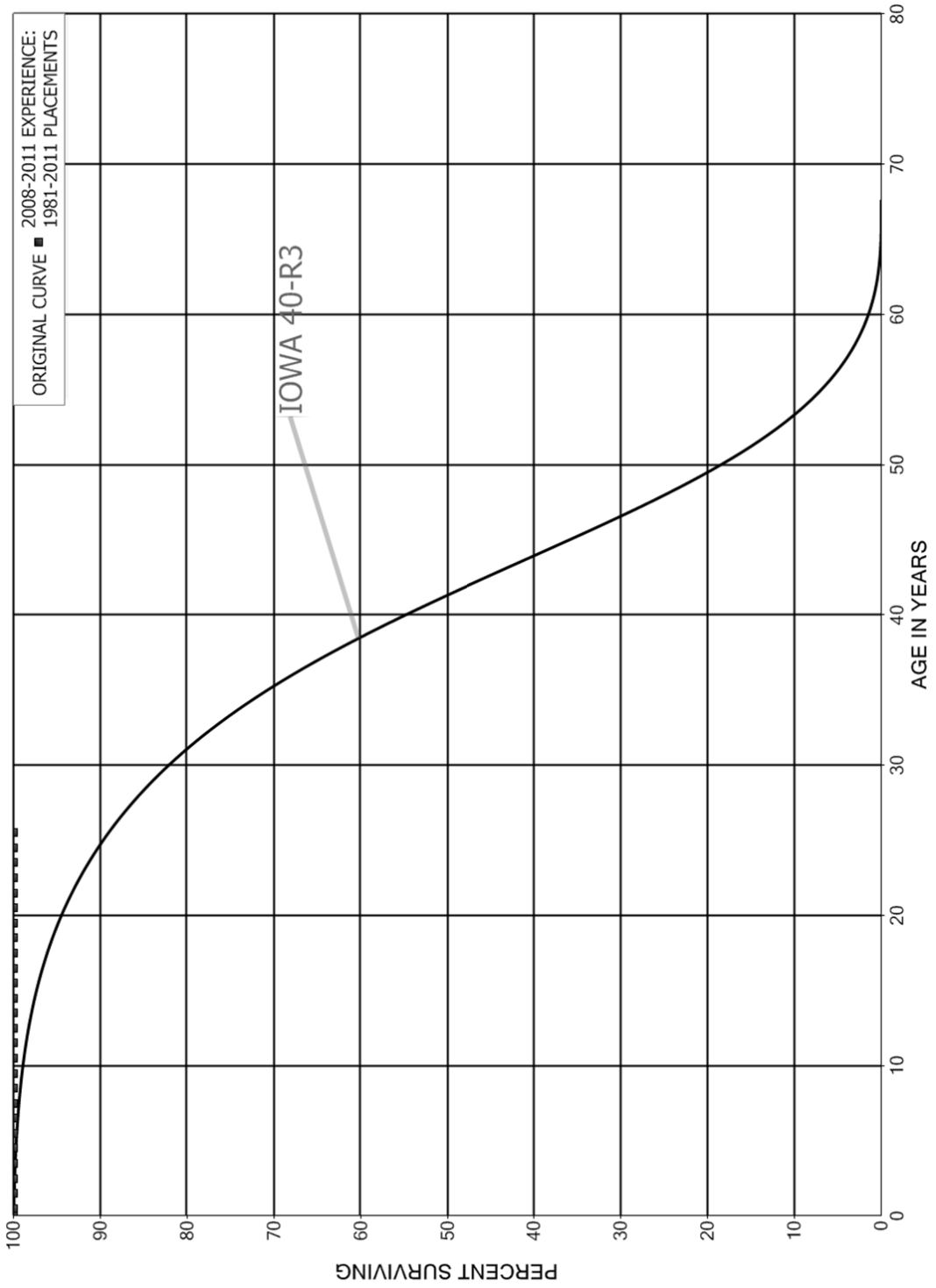
ACCOUNT 484.00 - TRANSPORTATION AND MOBILE EQUIPMENT - GENERAL PLANT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1970-2011 EXPERIENCE BAND 1972-2011

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	5,388,479	42,131	0.0078	0.9922	100.00
0.5	5,311,284	155,541	0.0293	0.9707	99.22
1.5	4,827,974	80,084	0.0166	0.9834	96.31
2.5	4,581,928	134,616	0.0294	0.9706	94.71
3.5	4,310,171	242,029	0.0562	0.9438	91.93
4.5	3,597,806	224,862	0.0625	0.9375	86.77
5.5	3,221,928	317,954	0.0987	0.9013	81.35
6.5	2,737,215	441,181	0.1612	0.8388	73.32
7.5	2,281,417	164,088	0.0719	0.9281	61.50
8.5	2,108,406	157,808	0.0748	0.9252	57.08
9.5	1,755,255	159,474	0.0909	0.9091	52.81
10.5	1,351,759	76,694	0.0567	0.9433	48.01
11.5	1,266,386	132,857	0.1049	0.8951	45.28
12.5	1,010,909		0.0000	1.0000	40.53
13.5	997,802	85,417	0.0856	0.9144	40.53
14.5	845,952	71,993	0.0851	0.9149	37.06
15.5	600,438	8,414	0.0140	0.9860	33.91
16.5	576,563	38,586	0.0669	0.9331	33.43
17.5	381,159	238,328	0.6253	0.3747	31.20
18.5	110,042	6,533	0.0594	0.9406	11.69
19.5	103,509	1,304	0.0126	0.9874	11.00
20.5	89,984	22,475	0.2498	0.7502	10.86
21.5	67,451	17,728	0.2628	0.7372	8.15
22.5	15,332	1,000	0.0652	0.9348	6.00
23.5	9,464		0.0000	1.0000	5.61
24.5	9,464		0.0000	1.0000	5.61
25.5	6,079		0.0000	1.0000	5.61
26.5	6,079		0.0000	1.0000	5.61
27.5	5,605		0.0000	1.0000	5.61
28.5	5,605		0.0000	1.0000	5.61
29.5	5,605		0.0000	1.0000	5.61
30.5	5,605		0.0000	1.0000	5.61
31.5	5,605		0.0000	1.0000	5.61
32.5	5,605	5,605	1.0000		5.61
33.5					

YUKON ELECTRICAL COMPANY LIMITED
ACCOUNT 488.20 - HOUSES - GENERAL PLANT
ORIGINAL AND SMOOTH SURVIVOR CURVES



YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 488.20 - HOUSES - GENERAL PLANT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1981-2011 EXPERIENCE BAND 2008-2011

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	66,147		0.0000	1.0000	100.00
0.5	116,981		0.0000	1.0000	100.00
1.5	160,220		0.0000	1.0000	100.00
2.5	179,807		0.0000	1.0000	100.00
3.5	122,918		0.0000	1.0000	100.00
4.5	75,685		0.0000	1.0000	100.00
5.5	25,100		0.0000	1.0000	100.00
6.5	3,969		0.0000	1.0000	100.00
7.5	12,663		0.0000	1.0000	100.00
8.5	55,508		0.0000	1.0000	100.00
9.5	55,508		0.0000	1.0000	100.00
10.5	72,899		0.0000	1.0000	100.00
11.5	76,945		0.0000	1.0000	100.00
12.5	32,002		0.0000	1.0000	100.00
13.5	163,356		0.0000	1.0000	100.00
14.5	155,596		0.0000	1.0000	100.00
15.5	142,856		0.0000	1.0000	100.00
16.5	140,986		0.0000	1.0000	100.00
17.5	9,631		0.0000	1.0000	100.00
18.5	2,150		0.0000	1.0000	100.00
19.5	30,029		0.0000	1.0000	100.00
20.5	30,029		0.0000	1.0000	100.00
21.5	42,951		0.0000	1.0000	100.00
22.5	40,801		0.0000	1.0000	100.00
23.5	12,922		0.0000	1.0000	100.00
24.5	16,250		0.0000	1.0000	100.00
25.5	3,328		0.0000	1.0000	100.00
26.5	8,776		0.0000	1.0000	100.00
27.5	8,776		0.0000	1.0000	100.00
28.5	5,448		0.0000	1.0000	100.00
29.5	5,448		0.0000	1.0000	100.00
30.5					100.00

PART V. NET SALVAGE STATISTICS

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1986	6		0		0		0
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003	10,000		0		0		0
2004	2,028		0		0		0
2005							
2006							
2007							
2008							
2009							
2010		5,300				5,300-	
2011	170		0		0		0
TOTAL	12,204	5,300	43		0	5,300-	43-
THREE-YEAR MOVING AVERAGES							
86-88	2		0		0		0
87-89							
88-90							
89-91							
90-92							
91-93							
92-94							
93-95							
94-96							
95-97							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
96-98							
97-99							
98-00							
99-01							
00-02							
01-03	3,333		0		0		0
02-04	4,009		0		0		0
03-05	4,009		0		0		0
04-06	676		0		0		0
05-07							
06-08							
07-09							
08-10		1,767				1,767-	
09-11	57	1,767			0	1,767-	
FIVE-YEAR AVERAGE							
07-11	34	1,060			0	1,060-	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	2		0		0		0
1984							
1985							
1986							
1987	3,626		0		0		0
1988	1,203		0		0		0
1989							
1990							
1991							
1992	302		0		0		0
1993							
1994							
1995							
1996							
1997	120		0		0		0
1998	10,000	18,319	183		0	18,319-	183-
1999							
2000							
2001							
2002							
2003	10,000		0		0		0
2004	9,322		0		0		0
2005							
2006							
2007	3,200		0		0		0
2008							
2009							
2010							
2011	23,752		0		0		0
TOTAL	61,527	18,319	30		0	18,319-	30-
THREE-YEAR MOVING AVERAGES							
83-85	1		0		0		0
84-86							
85-87	1,209		0		0		0
86-88	1,610		0		0		0
87-89	1,610		0		0		0
88-90	401		0		0		0
89-91							
90-92	101		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	COST OF REMOVAL PCT	GROSS SALVAGE AMOUNT	GROSS SALVAGE PCT	NET SALVAGE AMOUNT	NET SALVAGE PCT
THREE-YEAR MOVING AVERAGES							
91-93	101		0		0		0
92-94	101		0		0		0
93-95							
94-96							
95-97	40		0		0		0
96-98	3,373	6,106	181		0	6,106-	181-
97-99	3,373	6,106	181		0	6,106-	181-
98-00	3,333	6,106	183		0	6,106-	183-
99-01							
00-02							
01-03	3,333		0		0		0
02-04	6,441		0		0		0
03-05	6,441		0		0		0
04-06	3,107		0		0		0
05-07	1,067		0		0		0
06-08	1,067		0		0		0
07-09	1,067		0		0		0
08-10							
09-11	7,917		0		0		0
FIVE-YEAR AVERAGE							
07-11	5,390		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	10,551		0	129	1	129	1
1984	25,040		0		0		0
1985	116,422		0	73,537	63	73,537	63
1986	38,264		0		0		0
1987	8,299		0	2,000	24	2,000	24
1988	16,483		0	1,500	9	1,500	9
1989	111,612		0		0		0
1990	22,062		0		0		0
1991	171,400		0	18,663	11	18,663	11
1992	2,560		0	1,010	39	1,010	39
1993	2,200		0	2,200	100	2,200	100
1994							
1995							
1996							
1997	93,041	28,503	31	10,449	11	18,054-	19-
1998	52,500	33,360	64	1,000	2	32,360-	62-
1999	325,787	15,390	5		0	15,390-	5-
2000							
2001							
2002							
2003							
2004	47,038		0		0		0
2005							
2006							
2007							
2008							
2009							
2010							
2011	2,043,336	1,800	0		0	1,800-	0
TOTAL	3,086,595	79,053	3	110,488	4	31,435	1
THREE-YEAR MOVING AVERAGES							
83-85	50,671		0	24,555	48	24,555	48
84-86	59,909		0	24,512	41	24,512	41
85-87	54,328		0	25,179	46	25,179	46
86-88	21,015		0	1,167	6	1,167	6
87-89	45,465		0	1,167	3	1,167	3
88-90	50,052		0	500	1	500	1
89-91	101,691		0	6,221	6	6,221	6
90-92	65,341		0	6,558	10	6,558	10

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	58,720		0	7,291	12	7,291	12
92-94	1,587		0	1,070	67	1,070	67
93-95	733		0	733	100	733	100
94-96							
95-97	31,014	9,501	31	3,483	11	6,018-	19-
96-98	48,514	20,621	43	3,816	8	16,805-	35-
97-99	157,109	25,751	16	3,816	2	21,935-	14-
98-00	126,096	16,250	13	333	0	15,917-	13-
99-01	108,596	5,130	5		0	5,130-	5-
00-02							
01-03							
02-04	15,679		0		0		0
03-05	15,679		0		0		0
04-06	15,679		0		0		0
05-07							
06-08							
07-09							
08-10							
09-11	681,112	600	0		0	600-	0
FIVE-YEAR AVERAGE							
07-11	408,667	360	0		0	360-	0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1985	72		0		0		0
1986							
1987							
1988							
1989	12,995		0		0		0
1990	2,846		0		0		0
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001	15,000		0		0		0
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010							
2011	188,181		0		0		0
TOTAL	219,094		0		0		0
THREE-YEAR MOVING AVERAGES							
85-87	24		0		0		0
86-88							
87-89	4,332		0		0		0
88-90	5,280		0		0		0
89-91	5,280		0		0		0
90-92	949		0		0		0
91-93							
92-94							
93-95							
94-96							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
95-97							
96-98							
97-99							
98-00							
99-01	5,000		0		0		0
00-02	5,000		0		0		0
01-03	5,000		0		0		0
02-04							
03-05							
04-06							
05-07							
06-08							
07-09							
08-10							
09-11	62,727		0		0		0
FIVE-YEAR AVERAGE							
07-11	37,636		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1985	64		0		0		0
1986							
1987							
1988							
1989							
1990							
1991							
1992	1,327		0		0		0
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010							
2011	14,213		0		0		0
TOTAL	15,604		0		0		0
THREE-YEAR MOVING AVERAGES							
85-87	21		0		0		0
86-88							
87-89							
88-90							
89-91							
90-92	442		0		0		0
91-93	442		0		0		0
92-94	442		0		0		0
93-95							
94-96							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
95-97							
96-98							
97-99							
98-00							
99-01							
00-02							
01-03							
02-04							
03-05							
04-06							
05-07							
06-08							
07-09							
08-10							
09-11	4,738	0		0		0	
FIVE-YEAR AVERAGE							
07-11	2,843	0		0		0	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 457.00 - SUBSTATION EQUIPMENT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	2,888		0		0		0
1984	197		0		0		0
1985							
1986							
1987							
1988	33		0		0		0
1989							
1990							
1991							
1992							
1993							
1994	4,796		0		0		0
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008	7,356		0		0		0
2009	10,164		0		0		0
2010							
2011							
TOTAL	25,434		0		0		0
THREE-YEAR MOVING AVERAGES							
83-85	1,028		0		0		0
84-86	66		0		0		0
85-87							
86-88	11		0		0		0
87-89	11		0		0		0
88-90	11		0		0		0
89-91							
90-92							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 457.00 - SUBSTATION EQUIPMENT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93							
92-94	1,599	0		0		0	
93-95	1,599	0		0		0	
94-96	1,599	0		0		0	
95-97							
96-98							
97-99							
98-00							
99-01							
00-02							
01-03							
02-04							
03-05							
04-06							
05-07							
06-08	2,452	0		0		0	
07-09	5,840	0		0		0	
08-10	5,840	0		0		0	
09-11	3,388	0		0		0	
FIVE-YEAR AVERAGE							
07-11	3,504	0		0		0	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	20,711	5,124	25		0	5,124-	25-
1984	7,236	420	6		0	420-	6-
1985	1,877	1,316	70		0	1,316-	70-
1986	22,910	3,807	17		0	3,807-	17-
1987	23,502	7,352	31		0	7,352-	31-
1988	40,922	9,880	24		0	9,880-	24-
1989	45,150	15,886	35		0	15,886-	35-
1990	18,256	15,088	83		0	15,088-	83-
1991	9,785	46,744	478		0	46,744-	478-
1992	25,423	29,690	117		0	29,690-	117-
1993	8,882	5,186	58		0	5,186-	58-
1994	6,278	2,381	38		0	2,381-	38-
1995	26,696	33,075	124		0	33,075-	124-
1996	47,596	21,610	45		0	21,610-	45-
1997	77,714	74,426	96		0	74,426-	96-
1998	41,059	52,607	128		0	52,607-	128-
1999	60,317	43,513	72		0	43,513-	72-
2000	85,489	113,379	133		0	113,379-	133-
2001	53,805	143,160	266		0	143,160-	266-
2002	38,328	26,830	70		0	26,830-	70-
2003	102,578	86,536	84		0	86,536-	84-
2004	15,636	11,410	73		0	11,410-	73-
2005	72,802	32,567	45		0	32,567-	45-
2006	65,718	113,990	173		0	113,990-	173-
2007	11,321	27,121	240		0	27,121-	240-
2008	89,967	12,500	14		0	12,500-	14-
2009	57,349	21,618	38		0	21,618-	38-
2010	124,362	109,892	88		0	109,892-	88-
2011	11,824	56,938	482		0	56,938-	482-
TOTAL	1,213,493	1,124,046	93		0	1,124,046-	93-
THREE-YEAR MOVING AVERAGES							
83-85	9,941	2,287	23		0	2,287-	23-
84-86	10,674	1,848	17		0	1,848-	17-
85-87	16,096	4,158	26		0	4,158-	26-
86-88	29,111	7,013	24		0	7,013-	24-
87-89	36,525	11,039	30		0	11,039-	30-
88-90	34,776	13,618	39		0	13,618-	39-
89-91	24,397	25,906	106		0	25,906-	106-
90-92	17,821	30,507	171		0	30,507-	171-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	14,697	27,207	185		0	27,207-	185-
92-94	13,528	12,419	92		0	12,419-	92-
93-95	13,952	13,547	97		0	13,547-	97-
94-96	26,857	19,022	71		0	19,022-	71-
95-97	50,669	43,037	85		0	43,037-	85-
96-98	55,456	49,548	89		0	49,548-	89-
97-99	59,697	56,849	95		0	56,849-	95-
98-00	62,288	69,833	112		0	69,833-	112-
99-01	66,537	100,017	150		0	100,017-	150-
00-02	59,207	94,456	160		0	94,456-	160-
01-03	64,904	85,509	132		0	85,509-	132-
02-04	52,181	41,592	80		0	41,592-	80-
03-05	63,672	43,504	68		0	43,504-	68-
04-06	51,385	52,656	102		0	52,656-	102-
05-07	49,947	57,893	116		0	57,893-	116-
06-08	55,669	51,204	92		0	51,204-	92-
07-09	52,879	20,413	39		0	20,413-	39-
08-10	90,559	48,003	53		0	48,003-	53-
09-11	64,512	62,816	97		0	62,816-	97-
FIVE-YEAR AVERAGE							
07-11	58,965	45,614	77		0	45,614-	77-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	4,695	5,047	107		0	5,047-	107-
1984	3,222	181	6		0	181-	6-
1985	1,735	1,242	72		0	1,242-	72-
1986	5,966	4,180	70		0	4,180-	70-
1987	6,180	17,556	284		0	17,556-	284-
1988	8,891	5,511	62		0	5,511-	62-
1989	18,522	12,800	69		0	12,800-	69-
1990	15,824	8,228	52		0	8,228-	52-
1991	3,620	21,364	590		0	21,364-	590-
1992	6,046	11,136	184		0	11,136-	184-
1993	5,173	5,309	103		0	5,309-	103-
1994	1,515	1,316	87		0	1,316-	87-
1995	5,600	4,644	83		0	4,644-	83-
1996	8,691	4,811	55		0	4,811-	55-
1997	19,144	24,656	129		0	24,656-	129-
1998	8,386	16,419	196		0	16,419-	196-
1999	12,271	6,801	55		0	6,801-	55-
2000	14,527	12,330	85		0	12,330-	85-
2001	9,337	14,459	155		0	14,459-	155-
2002	8,187	4,938	60		0	4,938-	60-
2003	59,749	55,901	94		0	55,901-	94-
2004	4,049	2,435	60		0	2,435-	60-
2005	2,976	12,992	437		0	12,992-	437-
2006	974	40,889			0	40,889-	
2007	132	10,846			0	10,846-	
2008	37,893	18,603	49		0	18,603-	49-
2009	388	8,000			0	8,000-	
2010	18,541	8,400	45		0	8,400-	45-
2011	2,687	11,351	422		0	11,351-	422-
TOTAL	294,921	352,345	119		0	352,345-	119-
THREE-YEAR MOVING AVERAGES							
83-85	3,217	2,157	67		0	2,157-	67-
84-86	3,641	1,868	51		0	1,868-	51-
85-87	4,627	7,659	166		0	7,659-	166-
86-88	7,012	9,082	130		0	9,082-	130-
87-89	11,198	11,956	107		0	11,956-	107-
88-90	14,412	8,846	61		0	8,846-	61-
89-91	12,655	14,131	112		0	14,131-	112-
90-92	8,497	13,576	160		0	13,576-	160-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	4,946	12,603	255		0	12,603-	255-
92-94	4,245	5,920	139		0	5,920-	139-
93-95	4,096	3,756	92		0	3,756-	92-
94-96	5,269	3,590	68		0	3,590-	68-
95-97	11,145	11,370	102		0	11,370-	102-
96-98	12,074	15,295	127		0	15,295-	127-
97-99	13,267	15,959	120		0	15,959-	120-
98-00	11,728	11,850	101		0	11,850-	101-
99-01	12,045	11,197	93		0	11,197-	93-
00-02	10,684	10,576	99		0	10,576-	99-
01-03	25,758	25,099	97		0	25,099-	97-
02-04	23,995	21,091	88		0	21,091-	88-
03-05	22,258	23,776	107		0	23,776-	107-
04-06	2,666	18,772	704		0	18,772-	704-
05-07	1,361	21,576			0	21,576-	
06-08	13,000	23,446	180		0	23,446-	180-
07-09	12,804	12,483	97		0	12,483-	97-
08-10	18,941	11,668	62		0	11,668-	62-
09-11	7,205	9,250	128		0	9,250-	128-
FIVE-YEAR AVERAGE							
07-11	11,928	11,440	96		0	11,440-	96-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	339		0		0		0
1984	130		0		0		0
1985	130		0		0		0
1986	286		0		0		0
1987							
1988							
1989							
1990							
1991	32		0		0		0
1992							
1993							
1994							
1995							
1996		1,062				1,062-	
1997							
1998							
1999							
2000							
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008	16		0	27	169	27	169
2009				81		81	
2010	44,294		0	26	0	26	0
2011	20,219		0		0		0
TOTAL	65,446	1,062	2	134	0	928-	1-
THREE-YEAR MOVING AVERAGES							
83-85	200		0		0		0
84-86	182		0		0		0
85-87	139		0		0		0
86-88	95		0		0		0
87-89							
88-90							
89-91	11		0		0		0
90-92	11		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	COST OF REMOVAL PCT	GROSS SALVAGE AMOUNT	GROSS SALVAGE PCT	NET SALVAGE AMOUNT	NET SALVAGE PCT
THREE-YEAR MOVING AVERAGES							
91-93	11		0		0		0
92-94							
93-95							
94-96		354				354-	
95-97		354				354-	
96-98		354				354-	
97-99							
98-00							
99-01							
00-02							
01-03							
02-04							
03-05							
04-06							
05-07							
06-08	5		0	9	169	9	169
07-09	5		0	36	675	36	675
08-10	14,770		0	45	0	45	0
09-11	21,504		0	36	0	36	0
FIVE-YEAR AVERAGE							
07-11	12,906		0	27	0	27	0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1985	193	20	10		0	20-	10-
1986							
1987							
1988	5		0		0		0
1989	9	2	22		0	2-	22-
1990	11		0		0		0
1991	13		0		0		0
1992	483		0		0		0
1993	64		0		0		0
1994	81		0		0		0
1995	908	1,125	124		0	1,125-	124-
1996	252	114	45		0	114-	45-
1997	621	464	75		0	464-	75-
1998	52	33,870			0	33,870-	
1999	2,708	2,159	80		0	2,159-	80-
2000	1,455	1,680	115		0	1,680-	115-
2001	428	317	74		0	317-	74-
2002	328	2,981	909		0	2,981-	909-
2003	525	62,881			0	62,881-	
2004	2,120	23	1		0	23-	1-
2005							
2006	967		0		0		0
2007							
2008		5,211				5,211-	
2009		6,174				6,174-	
2010	1,862	7,500	403		0	7,500-	403-
2011	703	687	98		0	687-	98-
TOTAL	13,788	125,208	908		0	125,208-	908-
THREE-YEAR MOVING AVERAGES							
85-87	64	7	10		0	7-	10-
86-88	2		0		0		0
87-89	5	1	14		0	1-	14-
88-90	8	1	8		0	1-	8-
89-91	11	1	6		0	1-	6-
90-92	169		0		0		0
91-93	187		0		0		0
92-94	209		0		0		0
93-95	351	375	107		0	375-	107-
94-96	414	413	100		0	413-	100-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
95-97	594	568	96		0	568-	96-
96-98	308	11,483			0	11,483-	
97-99	1,127	12,164			0	12,164-	
98-00	1,405	12,570	895		0	12,570-	895-
99-01	1,530	1,385	91		0	1,385-	91-
00-02	737	1,659	225		0	1,659-	225-
01-03	427	22,060			0	22,060-	
02-04	991	21,962			0	21,962-	
03-05	882	20,968			0	20,968-	
04-06	1,029	8	1		0	8-	1-
05-07	322		0		0		0
06-08	322	1,737	539		0	1,737-	539-
07-09		3,795				3,795-	
08-10	621	6,295			0	6,295-	
09-11	855	4,787	560		0	4,787-	560-
FIVE-YEAR AVERAGE							
07-11	513	3,914	763		0	3,914-	763-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.10 - UNDERGROUND SERVICES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	COST OF REMOVAL PCT	GROSS SALVAGE AMOUNT	GROSS SALVAGE PCT	NET SALVAGE AMOUNT	NET SALVAGE PCT
1991	1		0		0		0
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010	30,641		0		0		0
2011	11,415		0		0		0
TOTAL	42,057		0		0		0
THREE-YEAR MOVING AVERAGES							
91-93			0		0		0
92-94							
93-95							
94-96							
95-97							
96-98							
97-99							
98-00							
99-01							
00-02							
01-03							
02-04							
03-05							
04-06							
05-07							
06-08							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.10 - UNDERGROUND SERVICES - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
07-09							
08-10	10,214	0		0		0	
09-11	14,019	0		0		0	
FIVE-YEAR AVERAGE							
07-11	8,411	0		0		0	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.10 - METERS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	732		0	507	69	507	69
1984	2,229		0	124	6	124	6
1985			0		0		0
1986	4,325		0		0		0
1987	4,267		0	194	5	194	5
1988	2,624	474	18	565	22	91	3
1989	4,532	671	15	657	14	14-	0
1990	3,817	525	14	326	9	199-	5-
1991	8,977		0	191	2	191	2
1992	7,848	510	6	274	3	236-	3-
1993	11,666		0	193	2	193	2
1994	10,987		0	66	1	66	1
1995	24,254		0		0		0
1996	29,951	300	1	180	1	120-	0
1997	38,738		0	456	1	456	1
1998	22,348	1,273	6		0	1,273-	6-
1999	115,043		0	189	0	189	0
2000	200,267		0	61	0	61	0
2001	94,899		0		0		0
2002	185,973		0	56	0	56	0
2003	140,306	11,049	8	155	0	10,894-	8-
2004	106,016		0		0		0
2005	100,471		0		0		0
2006	48,626		0	50	0	50	0
2007	14,525	3,375	23	3,595	25	220	2
2008	96,496		0		0		0
2009				37		37	
2010	166,427	5,376	3	35,926	22	30,550	18
2011		789		147		642-	
TOTAL	1,446,344	24,343	2	43,949	3	19,606	1
THREE-YEAR MOVING AVERAGES							
83-85	987		0	210	21	210	21
84-86	2,185		0	41	2	41	2
85-87	2,864		0	65	2	65	2
86-88	3,739	158	4	253	7	95	3
87-89	3,808	382	10	472	12	90	2
88-90	3,658	557	15	516	14	41-	1-
89-91	5,775	399	7	391	7	7-	0
90-92	6,881	345	5	264	4	81-	1-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.10 - METERS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	9,497	170	2	219	2	49	1
92-94	10,167	170	2	178	2	8	0
93-95	15,636		0	86	1	86	1
94-96	21,731	100	0	82	0	18-	0
95-97	30,981	100	0	212	1	112	0
96-98	30,346	524	2	212	1	312-	1-
97-99	58,710	424	1	215	0	209-	0
98-00	112,553	424	0	83	0	341-	0
99-01	136,736		0	83	0	83	0
00-02	160,380		0	39	0	39	0
01-03	140,393	3,683	3	70	0	3,613-	3-
02-04	144,098	3,683	3	70	0	3,613-	3-
03-05	115,598	3,683	3	52	0	3,631-	3-
04-06	85,038		0	17	0	17	0
05-07	54,541	1,125	2	1,215	2	90	0
06-08	53,216	1,125	2	1,215	2	90	0
07-09	37,007	1,125	3	1,211	3	86	0
08-10	87,641	1,792	2	11,988	14	10,195	12
09-11	55,476	2,055	4	12,037	22	9,981	18
FIVE-YEAR AVERAGE							
07-11	55,490	1,908	3	7,941	14	6,033	11

