

1 **COST ALLOCATION AND RATE POOL REVENUE**
2 **REQUIREMENT**

3
4 **1. INTRODUCTION**

5
6 The purpose of Exhibit G1 is to describe the process followed by Hydro One to allocate
7 the transmission rates revenue requirement into rate pools.

8
9 This schedule sets the context for cost allocation in this Application and provides Hydro
10 One's transmission rates revenue requirement input that is used to determine the Uniform
11 Transmission Rates ("UTR").

12
13 The remaining schedules of Exhibit G1 provide further explanation on:

- 14 • the cost allocation methodology to functional categories (refer to Exhibit G1, Tab 2,
15 Schedule 1), and
16 • the aggregation of functional categories into the Network, Line Connection and
17 Transformation Connection rate pools (refer to Exhibit G1, Tab 3, Schedule 1).

18
19 **2. SUMMARY**

20
21 In Hydro One's 2015/2016 Transmission Rate Application (EB-2014-0140), the Board
22 approved Hydro One's methodology to allocate the transmission rates revenue
23 requirement into four rate pools: Network, Line Connection, Transformation Connection
24 and Wholesale Meter. Given that Wholesale Meters now account for less than 0.1% of
25 the revenue requirement, this Application proposes to simplify the allocation process by
26 eliminating the Wholesale Meter rate pool and allocating the rates revenue requirement
27 into the three remaining rate pools: Network, Line Connection and Transformation

Witness: Henry Andre

1 Connection. The basis and details of this proposal are outlined further in Exhibit G1, Tab
2 2, Schedule 1, and Exhibit H1, Tab 3, Schedule 1.

3
4 Other than the change related to Wholesale Meters, the cost allocation methodology has
5 not changed from what was approved by the Board in the Decision and Rate Order in
6 Proceeding EB-2014-0140.

7
8 Table 1 below summarizes the allocation of Hydro One's transmission rates revenue
9 requirement into the proposed rate pools. This summary of rate pool revenue
10 requirement represents Hydro One Transmission's input into the determination of the
11 provincial 2017 and 2018 UTRs. The UTRs are collected by the Independent Electricity
12 System Operator ("IESO") from market participants who are defined transmission
13 customers in Ontario.

14
15 **Table 1: Summary of Rates Revenue Requirement by Rate Pool**
16 **(\$Millions)**

Year	Network	Line Connection	Transformation Connection	Total*
2017	853.4	214.3	437.1	1504.7
2018	898.9	226.4	460.0	1585.3

17
18 *This amount is net of the \$0.3million in WMS revenue which accounts for the difference when
19 comparing to the total rates revenue requirement shown in Exhibit E1, Tab 1, Schedule 1.

Witness: Henry Andre

1 **DESCRIPTION OF COST ALLOCATION METHODOLOGY**

2
3 **1. INTRODUCTION**

4
5 Hydro One Transmission’s 2017 and 2018 rate base and rates revenue requirement
6 components are described in Exhibits D1, Tab 1, Schedule 1 and E1, Tab 1, Schedule 1
7 respectively. This exhibit describes the methodology used to allocate these costs into
8 functional categories.

9
10 The cost allocation methodology described below is the same methodology approved by
11 the Board in the Decision and Rate Order in Hydro One’s 2015/2016 Transmission Rate
12 Application (EB-2014-0140), with the exception of the treatment of costs related to
13 wholesale revenue metering (“WRM”) assets, as described in Section 3.4.

14
15 **2. KEY STEPS OF COST ALLOCATION METHODOLOGY**

16
17 The cost allocation methodology consists of the basic steps identified below:

- 18
19 (a) Review Board decisions impacting cost allocation and rate design.
20 (b) Functionalize assets into the transmission functional categories. The term
21 “transmission functional categories” refers to the groupings to which all physical
22 assets and their associated costs are assigned on the basis of the criteria described in
23 Section 3.0.
24 (c) Apportion Hydro One’s transmission rates revenue requirement components to the
25 functional categories on the basis of direct assignment, to the extent possible.
26 Allocate remaining costs, which cannot be directly assigned, among the functional
27 categories using the previously approved methodology as summarized in Section 4.0.

Witness: Henry Andre

1 The cost allocation activities described by the above steps result in the split of the Hydro
2 One transmission rates revenue requirement by functional category, which is a necessary
3 step to define Hydro One's transmission rates revenue requirement by rate pool. Details
4 on the mapping of functional categories to the rate pools are described in Exhibit G1, Tab
5 3, Schedule 1.

6

7 **3. FUNCTIONALIZATION OF ASSETS**

8

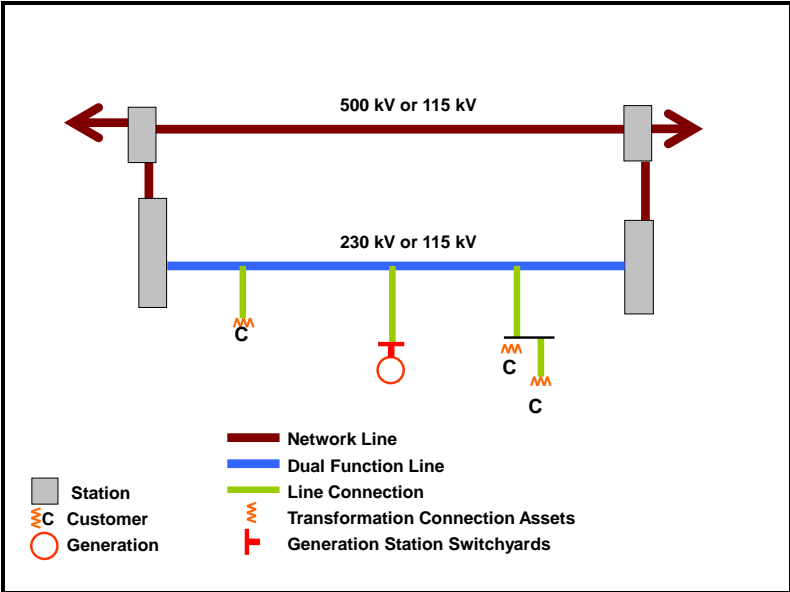
9 A key activity in determining the rates revenue requirement for each rate pool is the
10 process of grouping similar physical assets owned by Hydro One into functional
11 categories. Determination of the functional category, to which a transmission asset
12 belongs, is based on the normal system operating condition of assets in-service as of the
13 end of 2015 with due consideration given to any Board decisions regarding the treatment
14 of specific assets. The assignment of transmission assets to the functional categories is
15 based on the actual year end 2015 asset values, the electrical system and customer
16 connectivity, and the load forecast data for the test years.

17

18 A simplified diagram of the basic elements of the transmission system, useful in
19 understanding the assignment of assets to the functional categories, is provided in Figure
20 1.

1

Figure 1: Transmission System Basic Elements



2

3

4 The functional categories to which assets are assigned are Network, Dual Function Line,
5 Line Connection, Transformation Connection, Generation Line and Transformation
6 Connection, Common, and Other. A description of each of these functional categories is
7 provided below.

8

9 For the purpose of delineating costs to the rate pools, the asset values for the Dual
10 Function Line, and the Generation Line and Transformation Connection functional
11 categories are further separated as per the methodology described in Section 3.2 and
12 Section 3.5 respectively.

13

14 **3.1 Network Assets**

15

16 The transmission facilities that are used for the benefit of all customers, or have been
17 approved by the Board as being for the benefit of all customers in the province, are
18 categorized as Network assets.

Witness: Henry Andre

1 Network assets are designed to provide reliability of the integrated transmission system
2 and enhance overall electricity market efficiency. These assets are comprised of the
3 integrated transmission facilities operating at 500 kV or 230 kV that link major sources of
4 generation to major load centres. In the Board's Decision in Proceeding EB-2011-0043,
5 the meaning of a Network asset was expanded to also include certain assets captured
6 under the previous definition of a Line Connection asset, and/or portions thereof, that
7 provide other functions beyond supplying load.¹ Per Section 3.0.14 of the Transmission
8 System Code, subject to the aforementioned criteria:

9
10 (a) a "network facility" includes any line that forms part of the physical path between:

- 11 i. two network stations; or
- 12 ii. networking stations and the transmission system of a neighbouring Ontario
13 transmitter or a transmission system outside Ontario, such that electricity can
14 be transmitted along the entire path under some operating conditions, which
15 may or may not reflect normal operating conditions; and

16
17 (b) a "network station" includes any station with one or more of the following:

- 18 i. an element that is greater than 500 kV;
- 19 ii. an autotransformer that steps down voltage from a higher transmission level to
20 a lower transmission level;
- 21 iii. a transmission switchyard to which all of the following are connected:
 - 22 A. one or more generation facilities with a minimum aggregate installed rated
23 capacity of 250 MW;
 - 24 B. one or more load facilities with a minimum aggregate load of 150 MW; and
 - 25 C. a minimum of four transmission circuits.

