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SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 11-K

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2009.

OR

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File No. 1-31690

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:

Union 1245 Plan #49213 – TransCanada 401(k)  
and Savings IBEW 1245 Plan  
TransCanada USA Services Inc., 717 Texas Street, Suite 2400  
Houston, Texas 77002

B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office:

TransCanada Corporation  
450 – 1 Street S.W., Calgary, Alberta, T2P 5H1, Canada

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**UNION 1245 PLAN #49213 – TRANSCANADA 401(K) AND SAVINGS IBEW 1245 PLAN**

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Schedule of Assets (Held at End of Year) as of December 31, 2009	
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The following exhibits are filed herewith:	
Exhibit 23.1 Consent of Independent Registered Public Accounting Firm	
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NOTE:	
All other schedules required by Section 2520.103-10 of the Department of Labor’s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.	

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**TRANSCANADA 401(K) AND SAVINGS  
IBEW 1245 PLAN**

**FINANCIAL STATEMENTS AND SUPPLEMENTAL SCHEDULE  
AS OF AND FOR THE YEARS ENDING DECEMBER 31, 2009 AND 2008  
AND REPORTS OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRMS**

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## **Report of Independent Registered Public Accounting Firm**

Plan Administrator  
TransCanada 401(k) and Savings IBEW 1245 Plan

We have audited the accompanying statement of net assets available for benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan (the Plan) as of December 31, 2009, and the related statement of changes in net assets available for benefits for the year ended December 31, 2009. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audit. The financial statements of the Plan as of and for the year ended December 31, 2008 were audited by other auditors whose report dated June 29, 2009, expressed an unqualified opinion on those financial statements.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan as of December 31, 2009, and the changes in net assets available for benefits for the year ended December 31, 2009, in conformity with U.S. generally accepted accounting principles.

Our audit was performed for the purpose of forming an opinion on the financial statements taken as a whole. The supplemental schedule of assets (held at end of year) at December 31, 2009, is presented for the purpose of additional analysis and is not a required part of the basic financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. This supplemental schedule is the responsibility of the Plan's management. This supplemental schedule has been subjected to the auditing procedures applied in the audit of the 2009 basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ KPMG LLP

Omaha, Nebraska  
June 28, 2010

## Report of Independent Registered Public Accounting Firm

Plan Administrator  
TransCanada 401(k) and Savings IBEW 1245 Plan

We have audited the accompanying statement of net assets available for plan benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan (the "Plan") as of December 31, 2008, and the related statement of changes in net assets available for plan benefits for the year then ended. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan was not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly in all material respects, the net assets available for plan benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan as of December 31, 2008, and the changes in net assets available for plan benefits for the year then ended in conformity with accounting principles generally accepted in the United States.

/s/ Eide Bailly LLP

Greenwood Village, Colorado  
June 29, 2009

TRANSCANADA 401(K) AND SAVINGS IBEW 1245 PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

<i>December 31 (dollars)</i>	2009	2008
<b>Assets</b>		
Investments at fair value (Note 3)	2,182,000	1,389,769
Participant loans	58,721	57,839
Employer contribution receivable	341	1,458
<b>Net Assets Available for Benefits</b>	<b>2,241,062</b>	<b>1,449,066</b>

*The accompanying notes to the financial statements are an integral part of these statements.*

**TRANSCANADA 401(K) AND SAVINGS IBEW 1245 PLAN**

**STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS**

<i>Year ended December 31 (dollars)</i>	2009	2008
<b>Additions</b>		
Contributions		
Employee contributions	400,148	399,813
Employer contributions	92,385	83,234
	<u>492,533</u>	<u>483,047</u>
Investment Income		
Net increase in fair value of investments (Note 3)	428,349	-
Interest and dividend income	35,116	63,409
<b>Total Additions</b>	<u>955,998</u>	<u>546,456</u>
<b>Deductions</b>		
Benefits paid to participants	163,515	25,963
Administrative expenses	487	527
Net decrease in fair value of investments (Note 3)	-	758,438
Transfer of assets (Note 6)	-	50,718
<b>Total Deductions</b>	<u>164,002</u>	<u>835,646</u>
<b>Increase/(Decrease) in Net Assets Available for Benefits</b>	791,996	(289,190)
<b>Net Assets Available for Benefits</b>		
<b>Beginning of Year</b>	<u>1,449,066</u>	<u>1,738,256</u>
<b>End of Year</b>	<u>2,241,062</u>	<u>1,449,066</u>