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.30 - AMR METERS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
2007	14,525		0		0		0
2008							
2009							
2010							
2011							
TOTAL	14,525		0		0		0
THREE-YEAR MOVING AVERAGES							
07-09	4,842		0		0		0
08-10							
09-11							
FIVE-YEAR AVERAGE							
07-11	2,905		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1985	82		0	82	100	82	100
1986	1,791		0	560	31	560	31
1987	1,598		0	1,598	100	1,598	100
1988	7,226		0	312	4	312	4
1989	1,929	600	31		0	600-	31-
1990	21,481	5,700	27	8,124	38	2,424	11
1991	2,331	1,905	82	3	0	1,902-	82-
1992							
1993							
1994							
1995				828		828	
1996							
1997	40	50	125		0	50-	125-
1998							
1999							
2000		9,528		58		9,470-	
2001							
2002							
2003							
2004		152				152-	
2005		100,489				100,489-	
2006		6,240				6,240-	
2007		7,762				7,762-	
2008		9,519				9,519-	
2009		8,547				8,547-	
2010		4,022				4,022-	
2011							
TOTAL	36,478	154,514	424	11,565	32	142,949-	392-
THREE-YEAR MOVING AVERAGES							
85-87	1,157		0	747	65	747	65
86-88	3,538		0	823	23	823	23
87-89	3,584	200	6	637	18	437	12
88-90	10,212	2,100	21	2,812	28	712	7
89-91	8,580	2,735	32	2,709	32	26-	0
90-92	7,937	2,535	32	2,709	34	174	2
91-93	777	635	82	1	0	634-	82-
92-94							
93-95				276		276	
94-96				276		276	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
95-97	13	17	125	276		259	
96-98	13	17	125		0	17-	125-
97-99	13	17	125		0	17-	125-
98-00		3,176		19		3,157-	
99-01		3,176		19		3,157-	
00-02		3,176		19		3,157-	
01-03							
02-04		51				51-	
03-05		33,547				33,547-	
04-06		35,627				35,627-	
05-07		38,164				38,164-	
06-08		7,840				7,840-	
07-09		8,609				8,609-	
08-10		7,363				7,363-	
09-11		4,190				4,190-	
FIVE-YEAR AVERAGE							
07-11		5,970				5,970-	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.10 - STREET LIGHTS AND SIGNAL SYSTEMS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	6,280		0		0		0
1984	3,205		0		0		0
1985	9,881		0		0		0
1986	13,540		0		0		0
1987	433,260		0		0		0
1988	39,203		0		0		0
1989	33,400		0		0		0
1990	4,542		0		0		0
1991	705		0		0		0
1992	3,214		0		0		0
1993	1,304		0		0		0
1994	2,495		0		0		0
1995	1,239		0	25	2	25	2
1996	3,797	866	23	804	21	62-	2-
1997	16,117	14,758	92	1,250	8	13,508-	84-
1998	5,155	8,178	159	1,341	26	6,837-	133-
1999	4,049	1,147	28	8	0	1,139-	28-
2000	7,272	3,651	50	100	1	3,551-	49-
2001	11,919	15,075	126	1,018	9	14,057-	118-
2002	127	162	128	229	180	67	53
2003	25,297	2,439	10	551	2	1,888-	7-
2004	11,383	750	7		0	750-	7-
2005	5,110	1,054	21	117	2	937-	18-
2006	5,302	7,164	135	1,156	22	6,008-	113-
2007	4,493	594	13	1,028	23	434	10
2008	963		0	960	100	960	100
2009	2,195	1,934	88	556	25	1,378-	63-
2010	7,288	13,390	184	49	1	13,341-	183-
2011	6,524	17,293	265	995	15	16,298-	250-
TOTAL	669,259	88,455	13	10,187	2	78,268-	12-
THREE-YEAR MOVING AVERAGES							
83-85	6,455		0		0		0
84-86	8,875		0		0		0
85-87	152,227		0		0		0
86-88	162,001		0		0		0
87-89	168,621		0		0		0
88-90	25,715		0		0		0
89-91	12,882		0		0		0
90-92	2,820		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.10 - STREET LIGHTS AND SIGNAL SYSTEMS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	1,741		0		0		0
92-94	2,338		0		0		0
93-95	1,679		0	8	0	8	0
94-96	2,510	289	11	276	11	12-	0
95-97	7,051	5,208	74	693	10	4,515-	64-
96-98	8,356	7,934	95	1,132	14	6,802-	81-
97-99	8,440	8,028	95	866	10	7,161-	85-
98-00	5,492	4,325	79	483	9	3,842-	70-
99-01	7,747	6,624	86	375	5	6,249-	81-
00-02	6,439	6,296	98	449	7	5,847-	91-
01-03	12,448	5,892	47	599	5	5,293-	43-
02-04	12,269	1,117	9	260	2	857-	7-
03-05	13,930	1,414	10	223	2	1,192-	9-
04-06	7,265	2,989	41	424	6	2,565-	35-
05-07	4,968	2,937	59	767	15	2,170-	44-
06-08	3,586	2,586	72	1,048	29	1,538-	43-
07-09	2,550	843	33	848	33	5	0
08-10	3,482	5,108	147	522	15	4,586-	132-
09-11	5,336	10,872	204	533	10	10,339-	194-
FIVE-YEAR AVERAGE							
07-11	4,293	6,642	155	718	17	5,925-	138-

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	9,341	1,820	19	8,405	90	6,585	70
1984	4,476	674	15	5,464	122	4,790	107
1985	2,601	101	4	2,792	107	2,691	103
1986	7,458	1,219	16	13,112	176	11,893	159
1987	3,051		0	1,950	64	1,950	64
1988	2,486	128	5	1,261	51	1,133	46
1989	565	139	25	423	75	284	50
1990							
1991							
1992	560		0	346	62	346	62
1993							
1994	936	4,130	441	468	50	3,662-	391-
1995	83		0		0		0
1996							
1997							
1998							
1999							
2000		131				131-	
2001		1,483				1,483-	
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010							
2011							
TOTAL	31,557	9,825	31	34,221	108	24,396	77
THREE-YEAR MOVING AVERAGES							
83-85	5,473	865	16	5,554	101	4,689	86
84-86	4,845	665	14	7,123	147	6,458	133
85-87	4,370	440	10	5,951	136	5,511	126
86-88	4,332	449	10	5,441	126	4,992	115
87-89	2,034	89	4	1,211	60	1,122	55
88-90	1,017	89	9	561	55	472	46
89-91	188	46	25	141	75	95	50
90-92	187		0	115	62	115	62

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	COST OF REMOVAL PCT	GROSS SALVAGE AMOUNT	GROSS SALVAGE PCT	NET SALVAGE AMOUNT	NET SALVAGE PCT
THREE-YEAR MOVING AVERAGES							
91-93	187		0	115	62	115	62
92-94	499	1,377	276	271	54	1,105-	222-
93-95	340	1,377	405	156	46	1,221-	359-
94-96	340	1,377	405	156	46	1,221-	359-
95-97	28		0	0			0
96-98							
97-99							
98-00		44				44-	
99-01		538				538-	
00-02		538				538-	
01-03		494				494-	
02-04							
03-05							
04-06							
05-07							
06-08							
07-09							
08-10							
09-11							
FIVE-YEAR AVERAGE							
07-11							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1995	9,037	1,864	21	216	2	1,648-	18-
1996	4,704	1,665	35	12,154	258	10,489	223
1997	13,006	14,315	110	6,217	48	8,098-	62-
1998	16,313	102,096	626	43,956	269	58,140-	356-
1999	22,755	18,376	81	4,927	22	13,449-	59-
2000	5,299	36,373	686	1,632	31	34,741-	656-
2001	6,332	85,733		499	8	85,234-	
2002	4,381	64,644		4,313	98	60,331-	
2003	50,239	96,478	192	1,666	3	94,812-	189-
2004	2,646	21,106	798	2,520	95	18,586-	702-
2005	15,096	1,157	8	10,201	68	9,044	60
2006	18,276	6,720	37	7,943	43	1,223	7
2007	2,609	4,872	187	14,690	563	9,818	376
2008	3,275	2,914	89	27,924	853	25,010	764
2009	2,605	3,777	145	10,319	396	6,542	251
2010	29,655	31,563	106	17,262	58	14,301-	48-
2011	20,596	8,792	43	3,893	19	4,899-	24-
TOTAL	226,824	502,445	222	170,332	75	332,113-	146-
THREE-YEAR MOVING AVERAGES							
95-97	8,916	5,948	67	6,196	69	248	3
96-98	11,341	39,359	347	20,776	183	18,583-	164-
97-99	17,358	44,929	259	18,367	106	26,562-	153-
98-00	14,789	52,282	354	16,838	114	35,443-	240-
99-01	11,462	46,827	409	2,353	21	44,475-	388-
00-02	5,337	62,250		2,148	40	60,102-	
01-03	20,317	82,285	405	2,159	11	80,126-	394-
02-04	19,089	60,743	318	2,833	15	57,910-	303-
03-05	22,660	39,580	175	4,796	21	34,785-	154-
04-06	12,006	9,661	80	6,888	57	2,773-	23-
05-07	11,994	4,250	35	10,945	91	6,695	56
06-08	8,053	4,835	60	16,852	209	12,017	149
07-09	2,830	3,854	136	17,644	624	13,790	487
08-10	11,845	12,751	108	18,502	156	5,750	49
09-11	17,619	14,711	83	10,491	60	4,219-	24-
FIVE-YEAR AVERAGE							
07-11	11,748	10,384	88	14,818	126	4,434	38

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 482.00 - STRUCTURES AND IMPROVEMENTS - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1988	1,522		0		0		0
1989							
1990							
1991							
1992	201,929		0		0		0
1993							
1994							
1995	553		0		0		0
1996							
1997							
1998							
1999							
2000		3,073				3,073-	
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010							
2011							
TOTAL	204,004	3,073	2		0	3,073-	2-
THREE-YEAR MOVING AVERAGES							
88-90	507		0		0		0
89-91							
90-92	67,310		0		0		0
91-93	67,310		0		0		0
92-94	67,310		0		0		0
93-95	184		0		0		0
94-96	184		0		0		0
95-97	184		0		0		0
96-98							
97-99							
98-00		1,024				1,024-	
99-01		1,024				1,024-	
00-02		1,024				1,024-	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 482.00 - STRUCTURES AND IMPROVEMENTS - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
01-03							
02-04							
03-05							
04-06							
05-07							
06-08							
07-09							
08-10							
09-11							
FIVE-YEAR AVERAGE							
07-11							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.00 - OFFICE FURNITURE AND EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	4,052		0		0		0
1984	3,091		0		0		0
1985	3,263		0		0		0
1986	3,267		0		0		0
1987	2,204		0		0		0
1988	2,776		0		0		0
1989	2,174		0		0		0
1990	2,382		0		0		0
1991	2,549		0		0		0
1992	5,458		0		0		0
1993	2,133		0		0		0
1994	2,834		0		0		0
1995	6,427		0		0		0
1996	5,853		0		0		0
1997	8,315		0		0		0
1998	19,018		0		0		0
1999	15,451		0		0		0
2000	12,718		0		0		0
2001	24,992		0		0		0
2002	29,239		0		0		0
2003							
2004							
2005	44,720		0		0		0
2006	42,433		0		0		0
2007	38,554		0		0		0
2008	37,619		0		0		0
2009	33,982		0		0		0
2010	28,435		0		0		0
2011	15,493	480	3		0	480-	3-
TOTAL	399,432	480	0		0	480-	0
THREE-YEAR MOVING AVERAGES							
83-85	3,469		0		0		0
84-86	3,207		0		0		0
85-87	2,911		0		0		0
86-88	2,749		0		0		0
87-89	2,385		0		0		0
88-90	2,444		0		0		0
89-91	2,368		0		0		0
90-92	3,463		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.00 - OFFICE FURNITURE AND EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	3,380		0		0		0
92-94	3,475		0		0		0
93-95	3,798		0		0		0
94-96	5,038		0		0		0
95-97	6,865		0		0		0
96-98	11,062		0		0		0
97-99	14,261		0		0		0
98-00	15,729		0		0		0
99-01	17,720		0		0		0
00-02	22,316		0		0		0
01-03	18,077		0		0		0
02-04	9,746		0		0		0
03-05	14,907		0		0		0
04-06	29,051		0		0		0
05-07	41,902		0		0		0
06-08	39,535		0		0		0
07-09	36,718		0		0		0
08-10	33,345		0		0		0
09-11	25,970	160	1		0	160-	1-
FIVE-YEAR AVERAGE							
07-11	30,817	96	0		0	96-	0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.20 - COMPUTER EQUIPMENT AND ACCESSORIES - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1992	17,410		0	17,410	100	17,410	100
1993							
1994	4,325		0		0		0
1995							
1996	67,348		0		0		0
1997	46,612		0		0		0
1998	26,506		0		0		0
1999	343,720		0	21,910	6	21,910	6
2000	20,522		0		0		0
2001	727		0		0		0
2002	3,013		0		0		0
2003							
2004							
2005	180		0		0		0
2006	557		0		0		0
2007	2,327		0		0		0
2008	6,406		0		0		0
2009	23,287		0		0		0
2010	4,631		0		0		0
2011	75		0		0		0
TOTAL	567,646		0	39,320	7	39,320	7
THREE-YEAR MOVING AVERAGES							
92-94	7,245		0	5,803	80	5,803	80
93-95	1,442		0		0		0
94-96	23,891		0		0		0
95-97	37,987		0		0		0
96-98	46,822		0		0		0
97-99	138,946		0	7,303	5	7,303	5
98-00	130,249		0	7,303	6	7,303	6
99-01	121,656		0	7,303	6	7,303	6
00-02	8,087		0		0		0
01-03	1,247		0		0		0
02-04	1,004		0		0		0
03-05	60		0		0		0
04-06	246		0		0		0
05-07	1,021		0		0		0
06-08	3,097		0		0		0
07-09	10,673		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.20 - COMPUTER EQUIPMENT AND ACCESSORIES - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
08-10	11,441	0		0		0	
09-11	9,331	0		0		0	
FIVE-YEAR AVERAGE							
07-11	7,345	0		0		0	

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 484.00 - TRANSPORTATION AND MOBILE EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1985	24,215		0		0		0
1986	26,522		0		0		0
1987							
1988	65,055		0		0		0
1989	84,427		0		0		0
1990	76,111		0		0		0
1991	81,810		0		0		0
1992	192,122		0		0		0
1993	203,197		0		0		0
1994	174,850		0		0		0
1995							
1996	150,825		0		0		0
1997	31,796		0		0		0
1998	676,007		0	301,323	45	301,323	45
1999	74,875		0	14,110	19	14,110	19
2000	86,082		0	10,751	12	10,751	12
2001	97,684		0	11,801	12	11,801	12
2002	168,240		0	26,306	16	26,306	16
2003							
2004							
2005							
2006							
2007	288,535		0	73,754	26	73,754	26
2008	44,179		0	41,097	93	41,097	93
2009	108,229		0	73,754	68	73,754	68
2010	154,051		0	6,845	4	6,845	4
2011	4,517	1	0	18,389	407	18,388	407
TOTAL	2,813,329	1	0	578,130	21	578,129	21
THREE-YEAR MOVING AVERAGES							
85-87	16,912		0		0		0
86-88	30,526		0		0		0
87-89	49,827		0		0		0
88-90	75,198		0		0		0
89-91	80,783		0		0		0
90-92	116,681		0		0		0
91-93	159,043		0		0		0
92-94	190,056		0		0		0
93-95	126,016		0		0		0
94-96	108,558		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 484.00 - TRANSPORTATION AND MOBILE EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
95-97	60,874		0		0		0
96-98	286,209		0	100,441	35	100,441	35
97-99	260,893		0	105,144	40	105,144	40
98-00	278,988		0	108,728	39	108,728	39
99-01	86,214		0	12,221	14	12,221	14
00-02	117,335		0	16,286	14	16,286	14
01-03	88,641		0	12,702	14	12,702	14
02-04	56,080		0	8,769	16	8,769	16
03-05							
04-06							
05-07	96,178		0	24,585	26	24,585	26
06-08	110,905		0	38,284	35	38,284	35
07-09	146,981		0	62,868	43	62,868	43
08-10	102,153		0	40,565	40	40,565	40
09-11	88,932		0	32,996	37	32,996	37
FIVE-YEAR AVERAGE							
07-11	119,902		0	42,768	36	42,768	36

