Application No. 1315423 Response to CAR-NGTL-001(a) December 11, 2003 Page 1 of 2

CAR-NGTL-001(a)

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.5 – Commercial and Regulatory, Customer Service pg. 14 of 27

Preamble:

Lines 23 - 26 NGTL states "Costs are also increasing as a result of new, complex and manually intensive services plus increased workload to determine risk exposure with respect to customer credit worthiness, in relation to recent high profile bankruptcies in the energy sector."

Request:

Please describe in detail the new, complex and manually intensive services.

Response:

FT-P service was implemented in 2003 on the Alberta System. The service has unique characteristics, such as daily balancing and month-end tolling provisions, that are not wholly compatible with NGTL's existing transportation systems and processes.

The following tasks require increased effort to administer FT-P contracts:

- review financial assurances and creditworthiness
 - obtain additional financial assurances, if necessary
- generate contract
- store contract information in spreadsheet
 - customer name, contacts, address
 - receipt stations
 - pricing
 - contractual quantities
- set up FT-P account in GSAM
- nominations
 - uses existing NrG and GSAM systems

CAR-NGTL-001(a)

- inventory balancing
 - manual process to zero each FT-P account each day by transferring imbalance to parent (guarantor) account using NITS process
- FT-P allocations
 - using existing allocation procedures and systems
- Generate invoice
 - enter allocation information into contract spreadsheet
 - use spreadsheet to determine invoice amount
 - manually enter amount into invoice system
 - review/verify

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-001(b) December 11, 2003 Page 1 of 2

CAR-NGTL-001(b)

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.5 – Commercial and Regulatory, Customer Service pg. 14 of 27

Preamble:

Lines 23 – 26 NGTL states "Costs are also increasing as a result of new, complex and manually intensive services plus increased workload to determine risk exposure with respect to customer credit worthiness, in relation to recent high profile bankruptcies in the energy sector."

Request:

Please describe in detail the increased workload to NGTL.

Response:

There are three main factors that influence workload in the risk exposure area. The first factor is the number of contract transactions, such as assignments and transfers of existing contracts, which could increase financial exposure with a particular customer. In the first ten months of 2003, NGTL processed an average of 482 assignments per month. That represents a 41% increase over 2002 levels. NGTL also processed an average of 1127 transfers per month over the same period in 2003, an increase of 16% over 2002 levels.

The second factor is the number of new contracts and new types of contracts. As noted in NGTL's response to CAR-NGTL-001 (a), FT-P service was recently introduced on the Alberta System. This has resulted in additional contracts which require determination of financial exposure. Implementation of FT-A tolls for intra-Alberta deliveries has also resulted in additional exposures for certain shippers and the requirement for NGTL to update shipper exposure calculations.

The third factor is the overall financial health of individual shippers on the Alberta System. NGTL gathers information from credit rating agencies and other sources in order

CAR-NGTL-001(b)

to keep abreast of any risk concerns. As concerns arise, NGTL will perform a thorough review of exposures under Alberta System contracts. The bankruptcy of a single major shipper, can negatively impact other shippers due to gas purchase and sales arrangements. This could increase risk concerns and necessitate further reviews of risk exposures.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-002(a) December 11, 2003 Page 1 of 1

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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.8 – General Expenses, Incentive Compensation, pg 23 of 27

Preamble:

Lines 21 – 25 Discussion of increasing IC costs, NGTL states "This increase is partially due to market alignment on one employee group's compensation and due to incomplete data gathering for the IC accrual process in 2002, resulting in an under-accrual."

Request:

Please identify which employee group requires the market alignment.

Response:

A review of total compensation was completed for the Fixed Rate (Field) employee group in 2001. This review resulted in the market alignment of this group in 2002 and is already reflected in the 2003 IC forecast costs.

TCPL continually monitors all components of Total Direct Compensation (TDC) for all employee groups and adjusts the compensation of any group that is out of alignment with the defined competitive compensation market, the comparator group. TCPL's TDC programs are in place to attract, motivate, and retain employees with the knowledge and experience required to operate its business in a safe, reliable, and efficient manner. In order to compete for these employees, TCPL must provide a market competitive TDC package.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-002(b) December 11, 2003 Page 1 of 1

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.8 – General Expenses, Incentive Compensation, pg 23 of 27

Preamble:

Lines 21 - 25 Discussion of increasing IC costs, NGTL states "This increase is partially due to market alignment on one employee group's compensation and due to incomplete data gathering for the IC accrual process in 2002, resulting in an under-accrual."

Request:

Please identify what portion of the \$3.4 million increase is due to the under-accrual.

Response:

The 2002 under accrual applicable to NGTL was approximately \$0.9 million.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-003(a) December 11, 2003 Page 1 of 1

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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.8 – General Expenses, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 16 NGTL states "Approximately \$1.2 million of this increase is due to the continued implementation of the share unit program for management and executives."

Request:

Please explain how the share unit program works.

Response:

Please refer to the response to CAPP-NGTL-008(a).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-003(b) December 11, 2003 Page 1 of 1

CAR-NGTL-003(b)

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1.8 – General Expenses, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 16 NGTL states "Approximately \$1.2 million of this increase is due to the continued implementation of the share unit program for management and executives."

Request:

Please explain how the continued implementation of this program causes the \$1.2 million cost increase.

Response:

Under the TransCanada ESU Plan, certain individuals are eligible for an annual grant of a certain number of units, which will vest over a three year cycle. The first annual grant under this program was made in February 2003.

The \$1.2 million increase is due to the second annual grant that is anticipated in February 2004.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-004(a) December 11, 2003 Page 1 of 1

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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 20 NGTL states that there was a \$2.4 million increase to Long Term Incentive Compensation in 2003 attributable to the implementation of a share unit program for management and executive, and an increase in PUP expenses attributable to an increase in the total number of vested units and related dividends. NGTL then discusses the Long Term Incentive Compensation costs for 2004, and breaks out the \$2.4 million increase into various categories (i.e. continued implementation of the share unit program, PUP expense increases in RSUs and stock option expense).

Request:

Please provide the split for 'implementation of share unit program' and PUP expense for 2003.

Response:

Please refer to the response to CAR-NGTL-007(a).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-004(b) December 11, 2003 Page 1 of 1

CAR-NGTL-004(b)	CA	R-N	GTL	-004	b)
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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 20 NGTL states that there was a \$2.4 million increase to Long Term Incentive Compensation in 2003 attributable to the implementation of a share unit program for management and executive, and an increase in PUP expenses attributable to an increase in the total number of vested units and related dividends. NGTL then discusses the Long Term Incentive Compensation costs for 2004, and breaks out the \$2.4 million increase into various categories (i.e. continued implementation of the share unit program, PUP expense increases in RSUs and stock option expense).

Request:

Please provide the total cost for 2003 and 2004 for the 'implementation of the share unit program'.

Response:

Please refer to the response to CAR-NGTL-007(a).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-004(c) December 11, 2003 Page 1 of 1

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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 20 NGTL states that there was a \$2.4 million increase to Long Term Incentive Compensation in 2003 attributable to the implementation of a share unit program for management and executive, and an increase in PUP expenses attributable to an increase in the total number of vested units and related dividends. NGTL then discusses the Long Term Incentive Compensation costs for 2004, and breaks out the \$2.4 million increase into various categories (i.e. continued implementation of the share unit program, PUP expense increases in RSUs and stock option expense).

Request:

What is the forecasted share price and how is it factored into the PUP expense?

Response:

Forecasted share price is not a factor in determining the PUP expense.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-004(d) December 11, 2003 Page 1 of 1

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Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Long Term Incentive Compensation, pg. 24 of 27

Preamble:

Lines 14 - 20 NGTL states that there was a \$2.4 million increase to Long Term Incentive Compensation in 2003 attributable to the implementation of a share unit program for management and executive, and an increase in PUP expenses attributable to an increase in the total number of vested units and related dividends. NGTL then discusses the Long Term Incentive Compensation costs for 2004, and breaks out the \$2.4 million increase into various categories (i.e. continued implementation of the share unit program, PUP expense increases in RSUs and stock option expense).

Request:

With respect to the stock option expense, to which employee group are additional units being granted and what is the valuation applied?

Response:

Stock options are granted to executive officers, as well as certain key employees. The company uses the Black-Scholes model for valuation purposes.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-005(a) December 11, 2003 Page 1 of 1

CAR-NGTL-005(a)

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Pension and Benefit Adjustment, pg. 27 of 27

Preamble:

Line 1-3 NGTL states that the increase of \$7.5 million in 2003 is due to higher pension expense and the consolidation of all employees into the defined benefit pension plan.

Request:

Please clarify the cost associated with the consolidation of all employees into the defined benefit pension plan.

Response:

Please refer to the response to CAPP-NGTL-030(a).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-005(b) December 11, 2003 Page 1 of 1

CAR-NGTL-005(b)

Issue:

Revenue Requirement, Operating Costs

Reference:

Section 2.3.1, Pension and Benefit Adjustment, pg. 27 of 27

Preamble:

Line 1-3 NGTL states that the increase of \$7.5 million in 2003 is due to higher pension expense and the consolidation of all employees into the defined benefit pension plan.

Request:

Please clarify whether or not any costs associated with the consolidation have been carrired [sic] forward into 2004. If yes, please specify the costs.

Response:

The 2004 Pension and Benefit Adjustment account includes \$1.2 million of past service cost amortization related to the consolidation of all employees into the Defined Benefit (DB) pension plan. This amount is calculated based on the funding deficiency transferred from the Defined Contribution (DC) Plan to the DB Plan as at January 1, 2003, which has been amortized over the employees' expected remaining service lives.

TCPL made a decision to consolidate the DC Plan into the DB Plan effective January 1, 2003. The decision was based on considerations such as adequate retirement income for long term employees, employee retention of its skilled and experienced workforce, and attraction of new employees. Further, continuation of the DC plan would have become more expensive for toll payers as the contribution rates for the DC plan would likely have been increased to make the plan competitive. NGTL believes that these actions were reasonable and prudent and, as such, its share of the resulting costs should be recoverable through its rates.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-006(a) December 11, 2003 Page 1 of 2

CAR-NGTL-006(a)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 11 of 15

Preamble:

Line 14 – 15 NGTL states that TCPL's long-term incentive plans have evolved to remain competitive with the market, to meet changing business conditions, and to align with and support business strategies.

Request:

Please provide all studies and work papers that specifies changing business conditions that has caused TCPL's Long Term Incentive Plan to evolve?

Response:

Business conditions that have contributed to and caused change to all of the current TDC components include, but are not limited to:

- Ability to compete with other organizations to attract and retain employees with the skills necessary to operate in a safe, reliable, and efficient manner.
- Harmonizing to one set of total direct compensation programs after the merger of NOVA Corporation and TCPL.
- Change in business strategy.
- Integration of functional services into one company maximizes operational efficiencies and eliminates duplication of costs; long-term incentive compensation focuses employees on sustaining these operational efficiencies.
- Focus on long-term success for TCPL's core businesses necessitates the ability to reward sustained performance over a longer period of time.
- Senior management desire to focus employee attention on longer-term company results and for employees to become shareholders in the company.

CAR-NGTL-006(a)

As described above, the company has changed dramatically since the 1995 GRA. The company had to align its Total Direct Compensation (TDC) to remain competitive with the defined competitive compensation market and to provide balanced rewards to its employees for achieving both short-term business objective and sustaining long-term business objectives.

TCPL will not provide working papers related to compensation programs. They are often either draft or otherwise incomplete documents, which seldom indicate the context and purpose for which they were prepared, and as a result can be misleading. They often do not reflect TCPL's considered view, are typically voluminous in nature, and in many cases contain confidential and proprietary information. The evidentiary value of the requested information would be in any event far outweighed by the time and effort required to locate, compile, review and determine the produceability of the material.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-006(b) December 11, 2003 Page 1 of 2

CAR-NGTL-006(b)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 11 of 15

Preamble:

Line 14 – 15 NGTL states that TCPL's long-term incentive plans have evolved to remain competitive with the market, to meet changing business conditions, and to align with and support business strategies.

Request:

Please provide all work papers and studies that specifies the NGTL business strategies supported by Long Term Incentive Compensation Plan.

Response:

TCPL's Total Direct Compensation (TDC) programs are in place to attract, motivate, and retain employees with the knowledge and experience required to operate its business in a safe, reliable, and efficient manner.

TransCanada's corporate strategy (available on www.transcanada.com), which also encompasses the Alberta System, includes these three key strategies:

- Relentlessly pursue our commitment to an operational excellence business model that provides low-cost, reliable and responsive service to our customers.
- Sustain, grow and optimize the gas transmission business, including capture of the northern opportunities and extensions into U.S. markets.
- Work with customers to establish a new regulated business model with the flexibility to successfully compete in the North American market.

As described in CAR-NGTL-006(a), the company has changed dramatically since the 1995 GRA. The company had to align its Total Direct Compensation (TDC) to remain competitive with the defined competitive compensation market and to provide balanced

CAR-NGTL-006(b)

rewards to its employees for achieving both short-term business objectives and sustaining long-term business objectives.

