

**YUKON ENERGY CORPORATION**

**2021 General Rate Application**

**Board Order 2022-03 – Compliance Filing**

**Revised Tables and Rates**



## 1.0 OVERVIEW

On April 14, 2022 Yukon Energy filed with the Yukon Utilities Board (“the Board” or “YUB”) 2021 General Rate Application Compliance Filing (“the Compliance Filing”) in response to Board Order 2022-03.

On May 5, 2022, the Board issued Order 2022-06 establishing a schedule regarding the remaining process steps for YEC’s 2021 GRA Compliance Filing. The Board also issued Information Requests (IRs) in Appendix A to Order 2022-06 that YEC is to respond to by May 12, 2022.

During the review of the IRs, YEC identified revisions required to the Compliance Filing, including revisions required due to the June 1, 2022 rate implementation proposed in the April 14, 2022 Compliance Filing no longer being feasible. Accordingly, YEC is filing this revised set of Compliance Filing tables and rates as well as updates to the rate implementation dates.

The following changes have been made to the Compliance Filing with overall reduction in revenue requirement by \$0.187 million compared to April 14, 2022 filing:

- **Amortization expenses** – As indicated in response to YUB-YEC-1-1 (d) and (e) for the Compliance Filing, while reviewing the Compliance Filing amortization expenses as shown in Table 1.1-2, YEC noticed that the amortization expense related to written-off DSM costs had in error not been removed from the amortization expense. This reduces the amortization expense by \$0.198 million.
- **Depreciation expenses** – As indicated in response to YUB-YEC-1-2 for the Compliance Filing this revised Compliance Filing includes accelerated depreciation to \$0.848 million transmission assets for YEC system improvements funded by VGC Group that serve VCG Group mine as per paragraph 196 in Appendix A to Board Order 2022-03. This increased the depreciation expense by \$0.064 million, including \$0.055 million accelerated depreciation and \$0.009 million depreciation true-up to collect the depreciation variances for 2019-2020 years. The details are provided in response to YUB-YEC-1-2.
- **Mid-year Rate Base** – The 2021 revenue requirement is reduced by \$0.053 million due to change in mid-year rate base to reflect the following:
  - About \$3,000 due to reduced depreciation and amortization expenses as noted above.
  - Less than \$1,000 due to change in LWRF balance. The 2021 actual diesel generation was corrected from 17.671 GWh to 18.588 GWh which resulted in change in LWRF balance by \$0.038 million [change from \$2.782 million to \$2.744 million].
  - The remaining amount is related to adjustments to the Rate Case deferral account balances, including DSM due to treatment of written-off costs.<sup>1</sup>

---

<sup>1</sup> The Regulatory deferral account includes DSM and other regulatory projects [Rate Case]. Therefore, the treatment of the written off DSM costs was impacting both DSM balances and Rate Case balances. This error has now been corrected. It is also important to note that these adjustments do not relate to DSM appeal cost that was denied by the Board and addressed in response to YUB-YEC-1-1.

The following table shows the revised revenue requirement and revenue shortfall compared to the April 14, 2022 filing [in \$000].

	April 14, 2022 Compliance Filing	Revised May 12, 2022	Change	Notes
<b>Revenue Requirement</b>				
Fuel and Purchased Power	15,882	15,882	0	
Non Fuel O&M -Labour	13,016	13,016	0	
Non Fuel O&M -Other	15,559	15,559	0	
Depreciation and Amortization	12,766	12,631	-134	Please see Table 1.1-2
			-198	Removal of amortization expenses related to written-off DSM costs [YUB-YEC-1-1]
			64	Accelerated depreciation of assets that serve VCG Group mine [YUB-YEC-1-2]
Return on Rate Base	15,656	15,603	-53	Impact of mid-year rate base change.
<b>A Total Revenue Requirement</b>	<b>72,878</b>	<b>72,692</b>	<b>-187</b>	
<b>Revenues at Existing Rates</b>				
Residential	2,384	2,384	0	
Commercial	5,388	5,388	0	
Industrial	11,481	11,481	0	
Streetlight and Sentinel Light	84	84	0	
Wholesale	28,507	28,507	0	
Secondary Sales revenues	0	0	0	
Rider J Revenues	15,887	15,887	0	
Other Revenue	369	369	0	
<b>B Total revenues at existing rates</b>	<b>64,100</b>	<b>64,099</b>	<b>0</b>	
<b>C=A-B Required GRA rate increase</b>	<b>8,779</b>	<b>8,592</b>	<b>-187</b>	

## 2.0 REVISED TABLES, RATES AND REQUESTED APPROVALS

This section provides revised tables, rates and requested approvals to the April 2022 Compliance Filing.

### 2.1 REVISED TABLES AND RATES

Key tables that are revised from the April 2022 Compliance Filing are provided and reviewed below. Compliance Filing Appendix 1.1 revised Supporting Tables are attached with adjustments as required by Appendix A of Board Order 2022-03 (tables that are not revised, or are addressed in this Section 2.1, are not included in Appendix 1.1).

Revised Tables 1.1, 1.2 and 1.3 are provided below addressing the revenue requirement and rates.

**Table 1.1:  
Summary of Changes to the Revenue Requirement and Revenues at Existing Rates (\$000)**

	Original Filing	Compliance Filing	Change	Notes and Reference to YUB Order 2022-03
<b>Revenue Requirement</b>				
Fuel and Purchased Power	15,897	15,882	-15	Please see Table 1.1-1 [§66]
Non Fuel O&M -Labour	13,310	13,016	-294	Removal cost for three vacant positions [§90]
Non Fuel O&M -Other	16,120	15,559	-562	
<i>Costs for two spare diesel units</i>			-342	[§114]
<i>Reserve for Injuries/Damages</i>			-220	[§134 and §135]
Depreciation and Amortization	13,125	12,631	-494	Please see Table 1.1-2
Return on Rate Base	16,682	15,603	-1,079	Please see Table 1.1-2
<b>A Total Revenue Requirement</b>	<b>75,135</b>	<b>72,692</b>	<b>-2,444</b>	
<b>Revenues at Existing Rates</b>				
Residential	2,384	2,384	0	
Commercial	5,388	5,388	0	
Industrial	11,535	11,481	-55	Please see Table 1.1-4a
			-119	Lower fixed charges collected
			64	Additional fixed charges to be collected for 2021
Streetlight and Sentinel Light	84	84	0	
Wholesale	28,507	28,507	0	
Secondary Sales revenues	0	0	0	
Rider J Revenues	15,897	15,887	-10	Impact of reduced RS 39 fixed charge
Other Revenue	369	369	0	
<b>B Total revenues at existing rates</b>	<b>64,164</b>	<b>64,099</b>	<b>-65</b>	
<b>C=A-B Required GRA rate increase</b>	<b>10,971</b>	<b>8,592</b>	<b>-2,379</b>	

**Table 1.2:**  
**YEC 2021 Compliance Filing Revenue Required from Rates (\$000s)**

	<u>2021</u>
Revenue Requirement (from Table 1.1)	\$72,692
Less: Other Revenues	\$369
Less: Secondary Sales	<u>\$0</u>
Revenue Required from Firm Rates	\$72,323
Less: Revenues from Firm Sales at Existing Rates (including "Fixed" component of industrial Rider F)	<u>\$63,731</u>
Firm Rate Increase Proposed	\$8,592

**Table 1.3:  
YEC 2021 GRA Compliance Filing Required Revenue Increase Calculation**

Line #			2021
1a	Consolidated Firm Retail Sales Revenues - Base Rates <sup>1</sup>	\$000	61,574
1b	Consolidated Firm Industrial Sales Revenues - Base Rates	\$000	11,481
2a	Consolidated Rider J Revenue at pre-GRA rates <sup>2</sup>	\$000	15,887
2b	AEY Rider R Revenues <sup>3</sup>	\$000	6,068
3=1+2	<b>Total Consolidated Firm Sales Revenues at existing rates</b>	<b>\$000</b>	<b>95,009</b>
4=Table 1	Retail Revenue increase required in 2021	\$000	8,592
5a=4/3	Required Rate Increase on total Consolidated Revenues	%	9.04%
5b=4/(1a+1b)	Rider J Increase Required	%	11.76%
6=3+4	<b>Total Consolidated Firm Sales Revenues with 2021 Increase</b>	<b>\$000</b>	<b>103,601</b>
7	Total Cumulative 2021 Rate Increase		9.04%
	<b>Rider J Required</b>		
8=5b	Rider J Increase Required	%	11.76%
9	Existing Rider J - non-industrial	%	22.32%
10	Existing Rider J - industrial	%	18.67%
11=8+9	Total Rider J with increases - non-industrial	%	34.08%
12=8+10	Total Rider J with increases - industrial	%	30.43%

Notes:

1. Total Consolidated Retail Revenues at existing Base Rates include revenues from YEC and AEY's residential, general service and streetlight sales.
2. Consolidated Rider J revenues at pre-2021 GRA rates include YEC's Rider J at 22.32% for firm YEC and AEY retail sales and at 18.67% for firm industrial sales based on YUB 2019-08 Order.
3. AEY Rider R Revenues at existing rates include AEY's Rider R at 8.30% for firm retail and industrial base rate sales of YEC and AEY.

The required Rider J rate increase resulting from Board Order 2022-03 for the 2021 test year (prior to consideration of interim rates and true up riders as required to address implementation of Order 2022-03) is 11.76% (see rows 5b and 8 in Table 1.3).

Order 2021-08 approved an interim refundable rate rider increase of 10.08% (Rider J) for retail firm rates and industrial firm rates for all electrical consumption on or after July 1, 2021. Order 2021-14 also approved an additional interim refundable Rider J of 9.25% (Rider J) (total interim refundable Rider J of 19.33 percentage points) for retail firm rates and industrial firm rates for all electrical consumption on or after December 1, 2021. A true-up rider is required to address the extent to which the interim refundable Rider J collected the compliance filing 2021 revenue requirement prior to the final Rider J approved for 2021 is implemented.