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 485.00 - TOOLS AND INSTRUMENTS - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1983	8,303		0		0		0
1984	6,420		0		0		0
1985	5,784		0		0		0
1986	5,843		0		0		0
1987	6,007		0		0		0
1988	12,250		0		0		0
1989	7,861		0		0		0
1990	8,354		0		0		0
1991	8,840		0		0		0
1992	10,597		0		0		0
1993	13,925		0	1,719	12	1,719	12
1994	15,518		0		0		0
1995	20,961		0		0		0
1996	31,992		0		0		0
1997	40,489		0		0		0
1998	32,789		0		0		0
1999	60,294		0		0		0
2000	64,833		0		0		0
2001	65,652		0		0		0
2002	63,347		0		0		0
2003							
2004							
2005	60,771		0		0		0
2006	59,357		0		0		0
2007	60,900		0		0		0
2008	59,576		0		0		0
2009	18,467		0		0		0
2010	16,729		0		0		0
2011	12,754		0		0		0
TOTAL	778,613		0	1,719	0	1,719	0
THREE-YEAR MOVING AVERAGES							
83-85	6,836		0		0		0
84-86	6,016		0		0		0
85-87	5,878		0		0		0
86-88	8,033		0		0		0
87-89	8,706		0		0		0
88-90	9,488		0		0		0
89-91	8,352		0		0		0
90-92	9,264		0		0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 485.00 - TOOLS AND INSTRUMENTS - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
THREE-YEAR MOVING AVERAGES							
91-93	11,121	0		573	5	573	5
92-94	13,347	0		573	4	573	4
93-95	16,801	0		573	3	573	3
94-96	22,824	0			0		0
95-97	31,147	0			0		0
96-98	35,090	0			0		0
97-99	44,524	0			0		0
98-00	52,639	0			0		0
99-01	63,593	0			0		0
00-02	64,611	0			0		0
01-03	43,000	0			0		0
02-04	21,116	0			0		0
03-05	20,257	0			0		0
04-06	40,043	0			0		0
05-07	60,343	0			0		0
06-08	59,944	0			0		0
07-09	46,314	0			0		0
08-10	31,591	0			0		0
09-11	15,983	0			0		0
FIVE-YEAR AVERAGE							
07-11	33,685	0			0		0

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 486.00 - COMMUNICATION EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	PCT	GROSS SALVAGE AMOUNT	PCT	NET SALVAGE AMOUNT	PCT
1992	20,000		0	1,749	9	1,749	9
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000	28,110		0		0		0
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008							
2009							
2010							
2011							
TOTAL	48,110		0	1,749	4	1,749	4
THREE-YEAR MOVING AVERAGES							
92-94	6,667		0	583	9	583	9
93-95							
94-96							
95-97							
96-98							
97-99							
98-00	9,370		0		0		0
99-01	9,370		0		0		0
00-02	9,370		0		0		0
01-03							
02-04							
03-05							
04-06							
05-07							
06-08							
07-09							

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 486.00 - COMMUNICATION EQUIPMENT - GENERAL PLANT

SUMMARY OF BOOK SALVAGE

YEAR	REGULAR RETIREMENTS	COST OF REMOVAL AMOUNT	COST OF REMOVAL PCT	GROSS SALVAGE AMOUNT	GROSS SALVAGE PCT	NET SALVAGE AMOUNT	NET SALVAGE PCT
THREE-YEAR MOVING AVERAGES							
08-10							
09-11							
FIVE-YEAR AVERAGE							
07-11							

PART VI. DETAILED DEPRECIATION CALCULATIONS

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 422.00 - HYDRO STRUCTURES

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
INTERIM SURVIVOR CURVE.. IOWA 72-R2					
PROBABLE RETIREMENT YEAR.. 12-2052					
NET SALVAGE PERCENT.. -10					
1987	67,520.32	1.74	1,292.34	0.4263	31,662
1989	57,730.91	1.79	1,136.72	0.4028	25,579
1991	308.57	1.85	6.28	0.3792	129
1992	11,156.06	1.88	230.71	0.3666	4,499
2000	10,832.25	2.16	257.37	0.2484	2,960
2011	67,738.02	3.05	2,272.61	0.0152	1,133
	215,286.13		5,196.03		65,962

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.41

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 423.00 - HYDRO RESEVOIRS, DAMS AND WATERWAYS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR (1)	ORIGINAL COST (2)	--ANNUAL ACCRUAL-- RATE (3)	AMOUNT (4)	--ACCRUED DEPREC.-- FACTOR (5)	AMOUNT (6)
INTERIM SURVIVOR CURVE.. IOWA 103-R3					
PROBABLE RETIREMENT YEAR.. 12-2052					
NET SALVAGE PERCENT.. -10					
1987	454,475.11	1.58	7,898.78	0.3871	193,520
1989	48,551.65	1.63	870.53	0.3668	19,590
1992	2,414.61	1.71	45.42	0.3334	886
1993	134,389.31	1.74	2,572.21	0.3219	47,586
1996	24,178.48	1.82	484.05	0.2821	7,503
1997	36,567.29	1.86	748.17	0.2697	10,848
2002	11,519.73	2.04	258.50	0.1938	2,456
2003	2,788.31	2.08	63.80	0.1768	542
2004	42,198.95	2.12	984.08	0.1590	7,381
2005	111,863.49	2.16	2,657.88	0.1404	17,276
2007	98,112.46	2.26	2,439.08	0.1017	10,976
2008	39,046.90	2.31	992.18	0.0808	3,470
2010	547,634.36	2.43	14,638.27	0.0364	21,927
2011	321,332.38	2.50	8,836.64	0.0125	4,418
	1,875,073.03		43,489.59		348,379

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.32

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 425.00 - HYDRO GENERATORS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
INTERIM SURVIVOR CURVE.. IOWA 85-R3					
PROBABLE RETIREMENT YEAR.. 12-2052					
NET SALVAGE PERCENT.. -10					
1987	179,228.52	1.63	3,213.57	0.3994	78,742
2000	89,900.44	1.99	1,967.92	0.2288	22,626
2001	3,500.40	2.03	78.16	0.2132	821
2008	318,629.07	2.34	8,201.51	0.0819	28,705
2009	124,172.24	2.40	3,278.15	0.0600	8,195
2010	723,837.35	2.46	19,587.04	0.0369	29,381
2011	19,166.87	2.54	535.52	0.0127	268
	1,458,434.89		36,861.87		168,738

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.53

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 426.00 - HYDRO ACCESSORY AND ELECTRICAL EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
INTERIM SURVIVOR CURVE.. IOWA 45-R3					
PROBABLE RETIREMENT YEAR.. 12-2052					
NET SALVAGE PERCENT.. -10					
1987	62,699.91	2.24	1,544.93	0.5488	37,851
1991	12,366.51	2.31	314.23	0.4736	6,442
2000	12,896.50	2.48	351.82	0.2852	4,046
2001	17,229.29	2.51	475.70	0.2636	4,996
	105,192.21		2,686.68		53,335

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.55

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 427.00 - HYDRO MISCELLANEOUS EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
INTERIM SURVIVOR CURVE.. IOWA 30-R2					
PROBABLE RETIREMENT YEAR.. 12-2052					
NET SALVAGE PERCENT.. -10					
1987	3,300.00	2.90	105.27	0.7105	2,579
1990	1,347.72	3.03	44.92	0.6514	966
1992	1,522.97	3.12	52.27	0.6084	1,019
1993	17,813.77	3.17	621.17	0.5864	11,491
2008	3,364.92	4.11	152.13	0.1438	532
2009	41,307.32	4.25	1,931.12	0.1062	4,826
	68,656.70		2,906.88		21,413

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 4.23

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
BEAVER CREEK					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	9,162.03	2.04	205.60	0.8262	8,327
1986	22,121.90	2.40	584.02	0.6120	14,892
1991	352.47	2.52	9.77	0.5166	200
2006	5,851.48	2.99	192.46	0.1644	1,058
	37,487.88		991.85		24,477
CARMACKS					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	5,170.46	2.04	116.03	0.8262	4,699
1993	32,889.08	2.57	929.77	0.4754	17,199
1997	12,049.89	2.67	353.91	0.3872	5,132
2005	11,904.48	2.94	384.99	0.1911	2,502
2006	105,725.03	2.99	3,477.30	0.1644	19,119
	167,738.94		5,262.00		48,651
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. -10					
1971	22,662.51	2.09	521.01	0.8464	21,100
1985	13,952.01	2.73	418.98	0.7234	11,102
1991	352.46	3.20	12.41	0.6560	254
2006	5,314.95	5.87	343.19	0.3228	1,887
	42,281.93		1,295.59		34,343
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	59,126.21	2.04	1,326.79	0.8262	53,735
1976	1,003.99	2.16	23.85	0.7668	847
1992	258.00	2.54	7.21	0.4953	141
1997	9,866.63	2.67	289.78	0.3872	4,202
2007	181,455.77	3.04	6,067.88	0.1368	27,305

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
2008	322,680.35	3.10	11,003.40	0.1085	38,512
2009	25,330.54	3.18	886.06	0.0795	2,215
2011	8,750.60	3.50	336.90	0.0175	168
	608,472.09		19,941.87		127,125
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	16,476.40	2.04	369.73	0.8262	14,974
1982	31,174.06	2.31	792.13	0.6814	23,366
1983	42,062.15	2.33	1,078.05	0.6640	30,722
1989	21,819.59	2.47	592.84	0.5558	13,340
1991	352.47	2.52	9.77	0.5166	200
1992	9,774.53	2.54	273.10	0.4953	5,325
1996	8,908.07	2.65	259.67	0.4108	4,025
1997	4,623.41	2.67	135.79	0.3872	1,969
1998	38,405.22	2.70	1,140.64	0.3645	15,399
2005	9,871.42	2.94	319.24	0.1911	2,075
2006	4,432.86	2.99	145.80	0.1644	802
	187,900.18		5,116.76		112,197
PELLY CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2033					
NET SALVAGE PERCENT.. -10					
1971	8,362.86	2.04	187.66	0.8262	7,600
1976	9,888.00	2.18	237.11	0.7739	8,418
1982	12,270.68	2.35	317.20	0.6932	9,357
1988	17,015.74	2.57	481.03	0.6040	11,305
1991	352.47	2.70	10.47	0.5535	215
2004	1,001.91	3.72	41.00	0.2790	307
	48,891.66		1,274.47		37,202

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	10,571.03	2.04	237.21	0.8262	9,607
1974	8,707.10	2.11	202.09	0.7912	7,578
1976	4,684.35	2.16	111.30	0.7668	3,951
1978	170.40	2.21	4.14	0.7404	139
1989	8,000.00	2.47	217.36	0.5558	4,891
1992	109.38	2.54	3.06	0.4953	60
1993	22,783.19	2.57	644.08	0.4754	11,914
1997	16,193.47	2.67	475.60	0.3872	6,897
2006	100,002.48	2.99	3,289.08	0.1644	18,084
	171,221.40		5,183.92		63,121
STEWART CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	6,882.44	2.04	154.44	0.8262	6,255
1982	11,893.33	2.31	302.21	0.6814	8,915
1988	14,778.07	2.45	398.27	0.5758	9,360
1993	3,486.70	2.57	98.57	0.4754	1,823
2005	210,924.97	2.94	6,821.31	0.1911	44,339
	247,965.51		7,774.80		70,692
SWIFT RIVER					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	4,531.30	2.04	101.68	0.8262	4,118
1998	15,739.26	2.70	467.46	0.3645	6,311
2005	2,232.71	2.94	72.21	0.1911	469
	22,503.27		641.35		10,898

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 442.00 - STRUCTURES AND IMPROVEMENTS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
TESLIN					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	10,350.29	2.04	232.26	0.8262	9,407
2005	8,079.46	2.94	261.29	0.1911	1,698
2011	19,556.13	3.50	752.91	0.0175	376
	37,985.88		1,246.46		11,481
WATSON LAKE					
INTERIM SURVIVOR CURVE.. IOWA 40-R2.5					
PROBABLE RETIREMENT YEAR.. 12-2113					
NET SALVAGE PERCENT.. -10					
1987	311,360.32	2.43	8,322.66	0.5954	203,922
1988	7,591.41	2.45	204.59	0.5758	4,808
1997	10,471.46	2.66	306.39	0.3857	4,443
1999	29,783.20	2.71	887.84	0.3388	11,100
2001	186.47	2.76	5.66	0.2898	59
	359,392.86		9,727.14		224,332
MOBILES					
SURVIVOR CURVE.. IOWA 40-R2.5					
NET SALVAGE PERCENT.. -10					
1971	10,662.39	2.04	239.26	0.8262	9,690
	10,662.39		239.26		9,690
	1,942,503.99		58,695.47		774,209

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.02

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
BEAVER CREEK					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1971	6,791.94	2.30	187.46	0.9315	7,592
1986	7,089.08	2.79	237.34	0.7114	6,052
1994	1,140.87	2.94	40.25	0.5145	704
1996	5,470.27	2.97	194.96	0.4604	3,022
1998	55,480.02	2.99	1,990.62	0.4036	26,870
2004	16,886.36	3.02	611.96	0.2265	4,590
	92,858.54		3,262.59		48,830
CARMACKS					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1973	196.46	2.38	5.61	0.9163	216
1990	40,197.77	2.88	1,389.23	0.6192	29,869
	40,394.23		1,394.84		30,085
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. -20					
1973	3,283.83	2.38	93.79	0.9163	3,611
1997	63,293.96	3.87	2,939.37	0.5612	42,625
1999	16,409.95	4.16	819.18	0.5200	10,240
2003	1,332.07	4.93	78.81	0.4190	670
2004	3,051.15	5.17	189.29	0.3878	1,420
2005	14,133.96	5.44	922.66	0.3536	5,997
2008	1,140.87	6.48	88.71	0.2268	310
2009	2,832.53	6.92	235.21	0.1730	588
	105,478.32		5,367.02		65,461
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1982	100.00	2.68	3.22	0.7906	95
1994	397,144.70	2.94	14,011.27	0.5145	245,197

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1998	68,555.35	2.99	2,459.77	0.4036	33,203
2004	4,343.08	3.02	157.39	0.2265	1,180
2008	148,989.27	3.04	5,435.13	0.1064	19,023
	619,132.40		22,066.78		298,698
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1971	1,829.28	2.30	50.49	0.9315	2,045
1973	18,132.52	2.38	517.86	0.9163	19,938
1985	8,400.29	2.76	278.22	0.7314	7,373
1994	52,075.44	2.94	1,837.22	0.5145	32,151
2003	86,979.73	3.02	3,152.15	0.2567	26,793
2004	1,140.87	3.02	41.35	0.2265	310
2005	46,528.71	3.02	1,686.20	0.1963	10,960
	215,086.84		7,563.49		99,570
PELLY CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2033					
NET SALVAGE PERCENT.. -20					
1971	87,626.71	2.30	2,418.50	0.9315	97,949
1994	7,779.75	3.00	280.07	0.5250	4,901
2003	7,023.17	3.49	294.13	0.2966	2,500
2005	13,194.21	3.68	582.66	0.2392	3,787
2008	13,678.17	4.05	664.76	0.1418	2,327
	129,302.01		4,240.12		111,464
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1986	293.14	2.79	9.81	0.7114	250
1994	1,005.32	2.94	35.47	0.5145	621

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1996	9,000.00	2.97	320.76	0.4604	4,972
1998	60,463.08	2.99	2,169.42	0.4036	29,283
2003	14,364.08	3.02	520.55	0.2567	4,425
	85,125.62		3,056.01		39,551
STEWART CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1971	2,790.21	2.30	77.01	0.9315	3,119
1993	8,091.37	2.93	284.49	0.5420	5,263
2004	27,639.59	3.02	1,001.66	0.2265	7,512
2008	14,000.48	3.04	510.74	0.1064	1,788
2011	12,585.49	3.06	462.14	0.0153	231
	65,107.14		2,336.04		17,913
SWIFT RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
1971	1,005.32	2.30	27.75	0.9315	1,124
1973	936.21	2.38	26.74	0.9163	1,029
1990	41,465.54	2.88	1,433.05	0.6192	30,811
1994	19,118.51	2.94	674.50	0.5145	11,804
1999	904.44	2.99	32.45	0.3738	406
	63,430.02		2,194.49		45,174
TESLIN					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -20					
2004	99,862.71	3.02	3,619.02	0.2265	27,143
	99,862.71		3,619.02		27,143

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 444.00 - FUEL HOLDERS, PRODUCTS AND ACCESSORIES - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
WATSON LAKE					
INTERIM SURVIVOR CURVE.. IOWA 35-R4					
PROBABLE RETIREMENT YEAR.. 12-2113					
NET SALVAGE PERCENT.. -20					
1971	506.33	2.30	13.97	0.9315	566
1976	4,412.77	2.49	131.85	0.8840	4,681
1982	22,767.10	2.68	732.19	0.7906	21,600
1997	21,824.31	2.98	780.44	0.4321	11,316
1999	78,464.70	2.99	2,815.31	0.3738	35,196
2009	619,842.35	3.03	22,537.47	0.0758	56,381
	747,817.56		27,011.23		129,740
MOBILES					
SURVIVOR CURVE.. IOWA 35-R4					
NET SALVAGE PERCENT.. -20					
1988	25,562.13	2.83	868.09	0.6650	20,399
	25,562.13		868.09		20,399
	2,289,157.52		82,979.72		934,028

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.62

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
BEAVER CREEK					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1983	6,729.90	3.02	223.57	0.8607	6,372
1988	35,130.86	3.37	1,302.30	0.7920	30,606
1989	38,776.08	3.44	1,467.29	0.7740	33,014
1991	197,994.87	3.58	7,797.04	0.7339	159,839
1992	2,889.71	3.65	116.02	0.7118	2,263
1993	147,926.58	3.72	6,053.16	0.6882	111,983
1994	51,495.19	3.78	2,141.17	0.6615	37,470
2000	13,621.40	4.09	612.83	0.4704	7,048
2003	29,551.12	4.18	1,358.76	0.3553	11,549
2004	11,663.55	4.20	538.86	0.3150	4,041
	535,779.26		21,611.00		404,185
CARMACKS					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1974	6,707.49	2.50	184.46	0.9375	6,917
1991	411,404.53	3.58	16,201.11	0.7339	332,123
1992	1,431.15	3.65	57.46	0.7118	1,121
	419,543.17		16,443.03		340,161
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. -10					
1971	13,213.83	2.35	341.58	0.9518	13,835
1972	1,165.50	2.40	30.77	0.9480	1,215
1982	5,500.00	2.96	179.08	0.8732	5,283
1993	108,995.02	3.84	4,603.95	0.7104	85,173
2004	81,212.35	5.40	4,824.01	0.4050	36,180
2011	277,989.71	8.07	24,677.15	0.0404	12,354
	488,076.41		34,656.54		154,040

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1974	1,126.47	2.50	30.98	0.9375	1,162
1981	2,086.28	2.89	66.32	0.8814	2,023
1996	56,883.75	3.90	2,440.31	0.6045	37,825
	60,096.50		2,537.61		41,010
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1992	115,345.02	3.65	4,631.10	0.7118	90,313
1993	31,348.63	3.72	1,282.79	0.6882	23,732
1994	115,469.41	3.78	4,801.22	0.6615	84,021
1998	239,200.48	4.01	10,551.13	0.5414	142,453
2004	692,044.84	4.20	31,972.47	0.3150	239,794
2010	30,304.59	4.25	1,416.74	0.0638	2,127
	1,223,712.97		54,655.45		582,440
PELLY CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2033					
NET SALVAGE PERCENT.. -10					
1983	31,559.61	3.02	1,048.41	0.8607	29,880
1991	198,327.99	3.58	7,810.16	0.7339	160,108
1992	1,215.45	3.65	48.80	0.7118	952
1997	114,594.28	3.97	5,004.33	0.5756	72,557
1999	102,441.44	4.08	4,597.57	0.5100	57,470
2000	12.01	4.14	0.55	0.4761	6
2003	13,614.56	4.29	642.47	0.3646	5,460
2004	12,290.60	4.34	586.75	0.3255	4,401
	474,055.94		19,739.04		330,834

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	65.02	2.35	1.68	0.9518	68
1977	4,145.37	2.66	121.29	0.9177	4,185
1989	180,866.60	3.44	6,843.99	0.7740	153,990
1990	294.78	3.51	11.38	0.7546	245
1993	4,381.38	3.72	179.29	0.6882	3,317
	189,753.15		7,157.63		161,805
STEWART CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1971	3,852.20	2.35	99.58	0.9518	4,033
1972	1,061.34	2.40	28.02	0.9480	1,107
1974	5,934.12	2.50	163.19	0.9375	6,120
1985	1,157.99	3.16	40.25	0.8374	1,067
1986	16.33	3.23	0.58	0.8236	15
1988	4,271.69	3.37	158.35	0.7920	3,721
2003	24,500.84	4.18	1,126.55	0.3553	9,576
2004	4,882.86	4.20	225.59	0.3150	1,692
	45,677.37		1,842.11		27,331
SWIFT RIVER					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1970	9,236.40	2.31	234.70	0.9586	9,739
1991	5,179.53	3.58	203.97	0.7339	4,181
1992	25,847.73	3.65	1,037.79	0.7118	20,238
1998	59,650.02	4.01	2,631.16	0.5414	35,524
2003	79,944.14	4.18	3,675.83	0.3553	31,245
2004	2,700.87	4.20	124.78	0.3150	936
2009	58,488.49	4.25	2,734.34	0.1062	6,833
	241,047.18		10,642.57		108,696

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
TESLIN					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. -10					
1993	762,033.60	3.72	31,182.41	0.6882	576,875
	762,033.60		31,182.41		576,875
WATSON LAKE					
INTERIM SURVIVOR CURVE.. IOWA 26-S2.5					
PROBABLE RETIREMENT YEAR.. 12-2113					
NET SALVAGE PERCENT.. -10					
1973	11,370.97	2.45	306.45	0.9432	11,798
1978	2,815.04	2.71	83.92	0.9078	2,811
1981	7,682.30	2.89	244.22	0.8814	7,448
1985	589,119.42	3.16	20,477.79	0.8374	542,661
1986	1,654.02	3.23	58.77	0.8236	1,498
1987	70,000.00	3.30	2,541.00	0.8085	62,254
1989	8,785.44	3.44	332.44	0.7740	7,480
1991	377,412.18	3.58	14,862.49	0.7339	304,681
1993	48,060.52	3.72	1,966.64	0.6882	36,383
1996	250,658.18	3.90	10,753.24	0.6045	166,675
1999	516,871.37	4.05	23,026.62	0.5062	287,804
2000	19,585.15	4.09	881.14	0.4704	10,134
2002	6,723.20	4.16	307.65	0.3952	2,923
2011	258,457.58	4.25	12,082.89	0.0212	6,027
	2,169,195.37		87,925.26		1,450,577
MOBILES					
SURVIVOR CURVE.. IOWA 26-S2.5					
NET SALVAGE PERCENT.. -10					
1982	2,314.53	2.96	75.36	0.8732	2,223
1984	6,948.44	3.09	236.18	0.8498	6,495
1986	52,884.26	3.23	1,878.98	0.8236	47,911
1987	155.25	3.30	5.64	0.8085	138
1988	11,501.98	3.37	426.38	0.7920	10,021
1989	17,870.50	3.44	676.22	0.7740	15,215
1990	155,054.72	3.51	5,986.66	0.7546	128,705
1991	52,410.38	3.58	2,063.92	0.7339	42,310

