

**Enbridge Gas Distribution Inc.  
Union Gas Limited  
EPCOR Natural Gas Limited Partnership**

**Cap-and-Trade  
2018 Compliance Plans**

**EB-2017-0224  
EB-2017-0255  
EB-2017-0275**

**Technical Conference**

**EXHIBIT AND UNDERTAKING LIST**

**KT**

**Exhibits**

**April 10, 2018**

2.1 CVS OF ENBRIDGE WITNESSES.

**April 9, 2018**

1.1 CVS FOR THE UNION WITNESSES .

1.2 THE MACC REPORTS.

1.3 BOARD LETTER DATED JULY 20, 2017.

1.4 EXCERPT FROM EB-2015-0049.

1.5 THE CPS.

1.6 DOCUMENT ENTITLED "ICF LONG-TERM CARBON PRICE FORECAST."

**UNDERTAKINGS**

**JT**

**Response Filed**

**April 10, 2018**

2.1 TO ADD A ROW TO THE TABLE ATTACHED TO ED24 ESTIMATING  
THE VALUE OF THE AVOIDED NATURAL GAS COSTS.

April 17, 2018

**JT**

**Response Filed**

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| 2.2  | TO ADD A ROW TO THE TABLE ATTACHED TO ED24 SHOWING THE PROGRAM ADMINISTRATOR COSTS, INCENTIVE COSTS, PROGRAMS COSTS, ADMINISTRATION COSTS.   | April 17, 2018 |
| 2.3  | TO SPLIT THE CHART IN ED24 UP BETWEEN CAPPED AND UNCAPPED CUSTOMERS AND TO PROVIDE IT IN EXCEL FORMAT.   | April 17, 2018 |
| 2.4  | TO UPDATE ON A BEST-EFFORTS BASIS THE NET BENEFITS ACCORDING TO THE PROGRAM ADMINISTRATOR COST TEST AND THE TRC FOR 2018 DSM PROGRAMS, TO ADD THE LONG-TERM CARBON PRICE FORECAST.   | April 17, 2018 |
| 2.5  | FOR ATTACHMENT 1 OF STAFF IR 24, TO REDO THE ANALYSIS COMPARING THE 2018 POTENTIAL ACCORDING TO THE POTENTIAL STUDY VERSUS THE DSM PLAN FOR ALL THREE SCENARIOS.   | April 17, 2018 |
| 2.6  | TO PROVIDE EXAMPLE THAT SHOWS MECHANICS OF THE PGVA AND GHG DVA WITH RESPECT TO FORECAST VS ACTUAL COSTS OF GAS AND CARBON.  | April 18, 2018 |
| 2.7  | TO ADVISE WHETHER THE PROPOSALS TO GOVERNMENT AND PRESENTATIONS TO GOVERNMENT PRE-DATED THE COMMITMENT OF 100 MILLION.   | April 17, 2018 |
| 2.8  | TO MAKE BEST EFFORTS TO PROVIDE THE NUMBER OF PARTICIPANTS BY MEASURE IN THE C&I AND PRESCRIPTIVE CUSTOMERS.   | April 17, 2018 |
| 2.9  | FOR THE UTILITY-SCALE PROJECT, TO ADVISE WHETHER ENBRIDGE ANTICIPATES THAT TO BE FUNDED BY THE IESO OR THROUGH THE LCIF.   | April 17, 2018 |
| 2.10 | TO PROVIDE AN EXAMPLE OF HOW ACTUALS VS VARIANCES WILL FLOW THROUGH THE PGVA AND GHG DVA.  | April 17, 2018 |
| 2.11 | TO PROVIDE AN EXAMPLE OR UNDERSTANDING OF HOW BAD DEBT EXPENSE IS CALCULATING RESULTING FROM INCREASED BILLS DUE TO CAP AND TRADE COSTS.   | April 17, 2018 |
| 2.12 | TO ADVISE THE NUMBER OF FTES APPROVED FOR 2017 AND THEN HOW MANY WERE ACTUALLY FILLED.   | April 17, 2018 |
| 2.13 | WHEN THE BIDS ARE IN, TO PROVIDE A RANGE; TAKEN UNDER ADVISEMENT.  | April 17, 2018 |
| 2.14 | TO RECATEGORY THE NON-SALARY ITEMS INTO THE CATEGORIES OF WHAT ARE OVERHEADS AND WHAT'S COMPENSATION, AND SPECIFICALLY DOES ENBRIDGE HAVE AN INCENTIVE PROGRAM AS PART OF THE COMPENSATION.  | April 17, 2018 |
| 2.15 | TO RERUN THE TABLE AT EXHIBIT GEC.ED.STAFF.3 USING THE SAVINGS THAT ARE INCLUDED WITHIN THE CONSERVATION POTENTIAL REPORT, AND AT THE THREE VARIOUS SCENARIOS, CONSTRAINED, SEMI-CONSTRAINED AND UNCONSTRAINED, FOR THE PERIOD 2018 TO 2020. | April 17, 2018 |