¹ This revision is only applicable where a line or station commences to be constructed on or after August 26, 2013, or where an existing line or station is expanded or reinforced for the purposes of increasing its capacity and the expansion or reinforcement commences to be constructed on or after August 26, 2013, regardless of when the line or station was originally placed into service.

1 More specific to Hydro One, Network assets include:

- 2 • All 500 kV circuits and 500/230 kV autotransformer facilities.
- 3 • All capacitor bank facilities located at transformation or switching stations.
- 4 • All 230 kV circuits that are not tapped to supply load and that are normally operated
5 in parallel with the 500 kV circuit(s); such parallel circuits may be circuit(s) that form
6 a group of transmission circuits that together normally operate in parallel with the
7 500kV circuit(s).
- 8 • All 115 kV circuits that are not tapped to supply load and that are normally operated
9 in parallel with network circuits noted above.
- 10 • The 230/115 kV autotransformer facilities normally connecting the 230 kV and
11 115kV circuits noted above and/or a portion of Dual Function Lines described in
12 Section 3.2.
- 13 • All 230 kV and 345 kV “interconnection circuits”, which are lines connecting Hydro
14 One’s transmission system to the transmission systems owned by other transmitters in
15 Ontario and/or by neighboring jurisdictions.
- 16 • All 230 kV circuits that are not tapped to supply load and that are normally operated
17 in such a manner that they connect the “interconnection circuits”, directly or through
18 a group of transmission circuits, to any of the 500 kV and 230 kV network circuits
19 noted above.
- 20 • The specific sections of 115 kV circuits that interconnect with transmission systems
21 owned by other transmitters in Ontario and/or by the neighboring jurisdictions,
22 beginning from the junction or station from/at which Hydro One Transmission’s
23 customer load is supplied up to the border of the other transmitters system.
- 24 • The transformation or switching stations, or portions thereof, including the circuit
25 breakers and associated assets that switch the network circuits and the Dual Function
26 Lines described in Section 3.2.

Witness: Henry Andre

1 **3.2 Dual Function Line Assets**

2
3 The transmission circuits that provide both Network and Line Connection functions are
4 classified as Dual Function Line (“DFL”) assets. More specifically, DFL assets are used
5 for both the common benefit of all customers, and for providing a connection between a
6 network station and load supply point(s) for one or more customers.

7
8 The transmission circuits comprising the following types of electrical assets are assigned
9 to the DFL functional category of assets:

- 10 • All 230 kV and 115 kV circuits that are tapped to supply load and that are normally
11 operated in parallel with the 500 kV circuit(s); such parallel circuits may be circuit(s)
12 that form a group of transmission circuits that together normally operate in parallel
13 with the 500 kV circuit(s).
- 14 • All 115 kV circuits that are tapped to supply load and that are normally operated in
15 parallel with network circuits or Dual Function Lines noted above.
- 16 • All 230 kV circuits that are tapped to supply load and that are normally operated in
17 such a manner that they connect the “interconnection circuits”, directly or through a
18 group of transmission circuits, to any of the 500 kV and 230 kV network circuits
19 noted above.
- 20 • A “local loop” under the condition that an existing Line Connection has been
21 reconfigured to create a new independent delivery path emanating from one network
22 station and ending uninterrupted at another network station, and where the transfer
23 capacity between these two existing network stations has been increased thereby
24 providing a network benefit.

25
26 For cost allocation purposes, the value of each Dual Function Line is split between the
27 Network and Line Connection functions of each asset using the methodology approved
28 by the Board in Proceeding EB-2014-0140. The allocation factors used to split the DFL

Witness: Henry Andre

1 asset value between these functions are derived using the average forecast monthly
2 coincident peak demand, for the respective test year, of customer load (“DFL Customer
3 Demand”) connected to the Dual Function Line and the minimum of the average of
4 summer and winter transmission capacity (“Minimum DFL Capacity”) of the Dual
5 Function Line as follows:

6
7 Line Connection Portion of DFL:

8
9
$$\text{Proportion Allocated to the Line Connection Portion of DFL} = \frac{\text{Average Monthly DFL Customer Demand}}{\text{Minimum DFL Capacity}}$$

10
11 Network Portion of DFL:

12
$$\text{Proportion Allocated to the Network Portion of DFL} = 1 - \text{Proportion Allocated to the Line Connection Portion of DFL}$$

13
14 The use of customers’ average monthly coincident peak demand as a proxy for the extent
15 to which the minimum of the average DFL capacity is used for Line Connection purposes
16 is considered an appropriate allocator as it reflects the load diversity inherent in the use of
17 a DFL by connected customers.

18
19 Exhibit G2, Tab 2, Schedule 1 lists the DFLs and the corresponding proportions of asset
20 value that are allocated to the Network and Line Connection portions of the DFL
21 functional categories.

22
23 **3.3 Line Connection Assets**

24
25 The transmission circuits and intermediate stations operating at 230 kV or 115 kV that
26 are used to provide a connection between a network station and load supply point(s) for

Witness: Henry Andre

1 one or more customers and/or one or more generating stations are categorized Line
2 Connection assets. Similarly, transmission circuits used to provide a connection between
3 a Dual Function Line and load supply point(s) for one or more customers and/or one or
4 more generating stations are also categorized Line Connection assets.

5
6 Line Connection assets do not reinforce the integrated transmission system that is
7 commonly shared by a large portion of, or entire, Province. Specifically, the transmission
8 circuits or stations comprising the following type of electrical assets, excluding any assets
9 referred to in Section 3.1 and 3.2 above, are assigned to Line Connection functional
10 category of assets:

- 11 • The 230 kV or 115 kV transmission circuits that are radial and connect (directly or
12 indirectly via other connection circuits) to one of the network stations or Dual
13 Function Lines defined above.
- 14 • The intermediate 230 kV or 115 kV radial station assets that serve one or more
15 customers.
- 16 • If a local loop, as described in Section 3.2, does not increase the transfer capability
17 along the full length of the transmission interface between two existing network
18 stations.
- 19 • Intermediate radial stations, or portions thereof, dropping voltage from 230 kV to
20 115kV are also categorized as a Line Connection asset if they are not already
21 categorized as a Network asset as per the guidelines above. These facilities cannot be
22 classified as Transformation Connection assets, since they do not meet the “drop the
23 voltage from above 50 kV to below 50 kV” criteria.

24
25 The treatment of Line Connection assets that are partially or fully used to connect
26 generating stations to the transmission system is described in Section 3.5.

1 **3.4 Transformation Connection Assets**

2
3 Transformer stations owned by Hydro One, or portions thereof, which step down the
4 voltage from above 50 kV to below 50 kV, are categorized as Transformation Connection
5 assets. Transformation Connection assets also include those that are partially or fully
6 used to connect generating stations to the transmission system, the treatment for these is
7 further described in Section 3.5.

8
9 In this application, Hydro One proposes to expand the Transformation Connection
10 functional category to include Wholesale Revenue Metering (“WRM”) assets that
11 formerly made up the Wholesale Meter functional category. These WRM installations²
12 were inherited by Hydro One Transmission from the former Ontario Hydro based on
13 Chapter 6 of the Market Rules for the Ontario Electricity Market, which required Hydro
14 One Transmission to be a Meter Service Provider (“MSP”) under a transitional
15 arrangement with respect to the WRM facilities. The transitional MSP arrangement was
16 envisaged to exist for each metering installation from the open market commencement
17 date (May 1, 2002) until the earliest expiry date of any seal period³ of any equipment
18 forming part of such metering installation. Once the seal period expires, the Metered
19 Market Participant⁴ (“MMP”) is required to make alternative arrangements for obtaining
20 competitive MSP services as necessary to comply with the provisions of Chapter 6 of the
21 Market Rules. In situations where an MMP fails to take action to upgrade or otherwise
22 bring their metering installation into compliance with the Market Rules, Hydro One

² As defined in Chapter 11 of the Market Rules, “Metering Installation” means any apparatus, including but not limited to a Registered Wholesale Meter (“RWM”), used to measure electrical quantities and includes the communication system by which metering data is transferred to the relevant telecommunications network through which metering data is transferred to the communication of the metering database.

³ Under Federal guidelines administered by Measurement Canada, each meter used for wholesale revenue transactions has a seal period, normally about 6 years for the wholesale electricity meters, after which it has to be recertified with respect to its accuracy of measurement.

⁴ Metered Market Participant (“MMP”) is a customer who is responsible to ensure that metering equipment and a registered agent, MSP, is available to ensure correct measurement of the MMP’s consumption for the purpose of billing and settlement by the IESO.