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 445.00 - GENERAL EQUIPMENT AND PRIME MOVERS - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
MOBILES					
SURVIVOR CURVE.. IOWA 26-S2.5					
NET SALVAGE PERCENT.. -10					
1998	106,050.80	4.01	4,677.90	0.5414	63,157
1999	12,279.04	4.05	547.03	0.5062	6,837
2010	151,030.51	4.25	7,060.68	0.0638	10,599
	568,500.41		23,634.95		333,611
	7,177,471.33		312,027.60		4,511,565

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 4.35

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
BEAVER CREEK					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	3,820.66	2.22	84.82	0.8991	3,435
1972	342.83	2.25	7.71	0.8888	305
1974	126.08	2.32	2.93	0.8700	110
1977	161.28	2.42	3.90	0.8349	135
1980	1,172.29	2.52	29.54	0.7938	931
1983	3,521.61	2.62	92.27	0.7467	2,630
1992	27,277.24	2.87	782.86	0.5596	15,264
1994	144.34	2.92	4.21	0.5110	74
1998	11,389.22	3.02	343.95	0.4077	4,643
1999	27,540.86	3.04	837.24	0.3800	10,466
2000	7,962.35	3.06	243.65	0.3519	2,802
2003	29,551.12	3.13	924.95	0.2660	7,861
2004	11,663.54	3.15	367.40	0.2362	2,755
2006	9,236.84	3.20	295.58	0.1760	1,626
2007	15,499.19	3.23	500.62	0.1454	2,254
2008	20,159.43	3.25	655.18	0.1138	2,294
2009	3,796.60	3.29	124.91	0.0822	312
	173,365.48		5,301.72		57,897
CARMACKS					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	1,753.43	2.22	38.93	0.8991	1,577
1999	4,228.29	3.04	128.54	0.3800	1,607
2000	22,636.55	3.06	692.68	0.3519	7,966
2001	72,540.11	3.09	2,241.49	0.3244	23,532
	101,158.38		3,101.64		34,682
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. 0					
1971	3,489.80	2.22	77.47	0.8991	3,138
1972	392.81	2.26	8.88	0.8927	351
1976	2,134.00	2.41	51.43	0.8556	1,826
1980	2,677.41	2.57	68.81	0.8096	2,168
1985	1,408.73	2.83	39.87	0.7500	1,057

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR (1)	ORIGINAL COST (2)	--ANNUAL ACCRUAL-- RATE (3)	AMOUNT (4)	--ACCRUED DEPREC.-- FACTOR (5)	AMOUNT (6)
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. 0					
1990	70,054.07	3.17	2,220.71	0.6816	47,749
1991	4,985.00	3.26	162.51	0.6683	3,331
1993	33,561.73	3.45	1,157.88	0.6382	21,419
1994	1,818.80	3.55	64.57	0.6212	1,130
1998	7,421.15	4.07	302.04	0.5494	4,077
1999	14,916.17	4.22	629.46	0.5275	7,868
2000	15,290.59	4.39	671.26	0.5048	7,719
2001	16,054.87	4.58	735.31	0.4809	7,721
2003	28,717.40	5.01	1,438.74	0.4258	12,228
2004	4,956.93	5.26	260.73	0.3945	1,956
2006	9,043.55	5.84	528.14	0.3212	2,905
2007	4,788.51	6.19	296.41	0.2786	1,334
2008	62,915.66	6.58	4,139.85	0.2303	14,489
	284,627.18		12,854.07		142,466
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	14,437.93	2.22	320.52	0.8991	12,981
1972	16,367.43	2.25	368.27	0.8888	14,547
2001	43,957.09	3.09	1,358.27	0.3244	14,260
2002	18,022.71	3.11	560.51	0.2954	5,324
2006	2,166.70	3.20	69.33	0.1760	381
	94,951.86		2,676.90		47,493
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1981	3,895.02	2.55	99.32	0.7778	3,030
1982	17,114.85	2.59	443.27	0.7640	13,076
1986	23,198.32	2.70	626.35	0.6885	15,972
1989	22,032.00	2.79	614.69	0.6278	13,832
1990	6,856.39	2.82	193.35	0.6063	4,157

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1998	34,163.99	3.02	1,031.75	0.4077	13,929
1999	2,398.51	3.04	72.91	0.3800	911
2000	9,706.06	3.06	297.01	0.3519	3,416
	119,365.14		3,378.65		68,323
PELLY CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2033					
NET SALVAGE PERCENT.. 0					
1989	35,003.00	2.82	987.08	0.6345	22,209
1990	6,856.39	2.86	196.09	0.6149	4,216
1991	4,985.00	2.89	144.07	0.5924	2,953
1993	11,042.37	2.98	329.06	0.5513	6,088
1994	1,392.96	3.03	42.21	0.5302	739
1997	206,593.21	3.19	6,590.32	0.4626	95,570
1998	3,965.69	3.25	128.88	0.4388	1,740
1999	5,250.25	3.32	174.31	0.4150	2,179
2000	110.64	3.39	3.75	0.3898	43
2003	13,614.56	3.65	496.93	0.3102	4,223
2004	12,290.60	3.75	460.90	0.2812	3,456
2006	8,425.63	3.98	335.34	0.2189	1,844
2007	18,831.92	4.11	773.99	0.1850	3,484
2008	103,372.31	4.25	4,393.32	0.1488	15,382
	431,734.53		15,056.25		164,126
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	1,502.01	2.22	33.34	0.8991	1,350
1973	2,302.74	2.29	52.73	0.8816	2,030
1989	375.00	2.79	10.46	0.6278	235
1990	6,856.39	2.82	193.35	0.6063	4,157
1998	4,769.62	3.02	144.04	0.4077	1,945

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1999	20,795.02	3.04	632.17	0.3800	7,902
2000	87,363.46	3.06	2,673.32	0.3519	30,743
2004	907.50	3.15	28.59	0.2362	214
	124,871.74		3,768.00		48,576
STEWART CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	1,063.94	2.22	23.62	0.8991	957
1982	7,537.07	2.59	195.21	0.7640	5,758
1998	11,389.20	3.02	343.95	0.4077	4,643
1999	6,183.82	3.04	187.99	0.3800	2,350
2000	14,867.21	3.06	454.94	0.3519	5,232
2003	24,500.84	3.13	766.88	0.2660	6,517
2004	4,882.85	3.15	153.81	0.2362	1,153
	70,424.93		2,126.40		26,610
SWIFT RIVER					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1986	100.02	2.70	2.70	0.6885	69
1991	4,985.00	2.84	141.57	0.5822	2,902
1998	43,772.61	3.02	1,321.93	0.4077	17,846
1999	869.59	3.04	26.44	0.3800	330
2000	110.61	3.06	3.38	0.3519	39
2003	33,457.39	3.13	1,047.22	0.2660	8,900
2004	1,582.78	3.15	49.86	0.2362	374
2009	4,969.67	3.29	163.50	0.0822	409
2010	3,712.47	3.33	123.63	0.0500	186
	93,560.14		2,880.23		31,055

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
TESLIN					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1976	544.02	2.39	13.00	0.8484	462
1981	487.94	2.55	12.44	0.7778	380
1982	2,068.56	2.59	53.58	0.7640	1,580
1993	26,881.19	2.90	779.55	0.5365	14,422
1999	4,228.29	3.04	128.54	0.3800	1,607
2001	20,206.63	3.09	624.38	0.3244	6,555
	54,416.63		1,611.49		25,006
WATSON LAKE					
INTERIM SURVIVOR CURVE.. IOWA 35-R3					
PROBABLE RETIREMENT YEAR.. 12-2113					
NET SALVAGE PERCENT.. 0					
1971	40,922.41	2.22	908.48	0.8991	36,793
1973	12,675.52	2.29	290.27	0.8816	11,175
1974	5,654.23	2.32	131.18	0.8700	4,919
1976	782.05	2.39	18.69	0.8484	663
1984	9,095.34	2.65	241.03	0.7288	6,629
1987	220,208.40	2.73	6,011.69	0.6688	147,275
1989	42,648.64	2.79	1,189.90	0.6278	26,775
1990	31,215.94	2.82	880.29	0.6063	18,926
1994	6,000.88	2.92	175.23	0.5110	3,066
1997	13,284.17	2.99	397.20	0.4336	5,760
1998	3,968.07	3.02	119.84	0.4077	1,618
1999	77,281.64	3.04	2,349.36	0.3800	29,367
2000	1,866.83	3.06	57.12	0.3519	657
2002	12,712.92	3.11	395.37	0.2954	3,755
2004	2,043.14	3.15	64.36	0.2362	483
2005	4,960.69	3.17	157.25	0.2060	1,022
2007	30,679.14	3.21	984.80	0.1444	4,430
2008	9,332.25	3.23	301.43	0.1130	1,055
2011	52,856.96	3.36	1,775.99	0.0168	888
	578,189.22		16,449.48		305,256
MOBILES					
SURVIVOR CURVE.. IOWA 35-R3					
NET SALVAGE PERCENT.. 0					
1971	10,783.16	2.22	239.39	0.8991	9,695
1986	5,350.99	2.70	144.48	0.6885	3,684

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 446.00 - ACCESSORY ELECTRIC EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
MOBILES					
SURVIVOR CURVE.. IOWA 35-R3					
NET SALVAGE PERCENT.. 0					
1993	17,452.58	2.90	506.12	0.5365	9,363
2000	18,845.94	3.06	576.69	0.3519	6,632
2001	35,219.37	3.09	1,088.28	0.3244	11,425
	87,652.04		2,554.96		40,799
	2,214,317.27		71,759.79		992,289

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.24

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
BEAVER CREEK					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	184.59	2.09	3.86	0.8464	156
1982	694.02	2.36	16.38	0.6962	483
1991	2,135.57	2.55	54.46	0.5228	1,116
2003	8,443.18	2.78	234.72	0.2363	1,995
2004	3,332.42	2.80	93.31	0.2100	700
2007	22,115.51	2.89	639.14	0.1300	2,875
2009	11,697.35	2.96	346.24	0.0740	866
	48,602.64		1,388.11		8,191
CARMACKS					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	26.10	2.09	0.55	0.8464	22
1982	430.77	2.36	10.17	0.6962	300
2010	3,578.86	3.01	107.72	0.0452	162
2011	3,330.38	3.09	102.91	0.0154	51
	7,366.11		221.35		535
DESTRUCTION BAY					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2023					
NET SALVAGE PERCENT.. 0					
1979	1,551.73	2.42	37.55	0.7865	1,220
1982	1,587.73	2.56	40.65	0.7552	1,199
1991	7,781.34	3.19	248.22	0.6540	5,089
1993	198.09	3.38	6.70	0.6253	124
2003	8,204.98	4.97	407.79	0.4224	3,466
2004	1,416.28	5.22	73.93	0.3915	554
2007	2,392.19	6.15	147.12	0.2768	662
2009	4,915.64	7.00	344.09	0.1750	860
	28,047.98		1,306.05		13,174

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
HAINES JUNCTION					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	1,283.32	2.09	26.82	0.8464	1,086
1982	430.77	2.36	10.17	0.6962	300
2007	740.06	2.89	21.39	0.1300	96
	2,454.15		58.38		1,482
OLD CROW					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	334.88	2.09	7.00	0.8464	283
1982	430.77	2.36	10.17	0.6962	300
1991	845.54	2.55	21.56	0.5228	442
1992	89,611.14	2.57	2,303.01	0.5012	44,913
1996	76.70	2.64	2.02	0.4092	31
1998	25,966.14	2.68	695.89	0.3618	9,395
2004	51,464.79	2.80	1,441.01	0.2100	10,808
2007	2,765.55	2.89	79.92	0.1300	360
	171,495.51		4,560.58		66,532
PELLY CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2033					
NET SALVAGE PERCENT.. 0					
1971	63.84	2.09	1.33	0.8464	54
1982	2,232.98	2.38	53.14	0.7021	1,568
1991	23,272.01	2.70	628.34	0.5535	12,881
1992	1,386.99	2.74	38.00	0.5343	741
2003	3,889.87	3.53	137.31	0.3000	1,167
2004	3,511.59	3.63	127.47	0.2722	956
2007	7,139.56	4.01	286.30	0.1804	1,288
2009	11,771.71	4.32	508.54	0.1080	1,271
2011	8,216.80	4.74	389.48	0.0237	195
	61,485.35		2,169.91		20,121

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
ROSS RIVER					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	388.01	2.09	8.11	0.8464	328
1982	430.77	2.36	10.17	0.6962	300
2007	8,820.43	2.89	254.91	0.1300	1,147
	9,639.21		273.19		1,775
STEWART CROSSING					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1971	136.08	2.09	2.84	0.8464	115
1982	2,482.06	2.36	58.58	0.6962	1,728
1992	1,243.54	2.57	31.96	0.5012	623
2003	7,000.23	2.78	194.61	0.2363	1,654
2004	1,395.10	2.80	39.06	0.2100	293
2009	24,862.34	2.96	735.93	0.0740	1,840
2011	47,562.55	3.09	1,469.68	0.0154	732
	84,681.90		2,532.66		6,985
SWIFT RIVER					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1982	430.31	2.36	10.16	0.6962	300
1998	1,482.16	2.68	39.72	0.3618	536
2003	9,559.27	2.78	265.75	0.2363	2,259
2004	452.22	2.80	12.66	0.2100	95
	11,923.96		328.29		3,190

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 447.00 - MISCELLANEOUS POWER PLANT EQUIPMENT - DIESEL

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
TESLIN					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2053					
NET SALVAGE PERCENT.. 0					
1982	430.77	2.36	10.17	0.6962	300
2007	69,113.54	2.89	1,997.38	0.1300	8,985
2009	233.79	2.96	6.92	0.0740	17
	69,778.10		2,014.47		9,302
WATSON LAKE					
INTERIM SURVIVOR CURVE.. IOWA 40-R3					
PROBABLE RETIREMENT YEAR.. 12-2113					
NET SALVAGE PERCENT.. 0					
1971	963.89	2.09	20.15	0.8464	816
1979	2,627.48	2.29	60.17	0.7442	1,955
1982	12,722.46	2.36	300.25	0.6962	8,857
1987	14,434.04	2.47	356.52	0.6052	8,735
1997	54,613.60	2.66	1,452.72	0.3857	21,064
1999	8,046.80	2.69	216.46	0.3362	2,705
2000	1,450.00	2.71	39.30	0.3116	452
2007	112,714.67	2.82	3,178.55	0.1269	14,303
2008	26,941.49	2.84	765.14	0.0994	2,678
2011	23,915.13	2.95	705.50	0.0148	354
	258,429.56		7,094.76		61,919
MOBILES					
SURVIVOR CURVE.. IOWA 40-R3					
NET SALVAGE PERCENT.. 0					
2005	18,356.25	2.79	512.14	0.1814	3,330
2006	27,067.90	2.80	757.90	0.1540	4,168
2007	32,689.60	2.82	921.85	0.1269	4,148
2010	5,364.03	2.89	155.02	0.0434	233
2011	8,691.73	2.95	256.41	0.0148	129
	92,169.51		2,603.32		12,008
	846,073.98		24,551.07		205,214

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.90

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 457.00 - SUBSTATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 50-R4					
NET SALVAGE PERCENT.. -10					
1957	8,481.84	1.67	155.81	0.9102	8,492
1960	3,229.85	1.73	61.46	0.8910	3,166
1961	657.80	1.75	12.66	0.8838	640
1963	1,015.95	1.78	19.89	0.8633	965
1964	213.85	1.80	4.23	0.8550	201
1965	410.15	1.82	8.21	0.8463	382
1966	62.60	1.83	1.26	0.8326	57
1967	5,878.36	1.85	119.62	0.8232	5,323
1968	14,018.01	1.86	286.81	0.8091	12,476
1969	25,261.00	1.87	519.62	0.7948	22,085
1970	17,772.00	1.89	369.48	0.7844	15,334
1971	3,930.00	1.90	82.14	0.7695	3,327
1974	41,250.75	1.94	880.29	0.7275	33,011
1975	143,608.80	1.95	3,080.41	0.7118	112,443
1981	8,150.00	2.01	180.20	0.6130	5,496
1982	3,210.00	2.02	71.33	0.5959	2,104
1984	9,590.00	2.04	215.20	0.5610	5,918
1985	14,603.26	2.05	329.30	0.5432	8,726
1986	43,015.79	2.06	974.74	0.5253	24,856
1988	21,596.39	2.07	491.75	0.4864	11,555
1989	18,476.14	2.07	420.70	0.4658	9,467
1992	231,307.73	2.09	5,317.76	0.4076	103,709
1993	460,428.37	2.09	10,585.25	0.3866	195,802
1996	147,978.24	2.10	3,418.30	0.3255	52,984
1997	94,152.91	2.11	2,185.29	0.3060	31,692
1999	62,040.09	2.11	1,439.95	0.2638	18,003
2000	4,081.39	2.11	94.73	0.2426	1,089
	1,384,421.27		31,326.39		689,303

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.26

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 471.00 - LAND RIGHTS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 75-R3					
NET SALVAGE PERCENT.. 0					
1971	1,500.00	1.35	20.25	0.5468	820
1979	198.05	1.39	2.75	0.4518	89
1994	12,700.80	1.46	185.43	0.2555	3,245
1995	44,975.18	1.47	661.14	0.2426	10,911
1996	46,085.52	1.47	677.46	0.2278	10,498
1997	140,113.75	1.48	2,073.68	0.2146	30,068
1998	50,522.14	1.48	747.73	0.1998	10,094
1999	50,004.19	1.49	745.06	0.1862	9,311
2000	49,670.66	1.49	740.09	0.1714	8,514
2001	55,348.17	1.49	824.69	0.1564	8,656
2002	34,647.85	1.50	519.72	0.1425	4,937
2003	61,972.64	1.50	929.59	0.1275	7,902
2004	60,926.26	1.51	919.99	0.1132	6,897
2005	204,085.51	1.51	3,081.69	0.0982	20,041
2006	46,254.29	1.52	703.07	0.0836	3,867
2007	69,728.37	1.53	1,066.84	0.0688	4,797
2008	103,657.56	1.53	1,585.96	0.0536	5,556
2009	72,924.99	1.54	1,123.04	0.0385	2,808
2010	86,743.57	1.56	1,353.20	0.0234	2,030
2011	75,548.93	1.58	1,193.67	0.0079	597
	1,267,608.43		19,155.05		151,638

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 1.51

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -75					
1958	3,014.82	1.70	89.69	0.9095	4,798
1959	3,422.64	1.72	103.02	0.9030	5,409
1960	64,066.35	1.74	1,950.82	0.8961	100,467
1961	22,262.77	1.76	685.69	0.8888	34,628
1962	17,904.69	1.78	557.73	0.8811	27,608
1963	22,736.58	1.80	716.20	0.8730	34,736
1964	25,528.25	1.82	813.07	0.8645	38,621
1965	24,225.28	1.84	780.05	0.8556	36,273
1966	70,219.67	1.86	2,285.65	0.8463	103,997
1967	36,246.48	1.88	1,192.51	0.8366	53,067
1968	96,667.60	1.90	3,214.20	0.8265	139,818
1969	106,747.78	1.92	3,586.73	0.8160	152,436
1970	16,023.49	1.94	544.00	0.8051	22,576
1971	18,709.16	1.96	641.72	0.7938	25,990
1972	129,825.22	1.98	4,498.44	0.7821	177,689
1973	98,707.41	2.00	3,454.76	0.7700	133,008
1974	89,544.20	2.02	3,165.39	0.7575	118,702
1975	146,445.21	2.04	5,228.09	0.7446	190,825
1976	96,229.81	2.06	3,469.08	0.7313	123,153
1977	240,706.63	2.07	8,719.60	0.7142	300,847
1978	212,027.14	2.09	7,754.89	0.7002	259,807
1979	200,296.24	2.11	7,395.94	0.6858	240,386
1980	108,769.20	2.13	4,054.37	0.6710	127,722
1981	129,163.87	2.14	4,837.19	0.6527	147,534
1982	354,099.48	2.16	13,384.96	0.6372	394,856
1983	135,039.76	2.18	5,151.77	0.6213	146,825
1984	273,619.23	2.19	10,486.46	0.6022	288,354
1985	754,437.87	2.21	29,177.88	0.5856	773,148
1986	279,561.30	2.22	10,860.96	0.5661	276,954
1987	417,946.08	2.24	16,383.49	0.5488	401,395
1988	333,623.95	2.26	13,194.83	0.5311	310,078
1989	575,010.94	2.27	22,842.31	0.5108	514,002
1990	1,110,346.89	2.29	44,497.15	0.4924	956,786
1991	782,222.41	2.30	31,484.45	0.4715	645,431
1992	1,164,266.14	2.32	47,269.21	0.4524	921,750
1993	1,574,269.86	2.33	64,190.85	0.4310	1,187,393
1994	1,005,504.27	2.35	41,351.36	0.4112	723,561
1995	900,750.05	2.36	37,200.98	0.3894	613,816
1996	899,513.01	2.37	37,307.30	0.3674	578,342
1997	770,189.70	2.39	32,213.18	0.3466	467,159
1998	679,543.24	2.40	28,540.82	0.3240	385,301
1999	766,596.42	2.41	32,331.20	0.3012	404,073
2000	612,683.04	2.43	26,054.35	0.2794	299,571
2001	636,466.49	2.44	27,177.12	0.2562	285,360
2002	985,772.90	2.45	42,265.01	0.2328	401,604

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 473.00 - POLES, TOWERS AND FIXTURES - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -75					
2003	775,635.83	2.46	33,391.12	0.2091	283,825
2004	1,281,162.37	2.48	55,602.45	0.1860	417,018
2005	989,206.22	2.49	43,104.66	0.1618	280,094
2006	1,401,831.25	2.50	61,330.12	0.1375	337,316
2007	1,091,993.21	2.52	48,156.90	0.1134	216,706
2008	1,616,156.35	2.53	71,555.32	0.0886	250,585
2009	1,327,095.60	2.55	59,221.64	0.0638	148,170
2010	1,874,751.64	2.57	84,316.96	0.0386	126,639
2011	2,882,760.32	2.62	132,174.56	0.0131	66,087
	30,231,546.31		1,271,958.20		15,702,296