TCPL will not provide working papers related to compensation programs. They are often either draft or otherwise incomplete documents, which seldom indicate the context and purpose for which they were prepared, and as a result can be misleading. They often do not reflect TCPL's considered view, are typically voluminous in nature, and in many cases contain confidential and proprietary information. The evidentiary value of the requested information would be in any event far outweighed by the time and effort required to locate, compile, review and determine the produceability of the material.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-007(a) December 11, 2003 Page 1 of 1

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REVISED February 2004

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 11 - 13 of 15

Request:

Please provide for 2002, 2003 and 2004 a breakdown of the costs for the KESIP Employee Stock Incentive Plan by category (i.e. PUP, RSU and ESU).

Response:

As per the February 2004 Update, Tthe breakdown of the costs of Long Term Incentive Programs are is as follows:

(in \$millions)	<u>2002</u>	<u>2003</u>	<u>2004</u>	
PUP	1.1	2.6 <u>2.5</u>	3.1 <u>3.2</u>	
RSU	7.0	6.7 <u>8.7</u>	7.0 <u>8.4</u>	I
ESU	-	1.2 <u>1.3</u>	2.4 <u>2.6</u>	1
Stock Options	<u>0.8</u>	<u>0.8 0.7</u>	<u>1.1</u>	1
Total	<u>8.9</u>	<u>11.3</u> 13.2	<u>13.6</u> 15.3	1

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-007(b) December 11, 2003 Page 1 of 1

CAR-NGTL-007(b)

REVISED February 2004

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 11 - 13 of 15

Request:

What is the full cost of the Long Term Incentive Compensation Plan that is included in the 2004 Revenue Requirement?

Response:

As per Line 6, Schedule 2.3.1.8 As per the February 2004 Update, the amount of Long Term Incentive Compensation included in the 2004 Revenue Requirement is \$13.6 15.3 million (Refer to Line 6, Revised Schedule 2.3.1.8).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-008(a) December 11, 2003 Page 1 of 1

CAR-NGTL-008(a)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs, Appropriateness of TDC for NGTL, pg. 1 – 15 of 15

Request:

Within the Towers Perrin Data – TCPL's Comparator Group, please specify how many of participants in the study have Total Direct Compensation for executives and management including Long Term Incentive Compensation paid for by rate payers?

Response:

This information is not provided in the Towers Perrin data.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-008(b) December 11, 2003 Page 1 of 1

CAR-NGTL-008(b)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs, Appropriateness of TDC for NGTL, pg. 1 – 15 of 15

Request:

Within the Towers Perrin Data – TCPL's Comparator Group, please specify how many of participants in the study have Total Direct Compensation for non-management employees including Long Term Incentive Compensation paid for by rate payers?

Response:

This information is not provided in the Towers Perrin data.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-009(a) December 11, 2003 Page 1 of 1

CAR-NGTL-009(a)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 12 of 15

Preamble:

NGTL lists six items that reflect prudent business management and are tied to long-term incentives. They include financial measures (1), corporate governance (2), health and safety targets (3), cost containment (4), and both regulated (5) and non-regulated business growth (6).

Request:

Please specify the general performance levels and pay-out targets under the long-term incentives program required in order to receive such compensation.

Response:

Please refer to the response to CAPP-NGTL-008(a).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-009(b) December 11, 2003 Page 1 of 1

CAR-NGTL-009(b)

Issue:

Revenue Requirement, Total Direct Compensation and Benefits

Reference:

Section 2.3.2, Long-Term Incentive Programs pg. 12 of 15

Preamble:

NGTL lists six items that reflect prudent business management and are tied to long-term incentives. They include financial measures (1), corporate governance (2), health and safety targets (3), cost containment (4), and both regulated (5) and non-regulated business growth (6).

Request:

Please provide the specific performance levels and pay-out targets under the long-term incentives program required in order to receive such compensation which are specific to each of the six items listed.

Response:

It is not possible to link specific performance levels and pay-out targets to each of the six items listed.

As NGTL stated in the Application, Sub-section 2.3.2, page 12, lines 9 to 18, long-term incentives are tied to measures that, in aggregate, reflect sustained, prudent business management, including financial measures, corporate governance, health and safety targets, cost containment, and both regulated and non-regulated business growth. These measures are ultimately reflected in such aggregate measures as Total Shareholder Return (TSR) and stock price.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-010(a) December 11, 2003 Page 1 of 2

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, pg. 15 and 19

Request:

Has NGTL considered using the Average Service Life (ASL) depreciation procedure for depreciable facilities? If not, why not?

Response:

Yes, but NGTL does not believe the use of the Average Service Life (ASL) procedure to be appropriate for NGTL. The Equal Life Group (ELG) procedure results in a superior matching of depreciation expense to the consumption of service value than does the ASL method.

The Board has a long-standing practice of accepting the use of the ELG procedure for Alberta utilities. Within the recent past, the Board has reviewed and approved depreciation expenses resulting from depreciation rates based on the ELG procedure in a number of proceedings, including:

- 1999/2000 Electric Tariff Applications EPCOR Generation Inc. / EPCOR Transmission Inc. Decision U99099
- 1999/2000 Electric Tariff Application ATCO Electric Ltd. (Negotiated Settlement) Decision U99099
- 2000/2001/2002 General Rate Application AltaGas Utilities Inc. (Negotiated Settlement) Decision 2002-027
- ATCO Gas South (CWNG) 2000/2001 General Rate Application Decision 2001-096
- Aquila Networks Canada (Alberta) Ltd. 2002/2003 Distribution Tariff Application – Decision 2003-019
- AltaLink Management Limited May 2002 April 2004 General Transmission Tariff Application – Decision 2003-061
- ATCO Gas 2003/2004 General Rate Application Decision 2003-072

CAR-NGTL-010(a)

- ATCO Electric Ltd. 2003/2004 General Tariff Application Decision 2003-071
- ATCO Gas and Pipelines Limited, Pipeline Division 2003/2004 General Rate Application (Negotiated Depreciation Component) Decision 2003-100.

In addition to the above decisions, virtually all depreciation studies submitted to the Board since the 1980's have been prepared using the ELG procedure. In all circumstances, the Board has approved the depreciation expenses resulting from those studies.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-010(b) December 11, 2003 Page 1 of 1

CAR-N	NGTL-	010(b)

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, pg. 15 and 19

Request:

Please identify which depreciation procedure, ELG or ASL, is utilized by the pipeline industry participants identified by NGTL on page 15.

Response:

The use and acceptance of the ELG procedure varies between regulatory jurisdictions. As indicated in CAR-NGTL-010(a), all utilities regulated by the EUB have depreciation rates based on the ELG procedure. The pipelines listed at page 15 of Section 4.0 are all regulated by the National Energy Board (NEB), which historically has accepted depreciation studies using the ASL procedure. The depreciation rates of Enbridge Pipelines, Terasen Pipelines, and the TransCanada Mainline all currently are calculated using the ASL procedure. The depreciation rates for Alliance Pipeline were calculated in accordance with a 25-year amortization method.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-010(c) December 11, 2003 Page 1 of 1

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, pg. 15 and 19

Request:

Please provide the overall composite depreciation rate for NGTL based on the ASL depreciation methodology.

Response:

NGTL does not propose the use of the ASL procedure. Further, the requested information cannot be provided with reasonable effort.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-010(d) December 11, 2003 Page 1 of 1

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, pg. 15 and 19

Request:

Please provide a forecast of depreciation expenses over the 22 year economic planning horizon based on both ELG and ASL depreciation methodologies.

Response:

NGTL declines to provide the requested information. A 22-year forecast of depreciation expenses would require a forecast of facilities additions and retirements by asset account over the economic planning horizon. NGTL does not have such a forecast and believes that any such forecast would be valueless because of the number and magnitude of assumptions that would be required to complete it and could not be provided with reasonable effort.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(a) December 11, 2003 Page 1 of 1

CAR-NGTL-011(\mathbf{a})

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 - 3

Request:

Please provide NGTL's assessment of future natural gas demand for North America, including data and studies that NGTL is relying on.

Response:

Please refer to CAR-NGTL-11(a) attachment.

Western Canada Supply/Demand Balance (Bcf/d) - Base Case

	ation	lew Mainline	ر	84%	%62	72%	%69														
	IWP at Utilizatio	umas on New	_	38%	%89	%02	%02									54% 82%					
	_	0,	Š		%66																
		QTN	Utilization	63%	72%	82%	%98	%62	85%	%06	%06	%06	95%	95%	%06	88%	85%	82%	%92	%89	,000
Footnills	SK	Northern	Border	%26	88%	%06	82%	82%	82%	82%	82%	82%	%96	%26	82%	95%	86%	85%	79%	72%	,000
western	Canadian	Pipeline	Utilization	82%	%08	%62	%62	41.	41.	83%	83%	84%	85%	87%	%98	84%	82%	%62	74%	%89	7010
		Mainline	Flows	6.1	2.7	5.2	5.0	5.0	4.8	5.5	5.5	2.7	5.8	6.2	6.1	5.9	2.7	5.5	5.1	4.6	
	Flow on	New	Capacity					0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ı
	NWP at	Sumas	Flows	6.0	1.0	1.0	1.0	6.0	6.0	6.0	6.0	6.0	6.0	0.8	0.8	0.8	0.7	0.7	0.7	9.0	ı
		∢			1.6																
s			_		2.0																
Foothill	_	_	_		1.9																
	>	0	_		12.2																
		_	>	7.2	7.2	7.2	7.2														
			y Capacit					0.4	0.4	0.4	0.4	0.4	0.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	0
	NWP at	se Sumas	O	1.3	1.4	1.4	1.4	1.4								1.4				1.4	,
			_		1.6																
SIII		_	O		2 2.8																
Footniii		Z	_		15.2 2.2																
		U	_	1	1	1	1	1	1												
	stern Fuel on	_	_	1.3	4.6	1.9	5.1	5.3	9.6							3.8 0.1					
		0	_		16.8 4																
Northern		Alaska T	٠,	,	,	,	,	,	,	,	,	,	,	. 4	. 4	. 4	,	,	,	,	
Northern N		√akenzie A								1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
-		_	•	0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
WCSB	onventional &	nconventional	Supply	16.6	16.8	17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.5	18.9	18.8	18.6	18.3	17.9	17.2	16.4	0
	Ŏ	<u>ā</u>		2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	00,000

New	_,	2002	2003	2004	2002	2006	2007	2008											2020
	Residential	9.0	9.0	0.5	0.5	0.5	0.5	9.0											
	Commercial	0.4	0.4	0.4	0.4	0.4	4.0	0.5											
	Industrial	0.4	9.4	0.4	4.0	0.4	4.0	4.0											
	Electric Generation	8.0	o. c	0.0	0.0	0.0	- 0	- 6											
		0.0	0.0	0.0	5.0	0.00	0.00	0.0			l		l			l	l		
Σ	ddle-Atlantic	2002	2003	2004	2005	2006	2007	2008											
	Residential	23	2.4	2.4	2.5	2.5	2.5	2.5											
	Commercial	1.7	6.	- 6: 6:	6.	2.0	2.0	2.0											
	Industrial	1.2	1.2	1.2	1.3	1.3	1.3	1.3											
	Electric Generation	1.1	1.1	1.2	1.3	1.4	1.5	1.6											
	Other (Including P/L Fuel)	0.2	0.1	0.2	0.2	0.2	0.2	0.2											
	Total	6.5	6.7	6.9	7.1	7.3	7.5	9.7											
Sou	₽.	2002	2003	2004	2002	2006	2007	2008											
	Residential	1.2	ε.	7.3	4.	1.4	4.	1.5											
	Commercial	1.0	0.1	1.0															
	Industrial	9.1	9. 1	9.7	1.7	2.0	∞. ι	1.0											
	Electric Generation	ر. د. د	٠.٢	D. C	0 2.0	N 0	Z.50	2.7											
	Other (including P/L Fuel)	0.2	0.2	0.2	0.2	0.2	0.2	0.2											
ı		5.5	5.9	6.1	6.3	6.7	۲./	4.7											
East		2002	2003	2004	2005	2006	2007	2008											
	Residential	o. 6	4.0	2.4	4. α ε. α	4. c	4 c	4. 0											
	Commercial	L.7	7.7	7.7	2.2	7.7	ا ا	ا د د											
	Industrial	9 9	υ. υ. α	n 0	4. ć	. v. v	υ, τ υ, τ	3.5 0.5											
	Differ deneration	0.0	ο c	9.0	0.5	- 6	- 6	ا ان د											
	Total	0.0	20.5	0.0	5.5	5.5	5 t	11.7											
×		5.00	2002	900	2005	+	2000	7000											
, ,	West North Certifal	2002	5002	4004	4.2	2000	1 2	2000											
	Commercial	7.0			. o	o		† o											
		. c	D +		. t	. t	. t	. 4											
	Industrial	- 6	- 6		- 6	- 0	- 6	- 5											
	Other (Including P/I Firel)	5.0	0.0	5.0	5.0	. 4	. 4	4 4											
	Total	800	3.9	3.9	4.0	4.1	4.2	43											
East	(V)	2002	2003	2004	2005	2006	2007	2008											
		0.6	0.6	0.6	0.6	0.6	0.6	0.6											
	Commercial	0.4	0.4	0.4	0.4	0.4	0.4	0.4											
	Industrial	1.3	1.3	1.3	1.3	1.3	1.3	1.3											
	Electric Generation	0.7	0.7	0.7	0.8	0.0	1.0	. .											
	Other (Including P/L Fuel)	0.3	0.3	0.3	0.3	0.3	0.4	0.4											
	_	3.2	3.3	3.3	3.4	3.6	3.7	3.8											
Š	West South Central	2002	2003	2004	2002	2006	7007	2008											
	Residential	0.0	1.1		1.7		- 0												
	Industrial	0.00	7 0.9	9.0	9.0	7 0.3	9.6	0.9											
	Flectric Generation	6.4	4.5	5. 4	4.6	0. 4	5 + 1	. 2											
	Other (Including P/L Fuel)	2.0	2.0	1.9	2.0	2.1	2.1	2.2											
	Total	16.4	15.6	15.3	15.6	16.5	16.9	17.1											
Mon	ountain	2002	2003	2004	2005	2006	2007	2008											
	Residential	6:0	6.0	1.0	1.0	1.0	1.0	1.1											
	Commercial	9.0	9.0	0.7	0.7	0.7	0.7	0.7											
	Industrial	8.0	0.8	0.8	0.8	0.8	8.0	8.0											
	Differ (Including D/I Firel)	0.5	γ α	ر. د. و	4. 0	o. c	- ⊂ 4. σ	v. c											
	Total	4.0	4.3	4.6	4.7	4.9	4.9	5.0											
Pac	Ęį.	2002	2003	2004	2005	2006	2007	2008											
	Residential	1.7	1.8	1.8	1.8	1.8	1.9	1.9											
_	Commercial	6.0	6.0	0.9	1.0	1.0	1.0	1.0			1.0		1.1				1.1		
_	Industrial Floorin Congration	2.5	2.3	2.3	2.4	2.6	2.7	2.8	2.8	2.8				2.9	2.9	2.9		3.0	
	Electric Generation Other (Including B/I Eligi)	0.2	<u>.</u>	7.7	4.7	2.0		,											
		0.3	0.3	0.3	0.3	0.3	 4.0	6.9				3.5							