Table 1.1-4 is revised to include two rate implementation dates for the Board's review.

**Table 1.1-4: Determination of 2021 Revenue Shortfall True-up Rider**

Line No.	Reference	July 1, 2022	August 1, 2022
		Rate Implementation \$000	Rate Implementation \$000
<b>2021</b>			
1	2021 GRA Compliance Filing Revenue Requirement	72,691.6	72,691.6
2	2021 Revenues at pre-GRA rates	64,099.5	64,099.5
3	Revenue Shortfall/(Surplus)	8,592.1	8,592.1
<b>Interim Rider J collections</b>			
4	July 1, 2021 - December 31, 2021 Interim Rider J Collections	3,851.9	3,851.9
5	<b>Net 2021 Revenue Shortfall/(Surplus) True-up</b>	<b>4,740.2</b>	<b>4,740.2</b>
6	<b>Revenue Shortfall/(Surplus) True-up Jan - June 2022/ Jan-July 2022</b>	<b>-2,890.3</b>	<b>-3,286.1</b>
7	<b>Transfer of Rider F Adjustments</b>	<b>1,326.8</b>	<b>1,326.8</b>
8	<b>Total Net Revenue Shortfall/(Surplus) True-up</b>	<b>3,176.7</b>	<b>2,780.9</b>
<b>Consolidated Revenues at Base Rates for 24 months [July 1, 2022 - June 30, 2024/ August 1, 2022 - July 31, 2024]</b>			
9	Consolidated Non-industrial	125,649.5	125,990.6
10	Consolidated Industrial	24,015.8	24,015.8
11	<b>Total Consolidated Revenues at Base Rates</b>	<b>149,665.3</b>	<b>150,006.3</b>
12	<b>2021 and Jan-June/Jan-July 2022 Revenue Shortfall True-up Rider J1</b>	<b>2.12%</b>	<b>1.85%</b>

In order to implement the rate-related decisions from Board Order 2022-03, the following true-up adjustments are required as at that date:

- **Ongoing Rider J Adjustment** – Interim Rider J must be made final and decreased to final total cumulative rate increase of 9.04% for retail and industrial customers<sup>2</sup>, effective July 1, 2022 or August 1, 2022 (and continuing until the next General Rate Application or until such time as otherwise adjusted by the Board, e.g., at such time as Phase II matters are addressed and all riders are included in base rates). Rider J is accordingly adjusted to 34.08% for non-industrial customers and 30.43% for industrial customers.
- **Across the Board Time-limited Rider J1 Charge** – For recovery of revenue shortfall during 2021 and part of 2022 a shortfall true up rider is required. This rider is proposed to be applied for 24 months to recover shortfalls (see Table 1.1-4 for details of the Rider J1 charge determination).
  - If the final rates are implemented effective July 1, 2022 then the Rider J1 rider effective July 1, 2022 is 2.12% (timeline limited rider from July 1, 2022 to June 30, 2024).
  - If the final rates are implemented effective August 1, 2022 then the Rider J1 rider effective August 1, 2022 is 1.85% (timeline limited rider from August 1, 2022 to July 31, 2024).

Rider J1 is determined to collect the revenue shortfall that includes the following as per Table 1.1-4:

<sup>2</sup> See Table 1.3. An 11.84 percentage point Rider J increase is required over the existing Rider J in effect prior to the 2021 GRA interim refundable rates, i.e., existing Rider J of 22.32% for retail customers and 18.67% for industrial customers.

- **True Up Adjustment for 2021** – The 2021 test year is to be finalized consistent with a reduction of \$2.379 million in the required rate revenue increase (\$8.592 million required rate increase in the Compliance Filing compared to \$10.971 million as requested in the GRA Application). Interim Rider J collections over July to December 2021 were \$3.852 million resulting in a shortfall of \$4.740 million for 2021 compared to the \$8.592 million compliance filing revenue shortfall.
- **True Up Adjustment for 2022 depending on implementation date:**
  - If final rates are implemented effective July 1, 2022 then for January to June 2022 the forecast revenue surplus of \$2.890 million reflects the difference between the final Rider J in this Compliance Filing and interim Rider J approved by the Board in Orders 2021-08 and 2021-14.
  - If final rates are implemented effective August 1, 2022 then for January to July 2022 the forecast revenue surplus of \$3.286 million reflects the difference between the final Rider J in this Compliance Filing and interim Rider J approved by the Board in Orders 2021-08 and 2021-14.
- **Rider F Adjustment** – Pursuant to past practice, at each GRA the Rider F account relating to YEC is reset to zero for the Compliance Filing. All future calculations relating to Rider F will utilize the Board approved fuel prices and fuel efficiency for the 2021 test year as the base. The 2021 Rider F Adjustments (see Appendix 1.1, Table 1.1-6 of the April 14, 2022 Compliance Filing) equal the difference in fuel price forecast from actual fuel prices calculated by using the 2021 compliance filing fuel efficiency and fuel prices, as well as related variance between actual.<sup>3</sup> These adjustments provide for a \$1.327 million increase true up requirement.
- **Net true-up adjustments:**
  - If final rates are implemented effective July 1, 2022 then total true-up is \$3.177 million which requires 2.12% true-up rider for the period from July 1, 2022 to June 30, 2024.
  - If final rates are implemented effective August 1, 2022 then total true-up is \$2.781 million which requires 1.85% true-up rider for the period from August 1, 2022 to July 31, 2024.

The revised Compliance Filing Appendix 3.1 Tab 7 Schedules of the Application are attached with adjustments as required by Appendix A of Board Order 2022-03.

## 2.2 REVISED REQUESTED APPROVALS

Yukon Energy requests the following revised final approvals:

1. Approval to set an ongoing Rider J at 34.08% for retail customers and 30.43% for industrial customers, effective July 1, 2022 or August 1, 2022, applicable to all YEC and AEY firm retail and

---

<sup>3</sup> No secondary sales forecast in the 2021 GRA, therefore no secondary sales rate related adjustments are included.

industrial rates, including fixed Rider F and fixed charge payments for major industrial rates (all AEY recoveries from this rider would flow through to YEC).

2. Approval of the final fixed charge that adjusts Rate Schedule 39 Industrial Primary Fixed Charge approved on interim basis in Board Order 2022-04.
3. Approval to set a time-limited Rider J1 applicable to all YEC and AEY firm retail and industrial rates (all AEY recoveries from this rider would flow through to YEC), to collect the remaining 2021 and 2022 net revenue shortfall as well as required Rider F adjustments for 2021.
  - If the final rates are implemented effective July 1, 2022 then the Rider J1 rider effective July 1, 2022 is 2.12% (timeline limited rider from July 1, 2022 to June 30, 2024).
  - If the final rates are implemented effective August 1, 2022 then the Rider J1 rider effective August 1, 2022 is 1.85% (timeline limited rider from August 1, 2022 to July 31, 2024).
4. Approval to collect RS39 Fixed Charge true-up of \$200,810.5 required for 2021 and the first four months of 2022<sup>4</sup> from specific industrial customers, Alexco and Victoria Gold, as set out in Table 1.1-4a (Appendix 1.1 of the April 14, 2022 Compliance Filing) with recovery of \$157,976.5 from VGC Group and \$42,833.4 from Alexco. This true-up will be recovered on or before December 31, 2022 based on a payment schedule to be arranged with each customer. This true up charge will not be subject to Rider J or Rider J1 charges.
5. Approval of LWRF Term Sheet provided in the Compliance Filing to the Board on April 14, 2022 based on directions provided in Board Order 2022-03.

---

<sup>4</sup> The Board Order 2022-04 approved RS39 Fixed Charges for 2022 on interim basis effective May 1, 2022.

## **APPENDIX 1.1: REVISED SUPPORTING TABLES**



**Table 1.1-2 Revised: Adjustments to the Ratebase, Return on Ratebase and Amortization Expense**

in \$000	2021 GRA Application	YUB 2022-03 Compliance Filing	Adjustments
<b>Calculation of Rate Base</b>			
<b>Property, Plant and Equipment</b>			
2020 Year-end balance	677,309	672,467	-4,842
<b>2021 Year-end balance</b>	<b>738,663</b>	<b>728,282</b>	<b>-10,381</b>
Accumulated Amortization	198,970	198,403	-567
Construction-in-progress	37,389	40,572	3,183
Disallowed assets [reflects closed projects]	1,582	12,152	10,571
Miscellaneous reserves	5,012	7,609	2,597
<b>Total Deductions</b>	<b>242,953</b>	<b>258,737</b>	<b>15,784</b>
Deferred study costs	44,400	42,110	-2,291
<i>Less: Studies in Progress</i>	-29,972	-30,489	-517
<b>Total Additions</b>	<b>14,428</b>	<b>11,621</b>	<b>-2,807</b>
<i>Previous Year Ending Balance</i>	486,307	485,050	-1,257
<i>Current Year Ending Balance</i>	510,138	481,166	-28,972
<b>Mid-year Balance</b>	<b>498,223</b>	<b>483,108</b>	<b>-15,115</b>
<b>Rate Case</b>	<b>2,732</b>	<b>1,818</b>	<b>-914</b>
<b>Working Capital requirements</b>	<b>7,141</b>	<b>7,092</b>	<b>-49</b>
<b>Gross Mid-year Net Rate Base</b>	<b>508,096</b>	<b>492,018</b>	<b>-16,078</b>
<i>Net Mid-year Contributions</i>	185,319	182,552	-2,767
<b>Net Mid-year Net Rate Base</b>	<b>322,777</b>	<b>309,466</b>	<b>-13,311</b>
<b>Average Cost of Capital</b>	5.17%	5.04%	-0.13%
<i>Cost of debt</i>	2.81%	2.94%	0.12%
<i>ROE</i>	8.70%	8.20%	-0.50%
<b>Return on rate base</b>	<b>16,682</b>	<b>15,603</b>	<b>-1,079</b>
<i>Debt</i>	5,447	5,453	6
<i>ROE</i>	11,235	10,150	-1,085
<b>Total Return on rate base change</b>			<b>-1,079</b>
<i>Due to change of ROE and Debt cost</i>			-391
<i>Due to change in Rate base</i>			-688
<b>Net Amortization</b>	<b>13,125</b>	<b>12,631</b>	<b>-494</b>
<i>Fixed Asset Depreciation</i>	13,581	13,436	-145
<i>Customer contribution</i>	-4,461	-4,422	39
<i>Amortization of fire insurance recoveries</i>	-262	-262	0
<i>Disallowed Depreciation</i>	-204	-238	-34
<i>Amortization of deferred charges</i>	4,471	4,118	-353
<i>Rate Case</i>	767	497	-270
<i>Feasibility and Relicensing</i>	2,640	2,612	-28
<i>Dam safety</i>	93	64	-28
<i>Vegetation Management</i>	222	222	0
<i>Intangibles</i>	749	729	-20
<b>Total Impact to Revenue Requirement</b>			<b>-1,573</b>