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 4.21

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R4					
NET SALVAGE PERCENT.. -80					
1948	148.71	1.55	4.15	0.9842	263
1949	510.02	1.57	14.41	0.9812	901
1950	123.73	1.59	3.54	0.9778	218
1951	739.89	1.61	21.44	0.9740	1,297
1952	1,127.00	1.63	33.07	0.9698	1,967
1953	2,029.00	1.65	60.26	0.9652	3,525
1954	2,638.00	1.67	79.30	0.9602	4,559
1955	418.31	1.69	12.72	0.9548	719
1956	2,743.00	1.71	84.43	0.9490	4,686
1957	922.06	1.73	28.71	0.9428	1,565
1958	5,559.00	1.76	176.11	0.9416	9,422
1959	8,040.00	1.78	257.60	0.9345	13,524
1960	72,384.01	1.80	2,345.24	0.9270	120,780
1961	9,293.00	1.83	306.11	0.9242	15,459
1962	12,100.41	1.85	402.94	0.9158	19,947
1963	14,243.14	1.87	479.42	0.9070	23,253
1964	10,540.74	1.90	360.49	0.9025	17,123
1965	14,565.83	1.92	503.40	0.8928	23,408
1966	43,767.33	1.94	1,528.36	0.8827	69,540
1967	35,893.76	1.96	1,266.33	0.8722	56,352
1968	68,248.09	1.98	2,432.36	0.8613	105,808
1969	125,172.05	2.00	4,506.19	0.8500	191,513
1970	27,008.59	2.02	982.03	0.8383	40,754
1971	18,964.86	2.04	696.39	0.8262	28,204
1972	109,788.05	2.06	4,070.94	0.8137	160,802
1973	108,551.49	2.08	4,064.17	0.8008	156,470
1974	57,051.46	2.09	2,146.28	0.7838	80,490
1975	144,638.16	2.11	5,493.36	0.7702	200,521
1976	106,854.96	2.13	4,096.82	0.7562	145,447
1977	145,040.78	2.14	5,586.97	0.7383	192,750
1978	93,920.92	2.16	3,651.65	0.7236	122,330
1979	77,160.47	2.17	3,013.89	0.7052	97,944
1980	122,191.66	2.19	4,816.80	0.6898	151,718
1981	87,840.47	2.20	3,478.48	0.6710	106,094
1982	209,885.33	2.21	8,349.24	0.6520	246,321
1983	132,046.38	2.23	5,300.34	0.6356	151,072
1984	121,892.29	2.24	4,914.70	0.6160	135,154
1985	677,899.61	2.25	27,454.93	0.5962	727,495
1986	136,683.35	2.26	5,560.28	0.5763	141,787
1987	328,625.90	2.27	13,427.65	0.5562	329,007
1988	239,184.34	2.28	9,816.13	0.5358	230,679
1989	332,701.42	2.29	13,713.95	0.5152	308,534
1990	680,637.85	2.30	28,178.41	0.4945	605,836
1991	519,771.93	2.30	21,518.56	0.4715	441,130
1992	486,666.63	2.31	20,235.60	0.4504	394,550

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.00 - OVERHEAD CONDUCTOR - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R4					
NET SALVAGE PERCENT.. -80					
1993	792,959.72	2.32	33,114.00	0.4292	612,609
1994	463,654.51	2.32	19,362.21	0.4060	338,839
1995	357,845.36	2.33	15,008.03	0.3844	247,600
1996	560,475.87	2.33	23,506.36	0.3612	364,399
1997	521,699.29	2.34	21,973.97	0.3393	318,623
1998	410,383.42	2.34	17,285.35	0.3159	233,352
1999	410,977.25	2.34	17,310.36	0.2925	216,380
2000	479,332.56	2.35	20,275.77	0.2702	233,128
2001	472,747.67	2.35	19,997.23	0.2468	210,013
2002	511,085.75	2.35	21,618.93	0.2232	205,334
2003	423,598.69	2.35	17,918.22	0.1998	152,343
2004	778,010.48	2.35	32,909.84	0.1762	246,754
2005	793,470.21	2.36	33,706.61	0.1534	219,093
2006	1,160,619.99	2.36	49,303.14	0.1298	271,167
2007	1,581,317.34	2.36	67,174.36	0.1062	302,285
2008	1,517,742.62	2.36	64,473.71	0.0826	225,658
2009	942,790.65	2.36	40,049.75	0.0590	100,124
2010	1,356,461.25	2.36	57,622.47	0.0354	86,434
2011	1,583,225.80	2.37	67,540.41	0.0118	33,628
	20,514,612.41		855,624.87		10,498,681

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 4.17

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -10					
1945	2,203.16	1.45	35.14	0.9642	2,337
1946	414.58	1.47	6.70	0.9628	439
1947	476.35	1.49	7.81	0.9610	504
1948	569.49	1.50	9.40	0.9525	597
1949	673.48	1.52	11.26	0.9500	704
1950	808.02	1.54	13.69	0.9471	842
1951	900.65	1.56	15.46	0.9438	935
1952	1,366.00	1.58	23.74	0.9401	1,413
1953	2,459.00	1.60	43.28	0.9360	2,532
1954	3,197.00	1.61	56.62	0.9258	3,256
1955	2,771.00	1.63	49.68	0.9210	2,807
1956	3,325.00	1.65	60.35	0.9158	3,350
1957	3,592.00	1.67	65.99	0.9102	3,596
1958	1,170.00	1.70	21.88	0.9095	1,171
1959	1,533.00	1.72	29.00	0.9030	1,523
1960	1,560.00	1.74	29.86	0.8961	1,538
1961	1,791.78	1.76	34.69	0.8888	1,752
1962	5,328.00	1.78	104.32	0.8811	5,164
1963	2,524.00	1.80	49.98	0.8730	2,424
1964	4,560.00	1.82	91.29	0.8645	4,336
1965	3,229.00	1.84	65.35	0.8556	3,039
1966	4,597.36	1.86	94.06	0.8463	4,280
1967	7,481.00	1.88	154.71	0.8366	6,884
1968	8,000.00	1.90	167.20	0.8265	7,273
1969	7,521.50	1.92	158.85	0.8160	6,751
1970	11,754.13	1.94	250.83	0.8051	10,410
1971	12,073.93	1.96	260.31	0.7938	10,543
1972	12,957.01	1.98	282.20	0.7821	11,147
1973	14,692.86	2.00	323.24	0.7700	12,445
1974	20,167.00	2.02	448.11	0.7575	16,804
1975	34,619.23	2.04	776.86	0.7446	28,355
1976	37,678.27	2.06	853.79	0.7313	30,310
1977	42,422.26	2.07	965.95	0.7142	33,328
1978	62,182.03	2.09	1,429.56	0.7002	47,894
1979	52,049.79	2.11	1,208.08	0.6858	39,265
1980	43,273.51	2.13	1,013.90	0.6710	31,940
1981	53,231.36	2.14	1,253.07	0.6527	38,219
1982	30,980.05	2.16	736.09	0.6372	21,715
1983	40,503.38	2.18	971.27	0.6213	27,681
1984	40,236.69	2.19	969.30	0.6022	26,654
1985	32,685.06	2.21	794.57	0.5856	21,054
1986	51,608.88	2.22	1,260.29	0.5661	32,137
1987	67,879.82	2.24	1,672.56	0.5488	40,978
1988	66,613.00	2.26	1,656.00	0.5311	38,916
1989	81,267.48	2.27	2,029.25	0.5108	45,663

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 474.10 - OVERHEAD SERVICES - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -10					
1990	89,672.48	2.29	2,258.85	0.4924	48,570
1991	108,151.36	2.30	2,736.23	0.4715	56,093
1992	163,702.21	2.32	4,177.68	0.4524	81,465
1993	112,072.14	2.33	2,872.41	0.4310	53,133
1994	64,781.32	2.35	1,674.60	0.4112	29,302
1995	55,117.61	2.36	1,430.85	0.3894	23,609
1997	45,912.56	2.39	1,207.04	0.3466	17,505
1998	46,874.69	2.40	1,237.49	0.3240	16,706
1999	40,693.10	2.41	1,078.77	0.3012	13,482
2000	33,672.14	2.43	900.06	0.2794	10,349
2001	25,583.05	2.44	686.65	0.2562	7,210
2002	59,316.63	2.45	1,598.58	0.2328	15,190
2003	55,673.16	2.46	1,506.52	0.2091	12,805
2004	68,225.83	2.48	1,861.20	0.1860	13,959
2005	63,429.49	2.49	1,737.33	0.1618	11,289
2006	136,065.53	2.50	3,741.80	0.1375	20,580
2007	191,840.99	2.52	5,317.83	0.1134	23,930
2008	225,262.76	2.53	6,269.06	0.0886	21,954
2009	129,908.59	2.55	3,643.94	0.0638	9,117
2010	31,334.64	2.57	885.83	0.0386	1,330
2011	221,235.12	2.62	6,376.00	0.0131	3,188
	2,849,452.51		73,754.26		1,125,671

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.59

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -50					
1961	12.02	1.76	0.32	0.8888	16
1969	1,356.35	1.92	39.06	0.8160	1,660
1971	65.00	1.96	1.91	0.7938	77
1972	14,154.38	1.98	420.39	0.7821	16,605
1973	5,056.00	2.00	151.68	0.7700	5,840
1974	7,373.22	2.02	223.41	0.7575	8,378
1975	8,587.37	2.04	262.77	0.7446	9,591
1976	66,670.57	2.06	2,060.12	0.7313	73,134
1977	4,549.00	2.07	141.25	0.7142	4,873
1978	257,255.88	2.09	8,064.97	0.7002	270,196
1979	17,007.99	2.11	538.30	0.6858	17,496
1980	716,055.98	2.13	22,877.99	0.6710	720,710
1981	23,266.00	2.14	746.84	0.6527	22,779
1982	49,311.39	2.16	1,597.69	0.6372	47,132
1983	68,295.31	2.18	2,233.26	0.6213	63,648
1984	32,676.52	2.19	1,073.42	0.6022	29,517
1985	61,229.70	2.21	2,029.76	0.5856	53,784
1986	21,965.42	2.22	731.45	0.5661	18,652
1987	181,124.12	2.24	6,085.77	0.5488	149,101
1988	70,261.38	2.26	2,381.86	0.5311	55,974
1989	1,382,612.06	2.27	47,077.94	0.5108	1,059,357
1990	239,241.64	2.29	8,217.95	0.4924	176,704
1991	171,937.17	2.30	5,931.83	0.4715	121,603
1992	736,477.56	2.32	25,629.42	0.4524	499,774
1993	996,540.23	2.33	34,829.08	0.4310	644,263
1994	267,822.74	2.35	9,440.75	0.4112	165,193
1995	1,124,713.96	2.36	39,814.87	0.3894	656,945
1996	533,259.01	2.37	18,957.36	0.3674	293,879
1997	1,120,397.24	2.39	40,166.24	0.3466	582,495
1998	658,133.08	2.40	23,692.79	0.3240	319,853
1999	875,078.79	2.41	31,634.10	0.3012	395,361
2000	527,543.67	2.43	19,228.97	0.2794	221,094
2001	1,723,813.98	2.44	63,091.59	0.2562	662,462
2002	1,013,816.38	2.45	37,257.75	0.2328	354,025
2003	1,153,334.82	2.46	42,558.05	0.2091	361,743
2004	997,611.57	2.48	37,111.15	0.1860	278,334
2005	724,497.68	2.49	27,059.99	0.1618	175,836
2006	740,562.48	2.50	27,771.09	0.1375	152,741
2007	826,505.65	2.52	31,241.91	0.1134	140,589
2008	823,804.14	2.53	31,263.37	0.0886	109,484

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.00 - UNDERGROUND CONDUIT - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -50					
2009	1,222,366.98	2.55	46,755.54	0.0638	116,981
2010	627,766.58	2.57	24,200.40	0.0386	36,348
2011	888,477.52	2.62	34,917.17	0.0131	17,459
	20,982,588.53		759,511.53		9,111,686

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.62

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 475.10 - UNDERGROUND SERVICES - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 40-R4					
NET SALVAGE PERCENT.. -10					
1978	8,805.65	2.35	227.63	0.7872	7,625
1979	16,155.81	2.37	421.18	0.7702	13,688
1980	5,116.57	2.39	134.51	0.7528	4,237
1981	14,328.30	2.41	379.84	0.7350	11,584
1982	6,135.87	2.43	164.01	0.7168	4,838
1983	4,112.25	2.45	110.83	0.6982	3,158
1984	6,049.74	2.47	164.37	0.6792	4,520
1985	2,467.31	2.49	67.58	0.6598	1,791
1986	47,595.84	2.50	1,308.89	0.6375	33,377
1987	64,385.16	2.52	1,784.76	0.6174	43,727
1988	55,348.04	2.53	1,540.34	0.5946	36,201
1989	64,252.19	2.54	1,795.21	0.5715	40,392
1990	63,917.48	2.56	1,799.92	0.5504	38,698
1991	85,692.58	2.57	2,422.53	0.5268	49,657
1992	151,300.89	2.58	4,293.92	0.5031	83,731
1993	198,187.47	2.59	5,646.36	0.4792	104,469
1994	84,909.93	2.60	2,428.42	0.4550	42,497
1995	123,873.01	2.61	3,556.39	0.4306	58,674
1996	226,325.88	2.61	6,497.82	0.4046	100,729
1997	125,671.06	2.62	3,621.84	0.3799	52,517
1998	99,659.29	2.62	2,872.18	0.3537	38,774
1999	72,633.75	2.63	2,101.29	0.3288	26,270
2000	15,457.57	2.63	447.19	0.3024	5,142
2001	64,800.69	2.64	1,881.81	0.2772	19,759
2002	71,681.66	2.64	2,081.64	0.2508	19,776
2003	75,033.52	2.64	2,178.97	0.2244	18,521
2004	206,861.36	2.65	6,030.01	0.1988	45,236
2005	148,375.29	2.65	4,325.14	0.1722	28,105
2006	233,234.91	2.65	6,798.80	0.1458	37,406
2007	163,236.52	2.65	4,758.34	0.1192	21,404
2008	95,096.67	2.65	2,772.07	0.0928	9,707
2009	39,357.36	2.66	1,151.60	0.0665	2,879
2010	94,836.76	2.66	2,774.92	0.0399	4,162
2011	218,180.81	2.66	6,383.97	0.0133	3,192
	2,953,077.19		84,924.28		1,016,443

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.88

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.10 - METERS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 15-L0					
NET SALVAGE PERCENT.. 0					
1970	18.15	2.25	0.41	0.9338	17
1971	4,291.77	2.30	98.71	0.9315	3,998
1972	4,159.27	2.34	97.33	0.9243	3,844
1973	4,922.20	2.39	117.64	0.9202	4,529
1974	1,065.68	2.44	26.00	0.9150	975
1975	10,392.34	2.49	258.77	0.9088	9,445
1976	3,532.46	2.55	90.08	0.9052	3,198
1977	2,160.36	2.61	56.39	0.9004	1,945
1978	3,961.72	2.66	105.38	0.8911	3,530
1979	468.92	2.73	12.80	0.8872	416
1980	4,344.54	2.79	121.21	0.8788	3,818
1981	3,588.21	2.86	102.62	0.8723	3,130
1982	5,232.71	2.93	153.32	0.8644	4,523
1983	562.52	3.00	16.88	0.8550	481
1984	2,268.84	3.08	69.88	0.8470	1,922
1985	4,581.74	3.16	144.78	0.8374	3,837
1986	4,570.19	3.25	148.53	0.8288	3,788
1987	8,609.54	3.34	287.56	0.8183	7,045
1988	11,962.73	3.44	411.52	0.8084	9,671
1989	35,899.48	3.54	1,270.84	0.7965	28,594
1990	12,441.33	3.65	454.11	0.7848	9,764
1991	11,062.14	3.76	415.94	0.7708	8,527
1992	35,072.97	3.88	1,360.83	0.7566	26,536
1993	62,568.13	4.01	2,508.98	0.7418	46,413
1994	6,205.20	4.15	257.52	0.7262	4,506
1995	9,796.96	4.30	421.27	0.7095	6,951
1996	8,617.32	4.46	384.33	0.6913	5,957
1997	20,081.35	4.64	931.77	0.6728	13,511
1998	95,664.33	4.82	4,611.02	0.6507	62,249
1999	71,622.77	5.03	3,602.63	0.6288	45,036
2000	110,805.59	5.26	5,828.37	0.6049	67,026
2001	38,275.23	5.51	2,108.97	0.5786	22,146
2002	38,701.01	5.79	2,240.79	0.5500	21,286
2003	109,974.70	6.10	6,708.46	0.5185	57,022
2004	120,520.80	6.46	7,785.64	0.4845	58,392
2005	15,995.63	6.87	1,098.90	0.4466	7,144
2006	8,685.31	7.36	639.24	0.4048	3,516
2007	39,317.09	7.94	3,121.78	0.3573	14,048
2008	18,765.20	8.66	1,625.07	0.3031	5,688

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.10 - METERS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 15-L0					
NET SALVAGE PERCENT.. 0					
2009	15,676.06	9.58	1,501.77	0.2395	3,754
2010	482,401.74	10.87	52,437.07	0.1630	78,631
2011	235,141.02	13.19	31,015.10	0.0660	15,519
	1,683,985.25		134,650.21		682,328

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 8.00

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 476.30 - AMR METERS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 15-R2.5					
NET SALVAGE PERCENT.. 0					
2007	7,789.88	7.26	565.55	0.3267	2,545
2008	29,425.21	7.45	2,192.18	0.2608	7,674
2009	11,869.27	7.67	910.37	0.1918	2,277
2010	12,710.93	7.94	1,009.25	0.1191	1,514
2011	5,851.04	8.50	497.34	0.0425	249
	67,646.33		5,174.69		14,259

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 7.65

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 477.10 - SUBSTATION EQUIPMENT - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 40-R4					
NET SALVAGE PERCENT.. -10					
1960	3,631.70	1.87	74.70	0.9630	3,847
1968	16,606.00	2.10	383.60	0.9135	16,687
1969	882.00	2.13	20.67	0.9052	878
1971	39,959.05	2.18	958.22	0.8829	38,808
1972	2,089.52	2.21	50.80	0.8730	2,007
1973	56,550.00	2.24	1,393.39	0.8624	53,646
1974	446.22	2.26	11.09	0.8475	416
1976	333,091.33	2.31	8,463.85	0.8200	300,448
1977	70,884.17	2.33	1,816.76	0.8038	62,674
1979	14,954.00	2.37	389.85	0.7702	12,669
1980	80,834.73	2.39	2,125.15	0.7528	66,938
1981	126,329.84	2.41	3,349.00	0.7350	102,138
1985	43,522.68	2.49	1,192.09	0.6598	31,588
1986	118,315.85	2.50	3,253.69	0.6375	82,969
1987	335,797.16	2.52	9,308.30	0.6174	228,053
1988	60,907.24	2.53	1,695.05	0.5946	39,837
1989	36,582.03	2.54	1,022.10	0.5715	22,997
1990	132,200.60	2.56	3,722.77	0.5504	80,040
1991	259,920.34	2.57	7,347.95	0.5268	150,619
1992	98,578.56	2.58	2,797.66	0.5031	54,554
1993	166,934.17	2.59	4,755.95	0.4792	87,994
1994	41,680.13	2.60	1,192.05	0.4550	20,861
1996	196,092.49	2.61	5,629.82	0.4046	87,273
1997	1,451.70	2.62	41.84	0.3799	607
1999	46,617.77	2.63	1,348.65	0.3288	16,861
2000	79,093.83	2.63	2,288.18	0.3024	26,310
2001	253,074.36	2.64	7,349.28	0.2772	77,167
2005	491,706.97	2.65	14,333.26	0.1722	93,139
2006	22,338.61	2.65	651.17	0.1458	3,583
	3,131,073.05		86,966.89		1,765,608

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.78

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.10 - STREET LIGHTS AND SIGNAL SYSTEMS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 30-R3					
NET SALVAGE PERCENT.. -10					
1974	4,057.78	2.46	109.80	0.9225	4,118
1975	230.46	2.51	6.36	0.9162	232
1977	42,389.29	2.60	1,212.33	0.8970	41,826
1978	22,260.89	2.64	646.46	0.8844	21,656
1979	15,471.24	2.69	457.79	0.8742	14,877
1980	184,650.87	2.74	5,565.38	0.8631	175,309
1981	28,488.46	2.79	874.31	0.8510	26,668
1982	69,549.87	2.83	2,165.09	0.8348	63,866
1983	113,988.36	2.88	3,611.15	0.8208	102,918
1984	98,481.92	2.92	3,163.24	0.8030	86,989
1985	29,194.06	2.96	950.56	0.7844	25,190
1986	348,615.98	3.01	11,542.68	0.7676	294,357
1987	137,151.99	3.05	4,601.45	0.7472	112,728
1988	209,962.68	3.09	7,136.63	0.7262	167,722
1989	572,762.96	3.13	19,720.23	0.7042	443,674
1990	271,383.70	3.17	9,463.15	0.6816	203,473
1991	222,337.62	3.21	7,850.74	0.6580	160,928
1992	89,796.68	3.25	3,210.23	0.6338	62,604
1993	353,801.93	3.28	12,765.17	0.6068	236,156
1994	247,288.34	3.32	9,030.97	0.5810	158,042
1995	310,528.34	3.36	11,477.13	0.5544	189,373
1996	107,223.57	3.39	3,998.37	0.5254	61,969
1997	413,878.23	3.42	15,570.10	0.4959	225,766
1998	217,759.97	3.46	8,287.94	0.4671	111,887
1999	251,341.73	3.49	9,649.01	0.4362	120,599
2000	210,200.54	3.52	8,138.96	0.4048	93,598
2001	356,557.44	3.55	13,923.57	0.3728	146,217
2002	195,535.23	3.58	7,700.18	0.3401	73,152
2003	588,194.07	3.61	23,357.19	0.3068	198,504
2004	504,727.00	3.64	20,209.27	0.2730	151,570
2005	109,056.61	3.67	4,402.62	0.2386	28,623
2006	799,992.38	3.70	32,559.69	0.2035	179,078
2007	524,616.74	3.73	21,525.02	0.1678	96,834
2008	217,945.03	3.76	9,014.21	0.1316	31,550
2009	584,538.96	3.79	24,369.43	0.0948	60,956
2010	196,401.93	3.83	8,274.41	0.0574	12,401
2011	497,158.76	3.91	21,382.80	0.0196	10,719
	9,147,521.61		347,923.62		4,196,129