*The accompanying notes to the financial statements are an integral part of these statements.*

## TRANSCANADA 401(K) AND SAVINGS IBEW 1245 PLAN

### NOTES TO FINANCIAL STATEMENTS

#### NOTE 1: DESCRIPTION OF PLAN

The following description of the TransCanada 401(k) and Savings IBEW 1245 Plan (the Plan) provides only general information. Participants and all others should refer to the Plan document for a more complete description of the Plan's provisions.

The Plan is a defined contribution plan for retirement benefits. The Plan excludes employees of TransCanada USA Services Inc. (TCUSA or the Company) or its subsidiaries that are not covered under a collective bargaining agreement with the International Brotherhood of Electrical Workers (IBEW)1245 and non-resident persons who have been non-resident for 183 days or more unless the employee remains on the Company's payroll, subject to certain restrictions. Employees may enroll when they have attained the age of 21 and completed 11 months of service by the end of a 12 month period with the Company. The Plan is subject to the provisions of the *Employee Retirement Income Security Act of 1974* (ERISA).

The Board of Directors of TCUSA has appointed Fidelity Management Trust Company (Fidelity or the Trustee) as custodian and trustee of the Plan's assets.

#### **Vesting**

Participants are immediately vested in their contributions (including rollovers), employer contributions and any earnings thereon. Employee rollovers are amounts transferred to the Plan from another qualified plan at the participant's request.

#### **Payment of Benefits**

Participants are eligible to request a distribution of their vested amounts upon retirement, death, total and permanent disability, severance of employment with the Company, or, in very limited circumstances, in the event of financial hardship. Distributions are made in the form of a lump-sum payment or a rollover to another qualified account.

A participant's normal retirement age is 65, however, a participant may elect to withdraw all or a portion of their contributions after the age of 59½, subject to certain conditions. A participant may receive pension benefits commencing on or after age 55 provided they have terminated their employment with the Company.

#### **Forfeitures**

As participants are immediately 100 per cent vested in their account balance, there are no forfeitures.

#### **Employee and Employer Contributions**

Each year, participants may voluntarily agree to contribute up to the lesser of 60 per cent of their compensation, as defined by the Plan document, and \$16,500 (2008 - \$15,500), subject to certain limitations under the Internal Revenue Code (the Code). Participants age 50 and older may contribute an additional \$5,500. The Company will match 50 per cent of each participant's contributions up to six per cent of the participant's compensation. To be eligible for employer-matching contributions, participants must have completed 11 months of service by the end of a 12 month period with the Company.



## **Participant Accounts**

Each participant's account is credited with the participant's contribution and an allocation of the Company's contribution and Plan earnings. Earnings are allocated by the fund based on the ratio of a participant's account invested in a particular fund to all participants' investments in that fund. Plan expenses are generally paid by the Company, which is the Plan Sponsor. Affected participant accounts are charged expenses related to participant loans.

Participants are responsible for investment decisions relating to the investment of assets in their account. The Trustee carries out all investing transactions on behalf of the participant.

## **Participant Loans**

Participants may borrow from their fund accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000 or 50 per cent of their vested account balance, reduced by the highest outstanding loan balance in their account during the prior 12 month period. Loan terms range from one to five years for general loans or up to ten years for the purchase of a primary residence. The loans are secured by the balance in the participant's account and bear interest at a reasonable interest rate, as determined by TCUSA (the Plan Administrator), based on prevailing market interest rates at the time. Interest rates remain fixed throughout the duration of the loan. The interest rate on loans outstanding at December 31, 2009 ranged from 4.25 per cent to 9.25 per cent (2008 - 6.00 per cent to 9.25 per cent). Principal and interest are paid through payroll deductions.