**Table 1.1 -3a. Adjustments to the Fixed Asset Depreciation Expense [detailed]**

in \$000	2021 GRA Application	YUB 2022-03 Compliance Filing	Adjustments	Note
<b>Fixed Asset Depreciation</b>	<b>13,581</b>	<b>13,436</b>	<b>-145</b>	
<i>Hydro Plant</i>				
<i>Structures and Improvements</i>	523	488	-35	<i>Capital additions update</i>
<i>Reservoirs, Dams, and Waterways</i>	1,685	1,683	-2	<i>Capital additions update</i>
<i>Waterwheels, Turbines &amp; Generation</i>	439	310	-129	<i>Life change from 60 to 85</i>
<i>Diesel Production</i>				
<i>Accessory Electric Equipment</i>	200	209	9	<i>Capital additions update</i>
<i>Main Transmission Facilities</i>				
<i>Poles and Fixtures</i>	1,720	1,277	-443	<i>Life change from 50 to 65; Capital additions update</i>
<i>Survey Costs</i>	199	149	-50	<i>Capital additions update</i>
<i>Substation Equipment</i>	1,562	1,298	-264	<i>Life change from 45 to 54</i>
<i>Substation VGC Group - Gold Mine</i>	238	891	653	<i>Life change from 45 to 12</i>
<i>Other - VGC Group - Gold Mine</i>	16	71	55	<i>Life change from 54 to 12</i>
<i>Depreciation Study Differences</i>	-80	44	123	<i>Depreciation variance for VG Substation and other assets [\$195]</i>
<i>Sub Transmission Lines</i>				
<i>Poles and Fixtures</i>	90	67	-23	<i>Life change from 50 to 65; Capital additions update</i>
<i>Substation Equipment</i>	178	148	-30	<i>Life change from 45 to 54</i>
<i>Distribution System</i>	530	526	-4	<i>Capital additions update</i>
<i>Building and Other Equipment</i>				
<i>Building and Improvements</i>	213	191	-22	<i>Life change from 50 to 55; Capital additions update</i>
<i>Other</i>	559	549	-10	<i>Capital additions update</i>
<i>Transportation</i>	431	455	24	<i>Capital additions update</i>

**Table 1.1 -3b. VG Substation Depreciation True-up Calculation [\$195]**

in \$000	Total Cost	2019-2020 Depreciation [Assets 54 Years; Contributions 12 Years]	2019-2020 Depreciation [Assets and Contributions 12 Years]	2019-2020 Depreciation Variance	Remaining Life	Depreciation Variance Annual True-up
	A	B	C	D=C-B	E	F=D/E
<b>Substation VGC Group - Gold Mine</b>						
Capital Assets [net of \$930,563 YEC cost]	10,688.6	326.5	1,469.1	1,142.6	10.0	114.3
Contributions	10,688.6	1,469.1	1,469.1	0.0	10.0	0.0
Net Cost	0.0	-1,142.6	0.0	1,142.6		114.3
<b>Other - VGC Group - Gold Mine</b>						
Capital Assets	848.0	25.9	116.6	90.7	10.0	9.1
Contributions	848.0	116.6	116.6	0.0	10.0	0.0
Net Cost	0.0	-90.7	0.0	90.7		9.1

**Table 1.1-3 c): LWRF calculations for 2021 [based on actuals]**

Line No		2019	2020	2021	Notes
L1a	Diesel Fuel Cost per kW.h	26.333	26.333	20.507 cents/kW.h	GRA Average Fuel cost
L1b	LNG Fuel Cost per kW.h	14.668	14.668	18.136 cents/kW.h	
L1c	GRA YIS firm Load forecast	420,265	420,265	538,726 MW.h	
L1d	GRA LTA Thermal Generation forecast	16,355	16,355	85,930 MW.h	
<b>Calculation of Thermal Cost to Charge (Refund) LWRF</b>					
<i>Assumptions</i>					
L2	YEC Grid load	440,676	504,793	528,256 MW.h	Actual
L3	Fish Lake	4,964	5,034	9,843 MW.h	Actual
L4=L2+L3	Total Grid load	445,639	509,827	538,099 MW.h	
<i>Assumed Actual Generation Sources</i>					
L5	YECL Fish Lake	4,964	5,034	9,843 MW.h	Actual
L6	YEC Hydro	370,818	435,356	488,120 MW.h	assumed actual (L2-L7-L8)
L7	YEC Thermal	69,858	69,437	40,134 MW.h	Actual
	Diesel	3,793	21,723	18,588 MW.h	Actual
	LNG	66,065	47,714	21,545 MW.h	Actual
L7a	YEC Diesel/LNG charged to capital, RFID and maintenance	1,653	71	527 MW.h	Actual
L7a1	Diesel	1,482	71	466 MW.h	Actual
L7a2	LNG	171	-	61 MW.h	Actual
L7b=L7-L7a	YEC Net Diesel/LNG	68,205	69,366	39,607 MW.h	Actual
L7b1	Diesel	2,311	21,652	18,122 MW.h	Actual
L7b2	LNG	65,894	47,714	21,485 MW.h	Actual
L7b3=L7b1/L7b	Diesel % of total net thermal	3%	31%	46%	
L8	IPPs	0	0	2 MW.h	Actual
L9	Total Grid load	445,639	509,827	538,099 MW.h	
<i>LTA Expected Generation Sources</i>					
L10	AEY Fish Lake (expected)	8,391	8,391	8,730 MW.h	Note 1
L11	IPPs (expected)	0	0	2 MW.h	Note 2
L12=L9-L10-L11	YEC Grid load net of expected Fish Lake and Wind	437,248	501,436	529,367 MW.h	
L13=L12-L1c+L11	Load Variance	16,984	81,171	-9,357 MW.h	
L14	LTA Thermal Generation at Actual Load	25,300	67,443	78,306 MW.h	Estimated based on LWRF Term Sheet
L15=L7b/L14	Actual Thermal Generation as % of LTA Thermal Generation	270%	103%	51%	
L16=L14	Expected YEC Thermal Generation in Rates	25,300	67,443	78,306 MW.h	Estimated based on LWRF Term Sheet
L16a	Diesel	2,530	21,052	18,122 MW.h	Total thermal less LNG below. 90% of total thermal, subject to not exceeding total thermal less estimated diesel (when L15>100%) or actual diesel (when L15<100%).
L16b	LNG	22,770	46,391	60,184 MW.h	
L17=L7b	YEC Net Thermal Generation	68,205	69,366	39,607 MW.h	
L17a=L7b1	Diesel	2,311	21,652	18,122 MW.h	
L17a=L7b2	LNG	65,894	47,714	21,485 MW.h	
L18=L17-L15	YEC Thermal Generation to be included in LWRF	42,905	1,923	38,700 MW.h	
L18a=L17a-L16a	YEC Diesel Generation to be included in LWRF	-219	600	- MW.h	
L18b=L16b-L16a	YEC LNG Generation to be included in LWRF	43,124	1,323	38,700 MW.h	
L19=L18a+L18b	Incremental YEC Thermal Generation Cost to Charge (Refund) LWRF (\$000s)	\$6,268	\$352	(\$7,019)	

Notes:

- YEC's 2021 GRA assumed Fish Lake generation at 3.628 GWh for 2021 based on information provided by AEY at the time of preparation of the GRA application. This forecast assumed that only one unit would be available in 2021. However, in 2021 actual year both units were in service. Therefore, Fish Lake expected generation for 2021 is based on long-average generation as approved by YUB Order 2014-06.
- IPP generation as updated for YEC's 2021 GRA Compliance Filing for YUB Order 2022-03.