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.80

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 478.20 - SENTINEL LIGHTS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 23-R2					
NET SALVAGE PERCENT.. 0					
1967	2,516.28			1.0000	2,516
1973	1,471.00	2.53	37.22	0.9740	1,433
1974	19,675.00	2.58	507.62	0.9675	19,036
1975	4,754.00	2.62	124.55	0.9563	4,546
1976	14,852.76	2.68	398.05	0.9514	14,131
1977	10,540.00	2.73	287.74	0.9418	9,927
1978	16,073.00	2.78	446.83	0.9313	14,969
1979	29,321.00	2.84	832.72	0.9230	27,063
1980	18,970.00	2.90	550.13	0.9135	17,329
1981	17,037.00	2.96	504.30	0.9028	15,381
1982	9,135.00	3.03	276.79	0.8938	8,165
1983	10,835.00	3.09	334.80	0.8806	9,541
1984	19,067.94	3.16	602.55	0.8690	16,570
1985	10,529.38	3.23	340.10	0.8560	9,013
1986	31,912.79	3.30	1,053.12	0.8415	26,855
1987	14,211.05	3.37	478.91	0.8256	11,733
1988	13,496.10	3.44	464.27	0.8084	10,910
1989	7,391.51	3.51	259.44	0.7898	5,838
1990	3,329.07	3.58	119.18	0.7697	2,562
1991	2,562.75	3.66	93.80	0.7503	1,923
1992	10,584.67	3.73	394.81	0.7274	7,699
1993	152.13	3.80	5.78	0.7030	107
1997	15,872.16	4.11	652.35	0.5960	9,460
1999	448.69	4.27	19.16	0.5338	240
	284,738.28		8,784.22		246,947

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 3.09

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -10					
1946	226.33	1.47	3.66	0.9628	240
1947	1,242.88	1.49	20.37	0.9610	1,314
1948	1,616.79	1.50	26.68	0.9525	1,694
1950	28.96	1.54	0.49	0.9471	30
1951	15,498.02	1.56	265.95	0.9438	16,090
1952	20,900.00	1.58	363.24	0.9401	21,613
1953	2,758.00	1.60	48.54	0.9360	2,840
1954	5,453.44	1.61	96.58	0.9258	5,554
1955	21,326.43	1.63	382.38	0.9210	21,606
1956	3,729.00	1.65	67.68	0.9158	3,757
1958	2,255.00	1.70	42.17	0.9095	2,256
1959	18,726.00	1.72	354.30	0.9030	18,601
1960	37,058.01	1.74	709.29	0.8961	36,528
1961	10,822.00	1.76	209.51	0.8888	10,580
1962	9,436.00	1.78	184.76	0.8811	9,145
1963	24,530.00	1.80	485.69	0.8730	23,556
1964	6,995.00	1.82	140.04	0.8645	6,652
1965	13,727.00	1.84	277.83	0.8556	12,919
1966	36,590.20	1.86	748.64	0.8463	34,063
1967	62,470.06	1.88	1,291.88	0.8366	57,489
1968	178,530.55	1.90	3,731.29	0.8265	162,311
1969	37,843.96	1.92	799.26	0.8160	33,969
1970	47,642.66	1.94	1,016.69	0.8051	42,193
1971	67,977.76	1.96	1,465.60	0.7938	59,357
1972	78,104.06	1.98	1,701.11	0.7821	67,194
1973	67,293.83	2.00	1,480.46	0.7700	56,998
1974	69,239.74	2.02	1,538.51	0.7575	57,694
1975	105,252.50	2.04	2,361.87	0.7446	86,208
1976	70,666.88	2.06	1,601.31	0.7313	56,847
1977	93,514.46	2.07	2,129.32	0.7142	73,467
1978	141,818.02	2.09	3,260.40	0.7002	109,231
1979	191,093.76	2.11	4,435.29	0.6858	144,157
1980	191,440.72	2.13	4,485.46	0.6710	141,302
1981	185,345.66	2.14	4,363.04	0.6527	133,073
1982	125,172.27	2.16	2,974.09	0.6372	87,736
1983	65,923.13	2.18	1,580.84	0.6213	45,054
1984	57,612.00	2.19	1,387.87	0.6022	38,163
1985	202,526.99	2.21	4,923.43	0.5856	130,460
1986	205,124.37	2.22	5,009.14	0.5661	127,733
1987	505,597.46	2.24	12,457.92	0.5488	305,219
1988	306,132.88	2.26	7,610.46	0.5311	178,846
1989	485,270.58	2.27	12,117.21	0.5108	272,664
1990	725,712.71	2.29	18,280.70	0.4924	393,075
1991	767,112.63	2.30	19,407.95	0.4715	397,863
1992	770,960.71	2.32	19,674.92	0.4524	383,661

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 479.10 - LINE TRANSFORMERS - DISTRIBUTION

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 45-R3					
NET SALVAGE PERCENT.. -10					
1993	941,284.95	2.33	24,125.13	0.4310	446,263
1994	504,127.56	2.35	13,031.70	0.4112	228,027
1995	470,411.85	2.36	12,211.89	0.3894	201,496
1996	655,953.00	2.37	17,100.69	0.3674	265,097
1997	483,875.09	2.39	12,721.08	0.3466	184,482
1998	494,985.10	2.40	13,067.61	0.3240	176,413
1999	375,346.25	2.41	9,950.43	0.3012	124,360
2000	591,914.63	2.43	15,821.88	0.2794	181,919
2001	574,603.49	2.44	15,422.36	0.2562	161,935
2002	539,849.29	2.45	14,548.94	0.2328	138,245
2003	740,255.14	2.46	20,031.30	0.2091	170,266
2004	737,246.07	2.48	20,112.07	0.1860	150,841
2005	1,390,573.02	2.49	38,087.80	0.1618	247,494
2006	1,480,794.08	2.50	40,721.84	0.1375	223,970
2007	1,586,755.13	2.52	43,984.85	0.1134	197,932
2008	1,953,714.12	2.53	54,371.86	0.0886	190,409
2009	1,715,673.49	2.55	48,124.64	0.0638	120,406
2010	1,410,673.11	2.57	39,879.73	0.0386	59,897
2011	1,741,434.38	2.62	50,188.14	0.0131	25,094
	24,427,769.16		649,017.76		7,365,548

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.66

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 482.00 - STRUCTURES AND IMPROVEMENTS - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 40-L3					
NET SALVAGE PERCENT.. 0					
1972	59,482.48	2.00	1,189.65	0.7900	46,991
1973	16,635.00	2.04	339.35	0.7854	13,065
1974	46,735.00	2.08	972.09	0.7800	36,453
1976	1,500.00	2.16	32.40	0.7668	1,150
1977	1,015.00	2.19	22.23	0.7556	767
1979	14,807.00	2.27	336.12	0.7378	10,925
1981	12,462.00	2.35	292.86	0.7168	8,933
1982	21,706.00	2.39	518.77	0.7050	15,303
1984	24,285.00	2.46	597.41	0.6765	16,429
1986	2,778.08	2.53	70.29	0.6452	1,792
1987	379,195.74	2.55	9,669.49	0.6248	236,921
1988	87,857.59	2.58	2,266.73	0.6063	53,268
1989	3,500.00	2.61	91.35	0.5872	2,055
1990	45,253.00	2.63	1,190.15	0.5654	25,586
1991	1,424,433.43	2.65	37,747.49	0.5432	773,752
1992	300,985.15	2.67	8,036.30	0.5206	156,693
1993	117,588.04	2.69	3,163.12	0.4976	58,512
1994	58,849.20	2.71	1,594.81	0.4742	27,906
1995	33,602.05	2.72	913.98	0.4488	15,081
1996	25,776.27	2.74	706.27	0.4247	10,947
1997	55,730.18	2.75	1,532.58	0.3988	22,225
1998	83,574.87	2.77	2,315.02	0.3740	31,257
1999	9,019.44	2.78	250.74	0.3475	3,134
2000	50,931.86	2.79	1,421.00	0.3208	16,339
2001	47,503.75	2.80	1,330.10	0.2940	13,966
2002	25,441.90	2.81	714.92	0.2670	6,793
2003	46,885.37	2.82	1,322.17	0.2397	11,238
2004	48,669.62	2.82	1,372.48	0.2115	10,294
2005	3,289.66	2.82	92.77	0.1833	603
2006	83,642.46	2.83	2,367.08	0.1556	13,015
2007	12,536.74	2.83	354.79	0.1274	1,597
2008	76,031.98	2.83	2,151.71	0.0990	7,527
2009	74,558.63	2.83	2,110.01	0.0708	5,279
2010	98,128.40	2.83	2,777.03	0.0424	4,161
2011	64,924.42	2.83	1,837.36	0.0142	922
	3,459,315.31		91,700.62		1,660,879

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.65

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.00 - OFFICE FURNITURE AND EQUIPMENT - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. 15-SQUARE NET SALVAGE PERCENT.. 0					
1988	834.92			1.0000	835
1989	2,150.48			1.0000	2,150
1990	1,503.14			1.0000	1,503
1991	2,966.04			1.0000	2,966
1992	909.82			1.0000	910
1993	378.67			1.0000	379
1996	7,412.16			1.0000	7,412
1997	2,902.53	6.67	193.60	0.9667	2,806
1998	13,797.39	6.67	920.29	0.9000	12,418
1999	9,644.27	6.67	643.27	0.8333	8,037
2000	2,749.22	6.67	183.37	0.7667	2,108
2001	5,644.80	6.67	376.51	0.7000	3,951
2004	2,243.36	6.67	149.63	0.5000	1,122
2005	10,922.40	6.67	728.52	0.4333	4,733
2006	5,995.34	6.67	399.89	0.3667	2,198
2007	10,018.97	6.67	668.27	0.3000	3,006
2008	10,493.44	6.67	699.91	0.2333	2,448
2009	858.00	6.67	57.23	0.1667	143
2010	10,095.47	6.67	673.37	0.1000	1,010
2011	71,272.97	6.67	4,753.91	0.0333	2,376
	172,793.39		10,447.77		62,511

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 6.05

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 483.20 - COMPUTER EQUIPMENT AND ACCESSORIES - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. 5-SQUARE NET SALVAGE PERCENT.. 0					
2004	74.62			1.0000	75
2006	2,646.27			1.0000	2,646
2007	299.99	20.00	60.00	0.9000	270
2008	2,677.00	20.00	535.40	0.7000	1,874
2009	1,308.00	20.00	261.60	0.5000	654
2010	4,466.89	20.00	893.38	0.3000	1,340
2011	35,893.75	20.00	7,178.75	0.1000	3,589
	47,366.52		8,929.13		10,448

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 18.85

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 484.00 - TRANSPORTATION AND MOBILE EQUIPMENT - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 12-L0					
NET SALVAGE PERCENT.. +25					
1984	474.75	3.27	11.64	0.8992	320
1986	3,385.00	3.46	87.84	0.8823	2,240
1988	4,868.01	3.67	133.99	0.8624	3,149
1989	34,390.39	3.79	977.55	0.8528	21,996
1990	58.50	3.92	1.72	0.8428	37
1991	12,221.00	4.05	371.21	0.8302	7,609
1993	32,789.25	4.34	1,067.29	0.8029	19,745
1994	156,818.41	4.51	5,304.38	0.7892	92,821
1995	15,460.68	4.68	542.67	0.7722	8,954
1996	173,521.43	4.88	6,350.88	0.7564	98,439
1997	66,433.55	5.08	2,531.12	0.7366	36,701
1998	13,106.81	5.31	521.98	0.7168	7,046
1999	122,619.76	5.55	5,104.05	0.6938	63,805
2000	8,679.83	5.83	379.53	0.6704	4,364
2001	244,021.20	6.13	11,218.87	0.6436	117,789
2002	195,342.59	6.46	9,464.35	0.6137	89,911
2003	8,923.42	6.85	458.44	0.5822	3,896
2004	14,617.59	7.28	798.12	0.5460	5,986
2005	166,758.22	7.79	9,742.85	0.5064	63,335
2006	151,016.59	8.39	9,502.72	0.4614	52,259
2007	470,336.39	9.13	32,206.28	0.4108	144,911
2008	137,140.79	10.04	10,326.70	0.3514	36,143
2009	165,961.58	11.23	13,978.11	0.2808	34,952
2010	308,325.84	12.93	29,899.90	0.1940	44,861
2011	53,875.44	16.05	6,485.26	0.0802	3,241
	2,561,147.02		157,467.45		964,510

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 6.15

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 485.00 - TOOLS AND INSTRUMENTS - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. 15-SQUARE NET SALVAGE PERCENT.. 0					
1991	3,238.21			1.0000	3,238
1992	156.97			1.0000	157
1993	1,288.17			1.0000	1,288
1994	3,064.70			1.0000	3,065
1995	1,070.05			1.0000	1,070
1996	10,038.84			1.0000	10,039
1997	8,816.70	6.67	588.07	0.9667	8,523
1998	18,273.33	6.67	1,218.83	0.9000	16,446
1999	63,438.59	6.67	4,231.35	0.8333	52,865
2000	6,165.19	6.67	411.22	0.7667	4,727
2001	8,154.41	6.67	543.90	0.7000	5,708
2002	87,515.51	6.67	5,837.28	0.6333	55,426
2003	23,582.40	6.67	1,572.95	0.5667	13,363
2004	36,733.49	6.67	2,450.12	0.5000	18,367
2005	17,543.91	6.67	1,170.18	0.4333	7,602
2006	55,899.76	6.67	3,728.51	0.3667	20,497
2007	48,284.13	6.67	3,220.55	0.3000	14,485
2008	45,514.89	6.67	3,035.84	0.2333	10,620
2009	37,388.92	6.67	2,493.84	0.1667	6,232
2010	176,091.78	6.67	11,745.32	0.1000	17,609
2011	66,923.57	6.67	4,463.80	0.0333	2,231
	719,183.52		46,711.76		273,558

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 6.50

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 486.00 - COMMUNICATION EQUIPMENT - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. 15-SQUARE NET SALVAGE PERCENT.. 0					
1981	12,328.84			1.0000	12,329
1982	997.00			1.0000	997
1983	2,693.00			1.0000	2,693
1985	7,145.00			1.0000	7,145
1986	5,470.00			1.0000	5,470
1987	654.46			1.0000	654
1988	3,067.50			1.0000	3,068
1989	6,505.50			1.0000	6,506
1990	12,083.42			1.0000	12,083
1991	5,466.50			1.0000	5,466
1992	8,287.00			1.0000	8,287
1993	4,525.80			1.0000	4,526
1994	37,148.37			1.0000	37,148
1995	8,886.16			1.0000	8,886
1996	12,061.22			1.0000	12,061
1997	32,424.05	6.67	2,162.68	0.9667	31,343
1998	4,662.16	6.67	310.97	0.9000	4,196
1999	179,948.08	6.67	12,002.54	0.8333	149,956
2000	19,678.50	6.67	1,312.56	0.7667	15,087
2001	11,510.86	6.67	767.77	0.7000	8,058
2002	5,582.26	6.67	372.34	0.6333	3,535
2003	649.95	6.67	43.35	0.5667	368
2004	1,628.00	6.67	108.59	0.5000	814
2005	9,903.90	6.67	660.59	0.4333	4,292
2006	41,356.93	6.67	2,758.51	0.3667	15,164
2007	54,141.89	6.67	3,611.26	0.3000	16,243
2008	59,380.00	6.67	3,960.65	0.2333	13,855
2009	47,209.25	6.67	3,148.86	0.1667	7,868
2010	228,077.07	6.67	15,212.74	0.1000	22,808
2011	49,368.98	6.67	3,292.91	0.0333	1,645
	872,841.65		49,726.32		422,551

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 5.70

YUKON ELECTRICAL COMPANY LIMITED

ACCOUNT 488.20 - HOUSES - GENERAL PLANT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AS OF DECEMBER 31, 2011

YEAR	ORIGINAL COST	--ANNUAL ACCRUAL-- RATE	AMOUNT	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)
SURVIVOR CURVE.. IOWA 40-R3					
NET SALVAGE PERCENT.. -10					
1981	5,448.00	2.34	140.23	0.7137	4,277
1983	3,328.00	2.38	87.13	0.6783	2,483
1986	12,922.45	2.44	346.84	0.6222	8,844
1988	27,878.53	2.49	763.59	0.5852	17,946
1989	2,150.47	2.51	59.37	0.5648	1,336
1993	9,630.81	2.58	273.32	0.4773	5,056
1994	131,354.79	2.60	3,756.75	0.4550	65,743
1995	1,870.05	2.62	53.89	0.4323	889
1996	12,740.02	2.64	369.97	0.4092	5,735
1997	17,391.56	2.66	508.88	0.3857	7,379
1999	46,813.85	2.69	1,385.22	0.3362	17,313
2000	8,693.67	2.71	259.16	0.3116	2,980
2003	3,969.00	2.76	120.50	0.2346	1,024
2005	21,131.34	2.79	648.52	0.1814	4,217
2006	50,584.94	2.80	1,558.02	0.1540	8,569
2007	51,201.54	2.82	1,588.27	0.1269	7,147
2008	56,889.23	2.84	1,777.22	0.0994	6,220
2009	1,543.92	2.86	48.57	0.0715	121
2010	7,346.76	2.89	233.55	0.0434	351
2011	367.33	2.95	11.92	0.0148	6
	473,256.26		13,990.92		167,636

COMPOSITE ANNUAL ACCRUAL RATE, PERCENT .. 2.96

ATCO Electric
YUKON

October 24, 2023 AEY-YUB-2-006

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-006

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 16, 52 and 138

Issue: Depreciation expense — Account 333.00 — Hydro generation plant — Water wheels, turbines, and generators

Quote: AEY has incurred almost $97,000 in cost of removal in this account between 2019-2022. The historical net salvage activity shows a range from negative nine percent to negative 13 percent.

Request:

(a) Please confirm that PDF page 138 shows cost of removal of approximately $15,000 for Account 333.00 — Hydro generation plant — Water wheels, turbines, and generators between 2019-2022.

(b) Please confirm there were no asset retirements or NS costs prior to 2019 for Account 333.00 — Hydro generation plant — Water wheels, turbines, and generators. If not confirmed, please explain the range of dates used in the net salvage study (2019-2022) and why the net salvage costs total $15,446 as opposed to $97,000.

Response:

(a) Confirmed.

(b) AEY notes that in preparation of these responses AEY identified a classification issue for retirements within the Hydro Generation asset accounts, please refer to AEY's response to AEY-YUB-2-004(b) for additional details. With regards to the salvage costs, the following response was prepared by Concentric:

The correct net salvage costs for this account are $15,446, as shown on page 7-4 of the Depreciation Study (PDF p. 138). The quote on PDF p. 16, should read “AEY has incurred approximately $15,000 in cost of removal in this account between 2019-2022.”

October 24, 2023 AEY-YUB-2-007

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-007

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 139

Issue: Depreciation expense — Account 334.00 — Hydro generation plant — Accessory electric equipment;

Depreciation expense — Account 335.00 — Hydro generation plant — Miscellaneous power plant equipment

Preamble: The Board observes that there was no written analysis provided for these two accounts in the Depreciation Study Report, as identified above.

Request:

(a) Please provide an explanation for the proposed change in life-curve for Account 334.00 — Hydro generation plant — Accessory electric equipment from the currently approved 45-R3 to the proposed 40-R2.5.

(b) Please provide an explanation for the proposed change in life-curve for Account 335.00 — Hydro generation plant — Miscellaneous power plant equipment from the currently approved 30-R2 to the proposed 51-R4.

(c) Please confirm that there were no asset retirements or net salvage costs prior to 2019 for Account 335.00 — Hydro generation plant — Miscellaneous power plant equipment. If not confirmed, please explain the range of dates used in the net salvage study (2019-2022).

Response:

(a) The following response was prepared by Concentric:

The life-curve for this account was changed due to aligning the life more closely with the comparable peers, the expected future retirement pattern for the assets in this account, and Concentric's expertise and industry knowledge.

(b) The following response was prepared by Concentric:

In the table on pages 2-3 to 2-4 (PDF pp. 8 to 9) of the current Depreciation Study, Account 335 was mapped to Account 425, which had a currently approved life and curve of 85-R3. When compiling this response, AEY informed Concentric that this account in fact had a currently approved life and curve of 30-R2 as it had been originally a subaccount of Account 425. Nonetheless, Concentric proposed a change to a life and curve of 51-R4 due to the better mathematical fit demonstrated through closer alignment of the experienced history of the account to the Iowa curve, the peer group studied, the expected future retirement patterns for assets in this account, and on Concentric's expertise and industry knowledge.

(c) Please refer to the response to AEY-YUB-2-004(b).

October 24, 2023 AEY-YUB-2-008

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-008

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 140

Issue: Depreciation expense — Account 341.20 — Diesel generation plant — Internal combustion structures

Request:

(a) Please confirm that there were no net salvage costs between the years 1971-2002 for Account 341.20 — Diesel generation plant— Internal combustion structures.

Response:

(a) AEY is unable to confirm if net salvage costs were recorded in relation to asset retirements during the years 1971-2002 for Account 341.20 because the accounting records from those years are unavailable.

ATCO Electric YUKON

October 24, 2023 AEY-YUB-2-009

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-009

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 18-19 and 142

Issue: Depreciation expense — Account 343.20 — Diesel generation plant — Internal combustion generators

Request:

(a) Given that the placement and experience bands for this account indicate data is available commencing in the years 1945 and 1959 respectively, please explain why retirement and net salvage data encompassing only the years 2013-2022 was used in the net salvage study for Account 343.20 — Diesel generation plant— Internal combustion generators.

(b) Please provide any other rationale for proposing a net salvage of -10 percent, which is a greater negative than AEY's peers which indicate net salvage ranging from zero to -5 percent.

Response:

The following responses were provided by Concentric:

(a) Retirement data and net salvage data for net salvage analysis for Account 343.20 was only considered from 2013-2022 as that is the only available data for which there is a material level of cost of removal or gross salvage activity within this account. Concentric views the last ten years as the most relevant for net salvage analysis, and notes that in placing no weighting on the previous years' retirements in the net salvage study, the analysis has not been affected in a material manner.

(b) As indicated in the response to part (a) above, the last ten years' worth of data is the most relevant to the net salvage study analysis and the trend has been towards

an increase in the cost of removal activity within this account. The conditions in which AEY operates also play a vital role in determining net salvage parameters, as the costs associated with removal of assets (e.g., labour, transportation) may vary greatly from what some of its peer utilities experience in the provinces and climates in which they operate. This means that although the peer analysis is important, factors such the above must be considered in the weighting of any of the specific peers which should not be considered as conclusive.

ATCO Electric YUKON

October 24, 2023 AEY-YUB-2-010

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-010

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 19 and 143

Issue: Depreciation expense — Account 345.20 — Diesel generation plant — Internal combustion accessory

Request:

(a) Given that the placement and experience bands for Account 345.20 — Diesel generation plant— Internal combustion accessory indicate data is available commencing in the years 1957 and 1960 respectively, please explain why retirement and net salvage data encompassing only the years 2013-2022 was used in the net salvage study.

(b) Please provide any other rationale for proposing a net salvage of -10 percent, which is a greater negative than AEY's peers which indicate net salvage ranging from zero to -8 percent.

Response:

The following responses were provided by Concentric:

(a) Retirement data and net salvage data for net salvage analysis for Account 343.20 was only considered from 2013-2022 as that is the only available data for which there is cost of removal or gross salvage activity within this account. In addition, Concentric views the last ten years as the most appropriate for net salvage analysis so by leaving out the previous years' retirements from the net salvage study, the analysis has not been affected in a material manner.