**JT**

**Response Filed**

**April 9, 2018**

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| 1.1   | TO PROVIDE ANY CARBON PRICE FORECASTS IN UNION'S POSSESSION THAT COVER YEARS BEYOND 2028.  | April 16, 2018<br>(updated April 20, 2018) |
| 1.2   | TO UPDATE THE LARGE VOLUME PROGRAM TABLE IN ED4 TO INCLUDE AN ESTIMATE FOR THE VALUE OF AVOIDED NATURAL GAS COSTS  | April 16, 2018                             |
| 1.3   | TO ADD A ROW TO THE TABLE AT THE BOTTOM OF ATTACHMENT A, EXHIBIT B.ED.24 SHOWING THE PROGRAM ADMINISTRATOR COSTS ASSOCIATED WITH CARBON AND GAS REDUCTIONS.  | April 16, 2018                             |
| 1.3.1 | TO ADD A ROW TO SHOW THE COST TO CUSTOMERS OVER TIME, AS IF THE PROGRAM ADMINISTRATOR COSTS WERE ADDED TO RATE BASE IN 2018 SO THAT IT WILL FLOW MATCHING THE BENEFITS; TAKEN UNDER ADVISEMENT.  | April 16, 2018                             |
| 1.4   | TO DISCUSS OPTIONS AVAILABLE TO UNION TO FINANCE CONSERVATION FUNDING OVER TIME, WHETHER THAT BE THROUGH DEBT EQUITY OR OTHERWISE; TAKEN UNDER ADVISEMENT  | April 16, 2018                             |
| 1.5   | TO DETERMINE WHETHER THERE IS ANYTHING TO ADD TO THE RESPONSE TO EXHIBIT B.ED.25/26; TAKEN UNDER ADVISEMENT.   | April 16, 2018                             |
| 1.6   | TO PROVIDE THE TRC RATIO AND TRC NET BENEFITS FOR UNION'S 2018 DSM PROGRAMS.   | April 16, 2018                             |
| 1.7   | TO LOOK FOR AND PROVIDE IF POSSIBLE THE NET BENEFITS FORECAST OR PLANNED FOR THE GREEN INVESTMENT FUND, AND THE COST/BENEFIT RATIO OF THOSE PROGRAMS.  | April 16, 2018                             |
| 1.8   | TO PROVIDE THE ANALYSIS OF CURRENT DSM PROGRAMS THAT ADDRESSES INDUSTRIAL HVAC AND THE FORECASTED POTENTIAL TO THE OPPORTUNITY THAT'S BEEN PRESENTED IN THE MACC.  | April 16, 2018                             |
| 1.9   | TO UPDATE THE INTERROGATORY RESPONSE TO EXPLAIN THE ACCOUNTING OF THE FIXED PRICE OF RNG AND HOW THE DIFFERENCES WILL BE TREATED WITH RESPECT TO THE COST OF GAS AND THE COST OF CARBON.   | April 16, 2018<br>(updated April 20, 2018) |
| 1.10  | TO MAKE BEST EFFORTS TO RECALCULATE THE PAC AND TRC NET BENEFITS, ADDING THE LONG-TERM CARBON PRICE FORECAST TO ENSURE THE BENEFITS OF AVOIDED COST OF CARBON IS CAPTURED; IN OTHER WORDS, TO IMPLEMENT THAT SUGGESTION THAT WE HAD DISCUSSED FROM GEC 22. | April 16, 2018                             |
| 1.11  | TO FILE THE COMPLETE VERSION OF ATTACHMENT A TO B.ED.21, IF POSSIBLE.  | April 16, 2018                             |
| 1.12  | TO PROVIDE THE COMPLETE DOCUMENT IN ATTACHMENT B INSTEAD OF EXCERPTS.  | April 16, 2018<br>(filed in confidence)    |
| 1.13  | TO PROVIDE THE UNDERLYING INFORMATION RELATING TO UNION GAS'S ONTARIO EMISSION REDUCTION FORECAST, IF IT EXISTS AND IF IT IS AVAILABLE, AND TO SUMMARIZE HOW UNION GAS'S ANALYSIS VARIES FROM THE ICF ANALYSIS, TO THE EXTENT THAT IT SEPARATELY EXISTS.   | April 16, 2018                             |