**Table 1.1-3 c) i): LWRF Continuity Schedule**

Line	Activity	2017 (\$000s)	2018 (\$000s)	2019 (\$000s)	2020 (\$000s)	2021 (\$000s)
A	Opening Balance <sup>1</sup>	\$9,485	\$6,709	\$3,379	(\$3,900)	(\$4,272)
B	Incremental Diesel Generation Cost to Charge/(Refund) <sup>2</sup> to LWRF	\$0	\$534	\$6,268	\$352	(\$7,019)
C=B	Total LWRF operation for YEC					
	YEC pays to LWRF	\$0	\$0	\$0	\$0	\$7,019
	YEC withdraws from LWRF	\$0	(\$534)	(\$6,268)	(\$352)	\$0
D=A+C	LWRF Balance after Annual Operation	\$9,485	\$6,176	(\$2,889)	(\$4,252)	\$2,746
E	Interest on LWRF Balance <sup>3</sup>	\$86	\$76	(\$7)	(\$20)	(\$3)
F=D+E	LWRF Balance after Interest charge	\$9,570	\$6,252	(\$2,896)	(\$4,272)	\$2,744
G	Rider E (Rebate)/Collections [January - December]	(\$2,861)	(\$2,874)	(\$1,004)	\$0	\$0
H=F+G	LWRF Ending Balance	\$6,709	\$3,379	(\$3,900)	(\$4,272)	\$2,744
I	LWRF Cap <sup>4</sup>		+/-8000	+/-8000	+/-8000	+/-16000
J	LWRF Rebate/(Collections) Required		\$0	\$0	\$0	\$0

Notes:

- Opening Balance is based on 2016 DCF ending balance as provided in DCF 2016 Annual Filing.
- 2021 is based on calculations in Table 1.1-3 c) using GRA Compliance Filing forecasts.
- Per the March 11, 1996 letter recording the settlements [provided as Exhibit B-16 in the 2008/2009 GRA] the DCF fund is to attract interest based upon the short/intermediate term bond rates in which the Companies may invest the fund and any negative balances would only attract interest at the lowest short-term borrowing rate available to the Companies through a line of credit.
- LWRF cap was increased to +/- \$16 million as per YUB Order 2022-03.

**Table 1.1-5 Yukon Energy Corporation 2021 GRA Compliance Filing: True-up calculation for Jan - June/July 2022**

	YEC Retail Revenues				YEC Industrial Revenues				AEY Retail Revenues				Total Difference
	at Base Rates	Required Rider J Increase as per Table 1.3	Calculated Interim Rider J with 19.33%	Difference	at Base Rates	Required Rider J Increase as per Table 1.3	Calculated Interim Rider J with 19.33%	Difference	AEY retail revenues at Base Rates	Required Rider J Increase as per Table 1.3	Calculated Interim Rider J with 19.33%	Difference	
	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	
<b>2022 Forecast</b>													
January	796.9	93.7	154.0 -	60.3	989.6	116.4	191.3 -	74.9	5,812.0	683.6	1,123.5 -	439.9 -	575.1
February	778.1	91.5	150.4 -	58.9	844.6	99.3	163.3 -	63.9	5,125.1	602.8	990.7 -	387.9 -	510.7
March	751.6	88.4	145.3 -	56.9	1,041.6	122.5	201.3 -	78.8	5,082.6	597.8	982.5 -	384.7 -	520.4
April	650.7	76.5	125.8 -	49.2	989.7	116.4	191.3 -	74.9	4,417.5	519.6	853.9 -	334.4 -	458.5
May	579.3	68.1	112.0 -	43.8	989.7	116.4	191.3 -	74.9	4,000.0	470.4	773.2 -	302.7 -	421.5
June	587.3	69.1	113.5 -	44.4	1,033.9	121.6	199.8 -	78.3	3,717.4	437.2	718.6 -	281.4 -	404.1
July	540.1	63.5	104.4 -	40.9	1,035.1	121.7	200.1 -	78.3	3,654.2	429.8	706.3 -	276.6 -	395.8
<b>Total Jan-June 2022</b>	<b>4,143.8</b>	<b>487.4</b>	<b>801.0 -</b>	<b>313.6</b>	<b>5,889.0</b>	<b>692.6</b>	<b>1,138.4 -</b>	<b>445.7</b>		<b>3,311.3</b>	<b>5,442.3 -</b>	<b>2,130.9 -</b>	<b>2,890.3</b>
<b>Total Jan-July 2022</b>	<b>4,683.8</b>	<b>550.9</b>	<b>905.4 -</b>	<b>354.5</b>	<b>6,924.2</b>	<b>814.4</b>	<b>1,338.4 -</b>	<b>524.1</b>		<b>3,741.1</b>	<b>6,148.6 -</b>	<b>2,407.5 -</b>	<b>3,286.1</b>

**Table 1.1-7 Yukon Energy Corporation 2021 GRA Compliance Filing: Consolidated Revenues for True-up**

	YEC Retail Non-Industrial Base Rate Revenue Forecast		YEC Industrial Base Rate Revenue Forecast					AEY retail revenues at Base Rates	Total Consolidated Base Rate Revenues
	Retail Sales	Revenues at Base Rates	Minto Sales	VG Sales	Alexco Sales	Total Industrial Sales	Revenues at Base Rates		
	MW.h	\$000	MW.h	MW.h	MW.h	MW.h	\$000	\$000	\$000
<b>2022 Forecast</b>									
January	5,195.9	796.9	4,174.8	2,739.1	1,099.3	8,013.2	989.6	5,812.0	7,598.5
February	5,028.9	778.1	3,763.2	1,767.9	1,029.4	6,560.5	844.6	5,125.1	6,747.8
March	4,793.4	751.6	4,326.0	3,062.4	1,243.8	8,632.2	1,041.6	5,082.6	6,875.8
April	4,112.4	650.7	3,024.0	2,652.0	936.8	6,612.8	989.7	4,417.5	6,057.9
May	3,593.3	579.3	3,741.6	3,698.2	720.7	8,160.5	989.7	4,000.0	5,568.9
June	3,617.2	587.3	3,918.3	3,932.2	832.9	8,683.3	1,033.9	3,717.4	5,338.5
July	3,327.6	540.1	3,908.6	3,950.2	856.2	8,715.0	1,035.1	3,654.2	5,229.3
August	3,061.4	497.2	3,559.2	3,968.2	884.2	8,411.6	1,001.4	3,752.2	5,250.8
September	3,514.4	571.4	3,610.9	3,986.2	764.4	8,361.5	1,007.5	4,056.7	5,635.6
October	3,239.5	521.7	4,007.0	4,004.2	1,011.1	9,022.2	1,069.4	4,528.2	6,119.3
November	3,738.0	597.8	3,959.7	4,022.2	1,011.1	8,993.0	1,067.0	5,101.5	6,766.3
December	3,614.7	573.1	4,007.0	2,424.1	1,011.1	7,442.2	938.4	5,689.3	7,200.8
<b>Total 2022</b>	<b>46,836.8</b>	<b>7,445.1</b>	<b>46,000.3</b>	<b>40,206.6</b>	<b>11,401.0</b>	<b>97,608.0</b>	<b>12,007.9</b>	<b>54,936.6</b>	<b>74,389.6</b>
<b>2023 Forecast</b>									
January	4,530.7	716.6	4,174.8	2,739.1	1,099.3	8,013.2	989.6	5,823.2	7,529.4
February	4,260.7	669.5	3,763.2	1,767.9	1,029.4	6,560.5	844.6	5,209.0	6,723.1
March	4,271.1	675.2	4,326.0	3,062.4	1,243.8	8,632.2	1,041.6	5,119.3	6,836.1
April	4,273.2	682.7	3,024.0	2,652.0	936.8	6,612.8	989.7	4,480.2	6,152.7
May	3,540.6	569.6	3,741.6	3,698.2	720.7	8,160.5	989.7	4,065.0	5,624.3
June	3,110.1	502.1	3,918.3	3,932.2	832.9	8,683.3	1,033.9	3,788.8	5,324.7
July	3,974.9	647.4	3,908.6	3,950.2	856.2	8,715.0	1,035.1	3,706.4	5,388.8
August	3,854.8	628.9	3,559.2	3,968.2	884.2	8,411.6	1,001.4	3,803.6	5,433.9
September	3,974.3	647.4	3,610.9	3,986.2	764.4	8,361.5	1,007.5	4,126.9	5,781.9
October	3,471.4	559.6	4,007.0	4,004.2	1,011.1	9,022.2	1,069.4	4,591.2	6,220.2
November	3,772.4	602.4	3,959.7	4,022.2	1,011.1	8,993.0	1,067.0	5,186.0	6,855.5
December	3,991.6	634.7	4,007.0	2,424.1	1,011.1	7,442.2	938.4	5,776.3	7,349.4
<b>Total 2023</b>	<b>47,025.8</b>	<b>7,536.1</b>	<b>46,000.3</b>	<b>40,206.6</b>	<b>11,401.0</b>	<b>97,608.0</b>	<b>12,007.9</b>	<b>55,676.0</b>	<b>75,219.9</b>
<b>2024 Forecast</b>									
January	3,950.7	644.3	4,174.8	2,739.1	1,099.3	8,013.2	989.6	5,834.4	7,468.4
February	3,609.8	576.0	3,763.2	1,767.9	1,029.4	6,560.5	844.6	5,294.3	6,714.9
March	3,805.7	606.6	4,326.0	3,062.4	1,243.8	8,632.2	1,041.6	5,156.3	6,804.4
April	4,440.3	716.3	3,024.0	2,652.0	936.8	6,612.8	989.7	4,543.8	6,249.9
May	3,488.6	560.1	3,741.6	3,698.2	720.7	8,160.5	989.7	4,131.0	5,680.9
June	2,674.0	429.2	3,918.3	3,932.2	832.9	8,683.3	1,033.9	3,861.6	5,324.7
July	4,748.3	776.0	3,908.6	3,950.2	856.2	8,715.0	1,035.1	3,759.3	5,570.4
<b>Total July 1, 2022 to June 30, 2024</b>		<b>14,370.1</b>					<b>24,015.8</b>	<b>111,279.4</b>	<b>149,665.3</b>
<b>Total August 1, 2022 to July 31, 2024</b>		<b>14,606.0</b>					<b>24,015.8</b>	<b>111,384.6</b>	<b>150,006.3</b>

**Notes:**

1. Jan-April 2022 YEC sales are based on preliminary actuals. May-December 2022 sales are based on forecasts prepared for 2022 Business Plan. The forecast industrial sales for 2023 and Jan-May 2023 are assumed at 2022 forecast level [based on information available for YEC at the time of this filing]. AEY revenues are based on information provided by AEY for 2022 and 2023.