(b) As indicated in the response to part (a) above, only the last ten years of data was available. Over this period, the net salvage study analysis notes a steady net salvage percent of between negative 45 and negative 12 percent. The conditions in which AEY operates also play a vital role in determining net salvage parameters, as the costs of removal (e.g., labour, transportation) may vary greatly from what some of its peer utilities experience in the provinces and climates in which they operate. This means that although the peer analysis is important, factors such the above must be considered in the weighting of any of the specific peers which should not be considered as conclusive.

October 24, 2023 AEY-YUB-2-011

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-011

Reference: Attachment 1 - 2022 Depreciation Study Report, PDF pages 76-77

Issue: Depreciation expense — Account 347.20 — Diesel generation plant — Renewable energy storage

Preamble: The Board observes that there was no written analysis provided for this account in the Depreciation Study Report.

Request:

(a) Please provide an explanation of the nature of the assets in Account 347.20 — Diesel generation plant— Renewable energy storage and include all rationale relied on by Concentric supporting the proposed 25-R3 life-curve.

Response:

(a) The following response was prepared by Concentric:

The assets in Account 347.20 - Diesel generation plant - Renewable energy storage relate to a solar-connected battery storage solution connected to the Old Crow power system, which includes battery storage (BESS – Battery Energy Storge System), energy management (MGC – Micro Grid Controller), cabling, and other miscellaneous equipment.

As there are no retirement transactions recorded to this account due to it relating to new assets installed in August of 2021, Concentric relied on the information gathered from operational staff interviews, discussions with the Concentric Future of Energy Practice, and industry materials to inform the average estimated service life of the assets within the account.

The estimated service lives throughout the industry vary based on usage, maintenance practices and warranty periods, with ages ranging from 10- to 20-years. AEY currently has a 20-year agreement with IPP Solar to own and operate the battery storage component of the renewable generation solution. The batteries within the solution may require either full or partial replacement over the next 10- to 15-years; however, the conductor, storage assets, and other miscellaneous equipment is expected to have a longer service life than that of the batteries. Because this technology is new to AEY and AEY has limited experience in this field, Concentric recommended starting with a 25-year average service life for the account as a whole until more information is known about the operation of these assets in the future.

October 24, 2023 AEY-YUB-2-012

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-012

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 82

Issue: Depreciation expense — Account 360.10 — Distribution plant — Land rights

Request:

(a) Please confirm there were no asset retirements prior to the year 2022 for Account 360.10 — Distribution plant— Land rights.

Response:

(a) Confirmed; however, AEY undertakes to thoroughly review its land rights retirement processes and incorporate any changes into its next Depreciation Study.

October 24, 2023 AEY-YUB-2-013

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-013

Reference: Attachment 1 - 2022 Depreciation Study Report, PDF page 145

Issue: Depreciation expense — Account 362.00 — Distribution plant — Station equipment

Request:

(a) Please explain why no net salvage costs were recorded in relation to asset retirements during the years 1985-1991, whereas commencing in the year 2018, net salvage costs for the related asset retirements have been recorded for Account 362.00 — Distribution plant— Station equipment.

Response:

(a) AEY is unable to explain why no net salvage costs were recorded in relation to asset retirements during the years 1985-1991 for Account 362.00 because the accounting records from those years are unavailable. The years 2018 to 2022 have removal costs associated with Distribution plant station equipment, which includes removal of voltage regulators, batteries, breakers, switches and transformers.

ATCO Electric
YUKON

October 24, 2023 AEY-YUB-2-014

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-014

Reference: Attachment 1 - 2022 Depreciation Study Report, PDF pages 9 and 33

Issue: Depreciation expense — Account 362.10 — Distribution plant — System communication and control

Preamble: The Board observes that there was no written analysis provided for this account in the Depreciation Study Report.

Request:

(a) Please explain why Account 362.10 — System communication and control appears to have been classified from a General Plant grouping (previously identified as Account 486.00 - Communication Equipment) to a Distribution Plant grouping in the current application.

(b) Please provide support for the assumption that the same 15-SQ life-curve is applicable irrespective of whether the account and the assets accounted for therein, is under a Distribution plant or General plant grouping.

(c) Please provide detail supporting the negative net salvage amount of $251.01 incurred in 2022 for this account. Please include supporting documentation such as an invoice or similar substantiation.

(d) Please explain how net salvage costs (estimated by Concentric to be -10 percent) will be treated for Account 362.10 — System Communication and Control which is a square curve account falling under AEY's amortization accounting.

Response:

(a-b) The assets within this account have not changed since the last Depreciation Study. However, after a review of the Uniform System of Accounts, AEY noted the function of these assets, primarily system control, fit better as Distribution accounts

rather than in the general plant section. This reclassification does not impact the characteristics or utilization of the assets. AEY's operational staff still view the 15-SQ as a reasonable life estimate for this equipment.

(c) Please refer to the table below:

Table 1: Breakdown of $251.01 – Cost of Removal

Project Name	**Old Crow Scada Router**
Total Cost of Project	$2,510.12
Removal Percentage	10%
Removal Cost	**$251.01**

The negative net salvage amount represents the costs of removal, which have been accounted for in the project noted in the table. As explained in the response to AEY-YUB-2-001(f), AEY uses a percentage of the total project costs to determine the removal costs. In this case, the removal percentage was 10 percent. Please note, the percentage is not applied transaction by transaction, but it takes the total of applicable capital tasks and then applies the percentage. There is not one invoice that would show the amounts noted in this response. For this project, most of the removal costs are related to internal labour.

(d) The following response was prepared by Concentric:

Account 362.10 is the only non-general plant account following amortization accounting. In these circumstances, the net salvage is treated in the same manner as in generation and distribution accounts that are depreciated in accordance with group accounting practices. As such, Account 362.10 will be depreciated to 100 percent of the original cost, giving recognition to the negative 10 percent estimated net salvage requirement.

ATCO Electric
YUKON

October 24, 2023 AEY-YUB-2-015

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-015

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 21-25, 33-34 and 147-151

Issue: Depreciation expense — Distribution plant:

Account 364.00 — Poles, towers, and fixtures;
Account 365.00 — Overhead conductors and devices;
Account 365.10 — Overhead services;
Account 367.00 — Underground conductor and devices; and
Account 367.10 — Underground services

Request:

(a) Please provide an explanation for the trend toward longer service lives for the referenced distribution plant accounts. For example, does AEY have an ongoing maintenance program that the longer lives can be attributed to, or is there some other factor? Please explain fully.

(b) For Account 364.00 — Distribution plant — Poles, towers, and fixtures, please provide any other rationale for proposing a net salvage of -50 percent, which is a greater negative than AEY's peers which indicate net salvage ranging from zero to -40 percent.

(c) For Account 365.10 — Distribution plant — Overhead services, please provide any other rationale for proposing a net salvage of -10 percent, which is a greater negative than AEY's peers which indicate net salvage ranging from zero to -8 percent.

(d) For Account 367.00 — Distribution plant — Underground conductor and devices, please provide any other rationale for proposing a net salvage of -25 percent, which is a greater negative than AEY's peers which indicate net salvage ranging from zero to -10 percent.

(e) Referring to PDF pages 147-150 respectively for Account 364.00 — Distribution plant — Poles, towers, and fixtures, Account 365.00 — Distribution plant —

Overhead conductors and devices, Account 365.10 — Distribution plant — Overhead services and Account 367.00 — Distribution plant — Underground conductor and devices, please explain why there has been no gross salvage reported for the years 2018-2022 notwithstanding indications that the assets were salvageable in years prior to 2018.

(f) Referring to PDF page 151, for Account 367.10 — Distribution plant — Underground services, please explain the absence of net salvage costs for the years 2010-2012.

Response:

(a) AEY manages a robust maintenance program, including a regimented inspection and testing component. Effective monitoring of the system through line patrols, substation inspections and load modelling, in addition to frequent testing of equipment and structures, enables early detection of potential issues. Early detection allows AEY to perform targeted maintenance to prevent future failures and extend the asset life. Please refer to the table below for an overview of the maintenance program for the Distribution asset accounts:

Table 1: Distribution Plant Maintenance Program

Account	Plant	Inspections	Testing	Maintenance / Replacements
364.00	Poles, towers, and fixtures	Line Patrols	Pole testing	Pole treat – Boron rods Pole replacement as required.
365.00	Overhead conductors and devices	Line Patrols	Load modeling	Breaker maintenance Line equipment maintenance Reconductoring as required
365.10	Overhead services	Line Patrols	Load modelling – as required	Reconducting as required
367.00	Underground conductor and devices	Line Patrols / substation inspections	Load modeling / equipment testing. Cable testing	Breaker maintenance Line equipment maintenance Reconductoring as required
367.10	Underground services	Line Patrols	Load modelling – as required.	Reconducting as required

(b-d) AEY notes that the Net Salvage rate for Account 364.00 Distribution plant – poles, towers, and fixtures referred to in the Depreciation Study inadvertently stated an incorrect range of 0 to -40 percent and should have a range of 0 to -65 percent as supported by the peer data attachment filed as AEY-YUB-2-003(c) Attachment 1. AEY has not engaged in a detailed review of its peer comparators' net salvage rates and, therefore, cannot comment on the costs or practices of its peers in relation to net salvage. Factors that drive AEY's salvage costs include the following:

- Certain areas of the power system have restricted access, such as cross-country/backlot pole installations.
- Wetland areas require permits.
- Extreme soil (rocky / pit run) conditions impact the removal of underground assets.
- Assets may be located in remote locations such as fly-in/ice road-accessible communities and communication tower sites.
- infrastructure may need to be relocated along Yukon Highways at the request of Yukon Government.
- Given AEY's northern location, salvage activities could be prone to adverse weather conditions.
- Yukon Contractor rates (Civil / Powerline) have risen 15 – 25 percent in recent years.

(e) Gross salvage was not reported for 2018-2022 due to a financial system upgrade in 2018, which resulted in a change in how removals were recorded. For these periods, any gross salvage proceeds were netted against the cost of removal amounts. It would be administratively burdensome to separate out these proceeds at this time. AEY notes that gross salvage is still being recorded, it is just not visible in the Depreciation Study for the 2018-2022 time period. AEY commits to change its process for recording gross salvage proceeds on a go-forward basis.

(f) Underground service retirements do not always have removals. Retirements that occurred during the years 2010 to 2012 were for abandonment of cables. These kinds of retirements do not require any cable or parts of the cable to be removed for the cable to be safely abandoned.

October 24, 2023 AEY-YUB-2-016

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-016

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 152

Issue: Depreciation expense — Account 368.00 — Distribution plant — Line transformers

Request:

(a) Please explain why there have been net salvage costs for the years 2020 and 2022 for Account 368.00 — Distribution plant— Line transformers without corresponding asset retirements.

(b) Please explain why there has been no gross salvage reported for the years 2018-2022 notwithstanding indications that the assets were salvageable in years prior to 2018.

Response:

(a) In preparation of this response, AEY has identified that certain retirements and gross salvage were inadvertently missed for the years 2020 and 2022, when calculating the parameters for this specific account. The error does not materially impact the Depreciation Study nor change Concentric's recommendation on depreciation parameters. Please refer to the table below for the updated retirement and gross salvage amounts, which will be updated in the appropriate schedules as part of the update to be provided in advance of the hearing.

Table 1: Transformer Retirements and Gross Salvage 2020 and 2022

Year	Retirement	Gross Salvage
2020	$18,891	($9,446)
2022	$107,961	-
Total	**$126,852**	**($9,446)**

In an effort to be helpful, please refer to AEY-YUB-2-016(a) Attachment 1 for a before and after of the actual and smooth survivor curves. Pages 1-4 are the original curves, and pages 5-8 include the addition of the retirements and gross salvage noted above.

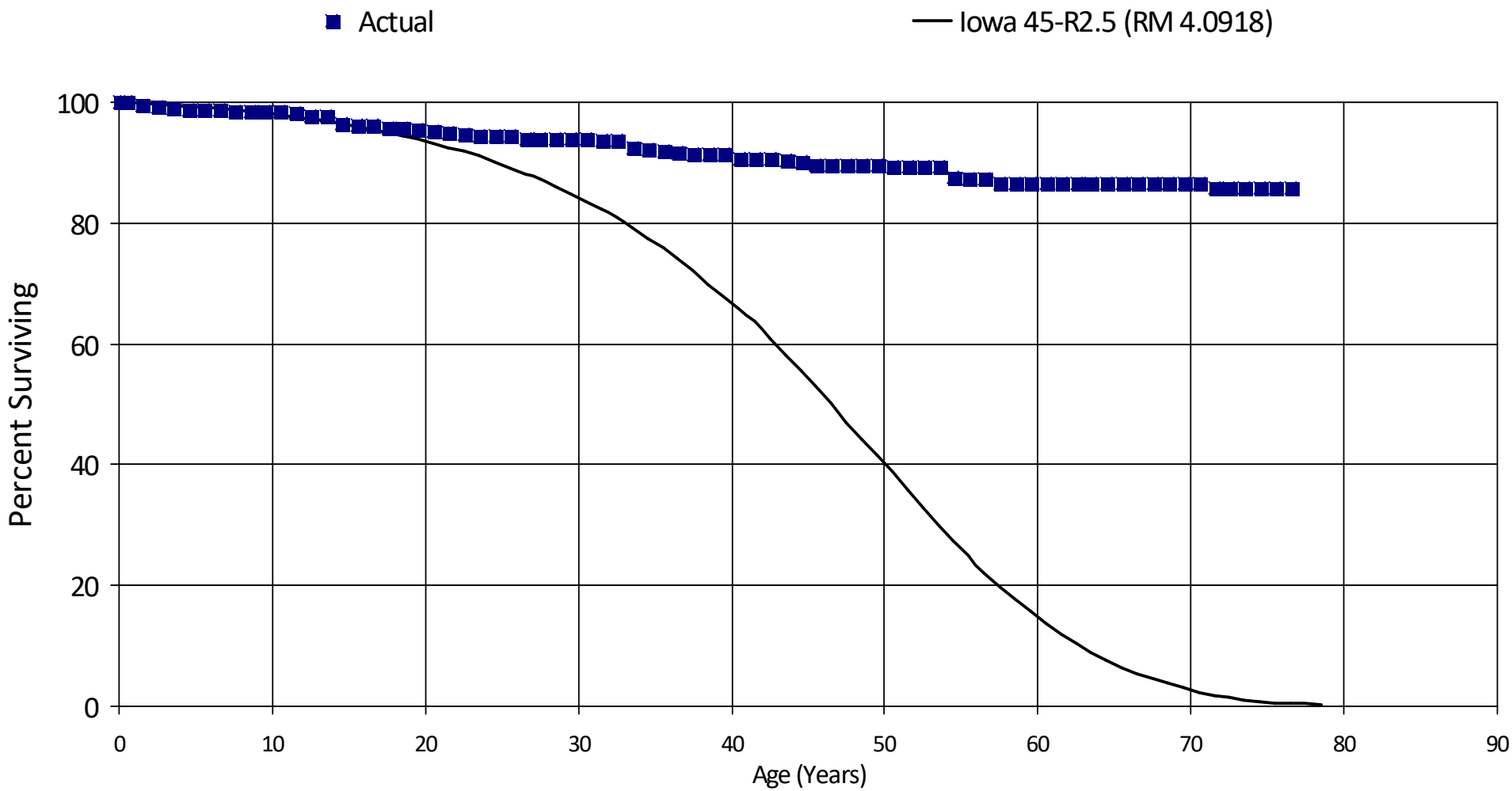
(b) Please refer to AEY's response to AEY-YUB-2-015(e).

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

Actual and Smooth Survivor Curves



ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	42,481,376	16,453	0.00039	0.99961	100.00
0.5	40,724,724	235,917	0.00579	0.99421	99.96
1.5	39,325,913	68,120	0.00173	0.99827	99.38
2.5	37,799,329	119,528	0.00316	0.99684	99.21
3.5	35,778,791	33,502	0.00094	0.99906	98.90
4.5	34,054,712	15,825	0.00046	0.99954	98.81
5.5	33,209,136	30,910	0.00093	0.99907	98.76
6.5	31,512,153	26,316	0.00084	0.99916	98.67
7.5	30,069,962	13,073	0.00043	0.99957	98.59
8.5	28,844,046	23,928	0.00083	0.99917	98.55
9.5	27,376,000	17,000	0.00062	0.99938	98.47
10.5	25,149,586	23,299	0.00093	0.99907	98.41
11.5	23,337,913	126,515	0.00542	0.99458	98.32
12.5	21,798,103	10,249	0.00047	0.99953	97.79
13.5	20,072,205	282,874	0.01409	0.98591	97.74
14.5	17,842,018	24,232	0.00136	0.99864	96.36
15.5	16,231,430	16,276	0.00100	0.99900	96.23
16.5	14,737,246	51,508	0.00350	0.99650	96.13
17.5	13,299,330	21,390	0.00161	0.99839	95.79
18.5	12,203,874	25,865	0.00212	0.99788	95.64
19.5	11,437,897	27,263	0.00238	0.99762	95.44
20.5	10,873,232	42,314	0.00389	0.99611	95.21
21.5	10,373,620	23,456	0.00226	0.99774	94.84
22.5	10,028,589	11,096	0.00111	0.99889	94.63
23.5	9,656,041	7,163	0.00074	0.99926	94.52
24.5	9,154,820	5,176	0.00057	0.99943	94.45
25.5	8,696,838	36,969	0.00425	0.99575	94.40
26.5	8,006,875	2,829	0.00035	0.99965	94.00

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

27.5	7,535,731	4,155	0.00055	0.99945	93.97
28.5	7,028,239	2,598	0.00037	0.99963	93.92
29.5	6,085,068	1,838	0.00030	0.99970	93.89
30.5	5,349,612	11,879	0.00222	0.99778	93.86
31.5	4,573,820	3,001	0.00066	0.99934	93.65
32.5	3,849,475	53,407	0.01387	0.98613	93.59
33.5	3,312,509	5,799	0.00175	0.99825	92.29
34.5	3,002,484	10,508	0.00350	0.99650	92.13
35.5	2,487,850	4,560	0.00183	0.99817	91.81
36.5	2,281,090	3,631	0.00159	0.99841	91.64
37.5	2,079,999	1,711	0.00082	0.99918	91.49
38.5	2,021,005	2,574	0.00127	0.99873	91.41
39.5	1,954,791	12,348	0.00632	0.99368	91.29
40.5	1,818,630	2,243	0.00123	0.99877	90.71
41.5	1,635,253	1,678	0.00103	0.99897	90.60
42.5	1,445,831	2,990	0.00207	0.99793	90.51
43.5	1,253,861	2,261	0.00180	0.99820	90.32
44.5	1,117,998	5,651	0.00505	0.99495	90.16
45.5	1,019,439	644	0.00063	0.99937	89.70
46.5	948,660	763	0.00080	0.99920	89.64
47.5	843,854	344	0.00041	0.99959	89.57
48.5	776,225	223	0.00029	0.99971	89.53
49.5	710,198	1,150	0.00162	0.99838	89.50
50.5	633,134	0	0.00000	1.00000	89.36
51.5	566,009	185	0.00033	0.99967	89.36
52.5	520,297	0	0.00000	1.00000	89.33
53.5	483,804	9,005	0.01861	0.98139	89.33
54.5	297,727	1,573	0.00528	0.99472	87.67
55.5	234,241	21	0.00009	0.99991	87.21
56.5	197,630	1,343	0.00680	0.99320	87.20
57.5	182,560	0	0.00000	1.00000	86.61

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

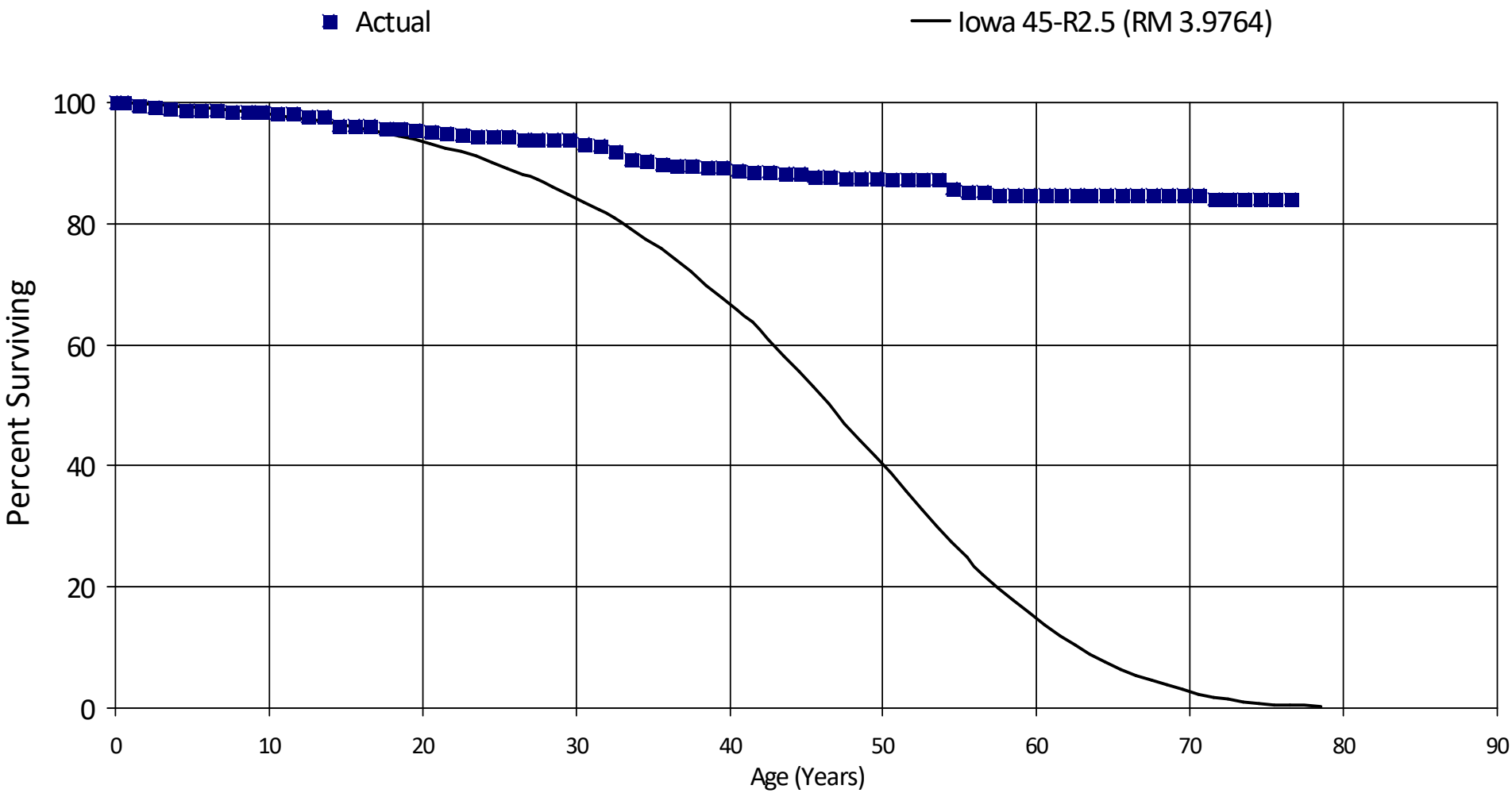
58.5	175,565	0	0.00000	1.00000	86.61
59.5	151,035	0	0.00000	1.00000	86.61
60.5	141,599	67	0.00047	0.99953	86.61
61.5	130,709	0	0.00000	1.00000	86.57
62.5	93,693	0	0.00000	1.00000	86.57
63.5	74,967	0	0.00000	1.00000	86.57
64.5	72,712	0	0.00000	1.00000	86.57
65.5	72,712	0	0.00000	1.00000	86.57
66.5	68,983	0	0.00000	1.00000	86.57
67.5	47,657	0	0.00000	1.00000	86.57
68.5	42,204	0	0.00000	1.00000	86.57
69.5	39,446	0	0.00000	1.00000	86.57
70.5	18,546	163	0.00879	0.99121	86.57
71.5	2,952	0	0.00000	1.00000	85.81
72.5	2,923	0	0.00000	1.00000	85.81
73.5	2,923	0	0.00000	1.00000	85.81
74.5	1,306	0	0.00000	1.00000	85.81
75.5	63	0	0.00000	1.00000	85.81
76.5	0	0	0.00000	0.00000	85.81
	Totals:	1,487,359			