**JT**

**Response Filed**

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| 1.14 | TO PROVIDE THE ASSUMPTIONS USED IN ESTIMATING THE IMPACT OF GOVERNMENT PROGRAMS ON THE FORECAST OF CUSTOMER GAS USE.   | April 16, 2018 |
| 1.15 | TO PROVIDE THE SUGGESTED IDEAS AND ANALYSIS GIVEN TO THE MOE CC AND GREENON.   | April 16, 2018 |
| 1.16 | TO MAKE BEST EFFORTS TO BREAK OUT LIFETIME GHG EMISSIONS REDUCTIONS FROM 2018 DSM PROGRAMS, CAPPED VERSUS UNCAPPED.  | April 16, 2018 |
| 1.17 | TO PROFIDE THE MATERIAL SHOWING HOW UNION CAME UP WITH THE \$535,000 BUDGET WITH RESPECT TO MICRO-GENERATION.  | April 16, 2018 |
| 1.18 | TO EXPLAIN THE SYSTEM LIMITATION DESCRIBED IN APPRO 10.  | April 16, 2018 |
| 1.19 | TO PROVIDE THE INTERNAL DOCUMENT SETTING OUT THE ABATEMENT CONSTRUCT, IF IT EXISTS.  | April 16, 2018 |
| 1.20 | TO PRODUCE FINAL MEETING MINUTES OF MEETINGS BETWEEN UNION AND ENBRIDGE TO DEVELOP AN ABATEMENT CONSTRUCT, INCLUDING ANY PRESENTATIONS USED TO FACILITATE THE MEETING OR MEETINGS.   | April 16, 2018 |
| 1.21 | TO CONFIRM WHAT TYPES OF NATURAL GAS USE IS INCLUDED IN FACILITY-RELATED GAS; TO PROVIDE WHICH FACILITY-RELATED GAS CHARGES OR GAS COSTS HAVE A VARIANCE ACCOUNT OR A DEFERRAL ACCOUNT ASSOCIATED WITH THEM.   | April 16, 2018 |
| 1.22 | TO ADVISE WHETHER ALL CUSTOMERS, BEING SYSTEM AND DIRECT PURCHASE, LARGE FINAL EMITTERS, VOLUNTARY PARTICIPANTS, AND WHOLESALE CUSTOMERS, ARE PAYING FACILITY-RELATED CHARGES AND WHO PAYS THE CUSTOMER-RELATED CHARGE? IS IT SYSTEM AND DIRECT PURCHASE CUSTOMERS EXCEPT FOR LARGE FINAL EMITTERS, VOLUNTARY PARTICIPANTS, AND WHOLESALE CUSTOMERS? | April 16, 2018 |
| 1.23 | TO ADVISE, IF UNION WERE TO PURCHASE 3.4 PETAJOULES FOR ITS FACILITY-RELATED FUEL REQUIREMENTS AS PART OF THE 4.9 PETAJOULES OF RNG THAT IT EXPECTS TO PURCHASE, HOW WOULD THAT IMPACT WHO WAS AT RISK FOR THE VARIANCES IN THE COST OF GAS AND IN THE COST OF CARBON.   | April 16, 2018 |
| 1.24 | TO ADVISE WHETHER IT IS CORRECT THAT WHEN THE EMISSIONS ARE NETTED OUT OVER TIME DUE TO REGROWTH OF THE BIOMASS, THAT ABSORBS CARBON DIOXIDE FROM THE ATMOSPHERE; ALSO, TO EXPLAIN HOW THIS PHENOMENON OCCURS FOR HUMAN OR ANIMAL WASTE BEING CONVERTED TO METHANE FOR THE PURPOSES OF RNG.  | April 16, 2018 |