Total L48 Demand	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential	13.4	13.9	14.2	14.4	14.6	14.8	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.9	16.0	16.2	16.3	16.5
Commercial	8.7	9.2	9.4	9.5	9.6	8.6	6.6	10.0	10.1	10.2	10.2	10.3	10.5	10.6	10.7	10.8	10.9	1.1	11.2
Industrial	19.9	19.1	18.9	19.3	20.2	20.6	20.8	21.0	21.0	20.9	20.9	21.1	21.2	21.3	21.5	21.6	21.8	22.0	22.1
Electric Generation	12.9	13.1	14.1	14.8	16.0	16.9	17.8	18.7	19.0	19.4	19.8	20.6	21.2	21.8	22.7	23.3	24.0	24.7	25.5
Other (Including P/L Fuel)	4.4	4.5	4.5	4.6	4.8	4.9	5.0	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.5	5.6	5.6	2.7	5.8
Total	59.3	59.8	61.1	62.6	65.1	0.79	68.5	69.7	70.3	70.9	71.6	72.8	73.9	74.9	76.3	77.4	78.6	8.62	81.1
Alaskan Demand	2002	2003	2004	2005	2006	2007	2008	5009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Industrial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electric Generation	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Other (Including P/L Fuel)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	0.9
Total	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7
Total US Demand (L48 & Alaska)	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential	13.4	14.0	14.3	14.5	14.7	14.8	15.0	15.1	15.2	15.3	15.4	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6
Commercial	8.8	9.2	9.4	9.6	9.7	6.6	10.0	10.1	10.2	10.3	10.3	10.4	10.5	10.7	10.8	10.9	11.0	11.2	11.3
Industrial	20.1	19.3	19.1	19.5	20.4	20.8	21.0	21.2	21.2	21.1	21.1	21.3	21.4	21.5	21.7	21.8	22.0	22.2	22.3
Electric Generation	13.0	13.2	14.2	15.0	16.1	17.1	18.0	18.9	19.3	19.6	20.1	20.9	21.6	22.2	23.0	23.7	24.4	25.1	25.9
Other (Including P/L Fuel)	5.1	5.3	5.3	5.4	9.6	2.7	5.8	5.9	5.9	0.9	6.1	6.2	6.3	6.3	6.4	6.5	6.5	9.9	6.7
C+C+	80 E	010	603	0 63	2 23	600	0 00	711	71.0	70.3	72.4	7 7 7	75 5	76.5	70.0	70.0	0 00	1 FO	0 00

Canadian Demand Consumption (bcf/d - Gas year basis)

0.0 0.0 0.2 0.3 0.1 0.8 0.8 0.8 1.0 1.0 2.3 2.3 | Company | Comp 2015 2010 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 2012 2010 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 0003 0000 Commercial Industrial/ Elect. Gen. / Other / Other Commercial Industrial/ Elect. Gen. / Other Commercial ndustrial/ Elect. Gen. / Other ndustrial/ Elect. Gen. / Other Commercial Industrial/ Elect. Gen. / Other Gen. / Other Commercial Industrial/ Elect. Gen. Gen. ndustrial/ Elect.

US Exports

Mexic	00	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Net Exports	2.0	0.7	0.8	6.0	0.1	-0.2	-0.1	0.0	0.1	0.2	0.1	0.0	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
LNG		2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Exports from Alaska	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Total North American Demand Consumption

al North American Demand Consumption	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential	15.1	15.6	16.0	16.2	16.4	16.6	16.8	16.9	17.0	17.2	17.3	17.4	17.6	17.7	17.9	18.1	18.2	18.4	18.6
Commercial	10.0	10.5	10.7	10.9	11.0	11.2	11.3	11.5	11.6	11.6	11.7	11.9	12.0	12.1	12.3	12.4	12.6	12.7	12.9
Industrial 1	25.1	24.7	24.8	25.6	26.7	27.5	28.0	28.6	28.8	29.0	29.1	29.5	29.8	30.2	30.5	30.8	31.1	31.4	31.6
Electric Generation 2	13.0	13.2	14.2	15.0	16.1	17.1	18.0	18.9	19.3	19.6	20.1	20.9	21.6	22.2	23.0	23.7	24.4	25.1	25.9
Other (Including P/L Fuel)	5.1	5.3	5.3	5.4	5.6	2.7	5.8	5.9	5.9	0.9	6.1	6.2	6.3	6.3	6.4	6.5	6.5	9.9	6.7
Mexico	0.7	0.7	0.8	6.0	0.1	-0.2	-0.1	0.0	0.1	0.2	0.1	0.0	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
Exports from Alaska	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total	69.2	70.2	72.1	74.2	76.2	78.1	80.0	81.8	82.9	83.8	84.7	86.1	87.5	88.5	90.2	91.4	92.8	94.2	92.6

1 Industrial demand consumption in Canada includes these sectors: Electric Generation, Transportation, Plant & Lease Fuel, Pipeline Fuel 2 Includes Electric Generation in US L48 only. Canadian Electric Generation demand is included in the Industrial sector.

NORTH AMERICAN SUPPLY Base Case

WCSB Total WCSB Supply 16.8 16.6 16.8 17.0 17.2 17.4 17.6 17.9 18.5 19.6 20.0 20.0 20.3 20.3 20.4 21.7 21.7 20.7 20.4 19.7 18.5			2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Other Northern Supply 0.0 0.0 0.0 0.0 1.0 1.1 1.3 1.4 1.5 1.0	WCSB	Total WCSB Supply		16.6		17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.5	18.9	18.8	18.6	18.3	17.9	17.2	16.4	15.3
ern Offshore (Sable) 0.5 0.5 0.6 0.6 0.6 0.6 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Other	Other Northern Supply					0.0	0.0	0.0	1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
I Cdn & Northern Supply 17.4 17.1 17.4 17.6 17.8 17.9 18.5 19.6 20.0 20.3 20.8 21.4 21.2 21.0 20.7 20.4 19.7		ern Offshore (Sabl	0.5	0.5	9.0	9.0	9.0	9.0	6.0	6.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		l Cdn & Northern Su	17.4	17.1	17.4	17.6	17.8	17.9	18.5	19.6	20.0	20.3	20.8	21.4	21.2	21.0	20.7	20.4	19.7	18.8	17.7

		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Lower 48																			
	GOM Offshore	12.3	12.0	12.6	13.2	13.7	14.3	14.7	15.0	15.4	15.8	16.1	16.3	16.4	16.6	16.8	16.9	17.0	17.0
	GOM Onshore	13.7	13.4	13.6	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.7	13.6	13.5	13.4	13.2	13.1
	Mid-Continent	6.5	6.2	6.1	0.9	5.9	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.1	2.0	5.0	4.9
	Permian Basin	4.4	4.4	4.3	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.6
	San Juan Basin	3.5	3.5	3.4	3.4	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.7
	Rockies Basins	6.1	6.3	9.9	6.8	7.2	7.5	7.7	7.9	8.1	8.5	8.7	8.9	9.1	9.2	9.4	9.5	9.6	9.7
	Appalachia	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9
	Mid-Atlantic	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	Northern California	0.3	4.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	9.0	0.4	0.4	0.4	0.4	0.4
	Southern California	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Michigan	0.8	0.8	6.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3
	Ventura	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Florida	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	N. Dakota	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Lower 48 Subtotal	49.9	49.2	50.2	51.3	52.3	53.3	53.9	54.2	54.8	55.3	55.6	55.8	26.0	56.1	56.2	56.2	56.1	55.9
Supplemental Gas	Gas	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
US LNG		9.0	1.5	2.2	3.5	4.6	5.1	5.5	5.9	0.9	6.1	6.1	6.7	8.2	9.1	9.6	10.5	11.3	11.8
Existing Alaska Production	ka Production	4.1	4.1	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9
Other Southern Supplies	n Supplies 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.1	3.6	5.5
Total US Supply	À	52.2	52.4	54.2	56.6	58.7	60.3	61.3	62.0	62.7	63.3	63.7	64.5	66.2	67.3	69.4	70.9	73.1	75.4

1 Other Southern Supplies, which could include additional LNG, Mexican imports, a pipeline from Trinidad or Venezuela, or Potential Production from unconventional gas in the Gulf of Mexico, may be greater in the later years if North American demand is sufficient.

Total North American Supply

95.7

94.2

87.4 88.3

85.9

82.7 83.6 84.5

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total North American Supply	9.69	9.69	71.5	74.2	76.5	78.2	79.7	81.7	82.7	83.6	84.5	85.9	87.4	88.3	90.2	91.2	92.7	94.2	95.7
Total North American Demand	69.2	70.2	72.1	74.2	76.2	78.1	80.0	81.8	82.9	83.8	84.7	86.1	87.5	88.5	90.2	91.4	92.8	94.2	92.6
Storage/Balancing Item	0.3	9.0-	9.0-	0.0	0.2	0.1	-0.3	-0.2	-0.1	-0.2	-0.2	-0.1	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(b) December 11, 2003 Page 1 of 1

CAR-N	GTL-0	111	(h)	

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 – 3

Request:

Please provide NGTL's assessment of what supply sources will be utilized to meet the demand scenario identified in a). If NGTL's assessment does not include Alaskan gas, please explain in detail why not? Please include all internal and external studies and workpapers.

Response:

For NGTL's assessment of supply sources, please refer to the response to CAR-NGTL-011(a). Please also refer to the Application, Section 4.0, Appendix A – Supply Study, page 2, lines 14-28, and page 3, line 1, for the reasons NGTL has not included Alaskan gas. Also refer to the response to CAR-NGTL-011(f).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(c) December 11, 2003 Page 1 of 2

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 – 3

Request:

Please explain in detail why NGTL states that the later the development of Alaskan resource, the more likely it is that the development will take the form of gas-to-liquids or liquefied natural gas development? Please provide all internal and external studies and workpapers.

Response:

NGTL has relied on several sources to reach the above conclusion.

The State of Alaska and the US Department of Energy have actively investigated the viability of commercializing Alaskan North Slope natural gas. The State of Alaska in particular has been supporting gas commercialization efforts such as Liquefied Natural Gas (LNG) and Gas-To-Liquids (GTL).

GTL

BP has built a small scale test GTL plant in Nikiski where the technology to develop GTL can be transferred to the North Slope. The small scale test facility is suited to a long term learning curve strategy where costs can be driven down with time. While the current state of technical feasibility for GTL is still being developed, future research in this area will lead to lower costs and hence, greater viability. Also, there is a strong incentive to develop GTL in later years as North Slope oil production continues to decline. At low oil production, the economics of a GTL operation are significantly enhanced when the production from a GTL plant can be used to lower the tariffs on the Trans Alaska Pipeline System (TAPS). In particular, the Oil & Gas Journal December 6, 1999, "GTL Technology Augments Gas Production Options", page 45-46 discusses a "window of opportunity" for GTL that when taken into consideration with the State of Alaska revised forecasts from its 2002 report would be after 2022.