## **APPENDIX 3.1: REVISED TAB 7 SCHEDULES**



## **Yukon Energy Corporation 2021 GRA Compliance Filing**

May 12, 2022

### **Schedule Index**

- 1 Computation of Rate Base
- 2 Computation of Allowance for Working Capital
- 2A Effect of GST on Working Capital
- 3 Continuity Schedule of Property, Plant and Equipment, Deferred Costs and Intangible Assets
- 3A Calculation of Depreciation Expense for 2021
- 4 Cost of Capital Calculation
- 5 Utility Revenue Requirement
- 6 Statement of Earnings
- 7 Statement of Retained Earnings
- 8 Reconciliation of Utility Income to Net Earnings
- 9 Summary of Customers, Energy Sales and Revenues
- 10 Summary of Operating and Maintenance Expenses
- 10A Summary of Labour Costs
- 11 Summary of Cost of Long - Term Debt

**Yukon Energy Corporation**  
**Computation of Rate Base**  
**(\$000s)**

Schedule 1  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
<b>1</b>	<b>Property, Plant and Equipment</b>						
2	Year end balance	S.3 L.4	612,436	615,387	642,738	672,467	728,282
	Deduct:						
3	Accumulated depreciation (note 1)	S.3 L.8	163,053	160,541	172,426	185,384	198,403
4	Construction-in-progress	S.3 L.12	7,620	4,491	8,088	11,873	40,572
5	Disallowed assets	S.3 L.11	2,193	2,193	1,989	351	12,152
6	Miscellaneous reserves	S.3 L.16	7,808	7,249	6,231	650	7,609
7	Total deductions		180,674	174,474	188,735	198,259	258,737
	Add:						
8	Deferred study costs and Intangible assets (note 2)	S.3 L.59	41,695	31,415	33,271	36,228	42,110
9	Less: Studies and Intangible Assets in Progress	S.3 L.60	29,498	18,930	20,881	25,386	30,489
10	Total additions		12,198	12,485	12,390	10,842	11,621
	<b>Net plant in Service</b>						
11	Current year-end balance	S.3 L.62	443,960	453,398	466,393	485,050	481,166
12	Previous year-end balance		446,777	448,239	453,398	466,393	485,050
13	Mid-year balance		445,368	450,819	459,896	475,722	483,108
14	Mid-year regulatory deferral		3,879	2,427	1,791	1,325	1,818
15	Working capital	S.2 L.8	5,344	5,617	5,796	6,580	7,092
16	<b>Gross Rate Base</b>		454,592	458,863	467,483	483,627	492,018
	Deduct:						
	<b>Contributions for extensions (PP&amp;E)</b>						
17	Current year-end balance		201,232	199,527	211,719	225,337	254,348
18	Contributions in WIP		-	603	385	776	20,776
19	Current year-end balance in-service		201,232	198,924	211,333	224,560	233,571
20	Accumulated amortization of contributions		35,976	34,536	39,276	44,306	48,722
21	Net current year-end balance in-service		165,256	164,387	172,057	180,255	184,849
22	Previous year-end balance		168,967	168,967	164,387	172,057	180,255
23	Mid-year balance		167,112	166,677	168,222	176,156	182,552
24	<b>Net Rate Base</b>	S.5 L.1	287,480	292,186	299,261	307,471	309,466

Note 1: Including Reserve for Future Removal and Site Restoration

Note 2: Planning and Study costs, Relicensing, Dam Safety costs, Vegetation Management and Intangible Assets. Net of contributions.

**Yukon Energy Corporation**  
**Computation of Allowance for Working Capital**  
**(\$000s)**

Schedule 2  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Operating and maintenance	S.5 L.5	23,715	27,794	27,915	37,676	43,211
2	Taxes other than income	S.5 L.6	708	671	673	739	750
3	Non-allowable expenses		(100)	(99)	(166)	(95)	(120)
4	Cash operating expenses		24,323	28,366	28,421	38,320	43,841
5	27/365		1,799	2,098	2,102	2,835	3,243
6	Inventory (three year average)		3,703	3,697	3,837	3,913	4,014
7	GST Impact on working capital	S.2A L.11	<u>(158)</u>	<u>(178)</u>	<u>(143)</u>	<u>(166)</u>	<u>(165)</u>
8	Working capital	S.1 L.19	<u>5,344</u>	<u>5,617</u>	<u>5,796</u>	<u>6,582</u>	<u>7,092</u>

**Yukon Energy Corporation**  
**Effect of GST on Working Capital**  
**(\$000s)**

Schedule 2A  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Expenses subject to GST		42,084	37,733	53,916	63,064	96,059
2	GST Rate		5.00%	5.00%	5.00%	5.00%	5.00%
3	GST Recoverable		2,104	1,887	2,696	3,153	4,803
4	Day Factor		14	14	14	14	14
5	Recoverable portion of GST impact		81	72	103	121	184
6	Revenue subject to GST		49,794	52,059	51,302	59,947	72,825
7	GST blended rate (2009 GRA)		5.00%	5.00%	5.00%	5.00%	5.00%
8	GST payable		2,490	2,603	2,565	2,997	3,641
9	Day factor		35	35	35	35	35
10	Payable portion of GST impact		239	250	246	287	349
11	Net impact of GST on working capital	S.2 L.7	(158)	(178)	(143)	(166)	(165)

**Yukon Energy Corporation**  
**Continuity Schedule of Property, Plant and Equipment, Deferred Costs and Intangible Assets**  
**(\$000s)**

Schedule 3  
May 12, 2022

Line No.	Description	Cross Ref.	2018 GRA Compliance	Actual 2018	Actual 2019	Forecast 2020	2021 GRA Compliance
<b>Property, Plant and Equipment</b>							
1	Balance at beginning of year		598,756	598,756	615,387	642,738	672,467
2	Net Increases to PPE (Table 5.1)		13,680	20,189	29,259	29,729	57,152
3	Retirements, disposals and adjustments		-	(3,559)	(1,908)	-	(1,337)
4	Balance at end of year	S.1 L.2	612,436	615,387	642,738	672,467	728,282
<b>Accumulated depreciation</b>							
5	Balance at beginning of year		150,857	150,857	160,541	172,426	185,384
6	Depreciation expense	S.6 L.7	12,196	12,185	12,677	12,963	13,436
7	Retirements, disposals and adjustments		-	(2,501)	(791)	(5)	(417)
8	Balance at end of year	S.1 L.3	163,053	160,541	172,426	185,384	198,403
Deductions from PP&E:							
9	Disallowed assets		2,746	2,746	2,746	1,152	13,192
10	Accum. Disallowed depreciation		(553)	(553)	(757)	(801)	(1,039)
11	Net Disallowed	S.1 L.5	2,193	2,193	1,989	351	12,152
12	Construction-in-progress	S.1 L.4	7,620	4,491	8,088	11,873	40,572
Miscellaneous Reserves							
13	Fire Insurance Reserve		4,704	4,704	4,442	4,180	3,918
14	LWRF		-	-	-	(4,272)	2,744
15	Reserve for Injuries and Damages		(1,035)	(1,419)	(1,002)	(2,048)	(1,843)
16	Reserve for Future Removal and Site Restoration		4,139	3,963	2,790	2,790	2,790
17	Total Miscellaneous Reserves	S.1 L.6	7,808	7,249	6,231	650	7,609
18	Total Deductions		17,621	13,933	16,308	12,874	60,333
19	Net Property, Plant and Equipment for Rate Base		431,762	440,913	454,003	474,208	469,545
Add:							
20	Deferred study costs and Intangible assets (net of contributions)						
21	Feasibility Studies						
22	Opening balance		18,499	18,499	17,798	16,841	16,798
23	Additions		14,127	1,091	866	1,826	6,686
24	Amortization		(1,838)	(1,791)	(1,824)	(1,869)	(2,274)
25	Year-end balance		30,788	17,798	16,841	16,798	21,210
26	Relicensing						
27	Opening balance		6,604	6,604	8,447	10,123	11,882
28	Additions		1,544	2,359	2,102	2,060	1,745
29	Amortization		(515)	(515)	(427)	(301)	(339)
30	Year-end balance		7,633	8,447	10,123	11,882	13,288
31	Dam Safety						
32	Opening balance		118	118	89	59	203
33	Additions		-	-	-	174	80
34	Amortization		(30)	(30)	(30)	(30)	(64)
35	Year-end balance		89	89	59	203	219
36	Vegetation Management						
37	Opening balance		1,994	1,994	1,772	1,551	1,329
38	Additions		-	-	-	-	-
39	Amortization		(222)	(222)	(222)	(222)	(222)
40	Year-end balance		1,772	1,772	1,551	1,329	1,108
41	Intangibles						
42	Opening balance		1,859	1,859	1,684	2,339	5,076
43	Additions		79	308	1,215	3,315	1,095
44	Amortization		(478)	(482)	(560)	(578)	(729)
45	Year-end balance		1,460	1,684	2,339	5,076	5,442
46	DSM						
47	Opening balance		990	2,452	2,551	2,457	876
48	Additions		-	350	210	(1,889)	120
49a	Amortization Adjustments		-	-	-	652	-
49	Amortization		(110)	(252)	(304)	(344)	(161)
50	Year-end balance		880	2,551	2,457	876	835
51	Hearing Reserve						
52	Opening balance		(1,026)	(1,026)	(926)	(99)	63
53	Additions		155	155	883	217	-
54	Amortization		(55)	(55)	(55)	(55)	(55)
55	Year-end balance		(926)	(926)	(99)	63	8
56	Total Deferred Costs and Intangible Assets						
57	Opening balance		29,038	30,500	31,415	33,271	36,228
58	Additions		15,906	4,262	5,276	5,702	9,726
59	Amortization		(3,248)	(3,346)	(3,420)	(2,746)	(3,844)
60	Year-end balance	S.1 L.8	41,695	31,415	33,271	36,228	42,110
61	Less: Deferred Studies and Intangible Assets in Progress	S.1 L.9	29,498	18,930	20,881	25,386	30,489
62	Total Net Deferred Costs and Intangible Assets for Rate Base		12,198	12,485	12,390	10,842	11,621
63	Total Net PP&E, Deferred Costs and Intangible Assets for Rate Base	S.1 L.11	443,960	453,398	466,393	485,050	481,166
64	Other Regulatory						
65	Opening balance		3,868	2,406	2,449	1,134	1,517
66	Additions		318	141	(1,452)	469	821
67a	Amortization Adjustments		-	-	223	-	6
67	Amortization		(295)	(98)	(86)	(86)	(225)
68	Year-end balance		3,891	2,449	1,134	1,517	2,119
69	Total Net PP&E, Deferred Costs and Intangible Assets		447,850	455,847	467,527	486,567	483,285