## **Investment in TransCanada Corporation**

Stock of TransCanada Corporation (TransCanada), the Company's parent, is available to participants in the Plan. A participant's portfolio may consist of up to ten per cent of TransCanada stock.

## **Administrative Expenses**

The Plan Administrator is responsible for filing all required reports on behalf of the Plan. The Company provides or pays for certain accounting, legal and management services on behalf of the Plan. The Company has not charged the Plan for these expenses or services.

## **Plan Termination**

Although it has not expressed any intent to do so, with approval from its Board of Directors, the Company has the right under the Plan to discontinue contributions at any time and to terminate the Plan, subject to the provisions of ERISA.

## **NOTE 2: SUMMARY OF ACCOUNTING POLICIES**

### **Basis of Presentation**

The financial statements of the Plan are prepared on a going concern basis and do not purport to reflect the financial status of the Plan if it were terminated. These financial statements present the aggregate financial position of the Plan and provide no information about the portion of assets attributable to any individual member or group of members. Amounts are stated in U.S. dollars unless otherwise indicated.

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from these estimates.

### **Basis of Accounting**

These financial statements are prepared using the accrual basis of accounting.

## **Investment Valuation and Income Recognition**

The Plan's investments are stated at fair value. The fair value of shares is determined by quoted prices in active markets using the closing sale price on the last business day of the Plan year.

Interest income is recorded on the accrual basis and dividend income is recorded on the ex-dividend date.

Net Increase/(Decrease) in Fair Value of Investments consists of: (1) the unrealized gains or losses on investments held during the year and (2) the realized gains or losses recognized on the sale of investments during the year.

Purchases and sales of securities are recorded on a trade-date basis. Realized gains and losses from security transactions are reported on the average-cost basis.

Participant loans are valued at the outstanding balances.

## **Contributions and Payment of Benefits**

Contributions are recorded in the period in which they become obligations of the Company. Benefits are recorded when paid.

## **Concentration of Risk**

The Plan's exposure to credit loss in the event of nonperformance of investments managed by the Trustee is limited to the carrying value of such instruments. The Plan's concentrations of credit risk, interest rate risk and market risk are dictated by the Plan's provisions as well as those of ERISA and the participants' investment preference.

## **NOTE 3: INVESTMENTS**

The Plan utilizes various investments, including common stock funds and mutual funds. Investment securities are exposed to various risks, such as interest rate, credit and overall market volatility. Due to the level of risk associated with certain investment securities and the level of uncertainty related to changes in value of these investments, it is reasonably possible that changes in the values of investment securities may occur in the near term and that such changes could materially affect participant account balances and the amounts reported in the financial statements.

### **Fair Value Hierarchy**

The Plan's financial assets and liabilities recorded or disclosed at fair value have been categorized into three categories based upon a fair value hierarchy. Fair value of assets and liabilities included in Level I is determined by reference to quoted prices in active markets for identical assets and liabilities. Assets and liabilities in Level II include valuations using inputs other than quoted prices for which all significant outputs are observable, either directly or indirectly. This category includes fair value determined using valuation techniques, such as option pricing models and extrapolation using observable inputs. Level III valuations are based on inputs that are not readily observable and are significant to the overall fair value measurement. Assets measured at fair value on a recurring basis are classified as follows. There were no transfers between any categories in 2009 or 2008.

<i>December 31, 2009 (dollars)</i>	Quoted Prices in Active Markets (Level I)	Significant Other Observable Inputs (Level II)	Significant Unobservable Inputs (Level III)	Total
Mutual funds				
Equity growth	1,649,549	-	-	1,649,549
Balanced	290,114	-	-	290,114
Fixed income	123,867	-	-	123,867
Money market	110,733	-	-	110,733
	<u>2,174,263</u>	<u>-</u>	<u>-</u>	<u>2,174,263</u>
Common stock and other	7,737	-	-	7,737
	<u>2,182,000</u>	<u>-</u>	<u>-</u>	<u>2,182,000</u>
<i>December 31, 2008 (dollars)</i>	Quoted Prices in Active Markets (Level I)	Significant Other Observable Inputs (Level II)	Significant Unobservable Inputs (Level III)	Total
Mutual funds				
Equity growth	978,203	-	-	978,203
Balanced	195,632	-	-	195,632
Fixed income	145,948	-	-	145,948
Money market	65,180	-	-	65,180
	<u>1,384,963</u>	<u>-</u>	<u>-</u>	<u>1,384,963</u>
Common stock and other	4,806	-	-	4,806
	<u>1,389,769</u>	<u>-</u>	<u>-</u>	<u>1,389,769</u>