CAR-NGTL-011(c)

LNG

There has been a small scale LNG operation in Alaska for over 30 years and efforts to expand this operation to include the North Slope are regularly reviewed. At this time, a pipeline is seen as the most economic of the three options. In the future, circumstances are not assured to remain this way. Thus in a relative sense, the LNG option has a higher likelihood to be realized if the resource is developed later.

These and other insights have been obtained by NGTL through reviewing the following studies:

- (a) Options for Gas-to-Liquids Technology in Alaska, E.P. Robertson, Idaho National Engineering and Environmental Laboratory INEEL/EXT-99-01023, December 1999
- (b) Alaska Oil and Gas Energy Wealth or Vanishing Opportunity? US Department of Energy (in cooperation with the State of Alaska) DOE/ID/01570-H1 January 1991
- (c) Juneau Report Alaska Gas... what's the next move? BP Spring 1991
- (d) Critical Evaluation of Options for Utilizing Alaska North Slope Natural Gas, D.A. Lannon et al University of Alaska Fairbanks, SPE paper 35701
- (e) CERA White Paper Alaskan Natural Gas October 1999
- (f) State of Alaska 2002 Report.
- (g) Oil & Gas Journal December 6, 1999, Volume 49, GTL Technology augments gas production options page 45-46

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(d) December 11, 2003 Page 1 of 1

CAR-NGTL-011	(d)
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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 - 3

Request:

Please explain in detail why NGTL's parent TCPL would invest additional dollars in Foothills Pipelines in light of the "too speculative to consider" nature of the Alaskan pipeline development?

Response:

TCPL's purchase of an additional interest in the Foothills pipeline was driven, in part, by TCPL's desire to be as well-positioned as possible to participate in an Alaska project, should it occur. The magnitude of the potential impact of an Alaskan project on TCPL and NGTL, either positive or negative, made the acquisition important, even if the probability of an Alaskan pipeline project is low or if the timing is not certain.

In other words, the implications of an Alaskan project are so large for NGTL and TCPL that TCPL could not afford <u>not</u> to make the investment in Foothills if that investment in any way increased the probability of participation in an Alaskan project. The magnitude of the benefit of attracting incremental supply and preventing further off-loading of existing infrastructure is simply too large to ignore regardless of the uncertainties of the project.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(e) December 11, 2003 Page 1 of 1

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 – 3

Request:

What are TCPL's expected short-term and long-term returns from its recent incremental investment in Foothills Pipelines? What are TCPL's expected short-term and long-term returns from its ownership in NGTL? Please provide detailed calculations and supporting data.

Response:

NGTL declines to answer this question because the requested information is confidential and not relevant to this proceeding. Furthermore, a response would violate disclosure rules.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(f) December 11, 2003 Page 1 of 1

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 – 3

Request:

Please explain in detail why NGTL's parent TCPL, in its 2003 Rate Case, included Alaskan gas in its determination of an economic planning horizon for the mainline, but NGTL chose to exclude Alaskan gas? Please provide all internal and external studies and workpapers relied on by TCPL and NGTL.

Response:

NGTL considers Alaska gas to be too speculative to include. Not only is there uncertainty with respect to whether the project is economic or not, the timing of the project is not certain. In addition, if and when there is a project to develop Alaska gas, there is uncertainty with respect to whether or not it will be a gas pipeline project. Finally, if and when a gas pipeline project is completed to move Alaska gas to market, there is uncertainty with respect to whether the project will be integrated with the existing WCSB infrastructure.

The following factors influenced NGTL's decision to exclude Alaskan gas for purposes of the Supply Study provided. Almost three years have passed since gas prices peaked at \$10.00/Mcf (NYMEX) and more than two years have passed since the events of September 11/01 heightened concerns for energy security. The lack of progress for the project during this time has made NGTL less optimistic about the project. NGTL also notes that the focus on LNG has increased markedly over the past year.

Over the same time frame, NGTL has recognized the progress made with respect to the Mackenzie Delta project and has, accordingly, included Delta gas.

NGTL continues to recognize the possibility of an Alaska gas pipeline project, but does not believe it should be included in an assessment of reasonably likely future flows on the Alberta System.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(g) December 11, 2003 Page 1 of 1

CAR-NGTL-011(g)

REVISED February 2004

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 - 3

Request:

Please provide NGTL's assessment of the economic planning horizon with Alaskan resource included as a supply source for NGTL.

Response:

Please refer to the response to CAPP-NGTL-5(b).

NGTL has completed the assessment of an economic planning horizon for the "with Alaska" supply case and has determined that it would fall in the 2050 to 2055 interval. Gannett Fleming has informed NGTL that such a planning horizon is equivalent to no truncation date case.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(h) December 11, 2003 Page 1 of 1

CAR-NGTL-011(h)

REVISED February 2004

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 – 3

Request:

Please provide the overall composite depreciation rate for NGTL based on the economic planning horizon determined in g).

Response:

Please refer to the response to CAPP-NGTL-005(b).

Please refer to the response to CG-NGTL-012(g), which provides the overall composite depreciation rate if no truncation date is used.

NGTL does not believe that the composite depreciation rate under a no truncation date case (under either the base supply case or the "with Alaska" supply case) is an appropriate depreciation rate for Alberta System facilities. Further, NGTL believes that it would be misleading to give any consideration to one extreme case, a high alternative supply case such as "with Alaska" without considering the low supply case. NGTL is, therefore, including the results of the low supply case in this response.

<u>Under NGTL's low supply case, the truncation date is 2015 and the overall composite</u> depreciation rate, when applied to 2004 account balances, is 5.68%.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-011(i) December 11, 2003 Page 1 of 1

CAR-NGTL-011(i	(
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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix A – Supply Study, pg. 2 - 3

Request:

Should Alaskan gas be developed in the 2010 – 2015 timeframe, will NGTL have underutilized capacity to transport Alaskan gas through Alberta?

Response:

Yes, as per NGTL's current expectations.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-012 December 11, 2003 Page 1 of 2

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix C – Depreciation Study, pg. I-10

Preamble:

Gannett Fleming states that the net salvage estimates for depreciable and amortizable property were based on judgement that incorporated analyses of historical data, a review of policies and outlook with NGTL management, a general knowledge of the gas pipeline industry, and comparisons of the net salvage estimates from studies of other gas pipelines.

Request:

- (a) Please provide copies of the studies of other gas pipelines utilized for comparisons of the net salvage estimates.
- (b) Please explain in detail how these studies were utilized in estimation of the net salvage percentages for NGTL.
- (c) Please provide justification and rationale for any differences in net salvage percentages between NGTL and the studies of other gas pipelines.

Response:

(a) The referenced quote was made to point to the experience of Gannett Fleming in the preparation of hundreds of depreciation studies over many decades. Attachment CAR-NGTL-012 is a listing of over 100 cases of Gannett Fleming testimony since 1992. While Gannett Fleming has testified and assembled an extensive library of depreciation testimony for many decades prior to 1992, the most recent 11-year period is considered to be the most relevant to this study. As these testimonies are on the public record, copies have not been provided.

CAR-NGTL-012

- (b) The knowledge gained from the participation of Gannett Fleming in the development of depreciation studies provides Gannett Fleming with a background upon which to develop an expert opinion on the appropriateness of the net salvage percentages. It is with this knowledge and background that Gannett Fleming was able to interpret the data provided, conduct meaningful staff interviews, and make the determination that certain transactions with regard to the divesture activities should be excluded from the analysis of net salvage in order to develop appropriate net salvage percentages for the current asset base.
- (c) Every utility has a number of unique circumstances that result in differences in the net salvage percentages. While comparisons to the net salvage percentages of peer companies provide a basis to test the reasonableness of the selected net salvage percentage, it would be unusual for a number of gas pipelines to have identical net salvage percentages. As such, it is virtually impossible to develop a list of reasons that would provide any type of meaningful analysis as to the reasons that the net salvage percentages in each of the amount of depreciation studies conducted by Gannett Fleming for gas pipelines are different from the specific net salvage percentages selected by Gannett Fleming in this proceeding.

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH WILLIAM M. STOUT, P. E. TESTIFIED

<u>Year</u> 1. 1992	Jurisdiction Pa. PUC	<u>Docket No</u> . R- 912164	Client/ Utility Equitable Gas Company	Subject Depreciation
2. 1992	Pa. PUC	R- 922180	The Peoples Natural Gas Company	Depreciation
3. 1992	Pa. PUC	R- 922168	The York Water Company	Depreciation, Cost Allocation and Rate Design
4. 1992	Pa. PUC	C- 913749	North Penn Gas Company	Main Extension Policy
5. 1992	Pa. PUC	R- 922195	UGI Utilities, Inc Electric Utility Division	Depreciation
6. 1992	Pa. PUC	R- 922254	Apollo Gas Company	Depreciation, Cost Allocation and Rate Design
7. 1992	Pa. PUC	R- 922428	Pennsylvania- American Water Company	Cost Allocation and Rate Design
8. 1992	National Energy Board	RH- 2- 92	TransCanada PipeLines Limited	Depreciation
9. 1992	Pa. PUC	R- 922378	West Penn Power Company	Depreciation
10. 1992	Pa. PUC	R- 922420	Shenango Valley Water Company	Depreciation
11. 1993	Pa. PUC	R- 922476	Philadelphia Suburban Water Company	Customer Demand Study
12. 1993	Pa. PUC	R- 932548	National Fuel Gas Distribution Corporation - PA Division	Depreciation
13. 1993	Pa. PUC	R- 932665	Roaring Creek Water Company	Depreciation
14. 1993	Pa. PUC	C- 935103	Shenango Valley Water Company	Valuation of Mercer Water Company
15. 1993	Pa. PUC	R- 932798	Shenango Valley Water Company	Depreciation
16. 1994	Pa. PUC	R- 932886	The Peoples Natural Gas Company	Depreciation
17. 1994	Pa. PUC	R- 932862	UGI Utilities, Inc Electric Division	Depreciation
18. 1994	Pa. PUC	R- 932670	Pennsylvania- American Water Company	Cost Allocation and Rate Design
19. 1994	Pa. PUC	R- 932868	Philadelphia Suburban Water Company	Cost Allocation and Rate
20. 1994	Pa. PUC	R- 932952	Penn Fuel Gas, Inc.	Depreciation, Cost Allocation and Original Cost

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH WILLIAM M. STOUT, P. E. TESTIFIED (cont'd)

<u>Year</u> 21. 1994	Jurisdiction Pa. PUC	<u>Docket No</u> . R- 942991	Client/ Utility National Fuel Gas Distribution Corporation - PA Division	Subject Depreciation
22. 1994	Pa. PUC	R- 942986	West Penn Power Company	Depreciation
23. 1994	Pa. PUC	R- 943124	City of Bethlehem – Bureau of Water	Depreciation and Original Cost
24. 1994	Pa. PUC	R- 943157	Pennsylvania- American Water Company	Wholesale Rates of the Newtown Artesian Water Company
25. 1995	PUC of Texas	12065	Houston Lighting & Power Company	y Depreciation
26. 1995	Pa. PUC	R- 943231	Pennsylvania- American Water Company	Depreciation, Cost Allocation and Rate Design
27. 1995	Pa. PUC	R- 943252	The Peoples Natural Gas Company	Depreciation
28. 1995	Pa. PUC	R- 953299	National Fuel Gas Distribution Corporation - PA Division	Depreciation
29. 1995	Pa. PUC	R- 943245	North Penn Gas Company	Depreciation, Cost Allocation and Rate Design
30. 1995	Pa. PUC	R- 953297	UGI Utilities, Inc Gas Division	Depreciation
31. 1995	III. Commerce Commission	95- 0076	Illinois- American Water Company	Single Tariff Pricing, Cost Allocation and Rate Design
32. 1995	Pa. PUC	R- 953343	Philadelphia Suburban Water Company	Depreciation, Cost Allocation and Rate Design
33. 1995	Alberta Energy & Util. Board	/	Centra Gas of Alberta, Inc.	Depreciation
34. 1995	NJ BPU	WR95040165	New Jersey- American Water Company	Cost Allocation and Rate Design
35. 1995	Pa. PUC	R- 953406	T. W. Phillips Gas and Oil Co.	Depreciation, Cost Allocation and Rate Design
36. 1996	Ct. DPUC	95- 10- 13	Connecticut- American Water Company Re Stamford Water Company	Cost Allocation and Rate Design
37. 1996	NJ PBU	WR95110557	New Jersey- American Water Company Re Elizabethtown Water Company	Cost Allocation and Rate Design
38. 1996	Pa. PUC	R- 953534	UGI Utilities, Inc Electric Division	Depreciation
39. 1996	Pa. PUC	R- 953524 PFG	Gas, Inc. and North Penn Gas	Depreciation, Cost Allocation and Company Rate Design

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH WILLIAM M. STOUT, P. E. TESTIFIED (cont'd)