**Yukon Energy Corporation**  
**Calculation of Depreciation Expense for 2021**  
**\$000**

Schedule 3A  
May 12, 2022

Description	Cost at 2020 Year End	2021 Additions	2021 Disposals/ Adjustments	Cost at 2021 Year End	Proposed Depreciation Rate (Years)	2021 GRA Compliance
<b>Land</b>						
Hydraulic Production	444.9	0.0		444.9	0	0.0
Diesel Production	27.7	0.0		27.7	0	0.0
Main Transmission Facilities	576.9	0.0		576.9	0	0.0
Distribution System	17.8	0.0		17.8	0	0.0
General Plant	548.0	0.0		548.0	0	0.0
Rights	128.8	0.0		128.8	50	1.6
Depreciation Study Differences						0.0
<b>Total Land</b>	<b>1,744.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,744.0</b>		<b>1.6</b>
<b>Hydro Plant</b>						
Structures and Improvements	35,100.6	13,926.1		49,026.7	72	488.2
Buildings and Improvements	10,278.7	0.0		10,278.7	40	257.0
Reservoirs, Dams, and Waterways	173,385.2	300.0		173,685.2	103	1,683.5
Overhaul	6,712.1	0.0		6,712.1	10	671.2
Waterwheels, Turbines & Generation	26,904.6	0.0		26,904.6	85	309.9
Accessory Electric Equipment	27,364.1	0.0		27,364.1	40	684.8
Accessory Digital Equipment	837.9	0.0		837.9	20	41.9
Misc Power Plant Equipment	11,791.4	25.0		11,816.4	30	393.0
Fencing	107.1	0.0		107.1	30	2.7
Depreciation Study Differences						-140.5
<b>Total Hydro Plant</b>	<b>292,481.9</b>	<b>14,251.1</b>	<b>0.0</b>	<b>306,732.9</b>		<b>4,391.7</b>
<b>Diesel Production</b>						
Structures and Improvements	1,562.4	0.0		1,562.4	72	21.7
Buildings and Improvements	466.1	0.0		466.1	55	8.5
Fuel Holders, Products, and ACC	1,688.5	0.0		1,688.5	40	26.0
Generating Equipment and Prime	14,192.9	0.0		14,192.9	40	635.2
Overhaul	2,962.8	0.0		2,962.8	5	592.6
Minto Generating Equipment	243.5	0.0		243.5	12	26.1
Accessory Electric Equipment	9,427.5	0.0		9,427.5	45	208.7
Misc Power Plant Equipment	1,837.7	0.0		1,837.7	30	59.2
Depreciation Study Differences						-70.2
<b>Total Diesel Production</b>	<b>32,381.3</b>	<b>0.0</b>	<b>0.0</b>	<b>32,381.3</b>		<b>1,507.7</b>
<b>Wind Turbine</b>						
Wind Turbine	0.0	0.0		0.0	0	0.0
<b>Total Wind Turbine</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>		<b>0.0</b>
<b>Main Transmission Facilities</b>						
Poles and Fixtures	82,055.8	0.0	978.1	81,077.6	65	1,276.9
Brushing	14,082.3	0.0		14,082.3	60	234.7
Survey Costs	4,083.4	0.0		4,083.4	60	149.3
Overhead Conductors / Poles	20,561.3	0.0	358.4	20,202.9	60	342.7
Overhead Conductors / Towers	278.0	0.0		278.0	60	4.6
Substation Equipment	69,794.9	125.0		69,919.9	54	1,298.2
Substation VGC Group - Gold Mine	10,688.6			10,688.6	12	890.7
STATCOM - VGC Group - Gold Mine	1,368.0	12,132.0		13,500.0	12	
Other - VGC Group - Gold Mine	848.0			848.0	12	70.7
Substation Buildings	1,536.2	0.0		1,536.2	55	27.9
Substation Fences	274.5	0.0		274.5	30	8.9
Depreciation Study Differences						43.7
<b>Total Main Transmission Facilities</b>	<b>205,570.9</b>	<b>12,257.0</b>	<b>1,336.5</b>	<b>216,491.4</b>		<b>4,348.4</b>
<b>Sub Transmission Lines</b>						
Poles and Fixtures	4,659.6	0.0		4,659.6	65	67.0
25Kv Minto Spur- Structure	2,646.1	0.0		2,646.1	12	0.0
Brushing	41.6	0.0		41.6	60	0.7
Brushing Minto	432.5	0.0		432.5	12	0.0
Survey costs	0.0	0.0		0.0	60	0.0
Survey costs Minto	95.1	0.0		95.1	12	0.0
Overhead Conductors	1,840.4	0.0		1,840.4	60	30.5
Underground Conductors / Conduit	83.9	0.0		83.9	45	1.9
Overhead Conductors Minto	920.7	0.0		920.7	12	0.0
Substation Equipment	8,013.6	0.0		8,013.6	54	148.4
Substation Equipment Minto	7,111.2	0.0		7,111.2	12	74.6
Depreciation Study Differences						-45.8
<b>Total Sub Transmission Lines</b>	<b>25,844.8</b>	<b>0.0</b>	<b>0.0</b>	<b>25,844.8</b>		<b>277.2</b>
<b>Distribution System</b>						
Poles and Fixtures	9,709.1	648.0		10,357.1	40	242.4
Brushing	44.8	0.0		44.8	50	0.9

**Yukon Energy Corporation**  
**Calculation of Depreciation Expense for 2021**  
**\$000**

Schedule 3A  
May 12, 2022

Description	Cost at 2020 Year End	2021 Additions	2021 Disposals/ Adjustments	Cost at 2021 Year End	Proposed Depreciation Rate (Years)	2021 GRA Compliance
Survey costs	619.4	0.0		619.4	50	17.7
Overhead conductors - Poles	268.2	0.0		268.2	50	4.3
Overhead Costs	2,117.4	0.0		2,117.4	40	52.9
Underground Services	385.2	0.0		385.2	40	9.6
Underground Conduit	40.5	0.0		40.5	40	1.0
Wind Monitoring Equipment	0.0	0.0		0.0	0	0.0
Meters	312.6	0.0		312.6	16	16.1
Meter Equipment	288.4	0.0		288.4	16	17.2
Substation Equipment	1,287.2	0.0		1,287.2	40	30.3
Substation Buildings	64.8	0.0		64.8	55	1.2
Substation Fences	100.3	0.0		100.3	30	3.3
Street Lights	591.6	0.0		591.6	40	13.8
Line Transformers	4,051.1	0.0		4,051.1	35	113.0
Sentinel Lights	36.4	0.0		36.4	30	1.2
Depreciation Study Differences						1.3
<b>Total Distribution System</b>	<b>19,916.9</b>	<b>648.0</b>	<b>0.0</b>	<b>20,564.9</b>		<b>526.3</b>
<b>Building and Other Equipment</b>						
Survey Costs Land	4.3	0.0		4.3	50	0.1
Structures and Improvements (Hydro)	2,529.5	50.0		2,579.5	50	49.9
Building and Improvements	10,549.7	131.8		10,681.5	55	190.9
Office Furniture and Equipment	1,877.4	25.0		1,902.4	20	47.2
Communication Site Towers	19.3	0.0		19.3	40	0.5
Communication Site Fences	64.1	25.0		89.1	30	2.1
Computer Hardware	2,063.4	230.0		2,293.4	7	130.2
Computer Software	0.0	0.0		0.0	5	0.0
Tool and Instruments	2,157.5	490.0		2,647.5	20	84.4
Wind Monitoring Equipment	14.3	0.0		14.3	15	1.0
Communication Equipment	5,615.6	100.0		5,715.6	20	234.1
Company Owned Houses / Land	59.0	0.0		59.0	40	1.3
Company Owned Houses	2,132.4	0.0		2,132.4	40	17.1
Depreciation Study Differences						-19.0
<b>Total Building and Other Equipment</b>	<b>27,086.6</b>	<b>1,051.8</b>	<b>0.0</b>	<b>28,138.4</b>		<b>739.6</b>
<b>Transportation</b>						
Utility Vehicles	371.6	30.0		401.6	8	25.6
Sedans and Stationwagons	137.8	0.0		137.8	11	6.0
Trucks & Pole Trailer	11.0	0.0		11.0	25	0.4
Pole Trailers > 10,000 Lbs	53.7	0.0		53.7	25	1.7
Trucks 3/4 to 2 Ton	3,430.1	0.0		3,430.1	9	293.8
Trucks > 3 Ton	1,459.8	0.0		1,459.8	20	58.4
Foremost	1,003.9	0.0		1,003.9	20	50.2
Depreciation Study Differences						19.3
<b>Total Transportation</b>	<b>6,467.8</b>	<b>30.0</b>	<b>0.0</b>	<b>6,497.8</b>		<b>455.4</b>
<b>Critical Spares</b>						
Critical Spares	1,193.6	0.0		1,193.6	0	0.0
<b>Total Critical Spares</b>	<b>1,193.6</b>	<b>0.0</b>	<b>0.0</b>	<b>1,193.6</b>		<b>0.0</b>
<b>LNG Production</b>						
Structures and Improvements	6,184.7	0.0		6,184.7	72	85.9
Fuel Holders	13,200.7	0.0		13,200.7	60	220.0
Generator	20,891.0	0.0		20,891.0	40	522.3
Overhaul	343.3	180.0		523.3	2	171.4
Accessory Electric Equipment	3,655.9	0.0		3,655.9	45	81.2
Misc Power Plant Equipment	2,850.6	35.0		2,885.6	30	95.0
Fence	779.7	0.0		779.7	30	26.0
Depreciation Study Differences						-14.0
<b>Total LNG Production</b>	<b>47,905.9</b>	<b>215.0</b>	<b>0.0</b>	<b>48,120.9</b>		<b>1,187.9</b>
<b>Total</b>	<b>660,593.6</b>	<b>28,452.9</b>	<b>1,336.5</b>	<b>687,709.9</b>		<b>13,435.8</b>