Witness: Henry Andre

1 Transmission will re-seal the meter and continue to service these meters as in pre-market
2 commencement conditions, to fulfill its obligations with Measurement Canada.

3
4 At the time the market opened in 2002, Hydro One Transmission owned and serviced
5 1200 WRM installations, comprising of 1700 WRM points⁵. The total associated costs
6 were significant enough that it warranted a dedicated functional category, and subsequent
7 rate pool. However in accordance with the Market Rules, the number of WRM
8 installations serviced by Hydro One Transmission is declining to meet the expiry of the
9 transitional arrangement at the end of 2020, as required by Measurement Canada. As of
10 the end of 2015, Hydro One Transmission's ownership of WRM installations has been
11 reduced to 32 WRM installations comprising of 52 WRM points. The small costs
12 associated with these remaining WRM installations no longer justify the need for a
13 dedicated WRM functional category. Since these installations are located in transformer
14 stations, Hydro One proposes to include these assets in the Transformation Connection
15 functional category, and eliminate the Wholesale Meter functional category.

16 17 **3.5 Generation Line and Transformation Connection Assets**

18
19 Some of the existing Line Connection assets and Transformation Connection assets,
20 described in Sections 3.3 and 3.4 above, are partially or fully used to connect generating
21 stations to the transmission system.

22
23 For a connection facility, including Generation Station switchyards, that is used solely to
24 connect a generating station(s), the asset value can be fully allocated to the appropriate

⁵ The meter point count at Market Open as per proceeding RP-2003-0018/EB-23003-0233; where "Meter Point" as defined in Chapter 11 of the Market Rules means, in respect of a load facility and of a generation facility with respect to which the current transformers are located on the output side of the generation facility, the physical location of the current transformers used to measure power flow and, in respect of a generation facility with respect to which the current transformers are located on the grounded side of the generation facility, the physical location of the voltage transformers.

1 Generation Connection functional category; either Generation Line Connection or
2 Generation Transformation Connection depending on the type of electrical asset.

3

4 In cases where a connection facility, including Generation Station switchyards, is used to
5 connect one or more generating station(s) and one or more transmission load customer
6 delivery points, it is appropriate that the portion of connection facility costs associated
7 with generating stations be separately identified. In this manner, some of the costs
8 associated with that facility are allocated to the appropriate Generation Connection
9 functional category, and the remaining costs are allocated to the load customer through
10 either the Line Connection or Transformation Connection functional category. In these
11 cases, the allocation of the asset value is based on the sum of the maximum annual non-
12 coincident peak demand of all delivery points connected to the connection facility and the
13 maximum installed capacity of generation connected to that facility as follows:

14

15 Generator Connections Portion:

$$\text{Proportion Allocated to the Generator Connections} = \frac{\text{Generation Capacity}}{\text{Generation Capacity} + \text{Non-Coincident Peak Demand}}$$

17

18 Load Customer Connections Portion:

$$\text{Proportion Allocated to the Load Connections} = 1 - \text{Proportion Allocated to the Generator Connections}$$

20

21 This use of a delivery point's maximum annual non-coincident peak demand and the
22 maximum generator installed capacity as the basis for allocating the costs of connection
23 assets specifically dedicated for their joint use is considered appropriate since these
24 values represent the maximum extent to which the assets could be used by either party,
25 and it is the methodology approved by the Board in Proceeding EB-2014-0140.

Witness: Henry Andre

1 A listing of the transmission lines and stations, which are used for connecting generation
2 stations to the transmission network are provided in Exhibit G2, Tab 3, Schedule 1 and
3 Exhibit G2, Tab 3, Schedule 2 respectively. These exhibits show the corresponding
4 proportion of those assets that is allocated to the Generator Connection and to the Load
5 Connection functional categories in accordance with the methodology described above.

6 7 **3.6 Common Assets**

8
9 Commonly used facilities that serve the operation of the overall provincial transmission
10 system are categorized Common assets. Common assets include rate base
11 telecommunication and control equipment, administration buildings and control rooms,
12 minor fixed assets (such as office computers and equipment) and electrical equipment
13 held in reserve.

14 15 **3.7 Other Assets**

16
17 Remaining Hydro One Transmission owned facilities that cannot be assigned to any of
18 the functional categories listed above are categorized as Other assets. These assets
19 include facilities such as disconnect switches in customer-owned stations and
20 transmission facilities that cannot be allocated to one of the other functional categories
21 under normal operating conditions.

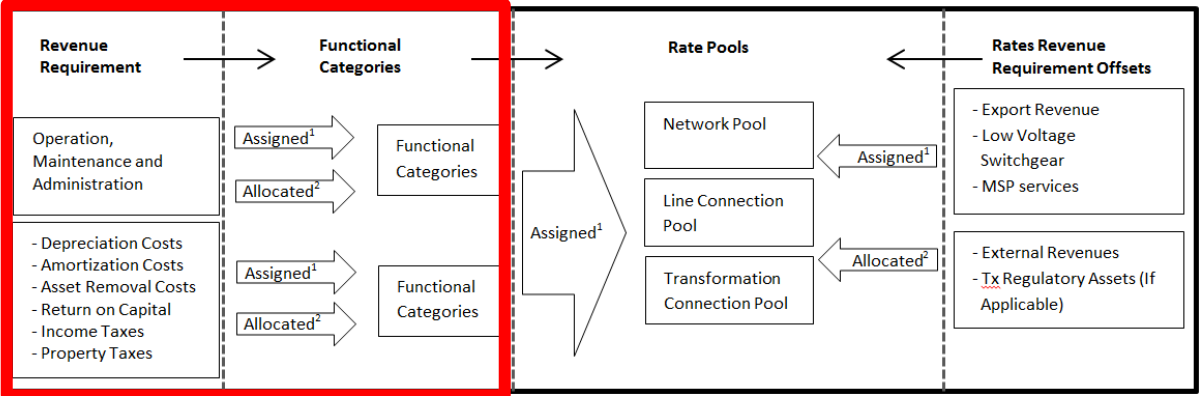
22
23 A listing of all transmission lines and stations, with their associated functional categories
24 to which they are allocated, is provided in Exhibit G2, Tab 1, Schedule 1 and Exhibit G2,
25 Tab 1, Schedule 2 respectively.

4. ALLOCATION OF REVENUE REQUIREMENT TO FUNCTIONAL CATEGORIES

The first stage in the allocation of revenue requirement to the rate pools entails the apportionment of the revenue requirement components into the functional categories as demonstrated in Figure 2. There are two basic elements of the revenue requirement allocated or assigned to the functional categories:

1. Operations, Maintenance and Administration (“OM&A”) costs; and
2. Expenses associated with fixed assets such as: depreciation, asset removal costs, return on capital, income taxes, property taxes and amortization costs.

Figure 2: Schematic Outlining the Allocation of Revenue Requirement to Rate Pools



¹ The term “Assigned” refers to a value that is designated to a particular Functional Category or Rate Pool (i.e. Export Revenues are directly assigned to the Network Rate Pool)

² The term “Allocated” indicates that a parameter(s) is used to calculate the proportion of the values that are designated to more than one Functional Category or Rate Pool (i.e. load forecast data is applied to the value of Dual Function Line assets to determine the proportion of its value that is allocated to the Network Functional Category and to the Line Connection Functional Category)

The following subsections describe how the functionalization of transmission assets, as described in Section 3.0, is used as a basis to allocate Hydro One’s transmission revenue requirement components into functional categories.

Witness: Henry Andre

1 **4.1 Allocation of Asset Value**

2
3 As a starting point, it is necessary to allocate the Gross Book Value (“GBV”) of
4 transmission assets to functional categories. Assignment of the physical assets to the
5 functional categories and the subsequent split of the Dual Function Lines and Generation
6 Connection assets, as described above, yields the functionalization of the GBV of
7 transmission assets into the functional categories shown below:

- 8 • Network
- 9 • Network Portion of Dual Function Line
- 10 • Line Connection
- 11 • Line Connection Portion of Dual Function Line
- 12 • Transformation Connection
- 13 • Generator Line Connection
- 14 • Generator Transformation Connection (*includes Generation Station Switchyards*)
- 15 • Common
- 16 • Other

17
18 Once the GBV has been allocated to the functional categories, the Net Book Value
19 (“NBV”) of transmission assets is determined by assigning the accumulated depreciation,
20 discussed in Exhibit D1, Tab 1, Schedule 1, to the functional categories listed above in
21 proportion to the share of GBV of assets in each functional category by Uniform System
22 of Accounts (“USofA”). A summary of the GBV and NBV of assets by functional
23 category is provided in Exhibit G2, Tab 4, Schedule 1.