<u>Year</u> 40. 1996	Jurisdiction Can. Radio- T\ & Telecom Cor		Client/ Utility AGT Limited	Subject Depreciation
41. 1996	The Bd of Commissioners of Public Utilities	- 1996 General Rate Proceed- ing	Newfoundland Light & Power Co. Limited	Depreciation
42. 1996	Arizona Corp. Commission	E- 1032- 95- 417	Citizens Utilities Company - Maricopa Water/ Wastewater Operations	Cost Allocation and Rate Design
43. 1997	Ct. DPUC	95- 06- 33	Connecticut- American Water Company Re Bridgeport Hydraulic Company	Cost Allocation and Rate Design
44. 1997	Pa. PUC	R- 00973869	Consumers Pennsylvania Water Company - Roaring Creek Division	Depreciation, Cash Working Capital and Distribution System Improvement Charge
45. 1997	Pa. PUC	R- 00963858	Equitable Gas Company	Depreciation
46. 1997	Ind. URC	Cause No. 40703	Indiana- American Water Company, Inc.	Depreciation
47. 1997	III. Commerce Commission	97- 0102	Illinois- American Water Company	Cost Allocation and Rate Design
48 1997	FERC	RP97- 126- 000	Iroquois Gas Transmission System	Depreciation
49. 1997	Pa. PUC	R- 00973972	Consumers Pennsylvania Water Company - Shenango Valley Division	Depreciation on
50. 1997	Alaska	PUC U- 97- 107	Chugach Electric Association, Inc.	Depreciation
51. 1997	Pa. PUC	R- 00973975	UGI Utilities, Inc Electric Division	Depreciation
52. 1998	NJ BPU	WR98010015	New Jersey- American Water Company	Cost Allocation and Rate Design
53. 1998	MO PSC	WO- 98- 204	Missouri- American Water Company	Cost Allocation and Rate Design
54. 1999	Alberta Energy & Util. Board	Application No. 980550	Enmax Corporation Re Edmonton Power Generation, Inc.	Depreciation
55. 1999	Pa. PUC	R- 00994638	Pennsylvania- American Water Company	Depreciation, Cost Allocation and Rate Design
56. 1999	NH PUC	DW 99- 057	Hampton Water Works Company	Depreciation, Cost Allocation and Rate Design
57. 2000	MO PSC	WR- 2000- 281	Missouri- American Water Company	Cost Allocation and Rate Design

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH WILLIAM M. STOUT, P. E. TESTIFIED (cont'd)

<u>Year</u> 58. 2001	Jurisdiction PUC of TX	<u>Docket No</u> . 22355	Client/ Utility Reliant Energy	Subject Depreciation
59. 2001	PUC of CO	00S- 422G	Public Service Company of Colorad	lo Depreciation
60. 2001	MO PSC	WR- 2000- 844	St. Louis County Water Company	Depreciation, Cost Allocation and Rate Design
61. 2001	County of Ulste	er 99- 2096	City of New York	Valuation
62. 2002	MO PSC	EC- 2002- 1	Union Electric Company, d/ b/ a AmerenUE	Depreciation
63. 2002	Reg. Com. of AK	U- 01- 108	Chugach Electric Association, Inc.	Depreciation
64. 2003	National Energy Bd. Of Canada	RH-1-2002	TransCanada Pipelines Limited	Depreciation
65. 2003	Cal.PUC		Pacific Gas and Electric	Depreciation

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH JOHN J. SPANOS SUBMITTED TESTIMONY

1.	<u>Year</u> 1998	<u>Jurisdiction</u> Pa. PUC	<u>Docket No</u> . R- 00984375	Client/ Utility City of Bethlehem- Bureau of	Subject
١.	1990	r a. r 00	N 00004070	Water	Original Cost and Depreciation
2.	1998	Pa. PUC	R- 00984567	City of Lancaster	Original Cost and Depreciation
3.	1999	Pa. PUC	R- 00994605	The York Water Company	Depreciation
4.	2000	D. T.& E.	DTE 00- 105	Massachusetts- American Water Company	Depreciation
5.	2001	Pa. PUC	R- 00016114	City of Lancaster	Original Cost and Depreciation
6.	2001	Pa. PUC	R- 00016236	The York Water Company	Depreciation
7.	2001	Pa. PUC	R- 00016339	Pennsylvania- American Water Company	Depreciation
8.	2001	PUC of Ohio	01- 1228-	GA- AIR Cinergy Corp Cincinnati Gas and Electric Company	Depreciation
9.	2001	Ky. PSC	2001- 092	Cinergy Corp Union Light, Heat and Power Company	Depreciation
10.	2002	Pa. PUC	R- 00016750	Philadelphia Suburban Water Co.	Depreciation
11.	2002	Ky. PSC	2002- 00145	Columbia Gas of Kentucky	Depreciation
12.	2002	NJ BPU	GR02040245	NUI Corporation/ Elizabethtown Gas Co.	Depreciation
13.	2002	ld. PUC	IPC- E- 03- 7	Idaho Power Company	Depreciation
14.	2003	Pa. PUC	R- 0027975	The York Water Company	Depreciation
15.	2003	Ind. URC	Cause 42359	Cinergy Corp PSI Energy, Inc.	Depreciation
16.	2003	Pa. PUC	R- 00038304	Pennsylvania- American Water Co.	Depreciation
17.	2003	Mo. PSC	WR- 2003- 0500	Missouri- American Water Co.	Depreciation
18.	2003	FERC		NSTAR - Boston Edison Company	Depreciation

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH LARRY E. KENNEDY SUBMITTED TESTIMONY

1.	<u>Year</u> 1999	<u>Jurisdiction</u> Alberta EUB	<u>Docket No</u> . 980550	Client/ Utility ENMAX Corporation. RE: Edmonton Power Corp.	Subject Depreciation
2.	2000	Alberta EUB	Negotiated Settlement	AltaGas Utilities Inc.	Depreciation
3.	2001	Alberta DOE	(Note 1)	ENMAX Power Corporation -Electric Transmission Assets	Depreciation
4.	2001	Alberta EUB	2000-365	City of Calgary RE: ATCO PipeLines South	Depreciation
5.	2001	Alberta EUB	2000-350	City of Calgary RE: ATCO Gas South	Depreciation
6.	2001	Alberta EUB	1237673	City of Calgary RE: ATCO Affiliate Hearing	Cost Allocation
7.	2002	British Columbi Utilities Commission	ia (Note 1)	Centra Gas British Columbia	Depreciation
8	2002	Alberta DOE	(Note 1)	ENMAX Power Corporation -Electric Transmission Assets	Depreciation- Technical Update
9.	2003	Manitoba PUC	(Note 1)	Manitoba Hydro	Depreciation
10	2003	Alberta EUB	1279345	AltaLink L.P.	Depreciation
11.	2003	National Energy Bd. Of Canada	RH-1-2002	TransCanada PipeLines Limited	Depreciation
12.	2003	Alberta EUB	1275466	City of Calgary RE: ATCO Gas	Depreciation
13.	2003	Alberta EUB	1275494	City of Calgary RE: ATCO Electric	Depreciation
14.	2003	Manitoba PUC	(Note 2)	Centra Gas Manitoba	Depreciation
15.	2003	Alberta EUB	1275494	City of Calgary RE: ATCO Pipelines	Depreciation

Note 1: Depreciation reports were submitted for review. Public hearings were not held.

Note 2: Evidence was filed. An Appearance in the public hearing was not required.

LIST OF GANNETT FLEMING DEPRECIATION RELATED TESTIMONY SINCE 1992 LIST OF CASES IN WHICH JOHN F. WIEDMAYER SUBMITTED TESTIMONY

Year Jurisdic	ion Docket No.	Client/ Utility	<u>Subject</u>
1. 2000 Kentuc	ky 2000-373	Jackson electric Cooperativ	e Depreciation
Public	Service		
Comm	ssion		
2. 2002-03 Newfo	ındland	Newfoundland Power, Inc.	Depreciation
and La	orador Bd.		
Of Cor	nmissioners		
Of Pub	lic Utilities		
3. 2003 Nova S	cotia P-879	Nova Scotia Power	Depreciation
Utiltiy	and		•
Reviev			

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-013 December 11, 2003 Page 1 of 2

CAR-NGTL-013

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix C – Depreciation Study, pg. II-11

Preamble:

Gannett Fleming states that in future years, the market value of various segments will be reduced as the gas supply becomes more limited. Gannett Fleming also states that booked costs of plant retired, the costs of removal and gross salvage proceeds resulting from these divestiture transactions were removed from the database of net salvage transactions analyzed.

Request:

- (a) Please identify each segment which will have reduced market value, the amount of market value reduction, and the timing of expected reduction.
- (b) What type of industry participants have purchased facilities from NGTL, ex. producers, pipeline companies, gas processing companies, etc?
- (c) Please provide NGTL's views on the rationale for the facility purchases made by these participants from NGTL.
- (d) Please provide analysis of net salvage transactions which include data from divestiture transactions.

Response:

(a) Gannett Fleming's comments regarding the future market value of various segments were general in nature and based on the company interviews. The notes resulting from the company interviews are attached to the response to ATCO-NGTL-012(b).

Gannett Fleming does not view it as necessary to complete a detailed segment-bysegment analysis of the future marketability of the pipeline system to understand that

CAR-NGTL-013

a segment of a gas pipeline will likely have lower market value in the circumstance that all of the gas supply underpinning the pipeline is exhausted. While some alternative uses may exist in certain circumstances, it is the view of Gannett Fleming, based on the staff interviews, that as gas supply becomes more limited, the future divesture opportunities for pipeline segments will also become more limited.

- (b) Producers, pipeline companies and gas processing companies have purchased facilities from NGTL.
- (c) The purchase of NGTL facilities was more orderly and economic than the participants' alternatives.
- (d) Attachment CAR-NGTL-013(d) provides the net salvage detail including the divestiture transactions, summarized in the same manner as the net salvage analysis provided in the Depreciation Study from pages III-54 to III-74.

The purpose of completing a study of appropriate net salvage percentages is to estimate future costs of retirements, and gross salvage proceeds for the assets remaining currently in service. To the extent that historical transactions can be considered indicative of the future, an analysis of the past transactions is appropriate and meaningful. However, a review of the historical trends is only useful if the historical events that are not considered likely to repeat at the same pace into the future are eliminated from the analysis. To include historical events that are not expected to continue into the future render the historical analysis less useful. As indicated in the filed depreciation study, these divestiture transactions were considered to be "outlier transactions" and were removed from the historical analysis.

PROGRAM OPTIONS IN EFFECT:

EXPERIENCE BAND	1993-2002
NET SALVAGE ANALYSIS	YES
NUMBER OF YEARS IN MOVING AVERAGE	. 3
TRAN CODES INCLUDED AS RETIREMENTS	0,2,0,0
COMBINE REUSE AND FINAL SALVAGE	YES

NOVA GAS TRANSMISSION LTD. SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS ACCOUNT 4610 PIPELINES - LAND RIGHTS

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1996 1997 1998 1999 2000 2001 2002	35,853- 231,241 112,766 128,351 217,448 162,001 136,706	18 0 3,700 2 7,227 6 118,457- 92- 517 0 0 6,034- 4-	46,646 130- 406,867 176 24,132 21 137,747 107 3- 0 0	46,628 130- 403,167 174 16,905 15 256,204 200 520- 0 0 6,034 4
TOTAL	952,660	113,029- 12-	615,389 65	728,418 76
THREE-	YEAR MOVING AV	ERAGES		
96-98 97-99 98-00 99-01 00-02	102,718 157,453 152,855 169,267 172,052	3,648 4 35,843-23- 36,904-24- 39,313-23- 1,839-1-	159,215 155 189,582 120 53,959 35 45,915 27 1- 0	155,567 151 225,425 143 90,863 59 85,228 50 1,838 1
FIVE-Y	EAR AVERAGE			
98-02	151,454	23,349- 15-	32,375 21	55,724 37

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4611 METER STATION - LAND RIGHTS

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	129 2,191 12,024 11,383 361 5,002 5,195	0 0 618 5 509 513 5 209 58 48 1 15,750 903- 17-	821 636 0 0 0 0 0	821 636 0 618- 5- 509- 513- 5- 209- 58- 48- 1- 15,750- 903 17
TOTAL	36,285	16,744 46	821 2	15,923- 44-
THREE-	YEAR MOVING AVE	RAGES		
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	773 4,781 4,738 7,802 3,915 5,582 1,788 3,399	0 206 4 376 8 547 7 410 10 257 5 5,336 298 4,965 146	274 35 274 6 0 0 0 0 0	274 35 68 1 376- 8- 547- 7- 410- 10- 257- 5- 5,336-298- 4,965-146-
FIVE-Y	'EAR AVERAGE			
98-02	4,388	3,123 71	0	3,123- 71-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4612 COMPRESSOR STATION - LAND RIGHTS

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1996 1997 1998 1999 2000 2001	1,677	0	0	0

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2002	494	0	0	0
TOTAL	2,171	0	0	0
THREE-YE	AR MOVING AVERAGE	ΞS		
96-98 97-99	559	0	0	. 0
98-00 99-01				_
00-02	165	0	0	0
FIVE-YEA	R AVERAGE			
98-02	99	0	0	0

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4620 COMPRESSOR STATION - BUILDINGS