**Yukon Energy Corporation**  
**Cost of Capital Calculation**  
**(\$000s)**

Schedule 4  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>Mid Year Balance</b>	<b>Ratio</b>	<b>Mid Year Rate Base</b>	<b>Mid Year Cost Rate</b>	<b>Return</b>	
<b>2018 GRA Compliance</b>								
1	Long-Term debt	S.11 L.18	172,472	60.0%	172,473	2.23%	3,844	
2	Common Stock	S.7 L. 8	<u>115,005</u>	<u>40.0%</u>	<u>115,007</u>	<u>8.70%</u>	<u>10,006</u>	
3	Total	S.5 L.3	<u>287,477</u>	<u>100.0%</u>	<u>287,480</u>	<u>4.82%</u>	<u>13,850</u>	
<b>2018 Actual</b>								
7	Long-Term debt	S.11 L.18	159,363	57.4%	167,813	2.58%	4,336	
8	Common Stock	S.7 L. 8	<u>118,109</u>	<u>42.6%</u>	<u>124,372</u>	<u>6.25%</u>	<u>7,773</u>	
9	Total	S.5 L.3	<u>277,472</u>	<u>100.0%</u>	<u>292,186</u>	<u>4.14%</u>	<u>12,110</u>	
<b>2019 Actual</b>								
10	Long-Term debt	S.11 L.18	170,377	58.4%	174,882	2.71%	4,740	
11	Common Stock	S.7 L. 8	<u>121,174</u>	<u>41.6%</u>	<u>124,379</u>	<u>5.31%</u>	<u>6,610</u>	
12	Total	S.5 L.3	<u>291,551</u>	<u>100.0%</u>	<u>299,261</u>	<u>3.17%</u>	<u>11,350</u>	
<b>Forecast 2020</b>								
13	Long-Term debt	S.11 L.18	180,005	59.4%	182,589	2.91%	5,322	
14	Common Stock	S.7 L. 8	<u>123,136</u>	<u>40.6%</u>	<u>124,884</u>	<u>3.73%</u>	<u>4,659</u>	
15	Total	S.5 L.3	<u>303,141</u>	<u>100.0%</u>	<u>307,471</u>	<u>3.24%</u>	<u>9,981</u>	
<b>2021 GRA Compliance</b>								
					<b>Deemed Ratio</b>			
19	Long-Term debt	S.11 L.18	185,526	60.0%	60.0%	185,680	2.94%	5,453
20	Common Stock	S.7 L. 8	<u>123,705</u>	<u>40.0%</u>	<u>40.0%</u>	<u>123,786</u>	<u>8.20%</u>	<u>10,150</u>
21	Total	S.5 L.3	<u>309,231</u>	<u>100.0%</u>	<u>100.0%</u>	<u>309,466</u>	<u>5.04%</u>	<u>15,603</u>

**Yukon Energy Corporation**  
**Utility Revenue Requirement**  
**(\$000s)**

Schedule 5  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Net rate base	S.1 L.24	287,480	292,186	299,261	307,471	309,466
2	Average Rate of return on rate base		4.82%	4.14%	3.79%	3.25%	5.04%
3	Utility income	S.8 L.1	13,850	12,110	11,350	9,981	15,603
4	Utility expenses						
5	Operating and maintenance (note 1)	S.6 L.3	23,715	27,794	27,915	37,676	43,211
6	Taxes other than income	S.6 L.4	708	671	673	739	750
7	Amortization of deferred costs	S.6 L.5	3,543	3,500	3,562	3,540	4,118
8	Reserve for Injuries and Damages	S.6 L.6	479	479	479	479	616
9	Depreciation	S.6 L.7	12,196	12,185	12,677	12,963	13,436
10	Amortization of contributions and fire insurance recoveries	S.6 L.8	(4,394)	(4,377)	(5,002)	(5,291)	(4,684)
11	Disallowed depreciation		(204)	(204)	(204)	(44)	(238)
12	Donations		(100)	(99)	(166)	(95)	(120)
13	Total utility expenses		<u>35,943</u>	<u>39,949</u>	<u>39,932</u>	<u>49,966</u>	<u>57,088</u>
14	Revenue Requirement	S.6 L.1	<u>49,794</u>	<u>52,059</u>	<u>51,282</u>	<u>59,947</u>	<u>72,692</u>

Note 1: Includes fuel expenses and purchased power.

**Yukon Energy Corporation**  
**Statement of Earnings**  
**(\$000s)**

Schedule 6  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Revenues (note 1)	S.5 L.14	49,794	52,059	51,302	59,947	72,692
2	<b>Operating expenses</b>						
3	Operating and maintenance	S.10 L.15	23,715	27,794	27,915	37,676	43,211
4	Taxes other than income	S.5 L.6	708	671	673	739	750
5	Amortize deferred costs		3,543	3,500	3,562	3,540	4,118
6	Reserve for Injuries and Damages	S.5 L.8	479	479	479	479	616
7	Depreciation	S.3 L.8	12,196	12,185	12,677	12,963	13,436
8	Amortization of contributions and fire insurance recoveries	S.5 L.10	(4,394)	(4,377)	(5,002)	(5,291)	(4,684)
9	Total		<u>36,247</u>	<u>40,252</u>	<u>40,302</u>	<u>50,105</u>	<u>57,447</u>
10	<b>Operating income</b>		13,546	11,807	11,000	9,842	15,245
11	<b>Other income</b>						
12	Allowed for Funds Used	S.8 L.2	542	539	648	828	1,188
13	Miscellaneous (note 2)	S.8 L.3	(515)	(824)	(951)	(472)	(131)
14	Total		<u>28</u>	<u>(284)</u>	<u>(304)</u>	<u>356</u>	<u>1,057</u>
15	<b>Other expenses</b>						
16	Interest expense	S.8 L.4	4,431	5,583	6,124	9,663	5,655
17	Total		<u>4,431</u>	<u>5,583</u>	<u>6,124</u>	<u>9,663</u>	<u>5,655</u>
18	<b>Net earnings</b>	S.8 L.8	<u>9,142</u>	<u>5,939</u>	<u>4,573</u>	<u>534</u>	<u>10,647</u>

Note 1: Includes revenues from sales and other revenues.

Note 2: Miscellaneous primarily consistent of Regulatory gain/losses and other interest income/expenses.

**Yukon Energy Corporation**  
**Statement of Retained Earnings**  
**(\$000s)**

Schedule 7  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Balance at beginning of year		60,775	61,366	67,653	67,495	68,883
	Add:						
2	Net earnings	S.6 L.18	9,142	5,939	4,573	534	10,647
3	IFRS Comprehensive Income Adjustment		1,660	348	(1,859)	853	-
4	Balance at end of year before dividend		<u>71,577</u>	<u>67,653</u>	<u>70,366</u>	<u>68,883</u>	<u>79,530</u>
	Less:						
5	Common Dividends (note 1)		<u>10,414</u>	<u>-</u>	<u>2,871</u>	<u>-</u>	<u>13,592</u>
6	Balance at end of year		<u>61,163</u>	<u>67,653</u>	<u>67,495</u>	<u>68,883</u>	<u>65,938</u>
	<b>Shareholder's Equity</b>						
7	Common shares		54,036	53,600	53,600	56,294	56,294
8	Retained earnings		<u>61,163</u>	<u>67,653</u>	<u>67,495</u>	<u>68,883</u>	<u>65,938</u>
9	Total		<u>115,200</u>	<u>121,253</u>	<u>121,095</u>	<u>125,177</u>	<u>122,232</u>

Note:

1. YDC equity injection/dividend estimates required in order to maintain 60/40 debt to equity ratio.

**Yukon Energy Corporation**  
**Reconciliation of Utility Income to Net Earnings**  
**(\$000s)**

Schedule 8  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	Utility Income (Return on Rate Base)	S.5 L.3	13,850	12,110	11,350	9,981	15,603
	Add:						
2	Allowance for funds used	S.6 L.12	542	539	648	828	1,188
3	Other income (expenses)	S.6 L.13	(515)	(824)	(951)	(472)	(131)
			<u>13,878</u>	<u>11,825</u>	<u>11,046</u>	<u>10,337</u>	<u>16,661</u>
	Less:						
4	Interest - long-term	S.6 L.17	4,431	5,583	6,124	9,663	5,655
5	Donations	S.5 L.12	100	99	166	95	120
6	Disallowed costs	S.5 L.13	-	-	-	-	-
7	Disallowed depreciation	S.5 L.11	204	204	204	44	238
			<u>4,735</u>	<u>5,886</u>	<u>6,494</u>	<u>9,803</u>	<u>6,013</u>
8	Net earnings	S.6 L.18	9,142	5,939	4,552	534	10,647