**JT**

**Response Filed**

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| 1.25 | TO ADVISE IF THE RESPONSE IS ANY DIFFERENT IF THE REFERENCE POINT IS SOMETHING OTHER THAN THE STAFF.6 EXAMPLE.   | April 16, 2018                             |
| 1.26 | BASED ON THE EXAMPLE IN BOARD STAFF 6, TO PROVIDE THE CURRENT FORECAST FOR THE ALL-IN TOTAL COST OF RNG, ABSENT GOVERNMENT FUNDING; IF THERE IS A RANGE, TO PROVIDE THE RANGE OF THE ACTUAL COST; SUBJECT TO CONFIDENTIALITY RESTRAINTS AND PROTOCOLS, IF ANY.   | April 16, 2018                             |
| 1.27 | TO BREAK OUT FOR ALL THREE OF THOSE CATEGORIES - BENEFITS LOADING, TOTAL OF GENERAL OVERHEADS, AND INCENTIVE PLAN LOADING -- A BETTER BREAKDOWN OF WHERE THE COSTS COME FROM AND THEN SPECIFIC INCENTIVE PLAN LOADING SPECIFIC TO THE RESPONSIBILITIES OF THESE TWELVE-AND-A-HALF PEOPLE IN COMPLIANCE, WHAT ARE THEY BEING INCENTED TO DO, WHAT METRICS ARE THEY BEING MEASURED AGAINST FOR THEIR INCENTIVES. | April 16, 2018                             |
| 1.28 | DETERMINE WHETHER A CALCULATION CAN BE DONE TO DETERMINE HOW MUCH NATURAL GAS WOULD NEED TO BE IN THE GENERATION STACK TO BE ABLE TO MAKE THE STATEMENT THAT CHP IS EMISSION-NEUTRAL IN THE GENERATION OF HEAT AND POWER.<br><br>PROVIDE THE CALCULATION, IF IT CAN BE DONE; TAKEN UNDER ADVISEMENT  | April 16, 2018                             |
| 1.29 | TO PROVIDE THE ACTUAL VOLUMES BY RATE CLASS FOR THE LAST THREE YEARS AND THE THREE-YEAR AVERAGE AND ADVISE HOW THEY CAME UP WITH THE FORECAST.   | April 16, 2018                             |
| 1.30 | TO EXPLAIN WHY THE DEFERRAL AMOUNTS FOR C1 ARE SO MUCH SMALLER THAN M12.   | April 16, 2018                             |
| 1.31 | TO PROVIDE THE RESEARCH AND/OR RELATED DATA FOR PHASE 1 AND PHASE 2 MICRO-GENERATION INITIATIVES; AND IF NOT, TO ADVISE WHY NOT.   | April 16, 2018<br>(updated April 20, 2018) |
| 1.32 | TO CONFIRM THE POSITION THAT UNION AND/OR A MICRO-GENERATOR RETAINS THE INTELLECTUAL PROPERTY RELATED TO THOSE DEVELOPMENTS AND WILL NOT MAKE THAT AVAILABLE TO OTHERS.  | April 16, 2018                             |
| 1.33 | TO ADVISE WHAT HAS BEEN SPENT TO DATE FOR EACH OF THE CATEGORIES IN THE BREAKDOWN OF PROPOSED LCIF FUNDING FOR 2018 PROVIDED WITH BOARD STAFF 21   | April 16, 2018                             |

**JT**

**Response Filed**

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| 1.34 | TO FILE THE DOCUMENT REFERRED TO IN IR BOARD STAFF 21F.  | April 16, 2018                                   |
| 1.35 | TO CONFIRM WHETHER THE HOME WEATHERIZATION PROGRAM FOR LOW-INCOME QUALIFIED CUSTOMERS IS AVAILABLE TO BOTH RENTERS AND HOMEOWNERS. | April 16, 2018                                   |
| 1.35 | SUBJECT TO CONFIDENTIALITY, TO FILE A COPY OF THE ATTRIBUTION AGREEMENT BETWEEN UNION AND THE GOVERNMENT                           | April 16, 2018<br>(updated filed April 23, 2018) |
| 1.36 | TO PROVIDE THE FORECAST OF THE NUMBER OF HOMES THAT WILL TAKE ADVANTAGE OF THE ADVANCED RETROFIT IN 2018.                          | April 16, 2018                                   |