24
25 The breakdown of the asset values among the functional categories is the basis of, or
26 contributes to, the data required to establish the various factors to appropriately allocate
27 the revenue requirement components among the functional categories on the basis of
28 either GBV, NBV, rate base, or OM&A, as described below.

Witness: Henry Andre

1 **4.2 Assignment of Depreciation and Amortization Costs, Return on Capital, and**
2 **Taxes**

3
4 The treatment of Depreciation and Amortization Costs, Return on Capital, and Taxes is in
5 accordance with the methodology approved by the Board in Proceeding EB-2014-0140.

6
7 The Depreciation costs on transmission fixed assets are allocated to the functional
8 categories in proportion to the average GBV of the functional categories over two years
9 by USofA. The asset removal costs and capitalized depreciation determined per Exhibit
10 C1, Tab 7, Schedule 1 are assigned to the functional categories in proportion to the GBV.
11 A summary of the Depreciation costs by functional category is provided in Exhibit G2,
12 Tab 4, Schedule 2.

13
14 The Amortization expenses, also determined per Exhibit C1, Tab 7, Schedule 1 are
15 assigned to the functional categories in proportion to the NBV.

16
17 Return on Capital and Income Taxes are assigned on the basis of the rate base in each
18 functional category. The rate base is determined by adding the Working Capital, which
19 includes Materials and Supplies Inventory identified in Exhibit D1, Tab 1, Schedule 1, to
20 the NBV of the functional categories. The share of Working Capital added to each
21 functional category is in proportion to the distribution of OM&A. These costs are
22 summarized at Exhibit G2, Tab 4, Schedule 3.

23
24 The amount for “Taxes Other Than Income Taxes”, which are largely for property taxes
25 as described in Exhibit C1, Tab 3, Schedule 7, are assigned to the functional categories in
26 proportion to the NBV.

Witness: Henry Andre

1 **4.3 Allocation of Operations, Maintenance and Administration Costs**

2
3 The allocation of OM&A Costs is in accordance with the methodology approved by the
4 Board in Proceeding EB-2014-0140. The OM&A costs allocated as per the methodology
5 described in this section are the totals shown in Exhibit E1, Tab 1, Schedule 1, less the
6 amount for “Taxes Other Than Income Taxes”.

7
8 The allocation of these expenditures for the various OM&A projects and programs,
9 which are described in Exhibit C1, to the functional categories, is based on the following
10 approach:

11 (a) Where work is readily identifiable thereby making direct assignment possible, costs
12 are directly assigned to specific functional categories.

13 (b) Where direct assignment is not possible, allocation to the functional categories is
14 based on parameters representative of the relative OM&A expenditure requirements,
15 such as:

- 16 • the kilometers of line in each functional category as a percent of the total
17 number of kilometres installed.
- 18 • the GBV of stations within a particular functional category as a percent of the
19 total GBV of all stations.
- 20 • the length of underground circuit-km in a functional category as a percent of
21 the total length of underground lines within the system.

22
23 In order to allocate costs to the functional categories, the OM&A spending associated
24 with the Network and Line Connection portions of Dual Function Lines, as well as the
25 OM&A spending associated with the generator and load portions of Generation Line and
26 Transformation Connection assets must be determined. The methodology to determine
27 these costs is described below.

Witness: Henry Andre

1 4.3.1 OM&A Costs for Generation Connections

2

3 The OM&A costs associated with Generator Line and Transformation Connections used
 4 solely to connect a generating station(s) can be fully assigned to the appropriate
 5 Generation Connection functional category; either Generation Line Connection or
 6 Generation Transformation Connection depending on the type of electrical asset.

7

8 In cases where a connection facility is used to connect one or more generating station(s)
 9 and one or more load customers, some of the costs associated with that facility are
 10 allocated to the appropriate Generation Connection functional category, and the
 11 remaining costs are allocated to load customer under the appropriate Connection
 12 functional category. Using the data from Section 4.1 and the OM&A costs determined as
 13 per Section 4.3, the following formula is used to estimate the generator’s share of OM&A
 14 costs for each of the Line and Transformation Connection functional categories:

15

$$\begin{array}{l}
 \text{Proportion Allocated to} \\
 \text{the Generator Line or} \\
 \text{Transformation} \\
 \text{Connection}
 \end{array}
 =
 \begin{array}{l}
 \text{Total Generation} \\
 \text{Line or} \\
 \text{Transformation} \\
 \text{OM\&A Costs}
 \end{array}
 \times
 \left[\frac{\text{Generation Line or Transformation Connection NBV}}{\text{Generation Line or Transformation Connection NBV} + \text{Line or Transformation Connection NBV}} \right]$$

16

17

18 Therefore, the formula used for the load customers’ share of OM&A costs is:

19

$$\begin{array}{l}
 \text{Proportion Allocated to the Load Customer} \\
 \text{Line or Transformation Connections}
 \end{array}
 =
 1 -
 \begin{array}{l}
 \text{Proportion Allocated to the Generator} \\
 \text{Line or Transformation Connection}
 \end{array}$$

20

21

22 4.3.2 OM&A Costs for Dual Function Lines

23

24 The OM&A costs of each DFL asset are split between the Network portion and Line
 25 portion of the DFL functional category. The allocation factors for OM&A costs are
 26 derived using the NBV of assets determined as per Section 4.1. The following formulas

Witness: Henry Andre

1 are used to estimate the portion of OM&A costs to the appropriate DFL functional
2 category.

3

4 Network Portion:

$$\text{Proportion Allocated to the Network Portion of Dual Function Lines} = \frac{\text{Total OM\&A Costs for DFL}}{\text{Sum of Total NBV of DFL}} \times \left[\frac{\text{NBV of Network Portion of DFL}}{\text{Sum of Total NBV of DFL}} \right]$$

6

7 Line Connection Portion:

$$\text{Proportion Allocated to the Line Connection Portion of Dual Function Lines} = 1 - \frac{\text{Proportion Allocated to the Network Portion of Dual Function Lines}}{\text{Sum of Total NBV of DFL}}$$

8

9

10 4.3.3 Summary of OM&A Costs

11

12 Allocation of the OM&A costs described above results in the split of total OM&A costs
13 between the functional categories, a summary of which is provided in Exhibit G2, Tab 4,
14 Schedule 4.

**NETWORK, LINE CONNECTION AND TRANSFORMATION
 CONNECTION RATE POOLS**

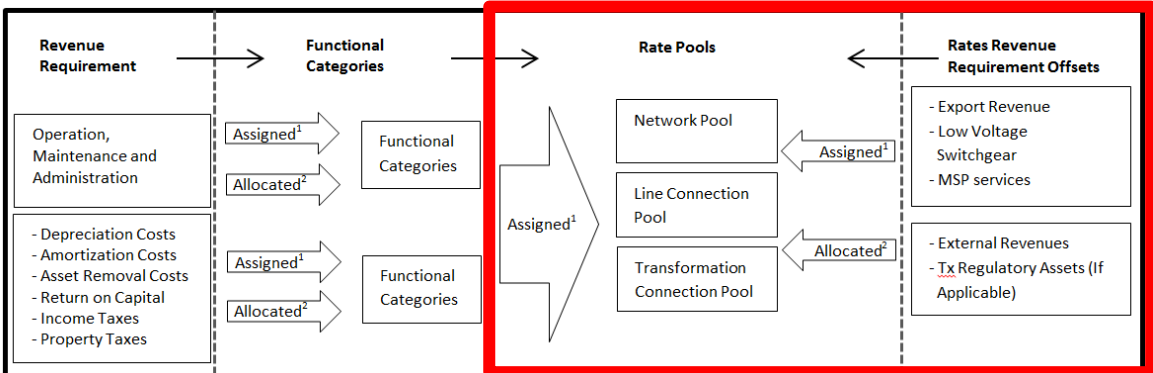
1. INTRODUCTION

This exhibit describes the activities to determine the transmission rates revenue requirement for the Network, Line Connection, and Transformation Connection rate pools, and provides a summary of the associated asset value and rates revenue requirement. A detailed account of the 2017 and 2018 transmission rates revenue requirement by rate pool is provided in Exhibit G2, Tab 5, Schedule 1.

2. ALLOCATION OF REVENUE REQUIREMENT TO RATE POOLS

The allocation of the transmission rates revenue requirement to the rate pools is summarized in Figure 1. This process is the same as was presented in Hydro One’s 2015/2016 Transmission Rate Application approved by the Board in Proceeding EB-2014-0140.