YEAR	RETIREMENTS	COST REMOV AMOUNT	/AL	GROSS SALVAC AMOUNT I	ŝΕ	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	1,059,774 3,887,085 1,262,975 527,201 52,463 29,972 663,566 2,447,218 602,919 714,904	239,725 434,512 1,400,134 118,809 484,265 16,610 15,810	23 11 111 23 923 55 2 0	14,424 54,283 1,704 3,554 37-	1 0 0 0 12 0 0 0	225,301- 21- 380,229- 10- 1,398,430-111- 118,809- 23- 484,265-923- 13,056- 44- 15,810- 2- 37- 0 0 13,113- 2-
TOTAL	11,248,077	2,722,978	24	73,928	1	2,649,050- 24-
THREE-	YEAR MOVING A	VERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	2,069,945 1,892,421 614,213 203,212 248,667 1,046,919 1,237,901 1,255,014	691,457 651,152 667,736 206,561 172,228 10,807 5,270 4,371	33 34 109 102 69 1 0	23,470 18,662 568 1,185 1,185 1,172 12- 12-	1 0 1 0 0 0	667,987- 32- 632,490- 33- 667,168-109- 205,376-101- 171,043- 69- 9,635- 1- 5,282- 0 4,383- 0
FIVE-Y	EAR AVERAGE					
98-02	891,716	9,107	1	703	0	8,404- 1-
		F	age	3		

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4621 COMPRESSOR STATION - SITE

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	361,429 1,140,860 420,481 186,228 1,012 654 47,540 631,873 289,147 327,670	1,343,638 372 1,202,958 105 0 465,093 250 13,900 151 23 192,909 406 471,408 75 2,432- 1- 43,369 13	0 0 0 0 0 0 0 0 10- 0	1,343,638-372- 1,202,958-105- 0 465,093-250- 13,900- 151- 23- 192,909-406- 471,418- 75- 2,432 1 43,369- 13-
TOTAL	3,406,894	3,730,994 110	10- 0	3,731,004-110-
THREE-	YEAR MOVING A	VERAGES		
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	640,923 582,523 202,574 62,631 16,402 226,689 322,853 416,230	848,865 132 556,017 95 159,664 79 159,715 255 68,987 421 221,489 98 220,628 68 170,781 41	0 0 0 0 3- 0 3- 0 3- 0	848,865-132- 556,017- 95- 159,664- 79- 159,715-255- 68,987-421- 221,492- 98- 220,631- 68- 170,784- 41-
FIVE-Y	EAR AVERAGE			
98-02	259,377	141,081 54	2- 0	141,083- 54-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4630 METER STATION - BUILDINGS

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995	309,352 801,722 741,513	34,919 11 37,644 5 6,174 1 Page 4	11,612 4 114,338 14 129 0	23,307- 8- 76,694 10 6,045- 1-

1996 1997 1998 1999 2000 2001 2002	699,375 178,231 922,243 1,005,218 1,860,858 1,162,012 1,060,643	33,080 59,001 235,559 313,597 531,955 130,060 99,205	5 33 26 31 29 11 9	67,275 27,808 4,571 32,341 128,890 412,141 309,493	10 16 0 3 7 35 29	34,195 5 31,193- 18- 230,988- 25- 281,256- 28- 403,065- 22- 282,081 24 210,288 20
TOTAL	8,741,167	1,481,194	17	1,108,598	13	372,596- 4-
THREE-Y	EAR MOVING A	VERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	617,529 747,537 539,706 599,950 701,897 1,262,773 1,342,696 1,361,171	26,246 25,633 32,752 109,213 202,719 360,370 325,204 253,740	4 3 6 18 29 29 24 19	42,026 60,581 31,737 33,218 21,573 55,267 191,124 283,508	7 8 6 6 3 4 14 21	15,780 3 34,948 5 1,015- 0 75,995- 13- 181,146- 26- 305,103- 24- 134,080- 10- 29,768 2
FIVE-YE	AR AVERAGE					
98-02	1,202,195	262,075	22	177,487	15	84,588- 7-

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4631 METER STATION - SITE

YEAR	RETIREMENTS	COST REMOV AMOUNT	/AL	GROS SALVA AMOUNT	GE	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000	43,202 161,278 50,224 141,445 42,938 193,718 119,882 496,104	5,362 16,360 5,747 18,160 47,440 10,344 759,286	12 10 0 4 42 24 9	38,010 4,883 2,550	0 24 0 0 11 0 0	5,362- 12- 21,650 13 0 5,747- 4- 13,277- 31- 47,440- 24- 10,344- 9- 756,736-153-
2001 2002	723,255 250,660	8,887 609,258	1	7,860	1 0	1,027- 0 609,258-243-
TOTAL	2,222,706	1,480,844	67	53,303	2	1,427,541- 64-
THREE-	YEAR MOVING A	VERAGES				
93-95 94-96 95-97 96-98 97-99	84,902 117,649 78,202 126,034 118,846	7,241 7,369 7,969 23,782 25,315	9 6 10 19 21 Page 5	12,670 12,670 1,628 1,628 1,628	15 11 2 1 1	5,429 6 5,301 5 6,341- 8- 22,154- 18- 23,687- 20-

98-00 99-01 00-02	269,902 446,414 490,006	272,357 259,506 459,144	101 58 94	850 3,470 3,470	0 1 1	271,507-1 256,036- 455,674-	57-
FIVE-YEAR	AVERAGE						
98-02	356,724	287,043	80	2,082	1	284,961-	80-

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4661 COMPRESSOR STATION - COMPRESSOR UNIT

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PO	L,	GROS SALVA AMOUNT	GE	NET SALVAG AMOUNT I	
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	5,630,675 21,253,183 10,401,314 6,578,713 3,581,755 817,834 7,220,312 14,497,158 3,644,735 11,395,274	1,182,737 180,651 199,070 231,498-	18 6 2 3 6- 17 1 0 5	27,118 1,409,954 28,213 5,864,591 979,578 2,167,997 4,409,939 1,285,652 3,415,121	0 7 0 89 27 265 61 9 0 30	1,006,108- 227,217 152,438- 5,665,521 1,211,076 2,026,998 4,321,367 1,126,833 8,144- 2,811,803	18- 1- 86 34 248 60 8 0 25
TOTAL	85,020,953	3,364,038	4	19,588,163	23	16,224,125	19
THREE-	YEAR MOVING A	VERAGES					
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	12,428,391 12,744,403 6,853,927 3,659,434 3,873,300 7,511,768 8,454,068 9,845,722	798,871 520,820 49,408 36,190 643- 129,463 85,178 256,760	6 4 1 0 2 1 3	488,428 2,434,252 2,290,794 3,004,055 2,519,171 2,621,196 1,898,530 1,566,924	4 19 33 82 65 35 22 16	310,443- 1,913,432 2,241,386 2,967,865 2,519,814 2,491,733 1,813,352 1,310,164	2- 15 33 81 65 33 21 13
FIVE-Y	EAR AVERAGE						
98-02	7,515,063	199,970	3	2,255,742	30	2,055,772	27

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4662 COMPRESSOR STATION - PIPING

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SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST REMOV AMOUNT	AL	GROS SALVA AMOUNT	GE.	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	2,578,012 8,945,284 5,142,602 2,384,473 1,311,224 760,478 5,144,781 5,547,196 2,740,051 2,407,333	436,910 1,015,498 1,202,170 343,560 247,230 25,655 259,574 558,150 56,930 1,300,400	17 11 23 14 19 3 5 10 2	63,017 188,273 37,763 38,286 109,239 121- 27,135	0 1	373,893- 15- 827,225- 9- 1,164,407- 23- 305,274- 13- 247,230- 19- 83,584 11 259,574- 5- 558,271- 10- 56,930- 2- 1,273,265- 53-
TOTAL	36,961,434	5,446,077	15	463,592	1	4,982,485- 13-
THREE-	YEAR MOVING A	VERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	5,555,299 5,490,786 2,946,100 1,485,392 2,405,494 3,817,485 4,477,343 3,564,860	884,859 853,742 597,653 205,482 177,487 281,126 291,551 638,493	16 16 20 14 7 7 7 18	96,351 88,107 25,350 49,175 36,413 36,373 40- 9,005	2 1 3 2 1 0	788,508- 14- 765,635- 14- 572,303- 19- 156,307- 11- 141,074- 6- 244,753- 6- 291,591- 7- 629,488- 18-
FIVE-Y	EAR AVERAGE					
98-02	3,319,968	440,142	13	27,251	1	412,891- 12-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4663 COMPRESSOR STATION - INSTRUMENTATION

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	276,757 866,953 257,456 68,754 211,395 174,100 355,670 388,718 215,816 40,873	42,824 15 101,726 12 600,573 233 1,276 2 13,911 7 26,157 15 199 0 0	17,867 6 7,771 1 380,126 148 0 0 0 0 15- 0 0	24,957- 9- 93,955- 11- 220,447- 86- 1,276- 2- 13,911- 7- 26,157- 15- 199- 0 15- 0 0
TOTAL	2,856,492	786,666 28 Page 7	405,749 14	380,917- 13-

THREE-YEAR MOVING	AVERAGES		
93-95 467,055 94-96 397,721 95-97 179,202 96-98 151,416 97-99 247,055 98-00 306,163 99-01 320,068 00-02 215,136	248,374 53 234,525 59 205,253 115 13,781 9 13,422 5 8,785 3 66 0	135,255 29 129,299 33 126,709 71 0 0 5- 0 5- 0 5- 0	113,119- 24- 105,226- 26- 78,544- 44- 13,781- 9- 13,422- 5- 8,790- 3- 71- 0 5- 0
FIVE-YEAR AVERAGE			
98-02 235,035	5,271 2	3- 0	5,274- 2-

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4664 COMPRESSOR STATION - ELECTRICAL SYSTEM

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	388,702 2,930,517 1,039,412 578,386 150,739 12,239 159,728 1,246,709 330,965 222,278	59,695 15 312,244 11 33,150 3 79,367 14 20,366 14 15,085 123 589 0 0 26,283- 8- 34,251 15	21,832 6 58,489 2 26,756 3 500 0 0 0 39- 0	37,863- 10- 253,755- 9- 6,394- 1- 78,867- 14- 20,366- 14- 15,085-123- 589- 0 39- 0 26,283 8 34,251- 15-
TOTAL	7,059,675	528,464 7	107,538 2	420,926- 6-
THREE-	YEAR MOVING AVI	ERAGES		
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	1,452,877 1,516,105 589,512 247,121 107,569 472,892 579,134 599,984	135,029 9 141,587 9 44,294 8 38,273 15 12,013 11 5,225 1 8,565- 1- 2,656 0	35,692 2 28,581 2 9,085 2 167 0 0 13- 0 13- 0	99,337- 7- 113,006- 7- 35,209- 6- 38,106- 15- 12,013- 11- 5,238- 1- 8,552 1 2,669- 0
FIVE-Y	EAR AVERAGE			
98-02	394,384	4,728 1	8- 0	4,736- 1-
		Daga 0		

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4665 COMPRESSOR STATION - CONTROL SYSTEM

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST REMOV AMOUNT	ΆL	GROSS SALVAG AMOUNT F	iΕ	NET SALVAG AMOUNT F	
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	773,558 2,107,938 2,178,334 291,433 319,979 327,198 416,265 1,055,660 113,517 437,701	103,772 248,966 65,941 32,289 19,137 136 3,334 9,534 12,900	13 12 3 11 6 0 1 0 8 3	3,000 4,760 27-	0 0 0 0 0 0 0	'	13- 12- 3- 11- 6- 0 1- 0 8- 3-
TOTAL	8,021,583	496,009	6	7,733	0	488,276-	6-
THREE-	YEAR MOVING AV	ERAGES					
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	1,686,610 1,525,902 929,915 312,870 354,481 599,708 528,480 535,626	139,560 115,732 39,122 17,187 7,536 1,157 4,289 7,478	8 4 5 2 0 1 1	2,587 2,587 1,587 9- 9- 9-	0 0 0 0 0 0	136,973- 113,145- 37,535- 17,187- 7,536- 1,166- 4,298- 7,487-	8- 7- 4- 5- 2- 0 1- 1-
FIVE-Y	EAR AVERAGE						
98-02	470,068	5,181	1	5-	0	5,186-	1-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4670 METER STATION - AUTOMATION

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995	315,300 959,513 2,615,115	8,389 3 30,088 3 38,192 1 Page 9	56,971- 18- 100,816 11 172 0	65,360- 21- 70,728 7 38,020- 1-

1996 1997 1998 1999 2000 2001 2002	999,410 2,041,324 1,452,211 503,804 1,387,335 621,694 653,159	16,462- 15,484 33,760 67,861 43,641 68,520	2- 1 2 13 3 11 0	21,507 3,377 22,714 74,199 278,706 24,475	2 0 0 5 5 45 4	37,969 12,107- 33,760- 45,147- 30,558 210,186 24,475	4 1- 2- 9- 2 34 4
TOTAL	11,548,865	289,473	3	468,995	4	179,522	2
THREE-	YEAR MOVING A	VERAGES					
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	1,296,643 1,524,679 1,885,283 1,497,648 1,332,446 1,114,450 837,611 887,396	25,556 17,272 12,405 10,927 39,035 48,421 60,007 37,387	2 1 1 3 4 7 4	14,672 40,832 8,352 8,295 8,697 32,304 125,206 125,793	1 3 0 1 1 3 15 14	10,884- 23,560 4,053- 2,632- 30,338- 16,117- 65,199 88,406	1- 2 0 0 2- 1- 8 10
FIVE-Y	EAR AVERAGE						
98-02	923,641	42,756	5	80,019	9	37,263	4