### Significant Investments

The following is a summary of investments which represented five per cent or more of the Plan's Net Assets Available for Benefits:

<i>December 31 (dollars)</i>	2009	2008
Fidelity Diversified International Fund	376,492	214,874
Baron Asset Fund	321,556	216,545
Fidelity Dividend Growth Fund	249,551	122,183
Fidelity Equity Income Fund	231,869	138,609
Spartan ® U.S. Equity Index Fund	162,848	120,912
Fidelity Freedom 2010 Fund ®	114,083	77,804

### Net Increase/(Decrease) in Fair Value of Investments

Net Increase/(Decrease) in Fair Value of Investments by major category (including investments purchased, sold and held during the year) as determined by quoted market prices was as follows:

<i>Year ended December 31 (dollars)</i>	2009	2008
Mutual funds	427,242	(758,048)
Common stock and other	1,107	(390)
<b>Net Increase/(Decrease) in Fair Value of Investments</b>	<b>428,349</b>	<b>(758,438)</b>

**NOTE 4: INCOME TAXES**

The Plan is based on a volume submitted prototype plan document drafted by Fidelity Management & Research Company. The amended and restated volume submitter plan documents were submitted to the Internal Revenue Service (IRS) effective December 15, 2009, for an updated opinion letter. The IRS has not yet completed its review. The Plan Administrator and the Plan's tax counsel believe that the Plan is designed and is currently being operated in compliance with the Code requirements. The Plan is exempt from federal income taxes. Accordingly, no provision for federal income taxes has been made in the accompanying financial statements.

**NOTE 5: PARTY-IN-INTEREST AND RELATED PARTY TRANSACTIONS**

Certain Plan investments are shares of mutual funds managed by Fidelity, the Trustee as defined by the Plan, therefore these transactions qualify as party-in-interest.

The Company incurred \$17,585 of administrative expenses, as described in Note 1, on behalf of the Plan in the year ending December 31, 2009 (2008 - \$12,550). The Company has not charged the Plan for these expenses.

At December 31, 2009, Plan investments included \$6,687 (2008 – \$3,764) of TransCanada common stock and \$1,050 (2008 – \$1,042) in a TransCanada stock purchase account.

**NOTE 6: TRANSFER OF ASSETS**

The transfer in 2008 related to employees that were no longer covered under a collective bargaining agreement with the IBEW 1245 and therefore their accounts were transferred to the TransCanada 401(k) and Savings Plan. There were no such transfers in 2009.

**NOTE 7: SUBSEQUENT EVENTS**

Subsequent events have been assessed up to June 28, 2010, which is the date the financial statements were available for issuance.