Figure 1: Schematic Outlining the Allocation of Revenue Requirement to Rate Pools



¹ The term “Assigned” refers to a value that is designated to a particular Functional Category or Rate Pool (e.g. Export Revenues are directly assigned to the Network Rate Pool)
² The term “Allocated” indicates that a parameter(s) is used to calculate the proportion of the values that are designated to more than one Functional Category or Rate Pool (e.g. load forecast data is applied to the value of Dual Function Line assets to determine the proportion of its value that is allocated to the Network Functional Category and to the Line Connection Functional Category)

Witness: Henry Andre

1 As illustrated in Figure 1, once the allocation of revenue requirement components into the
2 functional categories is completed, as described in Exhibit G1, Tab 2, Schedule 1, then
3 the next steps include:

- 4
- 5 1. Mapping of allocated transmission costs from the functional categories to the
6 assigned rate pools; and
- 7 2. Assignment and allocation of the rates revenue requirement offset components
8 such as: Export Transmission Service (“ETS”) revenue credit and associated
9 variance accounts, regulatory assets (if applicable), the Low Voltage Switchgear
10 (“LVSG”) credit, Wholesale Meter Service (“WMS”) revenue and other external
11 revenues into the rate pools.

12

13 These two steps are discussed further in Section 2.1 and Section 2.2 respectively.

14

15 **2.1 Mapping of Functional Category to Rate Pool**

16

17 The allocated transmission costs that are derived using the cost allocation methodology
18 described in Exhibit G1, Tab 2, Schedule 1, are aggregated from the functional categories
19 to the three rate pools: Network, Line Connection, and Transformation Connection; as
20 shown in Table 1 and described below.

21

22 **Table 1: Functional Category to Rate Pool Mapping**

Functional Category	Rate Pool
Network	Network
Network Portion of DFL	Network
Line Connection	Line Connection
Line Connection Portion of DFL	Line Connection
Transformation Connection	Transformation Connection
Generation Line Connection	Network
Generation Transformation Connection	Network
Common and Other	Prorate to Network, Line and Transformation

Witness: Henry Andre

1 Network, Line Connection, and Transformation Connection Assets

2 The financial values associated with the Network, Line Connection, and Transformation
3 Connection functional categories are directly assigned to the Network, Line Connection,
4 and Transformation Connection rate pools respectively. This is also applicable to the
5 portions of Dual Function Line (“DFL”) assets that are allocated to the Network and Line
6 Connection functional categories.

7
8 Generation Line and Transformation Connection Assets

9 The financial values associated with the Generator Line and Transformation Connection
10 functional categories are assigned to the Network rate pool, based on the Board Decision
11 under Proceeding RP-1999-0044; which states that generators do not pay transmission
12 service charges with respect to transmission connection facilities used to transfer
13 electricity from the generating station to the network. This approach is considered fair
14 and equitable, since generators connected to the transmission system enhance and
15 contribute to the electricity market for all load customers. This aligns with the cost
16 allocation to the Network rate pool where costs are recovered through Network rates
17 applicable to all load customers, while the costs for Connection rate pools are recovered
18 only from load customers that utilize those connections.

19
20 Common and Other Assets

21 The financial values associated with the functional categories “Common” and “Other”
22 are allocated to the Network, Line Connection and Transformation Connection rate pools
23 in proportion to the corresponding amounts of financial values that are already assigned
24 to those rate pools by revenue requirement component (i.e. “Common” and “Other”
25 OM&A costs are allocated to the rate pools based on the relative share of OM&A costs
26 already assigned to the rate pools).

Witness: Henry Andre

2.2 Allocation of Rates Revenue Requirement Offsets

Hydro One Transmission’s revenue requirement to be recovered through rates includes amounts in addition to the fixed asset depreciation costs, return on capital, income taxes, and OM&A costs, allocated above. These costs are discussed in Exhibit E1, Tab 1, Schedule 1 and are generically defined for the purpose of this exhibit as “Rates Revenue Requirement Offsets”.

Table 2 below identifies the Rates Revenue Requirement Offset items, the total revenues to be collected and the allocators used to divide these costs among the three rate pools. Allocation of the items in Table 2 is done on the same basis as under Proceeding EB-2014-0140.

Table 2: Rates Revenue Requirement Offsets

(\$Millions)

Items	Rates Revenue Requirement		Allocator
	2017	2018	
Regulatory Assets	(38.6)	(38.6)	Prorated based on the amounts of financial values that are already assigned to those functional categories
Export Transmission Service Revenue Variance	(9.2)	(9.2)	Direct Assignment to Networks
Export Transmission Service Revenue	(39.2)	(40.1)	Direct Assignment to Networks
External Revenues	(28.2)	(28.5)	Prorated based on the amounts of financial values that are already assigned to those functional categories
Wholesale Meter Service Revenue	(0.3)	(0.3)	Direct Assignment to Transformation Connection
Funding for Low Voltage Switchgear Compensation	14.0	14.7	Direct Assignment to Transformation Connection

Witness: Henry Andre

1 **3. SUMMARY OF ASSET VALUE AND REVENUE REQUIREMENT FOR**
2 **RATE POOLS**

3
4 This section provides the annual mid-year net book value and rates revenue requirement
5 for each of the three rate pools: Network, Line Connection, and Transformation
6 Connection, derived using the methodology described above in Section 2.

7
8 **3.1 Network Rate Pool**

9
10 Transmission facilities that are used for the benefit of all customers, or have been
11 approved by the Board as being for the benefit of all customers in the province, are
12 included in the Network rate pool. The mid-year net book value and rates revenue
13 requirement for the Network rate pool are provided in Table 3.

14
15 The rates revenue requirement for the Network rate pool includes an offset of \$39.2
16 million and \$40.1 million in export transmission service revenue forecast to be collected
17 in 2017 and 2018, respectively, as discussed in Exhibit H1, Tab 4, Schedule 1, as well as
18 an offset of \$9.2 million in export transmission service variance in each year, as
19 discussed in Exhibit F1, Tab 1, Schedule 1.

20
21 **Table 3: Network Rate Pool**
22 **(\$Millions)**

Year	Net Book Value	Rates Revenue Requirement
2017	6,229.8	853.4
2018	6,612.6	898.9

1 **3.2 Line Connection Rate Pool**

2
3 Transmission facilities that are used to provide a connection to a load supply point(s) for
4 one or more customers are included in the Line Connection rate pool. The mid-year net
5 book value and rates revenue requirement for the Line Connection rate pool are provided
6 in Table 4.

7
8 **Table 4: Line Connection Rate Pool**
9 **(\$Millions)**

Year	Net Book Value	Rates Revenue Requirement
2017	1,554.2	214.3
2018	1,649.2	226.4

10
11
12 **3.3 Transformation Connection Rate Pool**

13
14 Transmission facilities that are used to step-down voltage from the transmission level to
15 the distribution level (i.e. from above 50 kV to below 50 kV) are included in the
16 Transformation Connection rate pool. The mid-year net book value and rates revenue
17 requirement for the Transformation Connection rate pool are provided in Table 5.

18
19 The rates revenue requirement for the Transformation Connection rate pool includes: the
20 LVSG compensation amount of \$14.0 million and \$14.7 million to be collected in 2017
21 and 2018, respectively (as outlined below), as well as an offset of \$0.3 million in WMS
22 revenue forecast to be collected in each year, as discussed in Exhibit H1, Tab 3, Schedule
23 1.

Table 5: Transformation Connection Rate Pool
(\$Millions)

Year	Net Book Value	Rates Revenue Requirement
2017	2,743.7	437.1
2018	2,936.0	460.0

Low Voltage Switchgear Compensation

As first approved by the Board in Proceeding EB-2006-0051, the revenue requirement for the Transformation Connection pool also includes an amount that is payable by Hydro One Transmission to Toronto Hydro-Electric System Inc. and Hydro Ottawa Inc. as compensation for LVSG equipment that those utilities own, operate and maintain within the transformation stations owned by Hydro One. The compensation amount is based on the LVSG as a proportion of the total transformation station costs, including OM&A and capital-related charges, incurred by Hydro One.

The estimate of the cost of providing low voltage switchgear service, and the methodology used to calculate the annual LVSG compensation payable to each utility, was most recently approved in Proceeding EB-2014-0140. The average low voltage switchgear service costs continue to comprise 19.0% of Hydro One Transmission's total station costs.

The LVSG compensation is based on the forecast of each eligible utility's total monthly non-coincident peak demand supplied from all Hydro One Transmission transformer stations in which the utilities own the LVSG facilities, multiplied by the LVSG proportion of Hydro One Transmission's Transformation Connection rate.

Witness: Henry Andre

1 The annual LVSG compensation amount will be \$14.0 million in 2017 and \$14.7 million
2 in 2018 as shown in Table 6. These amounts are added to the revenue to be collected by
3 the Transformation Connection service charges.