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4671 METER STATION - INSTRUMENTATION

YEAR	RETIREMENTS	COST O REMOVA AMOUNT P	L	GROS SALVA AMOUNT	.GE	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	1,685,460 3,076,316 5,205,077 2,172,352 909,736 773,447 516,061 1,247,755 1,308,457 825,728		4 2 4 3 9 11 18 1 6 8	126,196 523,505 109,734 151,920 106,170 59,866 14,550 100,283 249,355	7 17 2 7 12 0 12 1 8 30	50,616 3 447,397 15 107,413- 2- 80,467 4 22,467 2 87,796- 11- 32,036- 6- 6,616 1 23,196 2 182,016 22 585,530 3
	YEAR MOVING AV	•	,	1,111,313	Ū	303,330
93-95 94-96 95-97 96-98 97-99	3,322,284 3,484,581 2,762,388 1,285,179 733,081	122,945 121,570 124,101 80,984 87,800	4 3 4 6 12 ge	253,145 261,720 122,608 86,030 55,345	8 8 4 7 8	130,200 4 140,150 4 1,493- 0 5,046 0 32,455- 4-

98-00 99-01 00-02	845,755 1,024,091 1,127,313	62,544 58,974 50,787	7 6 5	24,805 58,233 121,396	3 6 11	37,739- 741- 70,609	4- 0 6
FIVE-YE	AR AVERAGE						
98-02	934,290	66,412	7	84,811	9	18,399	2

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4672 METER STATION - PIPING

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST REMOV AMOUNT	AL	GROS SALVA AMOUNT	GE	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	2,895,730 4,494,916 2,375,844 1,535,520 1,981,066 2,343,592 1,573,532 5,075,545 3,163,715	224,613 232,270 36,843 33,715 2,284,199 462,335 188,383 880,794 381,868 1,040,949	8 5 2 2 115 20 12 17	63,886 1,198,035 34,837 11,006 27,975 47,466 66,070 667,486 730,609	2 27 1 0 1 1 3 1	160,727- 6- 965,765 21 2,006- 0 33,715- 2- 2,273,193-115- 434,360- 19- 140,917- 9- 814,724- 16- 285,618 310,340- 10-
TOTAL	25,439,460	5,765,969	23	2,847,370	11	2,918,599- 11-
THREE-	YEAR MOVING A	VERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	3,255,497 2,802,094 1,964,144 1,953,393 1,966,064 2,997,556 2,216,359 2,746,420	164,575 100,942 784,919 926,750 978,306 510,504 483,682 767,870	5 4 40 47 50 17 22 28	432,253 410,957 15,281 12,993 28,815 47,170 260,341 488,055	13 15 1 1 1 2 12 18	267,678 8 310,015 11 769,638- 39- 913,757- 47- 949,491- 48- 463,334- 15- 223,341- 10- 279,815- 10-
FIVE-Y	EAR AVERAGE					
98-02	2,431,277	590,866	24	307,921	13	282,945- 12-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4673 METER STATION - ELECTRICAL SYSTEM

Page 11

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST C REMOVA AMOUNT F	\L	GROS SALVA AMOUNT	GE	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	166,772 473,096 659,577 446,742 350,891 648,935 445,334 1,272,109 1,007,877 634,429	9,941 8,459 166,065 14,651 14,531 38,270 72,240 172,310 33,337- 2,844	6 2 25 3 4 6 16 14 3- 0	132,177 596,655 18,861 19,349 52,464 127,104 63,929	0 28 90 0 5 0 4 4 13 10	9,941- 6- 123,718 26 430,590 65 14,651- 3- 4,330 1 38,270- 6- 52,891- 12- 119,846- 9- 160,441 16 61,085 10
TOTAL	6,105,762	465,974	8	1,010,539	17	544,565 9
THREE-	YEAR MOVING AVE	ERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	433,148 526,472 485,737 482,189 481,720 788,793 908,440 971,472	61,488 63,058 65,082 22,484 41,680 94,273 70,404 47,272	14 12 13 5 9 12 8	242,944 242,944 205,172 6,287 12,736 23,938 66,306 81,166	56 46 42 1 3 7 8	181,456 42 179,886 34 140,090 29 16,197- 3- 28,944- 6- 70,335- 9- 4,098- 0 33,894 3
FIVE-Y	EAR AVERAGE					
98-02	801,737	50,465	6	52,569	7	2,104 0

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4821 GENERAL PLANT - OFFICE BUILDINGS

YEAR	RETIREMENTS	COST REMOV AMOUNT	/AL	GROS SALVA AMOUNT	AGE	NET SALVAO AMOUNT I	GΕ
1994 1995 1996 1997 1998 1999 2000 2001 2002	217,531 4,523,206 167,653 20,870,103 1,445,889 711,184 888,081 38,649,282 2,312,611	69,110 32,672 68,753 83,871 14,280 321,301 1,451,579 380,305	32 0 19 0 6 2 36 4 16	54,818 113,668 6,165,110 507,373 21- 13,691,313 604,847	25 0 68 30 35 0 - 0 35 26	14,292- 80,996 6,096,357 423,502 14,280- 321,322- 12,239,734 224,542	7- 0 48 29 29 2- 36- 32 10
TOTAL	69,785,540	2,421,871	3	21,137,108	30	18,715,237	27

THREE-	YEAR MOVING A	/ERAGES					
94-96 95-97 96-98 97-99 98-00 99-01 00-02	1,636,130 8,520,321 7,494,548 7,675,725 1,015,051 13,416,182 13,949,991	33,927 33,808 61,765 55,635 139,817 595,720 717,728	2 0 1 1 14 4 5	56,162 2,092,926 2,262,050 2,224,161 169,117 4,563,764 4,765,380	3 25 30 29 17 34 34	22,235 2,059,118 2,200,285 2,168,526 29,300 3,968,044 4,047,652	1 24 29 28 3 30 29
FIVE-YEAR AVERAGE							
98-02	8,801,409	450,267	5	2,960,702	34	2,510,435	29

NOVA GAS TRANSMISSION LTD. SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4841 GENERAL PLANT - VEHICLES & TRAILERS

RETIREMENTS	REMO\	/AL	SALVA	\GE	NET SALVA AMOUNT	
2,211,582 4,918,694 4,632,912 6,969,079 1,945,044 5,425,129 2,591,344	12,795 731 210,004 12,310 522,551 64,037 45,525 146,817	1 0 5 0 27 1	556,433 1,728,562 75 2,004,976 2,454,302 1,676,653 1,332,112	25 35 0 29 126 31	543,638 1,727,831 209,929- 1,992,666 1,931,751 1,612,616 1,286,587 146,817-	25 35 5- 29 99 30
1,240,169	698	0	883,706	71	883,008	71
29,933,953	1,015,468	3	10,636,819	36	9,621,351	32
3,921,063 5,506,895 4,515,678	74,510 74,348 248,288	2 1 5 4	761,690 1,244,537 1,486,451 2,045,310	19 23 33 43	687,180 1,170,189 1,238,163 1,845,677	18 21 27 39
2,456,724 2,672,158 863,781 1,277,171	210,704 85,460 64,114 49,172	9 3 7 4	1,821,022 1,002,922 444,037 294,569	74 38 51 23	1,610,318 917,462 379,923 245,397	66 34 44 19
EAR AVERAGE						
1,851,328	51,415	3	778,494	42	727,079	39
	2,211,582 4,918,694 4,632,912 6,969,079 1,945,044 5,425,129 2,591,344 1,240,169 29,933,953 •YEAR MOVING A 3,921,063 5,506,895 4,515,678 4,779,751 2,456,724 2,672,158 863,781 1,277,171	RETIREMENTS AMOUNT 2,211,582 12,795 4,918,694 731 4,632,912 210,004 6,969,079 12,310 1,945,044 522,551 5,425,129 64,037 45,525 2,591,344 146,817 1,240,169 698 29,933,953 1,015,468 EYEAR MOVING AVERAGES 3,921,063 74,510 5,506,895 74,348 4,515,678 248,288 4,779,751 199,633 2,456,724 210,704 2,672,158 85,460 863,781 64,114 1,277,171 49,172	2,211,582 12,795 1 4,918,694 731 0 4,632,912 210,004 5 6,969,079 12,310 0 1,945,044 522,551 27 5,425,129 64,037 1 45,525 2,591,344 146,817 6 1,240,169 698 0 29,933,953 1,015,468 3 EYEAR MOVING AVERAGES 3,921,063 74,510 2 5,506,895 74,348 1 4,515,678 248,288 5 4,779,751 199,633 4 2,456,724 210,704 9 2,672,158 85,460 3 863,781 64,114 7 1,277,171 49,172 4	RETIREMENTS AMOUNT PCT AMOUNT 2,211,582 12,795 1 556,433 4,918,694 731 0 1,728,562 4,632,912 210,004 5 75 6,969,079 12,310 0 2,004,976 1,945,044 522,551 27 2,454,302 5,425,129 64,037 1 1,676,653 45,525 1,332,112 2,591,344 146,817 6 1,240,169 698 0 883,706 29,933,953 1,015,468 3 10,636,819 EYEAR MOVING AVERAGES 3,921,063 74,510 2 761,690 5,506,895 74,348 1 1,244,537 4,515,678 248,288 5 1,486,451 4,779,751 199,633 4 2,045,310 2,456,724 210,704 9 1,821,022 2,672,158 85,460 3 1,002,922 863,781 64,114 7 444,037 1,277,171 49,172 4 294,569	RETIREMENTS AMOUNT PCT AMOUNT PCT 2,211,582 12,795 1 556,433 25 4,918,694 731 0 1,728,562 35 4,632,912 210,004 5 75 0 6,969,079 12,310 0 2,004,976 29 1,945,044 522,551 27 2,454,302 126 5,425,129 64,037 1 1,676,653 31 45,525 1,332,112 2,591,344 146,817 6 0 1,240,169 698 0 883,706 71 29,933,953 1,015,468 3 10,636,819 36 PYEAR MOVING AVERAGES 3,921,063 74,510 2 761,690 19 5,506,895 74,348 1 1,244,537 23 4,515,678 248,288 5 1,486,451 33 4,779,751 199,633 4 2,045,310 43 2,456,724 210,704 9 1,821,022 74 2,672,158 85,460 3 1,002,922 38 863,781 64,114 7 444,037 51 1,277,171 49,172 4 294,569 23	RETIREMENTS AMOUNT PCT

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4850 GENERAL PLANT - HEAVY WORK EQUIPMENT

SUMMARY OF BOOK SALVAGE

YEAR	RETIREMENTS	COST O REMOVA AMOUNT P	L	GROS SALVA AMOUNT	AGE	NE ⁻ SALV/ AMOUNT	4GE
1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	12,664 597,096 682,690 3,297,288 518,683 2,022,071 5,307 28,282	935 60,495- 62,356 11,381	0 0 0 0 12- 3	7,870 108,450 1,816,404 2,321,006 149,798 80,877 231,707	62 18 266 70 29 4 0	7,870 108,450 1,815,469 2,321,006 210,293 18,521 220,326	62 18 266 70 41 1 0
TOTAL	7,164,081	14,177	0	4,716,112	66	4,701,935	66
THREE-1 93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	YEAR MOVING AVER 430,816 1,525,691 1,499,553 1,946,014 846,918 675,793 1,769 11,196	312 312 19,853- 621 4,414 24,579	0 0 1- 0 1 4	644,241 1,415,287 1,429,069 850,560 154,127 104,194 77,236	150 93 95 44 18 15	643,929 1,414,975 1,448,922 849,939 149,713 79,615 73,442	149 93 97 44 18 12
	,						
	EAR AVERAGE		_				4.0
98-02	411,132	14,747	4	62,517	15	47,770	12

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT PIP.EO

YEAR	RETIREMENTS	COST OF REMOVAL AMOUNT PCT	GROSS SALVAGE AMOUNT PCT	NET SALVAGE AMOUNT PCT
1993 1994 1995 1996 1997	1,204,650 4,135,451 21,374,246 3,240,951 6,357,628	748,834 62 502,950 12 319,956 1 277,522 9 188,248 3 Page	411,612 10 3,860 0 2,658,354 82 11,972,220 188	692,860- 58- 91,338- 2- 316,096- 1- 2,380,832 73 11,783,972 185

1998 1999 2000 2001 2002	4,653,634 3,083,679 20,081,123 6,538,091 3,159,299	550,467 883,660 262- 136,897 1,237,917	12 29 0 2 39	1,224,140 2,876,992 11,162,350	26 93 56 0	673,673 14 1,993,332 65 11,162,612 56 136,897- 2- 1,237,917- 39-
TOTAL	73,828,752	4,846,189	7	30,365,502	41	25,519,313 35
THREE-	YEAR MOVING	AVERAGES				
93-95 94-96 95-97 96-98 97-99 98-00 99-01 00-02	8,904,782 9,583,549 10,324,275 4,750,738 4,698,313 9,272,812 9,900,964 9,926,171	523,914 366,810 261,909 338,746 540,792 477,955 340,098 458,184	6 4 3 7 12 5 3 5	157,149 1,024,609 4,878,145 5,284,905 5,357,784 5,087,827 4,679,781 3,720,783	2 11 47 111 114 55 47 37	366,765- 4- 657,799 7 4,616,236 45 4,946,159 104 4,816,992 103 4,609,872 50 4,339,683 44 3,262,599 33
FIVE-Y	EAR AVERAGE					
98-02	7,503,165	561,736	7	3,052,696	41	2,490,960 33

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix C – Depreciation Study, pg. II-12

Preamble:

Gannett Fleming states that a number of the compressor units, as they have been removed from service, have been sold into a seller's marketplace for this type of equipment, resulting in high level of gross salvage transactions in Account 4661 – Compressor Units. Gannett Fleming also states that the Company has indicated that this circumstance will not continue at the same pace into the future; and, as such, Gannett Fleming is recommending an increase in the net salvage percentage from 0 percent to +5 percent.