TRANSCANADA 401(K) AND SAVINGS IBEW 1245 PLAN

EIN #: 98-040263

PLAN #: 003

FORM 5500 SCHEDULE H, PART IV, LINE 4i – SCHEDULE OF ASSETS (HELD AT END OF YEAR)  
AS OF DECEMBER 31, 2009

(a)	(b) Identity of Issuer, Borrower, Lessor or Similar Party	(c) Description of Investment	(e) Current Value (US dollars)
*	Fidelity Diversified International Fund	Mutual Fund	376,492
	Baron Asset Fund	Mutual Fund	321,556
*	Fidelity Dividend Growth Fund	Mutual Fund	249,551
*	Fidelity Equity-Income Fund	Mutual Fund	231,869
	Spartan ® U.S. Equity Index Fund	Mutual Fund	162,848
*	Fidelity Freedom 2010 Fund®	Mutual Fund	114,083
*	Fidelity Retirement Money Market Portfolio	Mutual Fund	110,733
*	Fidelity Freedom 2020 Fund®	Mutual Fund	89,436
	RS Partners A	Mutual Fund	73,682
*	Fidelity Export & Multinational Fund	Mutual Fund	70,664
*	Fidelity U.S. Bond Index Fund	Mutual Fund	64,607
*	Fidelity Aggressive Growth Fund	Mutual Fund	45,909
	Artisan Mid Cap Value Fund	Mutual Fund	45,611
*	Fidelity Fund	Mutual Fund	41,458
*	Fidelity Freedom Income Fund®	Mutual Fund	36,755
	Hartford Growth Y	Mutual Fund	29,909
*	Fidelity Inflation Protected Bond Fund	Mutual Fund	22,505
*	Fidelity Freedom 2040 Fund®	Mutual Fund	22,195
*	Fidelity Freedom 2025 Fund	Mutual Fund	22,177
*	Fidelity Freedom 2050 Fund	Mutual Fund	17,333
*	Fidelity Freedom 2000 Fund®	Mutual Fund	10,535
*	Fidelity Freedom 2030 Fund®	Mutual Fund	8,303
*	Fidelity Freedom 2015 Fund	Mutual Fund	2,856
*	Fidelity Freedom 2035 Fund	Mutual Fund	2,269
*	Fidelity Freedom 2045 Fund	Mutual Fund	927
	Total Mutual Funds		2,174,263
*	TransCanada Corporation	Common Stock	6,687
*	TransCanada Corporation	Stock Purchase Account	1,050
	Participant Loans	Interest rates ranging from 4.25% to 9.25% maturing through 2014	58,721
	<b>Total Investments</b>		2,240,721

\* Represents a party-in-interest (Note 5).

See accompanying report of independent registered public accounting firm.

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**SIGNATURES**

*The Plan.* Pursuant to the requirements of the Securities Exchange Act of 1934, TransCanada USA Services Inc. as Plan Administrator, has duly caused this annual report to be signed on its behalf by the undersigned, thereunto duly authorized.

Dated: June 28, 2010

**Union 1245 Plan #49213–TransCanada 401(k) and Savings IBEW 1245 Plan**

By: /s/ Wendy L. Hanrahan  
**Wendy L. Hanrahan**  
**Vice-President**  
**TransCanada USA Services Inc., the Plan Administrator**

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## EXHIBIT INDEX

- 23.1 Consent of Independent Registered Public Accounting Firm to incorporation by reference in Form S-8.
  - 23.2 Consent of Independent Registered Public Accounting Firm to incorporation by reference in Form S-8.
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**Consent of Independent Registered Public Accounting Firm**

Plan Administrator  
TransCanada 401(k) and Savings IBEW 1245 Plan

We consent to the incorporation by reference in the registration statement (No. 333-151736) on Form S-8 of TransCanada Corporation of our report dated June 28, 2010 with respect to the statement of net assets available for benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan as of December 31, 2009, the related statement of changes in net assets available for benefits for the year ended December 31, 2009, and the supplemental schedule H, line 4i – schedule of assets (held at end of year) as of December 31, 2009, which report appears in the December 31, 2009 annual report on Form 11-K of the TransCanada 401(k) and Savings IBEW 1245 Plan.

/s/ KPMG LLP

Omaha, Nebraska  
June 28, 2010

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**Consent of Independent Registered Public Accounting Firm**

Plan Administrator  
TransCanada 401(k) and Savings IBEW 1245 Plan

We consent to the incorporation by reference in the Registration Statement (No. 333-151736) on Form S-8 of TransCanada Corporation of our report dated June 29, 2009 relating to the statements of net assets available for plan benefits of the TransCanada 401(k) and Savings IBEW 1245 Plan as of December 31, 2008, and the related statement of changes in net assets available for plan benefits for the year ended December 31, 2008, which report appears in the December 31, 2009 Annual Report on Form 11-K of the TransCanada 401(k) and Savings IBEW 1245 Plan.

/s/ Eide Bailly LLP

Greenwood Village, Colorado  
June 28, 2010

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