4

5

Table 6: LVSG Compensation

Year	LVSG Component of Transformation Connection Rate (\$/kW/Month)	Average Monthly NCP Demand for Toronto Hydro and Hydro Ottawa (MW)	Total Credit (\$ Millions)
2017	0.40	35,132.49	14.0
2018	0.42	35,177.78	14.7

6

LIST OF TRANSMISSION LINES BY FUNCTIONAL CATEGORY

N= Network LC= Line Connection DFL=Dual Function Line

Operation Designation	Section	From	To	Functional Category
15M1	10	Rabbit Lake SS	Kenora MTS JCT	LC
15M1	13	Kenora MTS JCT	Kenora MTS JCT	LC
15M1	14	Kenora MTS JCT	Kenora MTS	LC
15M1	15	Kenora MTS JCT	Kenora MTS	LC
15M1	16	Kenora MTS JCT	Kenora MTS	LC
2301F1	1	Tilbury West JCT	Haycroft DS	OTHER
29M1	1	Ignace JCT	Ignace DS JCT	LC
29M1	2	Ignace DS JCT	Camp Lake JCT	LC
29M1	3	Camp Lake JCT	Valora JCT	LC
29M1	4	Valora JCT	Mattabi JCT	LC
29M1	7	Valora JCT	Valora DS	LC
29M1	8	Camp Lake JCT	Agimak DS JCT	LC
29M1	12	Agimak DS JCT	Agimak DS	LC
29M1	13	Agimak DS JCT	Agimak DS	LC
3024F2	1	Tisdale JCT	Pamour JCT	OTHER
56M1	1	Nipigon JCT	Red Rock JCT	LC
56M1	2	Red Rock JCT	Red Rock DS	LC
56M1	3	Red Rock JCT	Red Rock Mill CTS	OTHER
57M1	1	Reserve JCT	Nipigon JCT	LC
57M1	2	Nipigon JCT	Nipigon DS	LC
61M18	1	Seaforth 61M18 JCT	Constance DS	LC
61M18	2	Constance DS	Goderich TS	LC
61M18	3	Seaforth TS	Seaforth 61M18 JCT	LC
61M18	4	Seaforth 61M18 JCT	Seaforth LSO JCT	OTHER
61M18	5	Constance DS	Constance DS	LC
79M1	1	Gamble H9A JCT	Rockland JCT	LC
79M1	2	Rockland JCT	Rockland East DS JCT	LC
79M1	3	Rockland East DS JCT	Clarence DS	LC
79M1	4	Clarence DS	Wendover JCT	LC
79M1	5	Wendover JCT	Cassburn JCT	LC
79M1	6	Cassburn JCT	Hawkesbury MTS #1	LC
79M1	10	Rockland JCT	Rockland DS	LC
79M1	11	Wendover JCT	Wendover DS	LC
79M1	13	Rockland East DS JCT	Rockland East DS JCT	LC
79M1	14	Rockland East DS JCT	Rockland East DS	LC
79M1	15	Rockland East DS JCT	Rockland East DS	LC
79M1	16	Clarence DS	Clarence DS	LC
A1B	1	Aguasabon SS	AV Terrace Bay JCT	DFL

Witness: Henry Andre

Operation Designation	Section	From	To	Functional Category
A1B	2	AV Terrace Bay JCT	Terrace Bay SS	DFL
A1B	3	AV Terrace Bay JCT	AV Terrace Bay CTS	LC
A1T	4	Toronto Power TS	Niagara JCT	OTHER
A1T	5	Montrose JCT	Toronto Power TS	OTHER
A1T	6	Michigan JCT	Montrose JCT	OTHER
A1T	7	Michigan JCT	Crowland STR 46 JCT	OTHER
A1T	11	Toronto Power TS	Niagara TS	OTHER
A1T	12	Allanburg TS	Michigan JCT	OTHER
A1T	13	Michigan JCT	Crowland JCT	OTHER
A1T	15	Crowland STR 46 JCT	ASW Steel CTS	OTHER
A1T	16	Crowland STR 46 JCT	Crowland JCT	OTHER
A1T	17	Crowland JCT	Crowland JCT	OTHER
A2	1	Hawthorne TS	Blackburn JCT	LC
A2	2	Blackburn JCT	Cyrville Rd JCT	LC
A2	3	Cyrville JCT	Bilberry Creek JCT	LC
A2	4	Bilberry Creek JCT	Bilberry Creek TS	LC
A2	5	Cyrville JCT	Nationl Research JCT	LC
A2	6	Nationl Research JCT	N.R.C. TS	LC
A2	7	Nationl Research JCT	Nationl Research JCT	OTHER
A2	8	Cyrville Rd JCT	Cyrville JCT	LC
A2	9	Cyrville Rd JCT	Cyrville MTS	LC
A21L	1	Mackenzie TS	Lakehead TS	N
A22L	1	Mackenzie TS	Lakehead TS	N
A23P	1	Algoma TS	Mississagi TS	N
A24P	1	Algoma TS	Mississagi TS	N
A36N	1	Allanburg TS	Kalar JCT	LC
A36N	3	Kalar JCT	Murray TS	LC
A36N	4	Kalar JCT	Kalar MTS	LC
A37N	1	Allanburg TS	Kalar JCT	LC
A37N	3	Kalar JCT	Murray TS	LC
A37N	4	Kalar JCT	Kalar MTS	LC
A3M	1	Mackenzie TS	Moose Lake TS	N
A3RM	1	Billings JCT	Merivale MTS	DFL
A3RM	2	Ellwood JCT	Billings JCT	DFL
A3RM	4	Ellwood JCT	Riverdale JCT	LC
A3RM	6	Riverdale JCT	Riverdale TS	LC
A3RM	7	Riverdale TS	Slater TS	LC
A3RM	10	Hawthorne TS	Ellwood JCT	DFL
A3RM	14	Billings JCT	Billings JCT	OTHER
A3RM	15	Billings JCT	Billings JCT	OTHER
A3RM	16	Merivale MTS	Merivale TS	DFL

Operation Designation	Section	From	To	Functional Category
A41T	1	Hawthorne TS	IPB Masson JCT	N
A42T	1	Hawthorne TS	IPB Masson JCT	N
A4H	2	Ansonville TS	Fournier JCT	DFL
A4H	3	Fournier JCT	Fournier JCT	LC
A4H	4	Hunta SS	LSR MSO JCT	LC
A4H	5	Fournier JCT	Hunta SS	DFL
A4H	6	Fournier JCT	Power JCT	LC
A4H	7	Power JCT	Cochrane West JCT	LC
A4H	8	Cochrane West JCT	Cochrane MTS	LC
A4H	10	Cochrane West JCT	Cochrane West DS	LC
A4K	1	Hawthorne TS	Blackburn JCT	LC
A4K	2	Blackburn JCT	Cyrville Rd JCT	LC
A4K	3	Cyrville JCT	Moulton JCT	LC
A4K	4	Overbrook TS	King Edward TS	LC
A4K	9	Moulton JCT	Overbrook TS	LC
A4K	10	Moulton JCT	Moulton MTS	LC
A4K	11	Cyrville Rd JCT	Cyrville JCT	LC
A4K	12	Cyrville Rd JCT	Cyrville MTS	LC
A4L	1	Alexander SS	A.P. Nipigon JCT	LC
A4L	2	Beardmore JCT	Jellicoe DS #3 JCT	LC
A4L	4	Roxmark JCT	Longlac TS	LC
A4L	5	Roxmark JCT	Roxmark Mine CTS	OTHER
A4L	6	Jellicoe DS #3 JCT	Roxmark JCT	LC
A4L	7	Beardmore JCT	Beardmore DS #2	LC
A4L	10	A.P. Nipigon JCT	Beardmore JCT	LC
A4L	11	A.P. Nipigon JCT	A.P. Nipigon CGS	LC
A4L	12	Jellicoe DS #3 JCT	Jellicoe DS #3	LC
A4M	1	Mackenzie TS	Moose Lake TS	OTHER
A565L	1	Ashfield SS	Longwood TS	N
A592K	1	Ashfield SS	K2 Wind 500 CGS	N
A5A	1	Alexander SS	Minnova JCT	DFL
A5A	2	Minnova JCT	Schreiber JCT	DFL
A5A	3	Schreiber JCT	Aguasabon SS	DFL
A5A	4	Schreiber JCT	Schreiber Winnipg DS	LC
A5A	6	Minnova JCT	Minnova JCT	LC
A5H	1	Fournier JCT	Hunta SS	DFL
A5H	2	A.P. Tunis JCT	Fournier JCT	DFL
A5H	3	Iroquois Fls DS JCT	Iroq Falls 115 JCT	DFL
A5H	4	Ansonville TS	Iroquois Fls DS JCT	DFL
A5H	10	Iroq Falls 115 JCT	A.P. Tunis JCT	DFL
A5H	15	Fournier JCT	Fournier JCT	LC