Request:

- (a) Please provide all internal and external studies and workpapers that support the Company's view that this circumstance will not continue.
- (b) Please provide detailed information regarding at what pace will "this circumstance" continue into the future.
- (c) Please provide detailed information related to the sales of individual compressor units in a format similar to the salvage analysis table on pg. III-62.

Response:

(a) and (b)

Gannett Fleming's comments regarding the sale and future marketability of the compression units were general in nature and based on the company interviews. The notes resulting from the company interviews are attached to the response to ATCO-NGTL-012(b).

CAR-NGTL-014

Gannett Fleming does not view it as necessary to complete a detailed company-by-company analysis of all gas pipelines to understand the general trends of net salvage percentage recommendations within the pipeline industry.

Gannett Fleming, when reviewing the compression unit account, considered three factors in making a recommendation of a positive salvage value of 5%:

- i. There is a not a current match of cost of removal expenditures to the retirement of plant, as a number of units that have been retired, have not yet been physically removed. The expenditures to remove these units will be made in future years. As such, historic percentages of cost of removal expenditures to original cost retired are too low.
- ii. It is anticipated by NGTL that the ability to sell used compression equipment into the marketplace will diminish significantly in the future. As such the historic trends of gross salvage proceeds are overstated when compared to the future expectations.
- iii. The ability to re-use compression units has been limited in the past. However, it is anticipated by the company that the pace of re-use for compression units will slow in the future as overall gas supply declines.

In consideration of the above three factors, the historic indications of net salvage are not an accurate representation of the future expectations. As historic data were not entered in the plant accounting systems on a unit-by-unit basis, as the unit-by-unit information is not required under Alberta Regulation 546/63, elimination from the databases of the outlier transactions was not possible. However, Gannett Fleming did not want to completely discard the historic indications of some positive salvage entirely. As such, Gannett Fleming recommended an increase in the level of positive salvage from 0% to +5%, and will continue to monitor this account closely in future studies.

(c) The source retirement and cost of retirement data were not recorded into the plant accounting systems on a unit-by-unit basis, as the unit-by-unit information is not required by the Board.² As such, this request would involve the detailed manual review of all compression retirement orders, in order to specifically identify the original cost, cost of removal and gross salvage proceeds specific to the units that were sold. The requested information cannot be provided with reasonable effort.

^{1, 2} Alberta Regulation 546/63, Uniform Classification of Accounts for Natural Gas Utilities.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-015 December 11, 2003 Page 1 of 1

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Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix C – Depreciation Study, pg. II-12

Preamble:

Gannett Fleming states that the Company has also, in recent years, undertaken an optimization program of metering facilities. Gannett Fleming also states that while it is not expected that the pace of reuse of metering facilities will continue into the future, it is anticipated that some level of this activity will continue to occur.

Request:

- (a) Please provide all internal and external studies and workpapers which support the Company's view that this circumstance will not continue.
- (b) Please provide detailed information regarding what pace will "this circumstance" continue into the future.
- (c) Please provide detailed information related to reuse transactions on an annual basis in a format similar to the salvage analysis tables on pg. III-55 to III-74.

Response:

- (a) and (b)
 - Gannett Fleming's comments regarding the reuse of the meter stations were general in nature and based on the company interviews. The notes resulting from the company interviews are attached to the response to ATCO-NGTL-012(b).
- (c) NGTL does not segregate the salvage entries through the accumulated depreciation account between final and reuse salvage. As such, the requested analysis cannot be prepared without an extensive manual review of all of the salvage entries from 1993 through 2002. Please refer to the response to ATCO-NGTL-027(b) for a description of the analysis undertaken in the development of the net salvage percentages for the meter station accounts.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-016 December 11, 2003 Page 1 of 1

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CA	N.	-1 N	LT J		V.	W

Issue:

Depreciation

Reference:

Section 4.0 – Depreciation, Appendix C – Depreciation Study, pg. III-55 to III-74

Preamble:

Gannett Fleming provides Salvage Analysis tables for individual accounts for the years 1993 to 2002.

Request:

- (a) Please provide Salvage Analysis tables for Account 4651 Pipe and Account 4652 Valve Assemblies. If unable to provide, please explain in detail why?
- (b) Please provide Salvage Analysis tables for individual accounts with all historical salvage data included for all years prior to 1993. In unable to provide, please explain in detail why?

Response:

- (a) Attachment CAR-NGTL-016(a) provides the requested analysis.
- (b) Detailed transaction files from prior depreciation analyses were used for this study. The totals from such data files were balanced to the plant accounting system. In the view of Gannett Fleming, the most recent 10-year band of salvage analysis provides the most appropriate period as well as a sufficient period of analysis from which net salvage percentages can be developed.

The net salvage data prior to 1993 cannot be easily verified. The evidentiary value of the requested information would be in any event far outweighed by the time and effort required to locate, compile and review the material.

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4651 PIPELINES - PIPE

SUMMARY OF BOOK SALVAGE

	REGULAR	COST REMOV		GROS SALVA		NET SALVAG	יסי
YEAR	RETIREMENTS	AMOUNT		AMOUNT	_	AMOUNT P	
1993	886,658	672,363	76	55,028	6	617,335-	
1994 1995	2,883,656 20,722,657	485,649 265,332	17 1	411,612	14 0	74,037- 261,745-	3 - 1 -
1996 1997	546,327	271,255	50	47,757	9	223,498-	
1998 1999 2000	1,499,007		0		0		0
2001	3,465,920	7,770-	- 0		0	7,770	0
2002	2,835,141	1,191,120	42		0	1,191,120-	42-
TOTAL	32,839,366	2,877,949	9	517,984	2	2,359,965-	7-
THREE-	YEAR MOVING A	VERAGES					
93-95	8,164,323	474,448	6	156,743	2	317,705-	4-
94-96	8,050,880	340,745	4	154,319	2	186,426-	2-
95-97	7,089,661	178,862	3	17,115	0	161,747-	2-
96-98	182,109	90,418	50	15,919	9	74,499-	41-
97-99	499,669		0		0		0
98-00	499,669	0 500	0		0	0 500	0
99-01 00-02	1,654,976 2,100,353	2,590-	- 0 19		0	2,590 394,450-	0 19-
00-02	2,100,353	394,450	19		U	394,450-	19-
FIVE-Y	EAR AVERAGE						
98-02	1,560,014	236,670	15		0	236,670-	15-

NOVA GAS TRANSMISSION LTD.

SALVAGE ANALYSIS 1993 - 2002 TRANSACTIONS

ACCOUNT 4652 PIPELINES - VALVE ASSEMBLIES

SUMMARY OF BOOK SALVAGE

	REGULAR	COST REMOV		GROS SALVA		NET SALVAG	יסי
YEAR	RETIREMENTS	AMOUNT		AMOUNT	_	AMOUNT F	
1993	317,992	76,471	24	946	0	75,525-	
1994	1,251,795	17,301	1	272	0	17,301- 54,351-	1-
1995 1996	651,590 294,624	54,624 6,267	8 2	273	0	6,267-	8 - 2 -
1997 1998	271,021	0,207	2		O	0,201	2
1999	355,649	150,876	42	136,943	39	13,933-	4-
2000	1,089,723	7,393			- 0	7,359	1
2001							
2002							
TOTAL	3,961,373	298,146	8	138,128	3	160,018-	4-
THREE-	YEAR MOVING AVI	ERAGES					
93-95	740,459	49,466	7	406	0	49,060-	7-
94-96	732,669	26,064	4	91	0	25,973-	4-
95-97	315,404	20,297	6	91	0	20,206-	6-
96-98	98,208	2,089	2		0	2,089-	2-
97-99	118,550	50,292		45,648	39	4,644-	4 –
98-00	481,791	47,828	10	45,636	9	2,192-	0
99-01	481,791	47,828	10	45,636	9	2,192-	0
00-02	363,241	2,464	- 1-	11-	- 0	2,453	1
FIVE-Y	EAR AVERAGE						
98-02	289,075	28,697	10	27,382	9	1,315-	0

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-017 December 11, 2003 Page 1 of 1

CAR-NGTL-017

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.2 – The Fort McMurray Area

Request:

- (a) Does NGTL have an obligation to serve customers in the Fort McMurray area?
- (b) If yes, please explain why, and provide all supporting documents and information.

Response:

(a) and (b)

While NGTL does not have an obligation to serve as that term is commonly used in utility regulation, it is in the business of providing gas transmission service in Alberta. NGTL has executed FCS Agreements with customers requesting delivery service to the Fort McMurray area. NGTL will under those agreements make reasonable efforts to obtain necessary regulatory approvals to provide the requested service.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(a) December 11, 2003 Page 1 of 1

CAR-NGTL-018(a)	CA	R-	N	GT	L-(01	8((\mathbf{a})
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Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

What was the original cost of Ventures Oil Sands Pipeline?

Response:

NGTL understands from the Ventures Oil Sands Pipeline's hearing transcripts dated November 13, 1998 that Jim McPherson, Vice-President, in his opening remarks indicated the estimated construction cost of the pipeline to be \$50 million. Additional facilities have since been added to the Oil Sands Pipeline.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(b) December 11, 2003 Page 1 of 1

CAR-NGTL-018(b)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

On an annual basis since date of first flow to the present, please provide the net book value of Ventures Oil Sands Pipeline.

Response:

NGTL does not have the requested information.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(c) and (d) December 11, 2003 Page 1 of 1

CAR-NGTL-018(c) and (d)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

- (c) On an annual basis from the April 1st, 2004 to April 1st, 2029, please provide forecasted replacement cost for Ventures Oil Sands Pipeline.
- (d) Please specify the source of the data with respect to replacement cost.

Response:

(c) The estimated aggregate replacement cost of the Ventures Oil Sands pipeline, Oil Sands Extension, Buffalo compressor station, and meter stations owned by Ventures in the Fort McMurray area is shown in the table below. The replacement costs do not include the Moosa Lateral. The replacement cost of the Ventures facilities is assumed to increase at a rate of 2% per year.

Year	Cost (\$millions)	Year	Cost (\$millions)
2003	93.74	2017	123.69
2004	95.61	2018	126.16
2005	97.53	2019	128.68
2006	99.48	2020	131.26
2007	101.47	2021	133.88
2008	103.50	2022	136.56
2009	105.57	2023	139.29
2010	107.68	2024	142.08
2011	109.83	2025	144.92
2012	112.03	2026	147.82
2013	114.27	2027	150.77
2014	116.55	2028	153.79
2015	118.88	2029	156.87
2016	121.26		

(d) The forecasted replacement costs are based on internal NGTL cost estimates.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(e) December 11, 2003 Page 1 of 1

CAR-NGTL-018(e)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

Please explain why net book value would not be an acceptable purchase price for Ventures Oil Sands Pipeline.

Response:

Please refer to the response to BR-NGTL-30(b).

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(f) December 11, 2003 Page 1 of 1

CAR-NGTL-018(f)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

If a premium or discount to net book value is appropriate, what is the value of the premium or discount and why is it considered appropriate?

Response:

The question is not relevant to the Application. NGTL is not applying to acquire the Ventures assets at this point in time.

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(g) December 11, 2003 Page 1 of 1

CAR-NGTL-018(g)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

Who on behalf of NGTL and Ventures participated in negotiations for the TBO or purchase price of Ventures Oil Sands Pipeline?

Response:

The primary business representatives included:

For NGTL:

Steve Clark - VP, Gas Development and Director, Sales & Marketing, Don Bell – Manager, Western End Users and Interconnects Dan Ronsky – Senior Customer Account Representative

For Ventures:

Jeff Rush – President

Francis MacMullin – Manager, Western Business Development

NGTL 2004 GRA - Phase 1 Application No. 1315423 Response to CAR-NGTL-018(h) December 11, 2003 Page 1 of 1

CAR-NGTL-018(h)

Issue:

Fort McMurray Area Delivery Service

Reference:

Sub-Section 8.8 – The TransCanada Pipeline Ventures Limited Partnership Arrangement

Request:

Please provide detailed role descriptions of the individuals who participated in the negotiations for the TBO or purchase price of Ventures Oil Sands Pipeline, including duties and reporting structure.

Response:

Please refer to the response to CAR-NGTL-018(g).