**Yukon Energy Corporation**  
**Summary of Customers, Energy Sales and Revenues**  
**(\$000s)**

Schedule 9  
May 12, 2022

Line No.	Description	2018 GRA Compliance	Actual 2018	Actual 2019	Forecast 2020	2021 GRA Compliance
1	<b>Residential</b>					
2	Customers	1,635	1,689	1,730	1,756	1,780
3	Sales in MWh	13,719	15,626	15,384	16,730	16,210
4	MWh sales per customer	8.4	9.3	8.9	9.5	9.1
5	Revenue (\$000s)	2,016	2,262	2,262	2,413	2,384
6	Cents per KWh	14.7	14.5	14.7	14.4	14.7
7	<b>General Service</b>					
8	Customers	489	506	517	516	514
9	Sales in MWh	25,436	27,171	29,148	32,250	32,323
10	MWh sales per customer	52.0	53.7	56.4	62.5	62.9
11	Revenue (\$000s)	4,054	4,490	4,833	5,351	5,388
12	Cents per KWh	15.9	16.5	16.6	16.6	16.7
13	<b>Industrial</b>					
14	Sales in MWh	32,193	36,910	27,286	64,856	102,904
15	Revenue (\$000s)	3,952	4,378	3,673	7,260	11,481
16	Cents per KWh	12.3	11.9	13.5	11.2	11.2
17	<b>Street lights</b>					
18	Sales in MWh	214	224	168	168	168
19	Revenue (\$000s)	56	87	82	82	82
20	Cents per KWh	26.0	39.1	48.8	48.8	48.8
21	<b>Space lights</b>					
22	Sales in MWh	12	11	10	10	10
23	Revenue (\$000s)	3	3	3	3	3
24	Cents per KWh	22.5	29.2	26.7	28.1	26.6
25	<b>Total Company - Firm Retail and Industrial</b>					
26	Customers	2,125	2,195	2,247	2,272	2,293
27	Sales in MWh	71,573	79,941	71,997	114,013	151,614
28	Revenue (\$000s)	10,081	11,221	10,853	15,108	19,337
29	Cents per KWh	14.1	14.0	15.1	13.3	12.8
30	<b>Wholesale sales</b>					
31	Sales in MWh	314,700	332,270	331,495	351,775	343,537
32	Revenue (\$000s)	26,114	27,572	27,507	29,190	28,507
33	Cents per KWh	8.3	8.3	8.3	8.3	8.3
34	<b>Total Company - Firm</b>					
35	Sales in MWh	386,273	412,212	403,491	465,788	495,151
36	Revenue (\$000s)	36,194	38,792	38,360	44,298	47,844
37	Cents per KWh	9.4	9.4	9.5	9.5	9.7
38	<b>Secondary</b>					
39	Sales in MWh	2,059	258	0	0	0
40	Revenue (\$000s)	115	20	0	0	0
41	Cents per KWh	5.6	7.6	7.6	0.0	0.0
42	<b>Total Company</b>					
43	Sales in MWh	388,332	412,470	403,492	465,788	495,151
44	Revenue (\$000s)	36,310	38,812	38,360	44,298	47,844
45	Cents per KWh	9.4	9.4	9.5	9.5	9.7
46	Rider J	13,231	13,329	13,842	15,289	15,887
47	Post-GRA Reconcil Req'd					
48	GRA Increase Req'd				0	8,592
49	Total Sales of Power	<u>49,541</u>	<u>52,141</u>	<u>52,203</u>	<u>59,588</u>	<u>72,323</u>
50	Other Revenues	253	-82	-901	359	369
51	Total Revenues	49,794	52,059	51,302	59,947	72,692

**Yukon Energy Corporation**  
**Summary of Operating and Maintenance Expenses**  
**(\$000s)**

Schedule 10  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	<b>Utility operations</b>						
2	Production		5,930	7,755	8,402	9,871	10,438
3	Transmission and distribution		3,445	2,835	2,767	3,215	3,188
4	General		1,615	1,746	1,921	1,695	1,763
5	Administration and general		8,917	8,966	9,201	9,603	10,397
6	Insurance		1,031	1,046	1,117	1,299	1,423
7	Sub-total		<u>20,938</u>	<u>22,347</u>	<u>23,407</u>	<u>25,684</u>	<u>27,209</u>
8	Donations		100	99	166	95	120
9	Sub-total		<u>100</u>	<u>99</u>	<u>166</u>	<u>95</u>	<u>120</u>
10	O&M not including fuel and						
11	purchased power		<u>21,038</u>	<u>22,447</u>	<u>23,574</u>	<u>25,779</u>	<u>27,329</u>
12	Fuel		2,638	5,295	6,153	11,836	15,829
13	Purchased power		39	53	57	60	53
14	Sub-total		<u>2,677</u>	<u>5,348</u>	<u>6,211</u>	<u>11,896</u>	<u>15,882</u>
15	Total operating and maintenance	S.6 L.3	<u>23,715</u>	<u>27,794</u>	<u>29,784</u>	<u>37,676</u>	<u>43,211</u>
<b><i>Operating and Maintenance Expense Reported in Tab 3 excludes fuel and purchase power, but also includes the f</i></b>							
16	<i>Reserve for Injuries and Damages</i>		479	479	479	479	616
17	<i>Property Taxes</i>		708	671	673	739	750
18	<i>less: Donations</i>		<u>-100</u>	<u>-99</u>	<u>-166</u>	<u>-95</u>	<u>-120</u>
19	<i>O&amp;M per Table 3.3 (Tab 3)</i>		<i>22,125</i>	<i>23,497</i>	<i>24,559</i>	<i>26,903</i>	<i>28,575</i>

**Yukon Energy Corporation**  
**Summary of Labour Costs**  
**(\$000s)**

Schedule 10A  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
1	<b>Total FTEs</b>	Tab 3, Table 3.4	93.7	94.9	98.4	97.9	100.6
2	<b>Total Labour Costs</b>		14,394	14,173	14,131	15,420	15,719
3	O&M Labour Costs	Sum Lines 5-9	11,932	12,083	11,863	12,727	13,016
4	Labour Costs to Capital		2,461	2,090	2,268	2,694	2,703
	<b>Labour Costs</b>						
5	Production		4,131	4,455	4,467	4,995	4,802
6	Transmission		635	526	545	659	674
7	Distribution		856	801	625	617	629
8	General		395	351	391	343	372
9	Administration		5,916	5,949	5,835	6,113	6,539
10	Total Labour		<u>11,932</u>	<u>12,083</u>	<u>11,863</u>	<u>12,727</u>	<u>13,016</u>

**Yukon Energy Corporation**  
**Summary of Cost of Long - Term Debt**  
**(\$000s)**

Schedule 11  
May 12, 2022

<b>Line No.</b>	<b>Description</b>	<b>Cross Ref.</b>	<b>2018 GRA Compliance</b>	<b>Actual 2018</b>	<b>Actual 2019</b>	<b>Forecast 2020</b>	<b>2021 GRA Compliance</b>
<b>General Purpose Long-Term Debt Balance</b>							
1	YDC Mayo B Flexible Term Debt		19,542	19,542	19,205	18,868	18,531
2	TD Bank Swap (2.69%)		8,991	8,991	8,623	8,245	7,858
3	Minto Decommissioning Reserve		2,684	2,710	2,769	2,800	2,816
4	YDC \$5.5M Debt (2.40%)		5,505	5,505	5,505	5,505	5,505
5	YDC \$92.5M Debt (2.40%/2.83%)		77,723	77,723	74,039	70,356	66,672
6	YDC \$21.0M Debt (2.21%)		18,466	18,466	17,627	16,788	15,948
7	YDC \$12.1M Debt (2.10%)		12,136	12,136	12,136	12,136	12,136
8	TD Bank Swap (3.665%)		21,940	23,406	22,811	22,194	21,554
9	New 2018 Debt-2018 True Up (2.15%)		5,776	0	0	0	0
10	TD Bank Swap (2.899%)		0	0	6,688	6,498	6,303
11	YDC \$2.9M Debt (2.899%)		0	0	2,871	2,871	2,871
12	New 2020 Debt-2019 True Up (2.19%)		0	0	0	8,760	8,760
13	New 2020 Debt-2020 True Up (2.19%)		0	0	0	12,715	12,715
14	New 2021 Debt-2021 True Up (2.19%)		0	0	0	0	1,648
15	Current year-end balance		172,763	168,479	172,274	187,736	183,317
16	Previous year-end balance		172,181	150,246	168,479	172,274	187,736
17	Mid Year		172,472	159,363	170,377	180,005	185,526
<b>Interest Costs</b>							
18	YDC Mayo B Flexible Term Debt		334	771	690	1,049	1,030
19	TD Bank Swap (2.69%)		247	247	237	227	217
20	Minto Decommissioning Reserve		24	45	59	31	16
21	YDC \$5.5M Debt (2.40%)		132	132	132	132	132
22	YDC \$92.5M Debt (2.40%/2.83%)		1,954	1,954	1,865	1,984	1,886
23	YDC \$21.0M Debt (2.21%)		427	427	408	390	371
24	YDC \$12.1M Debt (2.10%)		255	255	255	255	255
25	TD Bank Swap (3.665%)		472	287	848	826	803
26	New 2018 Debt-2018 True Up (2.15%)		0	0	0	0	0
27	TD Bank Swap (2.899%)		0	0	81	191	186
28	YDC \$2.9M Debt (2.899%)		0	0	42	83	83
29	New 2020 Debt-2019 True Up (2.19%)		0	0	0	35	192
30	New 2020 Debt-2020 True Up (2.19%)		0	0	0	44	278
31	New 2021 Debt-2021 True Up (2.19%)		0	0	0	0	0
32	<b>Total Cost of Interest</b>		3,844	4,118	4,618	5,247	5,449
33	Mid-Year Cost of Debt		2.23%	2.58%	2.71%	2.91%	2.94%