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

Actual and Smooth Survivor Curves



ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	42,608,228	16,453	0.00039	0.99961	100.00
0.5	40,851,576	235,917	0.00577	0.99423	99.96
1.5	39,452,765	68,120	0.00173	0.99827	99.38
2.5	37,926,181	119,528	0.00315	0.99685	99.21
3.5	35,905,643	33,502	0.00093	0.99907	98.90
4.5	34,181,564	15,825	0.00046	0.99954	98.81
5.5	33,335,988	49,801	0.00149	0.99851	98.76
6.5	31,620,115	26,316	0.00083	0.99917	98.61
7.5	30,177,924	13,073	0.00043	0.99957	98.53
8.5	28,952,008	23,928	0.00083	0.99917	98.49
9.5	27,483,961	17,000	0.00062	0.99938	98.41
10.5	25,257,547	23,299	0.00092	0.99908	98.35
11.5	23,445,874	126,515	0.00540	0.99460	98.26
12.5	21,906,064	10,249	0.00047	0.99953	97.73
13.5	20,180,167	282,874	0.01402	0.98598	97.68
14.5	17,949,980	24,232	0.00135	0.99865	96.31
15.5	16,339,391	16,276	0.00100	0.99900	96.18
16.5	14,845,207	51,508	0.00347	0.99653	96.08
17.5	13,407,291	21,390	0.00160	0.99840	95.75
18.5	12,311,836	25,865	0.00210	0.99790	95.60
19.5	11,545,858	27,263	0.00236	0.99764	95.40
20.5	10,981,193	42,314	0.00385	0.99615	95.17
21.5	10,481,581	23,456	0.00224	0.99776	94.80
22.5	10,136,551	11,096	0.00109	0.99891	94.59
23.5	9,764,003	7,163	0.00073	0.99927	94.49
24.5	9,262,782	5,176	0.00056	0.99944	94.42
25.5	8,804,800	36,969	0.00420	0.99580	94.37
26.5	8,114,836	2,829	0.00035	0.99965	93.97

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

27.5	7,643,693	4,155	0.00054	0.99946	93.94
28.5	7,136,201	2,598	0.00036	0.99964	93.89
29.5	6,193,030	51,479	0.00831	0.99169	93.86
30.5	5,407,932	11,879	0.00220	0.99780	93.08
31.5	4,632,140	51,133	0.01104	0.98896	92.88
32.5	3,859,663	53,407	0.01384	0.98616	91.85
33.5	3,322,697	5,799	0.00175	0.99825	90.58
34.5	3,012,672	20,697	0.00687	0.99313	90.42
35.5	2,487,850	4,560	0.00183	0.99817	89.80
36.5	2,281,090	3,631	0.00159	0.99841	89.64
37.5	2,079,999	1,711	0.00082	0.99918	89.50
38.5	2,021,005	2,574	0.00127	0.99873	89.43
39.5	1,954,791	12,348	0.00632	0.99368	89.32
40.5	1,818,630	2,243	0.00123	0.99877	88.76
41.5	1,635,253	1,678	0.00103	0.99897	88.65
42.5	1,445,831	2,990	0.00207	0.99793	88.56
43.5	1,253,861	2,261	0.00180	0.99820	88.38
44.5	1,117,998	5,651	0.00505	0.99495	88.22
45.5	1,019,439	644	0.00063	0.99937	87.77
46.5	948,660	763	0.00080	0.99920	87.71
47.5	843,854	344	0.00041	0.99959	87.64
48.5	776,225	223	0.00029	0.99971	87.60
49.5	710,198	1,150	0.00162	0.99838	87.57
50.5	633,134	0	0.00000	1.00000	87.43
51.5	566,009	185	0.00033	0.99967	87.43
52.5	520,297	0	0.00000	1.00000	87.40
53.5	483,804	9,005	0.01861	0.98139	87.40
54.5	297,727	1,573	0.00528	0.99472	85.77
55.5	234,241	21	0.00009	0.99991	85.32
56.5	197,630	1,343	0.00680	0.99320	85.31
57.5	182,560	0	0.00000	1.00000	84.73

ATCO Electric Yukon

Account 368.00 - Line Transformers

Placement Band - 1945 - 2022 Experience Band - 1960 - 2022

58.5	175,565	0	0.00000	1.00000	84.73
59.5	151,035	0	0.00000	1.00000	84.73
60.5	141,599	67	0.00047	0.99953	84.73
61.5	130,709	0	0.00000	1.00000	84.69
62.5	93,693	0	0.00000	1.00000	84.69
63.5	74,967	0	0.00000	1.00000	84.69
64.5	72,712	0	0.00000	1.00000	84.69
65.5	72,712	0	0.00000	1.00000	84.69
66.5	68,983	0	0.00000	1.00000	84.69
67.5	47,657	0	0.00000	1.00000	84.69
68.5	42,204	0	0.00000	1.00000	84.69
69.5	39,446	0	0.00000	1.00000	84.69
70.5	18,546	163	0.00879	0.99121	84.69
71.5	2,952	0	0.00000	1.00000	83.95
72.5	2,923	0	0.00000	1.00000	83.95
73.5	2,923	0	0.00000	1.00000	83.95
74.5	1,306	0	0.00000	1.00000	83.95
75.5	63	0	0.00000	1.00000	83.95
76.5	0	0	0.00000	0.00000	83.95
	Totals:	1,614,212			

October 24, 2023 AEY-YUB-2-017

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-017

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 26 and 153

Issue: Depreciation expense — Account 370.00 — Distribution plant — Conventional meters

Request:

(a) Please identify the types of net salvage costs being incurred for Account 370.00 — Distribution plant— Conventional meters.

(b) Please provide any other rationale for proposing a net salvage of -5 percent, which is a greater negative than AEY's peer comparators which indicate net salvage of zero percent.

Response:

(a) Net salvage cost incurred for Account 370.00 would include a portion of the labour and travel associated with meter replacements as well as shipping and handling, disposal and recycling costs. Please refer to the response to AEY-YUB-2-001(f) for an explanation of how net salvage costs are recorded.

(b) AEY has not engaged in a detailed review of its peer comparators' net salvage rates and; therefore, cannot comment specifically on other utilities' rationale for using a net salvage rate of zero percent in comparison to AEY.

October 24, 2023 AEY-YUB-2-018

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-018

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 154

Issue: Depreciation expense — Account 371.00 — Distribution plant — AMR meters

Request:

(a) Please identify the types of net salvage costs being incurred for the retirement of assets in Account 371.00 — Distribution plant— AMR meters for the years 2021 and 2022.

Response:

(a) Net salvage costs for AMR meters are similar to that of Account 370.00 - Conventional meters. Please refer to the response to AEY-YUB-2-017(a) for net salvage cost types.

ATCO Electric YUKON

October 24, 2023 AEY-YUB-2-019

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-019

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF pages 27, 116 and 155

Issue: Depreciation expense — Account 371.00 — Distribution plant — Street lights

Request:

(a) Please provide any other rationale for proposing an average service life of 30 years for Account 371.00 — Distribution plant— Street lights, which is shorter than AEY's peers which indicate a minimum average service life of 40 years and maximum average service life of 50 years.

(b) Please add smooth curves for an Iowa 40-R3 and Iowa 50-R3 to the Actual and Smooth Survivor Curve plot for this account (PDF page 116).

(c) Please explain why there has been no gross salvage reported for the years 2016-2022 notwithstanding indications the assets were salvageable in years prior to 2016.

Response:

(a) The following response has been prepared by Concentric:

Concentric notes that the peer review that was performed for the purposes of completing AEY's Depreciation Study provides some information to be considered in the determination of average service and net salvage estimates. However, the peer review is not a conclusive determinant of the depreciation estimates, meaning that there are other variables that will lead to different life and net salvage recommendations than what is in the peer range studied. In this case, this account has long retirement experience, but those retirements are still being experienced

at the same ages of plant that they were in the last study. There are few retirements that have stretched out farther but the retirement ratios for these ages are not material. As the currently approved life for this account is at 30-years, Concentric views that there is no reason to change this account's life just to be more aligned with the peer group for this account.

(b) Please refer to AEY-YUB-2-019(b) Attachment 1 for the Iowa 40-R3 and Iowa 50-R3 added to the actuarial analysis for this account.

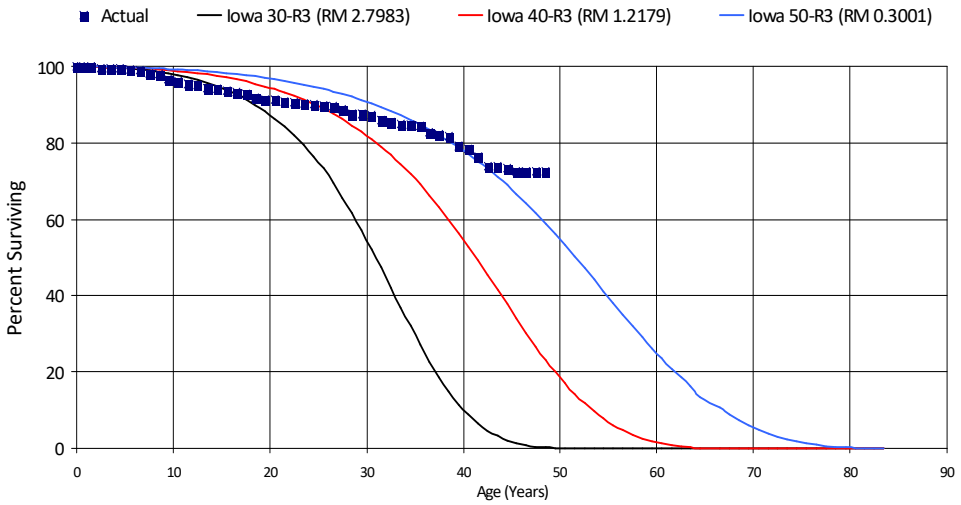
(c) There was no gross salvage reported in 2016 and 2017 since the assets could not be salvaged and were scrapped. It can be noted that this has occurred in prior years as well, namely 2012 and 2013. Please refer to the response to AEY-YUB-2-015(e), for an explanation for 2018 to 2022.

ATCO Electric Yukon

Account 373.00 - Street Lights

Placement Band - 1957 - 2022 Experience Band - 1958 - 2022

Actual and Smooth Survivor Curves



ATCO Electric Yukon

Account 373.00 - Street Lights

Placement Band - 1957 - 2022 Experience Band - 1958 - 2022

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	14,745,030	1,271	0.00009	0.99991	100.00
0.5	14,511,333	13,001	0.00090	0.99910	99.99
1.5	14,118,032	40,841	0.00289	0.99711	99.90
2.5	13,278,452	21,610	0.00163	0.99837	99.61
3.5	12,383,716	9,632	0.00078	0.99922	99.45
4.5	11,912,464	30,382	0.00255	0.99745	99.37
5.5	11,434,648	29,496	0.00258	0.99742	99.12
6.5	11,034,700	57,751	0.00523	0.99477	98.86
7.5	10,728,735	34,627	0.00323	0.99677	98.34
8.5	10,560,238	138,033	0.01307	0.98693	98.02
9.5	10,101,028	60,507	0.00599	0.99401	96.74
10.5	9,525,536	72,572	0.00762	0.99238	96.16
11.5	8,993,572	23,390	0.00260	0.99740	95.43
12.5	8,784,056	59,898	0.00682	0.99318	95.18
13.5	8,146,708	22,418	0.00275	0.99725	94.53
14.5	7,907,787	51,353	0.00649	0.99351	94.27
15.5	7,346,898	17,568	0.00239	0.99761	93.66
16.5	6,532,043	35,730	0.00547	0.99453	93.44
17.5	6,391,384	70,313	0.01100	0.98900	92.93
18.5	5,816,344	32,648	0.00561	0.99439	91.91
19.5	5,195,502	5,660	0.00109	0.99891	91.39
20.5	4,995,085	25,298	0.00506	0.99494	91.29
21.5	4,613,474	10,664	0.00231	0.99769	90.83
22.5	4,395,504	12,509	0.00285	0.99715	90.62
23.5	4,133,243	14,538	0.00352	0.99648	90.36
24.5	3,906,330	8,352	0.00214	0.99786	90.04
25.5	3,487,281	11,841	0.00340	0.99660	89.85
26.5	3,368,217	22,551	0.00670	0.99330	89.54

ATCO Electric Yukon

Account 373.00 - Street Lights

Placement Band - 1957 - 2022 Experience Band - 1958 - 2022

27.5	3,041,454	42,970	0.01413	0.98587	88.94
28.5	2,762,185	3,780	0.00137	0.99863	87.68
29.5	2,411,202	4,298	0.00178	0.99822	87.56
30.5	2,319,637	38,977	0.01680	0.98320	87.40
31.5	2,132,105	7,226	0.00339	0.99661	85.93
32.5	1,861,227	13,032	0.00700	0.99300	85.64
33.5	1,275,432	3,210	0.00252	0.99748	85.04
34.5	1,062,259	5,277	0.00497	0.99503	84.83
35.5	927,406	17,285	0.01864	0.98136	84.41
36.5	569,916	3,501	0.00614	0.99386	82.84
37.5	537,591	3,875	0.00721	0.99279	82.33
38.5	440,062	13,514	0.03071	0.96929	81.74
39.5	312,560	2,942	0.00941	0.99059	79.23
40.5	240,533	6,728	0.02797	0.97203	78.48
41.5	206,030	6,320	0.03068	0.96932	76.28
42.5	69,720	0	0.00000	1.00000	73.94
43.5	60,201	570	0.00947	0.99053	73.94
44.5	38,597	383	0.00992	0.99008	73.24
45.5	2,440	0	0.00000	1.00000	72.51
46.5	2,440	0	0.00000	1.00000	72.51
47.5	2,210	0	0.00000	1.00000	72.51
48.5	0	0	0.00000	0.00000	72.51
	Totals:	1,108,342			

October 24, 2023 AEY-YUB-2-020

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-020

Reference: Attachment 1 — 2022 Depreciation Study Report, PDF page 34

Issue: Depreciation expense — General plant:
Account 391.10 — Computer Hardware & voice and data network, 5-SQ; and
Account 391.22 — Computer software and application major (10 YR), 10-SQ

Preamble: In the prior Depreciation Study, it appears that AEY held two computer-related accounts within its General plant category: Account 483.20 — Computer Hardware/Software (5-SQ) and Account 496.00 — Software (10-S3). Although no information was provided in the current Depreciation Study, it appears that AEY has reclassified these accounts and renumbered and renamed them as follows:

Account 391.10 — Computer hardware & voice and data network, 5-SQ

Account 391.22 — Computer software and application major (10 YR), 10-SQ

Request:

(a) Please provide an explanation of whether and how the assets previously held in Account 483.20 — Computer Hardware/Software and Account 496.00 — Software have been reclassified or re-categorized into the new accounts noted above.

(b) Please provide peer statistics for service life for equivalent accounts as they are now proposed as Account 391.10 — Computer hardware & voice and data network, 5-SQ and Account 391.22 — Computer software and application major (10 YR), 10-SQ.

Response:

(a) In 2018, ATCO upgraded to a new version of Oracle, and AEY took the opportunity to align these account names and functionality with those of the other ATCO Utilities. This reduces administrative burden and has no impact aside from naming conventions from the previous methodology. Account 483.20 was simply renamed Account 391.10 - Computer Hardware & Voice and Data Network. Similarly, Account 496.00 was renamed 391.22 - Computer Software and Application Major and includes AEY's customer billing system.

(b) The following response was prepared by Concentric.

Please refer to AEY-YUB-2-003(c) Attachment 1 for the peer review statistics that Concentric utilized as part of the completion of the AEY Depreciation Study.

October 24, 2023 AEY-YUB-2-021

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-021

Reference: Attachment 1 - 2022 Depreciation Study Report, PDF page 34

Issue: Depreciation expense — General Plant — Transportation equipment:
Account 392.20 — Fleet, Category 2;
Account 392.30 — Fleet, Category 3; and
Account 392.40 — Fleet, Category 4

Preamble: In the prior Depreciation Study, it appears that AEY held a single Account 484.00 for all Transportation Equipment, Fleet Vehicles that was subject to a 12-L0 service life, Iowa Curve (life-curve) parameter. Although no information was provided in the current Depreciation Study, it appears AEY has separated the single Account 484.00 into three subcategories and renumbered and renamed them as follows:

Account 392.20 — Transportation Equipment, Fleet, Category 2, 12-L3, +10% NS

Account 392.30 — Transportation Equipment, Fleet, Category 3, 15-L3, 0% NS

Account 392.40 — Transportation Equipment, Fleet, Category 4, 12-L0, 0% NS

Request:

(a) Please provide information supporting the reclassification of (previously used) Account 484 into three subcategories as noted above. Please include in the response details of the types of assets in each of the three categories and why the service lives are proposed to change for each category from the approved 12-L0 life-curve.

(b) Please explain why only Account 392.20 shows a proposed positive 10 percent net salvage (+10% NS) (i.e., gross salvage) whereas Account 392.30 and Account 392.40 do not appear to provide for expected positive net salvage.

(c) Please provide peer statistics for both service life and net salvage percentages for equivalent accounts.

Response:

(a) Account 484 previously encompassed all of AEY's fleet. In 2018, ATCO transitioned to an upgraded version of Oracle, and AEY took the opportunity to split its vehicle accounts into more homogenous categories so the life and net salvage characteristics of equipment could be better aligned, consistent with the practice of other ATCO Utilities. Account 392.20 consists of equipment, including three-quarter to two-ton trucks, Suburbans and Utility Trailers. Account 392.30 consists of heavier equipment, including Digger trucks, Forklifts and Hotline trucks. Account 392.40 consists of equipment such as a lowboy trailer and ski dozer.

The following response was provided by Concentric:

The service lives for Accounts 392.20 and 392.40 have not changed from the previous recommendation. However, the mode of the curve has changed for Account 392.20. The change in mode was made to better align with the experienced retirements seen in this account, as seen in the lower residual measure of the 12-L3 as compared with the 12-L0 (0.3439 and 0.8101 respectively).

The one service life recommendation that did change was for Account 392.30. This change was made with consideration to AEY's policy regarding these assets, peer utilities that have similar assets in the same account, and the actual retirement experience, which as mentioned below, is on a replacement basis and is longer than the other categories of vehicles. The change was made to a 15-L3 with

moderation and gradualism applied, as the historical data indicated that up to a 20-year average service life may be reasonable for this account.

(b) Category 2 equipment are standard vehicles that are used daily, replaced more frequently and sold once they no longer meet AEY's performance standards. This category makes up the majority of the AEY transportation fleet. Equipment is at various stages of service life. Category 3 and 4 equipment is used less frequently or seasonally and replaced at longer intervals than Category 2. Units in this category are disposed of when they have reached the end of their service life. This equipment may or may not be usable.

(c) Please refer to AEY-YUB-2-003(c) Attachment 1 for the requested peer statistics.

October 24, 2023 AEY-YUB-2-022

ATCO Electric Yukon (AEY)
2023-2024 General Rate Application (GRA)

Information Responses Round 2 (Depreciation) to:
The Yukon Utilities Board (YUB)
Received: October 10, 2023

AEY-YUB-2-022

Reference: Attachment 1 - 2022 Depreciation Study Report, PDF pages 198, 203 and 208-209

Issue: Depreciation expense — fully amortized assets remaining in service

Request:

(a) Referring to Section 8 of the Depreciation Study, please confirm that assets for which original costs are indicated in combination with a calculated accumulated depreciation factor of 1.000 remain in service as used and useful utility assets. For example, please refer to Account 370.00 — Distribution plant— Conventional meters and Account 373.10 — Distribution plant— Sentinel lights.

(b) Referring to Section 8 of the Depreciation Study, please explain why Account 391.10 — General plant — Computer hardware & voice and data network and Account 391.22 — General plant — Computer software and application major (10-SQ) have assets with vintages of 2017 and 2012 respectively remaining in service. Please include in the explanation how having fully depreciated assets in these accounts accords with AEY's application of amortization accounting and the use of SQ curves.

Response:

(a) The following response was prepared by Concentric:

Confirmed.

(b) The following response was prepared by Concentric:

As part of the 2022 Depreciation Study, AEY had instructed Concentric to remove balances beyond the amortization period for Account 362.10, as this account is an amortized account and should not have any balances older than the amortization

period of 15-years. Upon completion of the study, a number of amortized accounts were identified that should have been similarly adjusted, including Accounts 391.10 and 391.22, noted by the Commission. Generally, if it is the Company's policy to retire assets at the end of amortization period for square curve accounts rather than at the end of their useful lives, and there are asset balances in years older than the amortization period, adjustments should be made to the data (as well as in AEY's ledgers) to remove those balances in order to calculate the correct depreciation rate for the amortized account. The table below details the accounts that were adjusted as part of this response.

Table 1: Revised Depreciation Rates

Account	Depreciation Parameter	Retirement Amount	Previous Rate	New Rate
391.00 - Office Furniture and Equipment	15-SQ	10,018	6.43%	6.67%
391.10 - Computer Hardware & Voice and Data Network Equipment	5-SQ	14,801	16.08%	20.00%
391.22 - Computer Software and Applications Major (10 YR)	10-SQ	143,627	8.44%	10.00%
394.00 - Tools, Shop, Garage, Stores and Laboratory Equipment	15-SQ	48,284	6.48%	6.67%