Witness: Henry Andre

Operation Designation	Section	From	To	Functional Category
A5H	17	Iroquois Fls DS JCT	Iroquois Falls DS	LC
A5H	18	A.P. Tunis JCT	A.P. Tunis JCT	LC
A5RK	1	Hawthorne TS	Blackburn JCT	LC
A5RK	2	Blackburn JCT	Russell TS	LC
A5RK	3	Russell TS	Riverdale JCT	LC
A5RK	4	Riverdale JCT	Riverdale TS	LC
A5RK	5	Riverdale TS	Slater TS	LC
A5RK	6	Riverdale JCT	Overbrook TS	LC
A5RK	7	Overbrook TS	King Edward TS	LC
A6C	1	Allanburg TS	Allanburg TS	LC
A6C	2	Hurricane JCT	Michigan JCT	LC
A6C	3	Hurricane JCT	BF Goodrich JCT	OTHER
A6C	4	Allanburg TS	Allanburg TS	LC
A6C	6	BF Goodrich JCT	Cytec Welland CTS	OTHER
A6C	7	BF Goodrich JCT	Oxy Vinyls CTS	OTHER
A6C	8	Michigan JCT	Crowland TS	LC
A6C	9	Allanburg TS	Hurricane JCT	LC
A6P	1	Alexander SS	Reserve JCT	DFL
A6P	2	Reserve JCT	Port Arthur TS #1	DFL
A6P	3	Reserve JCT	Reserve JCT	LC
A6R	1	Hawthorne TS	Blackburn JCT	LC
A6R	2	Blackburn JCT	Russell TS	LC
A6R	3	Russell TS	Riverdale JCT	LC
A6R	4	Riverdale JCT	OHSC JCT	LC
A6R	5	OHSC JCT	Riverdale TS	LC
A6R	6	OHSC JCT	OHSC JCT	LC
A7C	1	Allanburg TS	Allanburg TS	LC
A7C	2	Hurricane JCT	Michigan JCT	LC
A7C	3	Hurricane JCT	BF Goodrich JCT	LC
A7C	4	Allanburg TS	Allanburg TS	LC
A7C	6	BF Goodrich JCT	Cytec Welland CTS	LC
A7C	7	BF Goodrich JCT	Oxy Vinyls CTS	LC
A7C	8	Michigan JCT	Crowland TS	LC
A7C	9	Allanburg TS	Hurricane JCT	LC
A7L	1	Alexander SS	Reserve JCT	N
A7L	2	Reserve JCT	Lakehead TS	N
A8G	1	A8G STR2 JCT	Rosedene JCT	OTHER
A8G	2	Rosedene JCT	Railway JCT	OTHER
A8G	3	Railway JCT	Beach JCT	OTHER
A8G	4	Beach JCT	Gage TS	OTHER
A8G	5	Railway JCT	Glanford JCT	OTHER

Operation Designation	Section	From	To	Functional Category
A8K	1	Ansonville TS	A8K-19EO JCT	N
A8K	2	A8K-19EO JCT	Monteith SS JCT	N
A8K	3	Monteith SS JCT	Monteith SS	OTHER
A8K	4	Monteith SS JCT	A8K-47EO JCT	N
A8K	5	A8K-47EO JCT	Kirkland Lake TS	N
A8L	1	Alexander SS	Lakehead TS	N
A8M	1	Billings JCT	Merivale TS	DFL
A8M	2	Hawthorne TS	Billings JCT	DFL
A8M	9	Billings JCT	Billings JCT	LC
A8M	10	Billings JCT	Billings JCT	LC
A8M	11	Billings JCT	Uplands JCT	LC
A8M	12	Uplands JCT	Uplands MTS #2	LC
A9K	1	Ansonville TS	Monteith DS JCT	DFL
A9K	2	Monteith DS JCT	Ramore TS	DFL
A9K	3	Ramore TS	Kirkland Lake TS	DFL
A9K	4	Monteith DS JCT	Monteith DS	LC
B1	1	Beach Road JCT	Beach TS	LC
B10	1	Burlington TS	Gage JCT	LC
B10	2	Gage JCT	Gage TS	LC
B10	3	Gage JCT	Birmingham TS	OTHER
B11	1	Burlington TS	Gage JCT	LC
B11	2	Gage JCT	Gage TS	LC
B11	3	Gage JCT	Birmingham TS	OTHER
B12	1	Burlington TS	Dundas #2 JCT	LC
B12	2	Dundas #2 JCT	Horning Mountain JCT	LC
B12	3	Horning Mountain JCT	Alford JCT	LC
B12	4	Alford JCT	Powerline JCT	LC
B12	5	Alford JCT	Mohawk Str 31 EP JCT	OTHER
B12	6	Horning Mountain JCT	Newton TS	LC
B12	7	Dundas #2 JCT	Dundas TS #2	LC
B12	8	Powerline JCT	Brant TS	LC
B12	9	Powerline JCT	Powerline MTS	LC
B13	1	Burlington TS	Dundas #2 JCT	LC
B13	2	Dundas #2 JCT	Horning Mountain JCT	LC
B13	3	Horning Mountain JCT	Alford JCT	LC
B13	4	Alford JCT	Powerline JCT	LC
B13	6	Horning Mountain JCT	Newton TS	LC
B13	7	Dundas #2 JCT	Dundas TS #2	LC
B13	8	Powerline JCT	Brant TS	LC
B13	9	Powerline JCT	Powerline MTS	LC
B15C	1	Cooksville TS	Lorne Park TS	LC

Witness: Henry Andre

Operation Designation	Section	From	To	Functional Category
B15C	2	Lorne Park TS	Ford JCT	LC
B15C	3	Ford JCT	Oakville TS #2	LC
B15C	4	Ford JCT	Ford Oakville CTS	LC
B16C	1	Cooksville TS	Lorne Park TS	LC
B16C	2	Lorne Park TS	Ford JCT	LC
B16C	3	Ford JCT	Oakville TS #2	LC
B16C	4	Ford JCT	Ford Oakville CTS	LC
B16C	5	Cooksville TS	Cooksville TS	LC
B18H	1	Burlington TS	Beach Road JCT	DFL
B18H	2	Beach Road JCT	Beach TS	DFL
B18H	3	Beach Road JCT	Lake TS	LC
B1S	1	Barrett Chute SS	Ardoch JCT	DFL
B1S	2	Ardoch JCT	Northbrook JCT	DFL
B1S	3	Northbrook DS	Lodgeroom DS	DFL
B1S	4	Lodgeroom DS	Sidney TS	DFL
B1S	5	Ardoch JCT	Ardoch DS	LC
B1S	6	Northbrook JCT	Northbrook DS	DFL
B1S	7	Ardoch JCT	Ardoch JCT	DFL
B1S	8	Ardoch JCT	Ardoch DS	OTHER
B20H	1	Burlington TS	Beach Road JCT	DFL
B20H	2	Beach Road JCT	Beach TS	DFL
B20H	3	Beach Road JCT	Lake TS	LC
B20P	1	Bruce A TS	Bruce HW Plant D JCT	LC
B20P	2	Bruce HW Plant D JCT	Douglas Point TS	LC
B20P	4	Bruce HW Plant D JCT	Bruce HW Plant D TS	OTHER
B20P	5	Bruce HW Plant D JCT	B20P_B24P T#2 JCT	LC
B20P	6	B20P_B24P T#2 JCT	Bruce A TS	OTHER
B20P	7	B20P_B24P T#2 JCT	Bruce HW Plant B TS	LC
B22D	1	Bruce A TS	Majestic JCT	DFL
B22D	2	Wingham JCT	Seaforth TS	DFL
B22D	3	Seaforth TS	Festival MTS #1 JCT	DFL
B22D	4	Stratford JCT	Detweiler TS	DFL
B22D	5	Stratford JCT	Stratford TS	LC
B22D	6	Wingham JCT	Wingham TS	LC
B22D	7	Majestic JCT	Armow JCT	DFL
B22D	8	Majestic JCT	Majestic CTS	LC
B22D	9	Festival MTS #1 JCT	Stratford JCT	DFL
B22D	10	Festival MTS #1 JCT	Festival MTS #1	LC
B22D	11	Armow JCT	Wingham JCT	DFL
B22D	12	Armow JCT	Armow CSS	LC
B23C	1	Belleville TS	Pancake JCT	DFL

Operation Designation	Section	From	To	Functional Category
B23C	2	Pancake JCT	Wilson JCT	DFL
B23C	3	Wilson JCT	Whitby JCT	DFL
B23C	4	Wilson JCT	Wilson TS	LC
B23C	5	Whitby JCT	B23C H26C Tie JCT	DFL
B23C	6	Whitby JCT	Whitby TS	LC
B23C	7	B23C H26C Tie JCT	Cherrywood TS	DFL
B23C	8	B23C H26C Tie JCT	B23C H26C Tie JCT	OTHER
B23D	1	Bruce A TS	Majestic JCT	DFL
B23D	2	Wingham JCT	Seaforth TS	DFL
B23D	3	Seaforth TS	Zurich JCT	DFL
B23D	4	Stratford JCT	Detweiler TS	DFL
B23D	5	Stratford JCT	Stratford TS	LC
B23D	6	Wingham JCT	Wingham TS	LC
B23D	7	Majestic JCT	Wingham JCT	DFL
B23D	8	Majestic JCT	Majestic CTS	LC
B23D	9	Festival MTS #1 JCT	Stratford JCT	DFL
B23D	10	Festival MTS #1 JCT	Festival MTS #1	LC
B23D	11	Zurich JCT	Festival MTS #1 JCT	DFL
B23D	12	Zurich JCT	Zurich CSS	LC
B24P	1	Bruce A TS	Bruce HW Plant D JCT	LC
B24P	2	Bruce HW Plant D JCT	Douglas Point TS	LC
B24P	4	Bruce HW Plant D JCT	Bruce HW D EP JCT	OTHER
B24P	5	Bruce HW Plant D JCT	B20P_B24P T#2 JCT	LC
B24P	6	B20P_B24P T#2 JCT	Bruce A TS	OTHER
B24P	7	B20P_B24P T#2 JCT	Bruce HW Plant B TS	LC
B27S	1	Bruce A TS	Owen Sound JCT	DFL
B27S	2	Owen Sound JCT	Owen Sound TS	LC
B27S	3	Owen Sound JCT	Owen Sound TS	DFL
B28S	1	Bruce A TS	Owen Sound TS	LC
B3	1	Burlington TS	Dundas JCT	LC
B3	2	Dundas JCT	McMaster JCT	LC
B3	3	McMaster JCT	Horning Mountain JCT	LC
B3	4	Horning Mountain JCT	Glanford JCT	LC
B3	5	Glanford JCT	Mohawk TS	LC
B3	6	McMaster JCT	McMaster CTS	LC
B3	7	Horning Mountain JCT	Newton TS	LC
B3	8	Dundas JCT	Dundas TS	LC
B31L	2	IPB Baudet JCT	B5D-B31L SS JCT	N
B31L	3	B5D-B31L SS JCT	Raisin River JCT	N
B31L	4	Raisin River JCT	St.Lawrence TS	N
B31L	5	B5D-B31L SS JCT	B5D-B31L SS JCT	N

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Operation Designation	Section	From	To	Functional Category
B31L	6	St.Lawrence TS	St.Lawrence TS	N
B31L	7	St.Lawrence TS	St.Lawrence TS	N
B3E	1	Blind River TS	Elliot Lake JCT	LC
B3E	2	Elliot Lake JCT	Elliot Lake TS	LC
B3N	2	Mid R. JCT Bunce Crk	Sun Oil Co JCT	N
B3N	3	Sun Oil Co JCT	Vidal JCT	N
B3N	4	Vidal JCT	Sarnia Scott JCT	N
B3N	5	Sarnia Scott JCT	Sarnia Scott TS	N
B4	1	Burlington TS	Dundas JCT	LC
B4	2	Dundas JCT	McMaster JCT	LC
B4	3	McMaster JCT	Horning Mountain JCT	LC
B4	4	Horning Mountain JCT	Glanford JCT	LC
B4	5	Glanford JCT	Mohawk TS	LC
B4	6	McMaster JCT	McMaster CTS	LC
B4	7	Horning Mountain JCT	Newton TS	LC
B4	8	Dundas JCT	Dundas TS	LC
B40C	1	Burlington TS	Cumberland TS	LC
B41C	1	Burlington TS	Cumberland TS	LC
B4B	1	Blind River TS	Algoma TS	LC
B4E	1	Blind River TS	Elliot Lake TS	LC
B4V	1	Bruce A TS	Underwood JCT	DFL
B4V	2	Hanover TS	GV3 WF JCT	DFL
B4V	3	Amaranth JCT	Orangeville TS	DFL
B4V	4	Amaranth JCT	Amaranth CTS	LC
B4V	5	Underwood JCT	Hanover TS	DFL
B4V	6	Underwood JCT	Underwood CGS	LC
B4V	7	GV3 WF JCT	Amaranth JCT	DFL
B4V	8	GV3 WF JCT	GV3 WF CGS	LC
B501M	1	Bruce B SS	Bruce JCT	N
B501M	2	Bruce JCT	Willow Creek JCT	N
B501M	3	Willow Creek JCT	Milton SS	N
B502M	1	Bruce A TS	Bruce JCT	N
B502M	2	Bruce JCT	Willow Creek JCT	N
B502M	3	Willow Creek JCT	Milton SS	N
B540C	1	Bowmanville SS	Cherrywood TS	N
B541C	1	Bowmanville SS	Cherrywood TS	N
B542C	1	Bowmanville SS	Cherrywood TS	N
B543C	1	Bowmanville SS	Cherrywood TS	N
B560V	1	Bruce A TS	Bruce JCT	N
B560V	2	Bruce JCT	Willow Creek JCT	N
B560V	3	Willow Creek JCT	Milton SS	N

Operation Designation	Section	From	To	Functional Category
B560V	4	Milton SS	Claireville TS	N
B560V	5	Milton SS	Milton SS	N
B561M	1	Bruce B SS	Bruce JCT	N
B561M	2	Bruce JCT	Willow Creek JCT	N
B561M	3	Willow Creek JCT	Milton SS	N
B561M	4	Bruce JCT	Bruce JCT	N
B562E	1	Bruce A TS	Bruce JCT	N
B562E	2	Bruce JCT	Willow Creek JCT	N
B562E	3	Willow Creek JCT	Evergreen SS	N
B563A	1	Bruce B SS	Bruce JCT	N
B563A	2	Bruce JCT	Willow Creek JCT	N
B563A	3	Willow Creek JCT	Ashfield SS	N
B563A	4	Bruce JCT	Bruce JCT	N
B569B	1	Bruce A TS	Bruce JCT	N
B569B	2	Bruce JCT	Bruce B SS	N
B569B	3	Bruce JCT	Bruce JCT	N
B5D	2	IPB Baudet JCT	B5D-B31L SS JCT	OTHER
B5D	3	B5D-B31L SS JCT	St.Isidore TS	N
B5D	4	B5D-B31L SS JCT	B5D-B31L SS JCT	N
B5D	5	St.Isidore TS	Longueuil JCT	LC
B5D	6	Longueuil JCT	Longueuil TS	LC
B5D	7	Longueuil JCT	Ivaco CTS	OTHER
B5G	1	Burlington TS	Harper's JCT	DFL
B5G	2	Harper's JCT	Puslinch JCT	DFL
B5G	6	ASEA Brown Bovri JCT	ASEA Brown Bovri CTS	OTHER
B5G	7	Harper's JCT	Westover JCT	LC
B5G	8	Westover JCT	Westover A JCT	LC
B5G	9	Westover A JCT	Enbrg Westover S CTS	LC
B5G	10	Westover A JCT	Enbrg Westover N CTS	LC
B5G	16	Puslinch JCT	Arlen MTS JCT	DFL
B5G	17	Hanlon JCT	Cedar TS	DFL
B5G	18	Hanlon JCT	Hanlon TS	LC
B5G	19	Puslinch JCT	Puslinch DS	LC
B5G	20	Arlen MTS JCT	Hanlon JCT	DFL
B5G	21	Arlen MTS JCT	Arlen MTS	LC
B5QK	1	Barrett Chute SS	Sharbot JCT	DFL
B5QK	2	Sharbot JCT	Hinchinbrooke DS	DFL
B5QK	3	Hinchinbrooke DS	Harrowsmith JCT	DFL
B5QK	4	Harrowsmith JCT	Railton JCT	DFL
B5QK	5	Railton JCT	Frontenac TS	LC
B5QK	6	Railton JCT	Cataraqui TS	DFL

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Operation Designation	Section	From	To	Functional Category
B5QK	7	Harrowsmith JCT	Harrowsmith DS	LC
B5QK	8	Sharbot JCT	Sharbot DS	LC
B5V	1	Bruce A TS	Underwood JCT	DFL
B5V	2	Hanover TS	Amaranth JCT	DFL
B5V	3	Underwood JCT	Hanover TS	DFL
B5V	4	Underwood JCT	Underwood CGS	LC
B5V	5	Amaranth JCT	Orangeville TS	DFL
B5V	6	Amaranth JCT	Amaranth CTS	LC
B6G	1	Burlington TS	Harper's JCT	DFL
B6G	2	Harper's JCT	Puslinch JCT	DFL
B6G	6	ASEA Brown Bovri JCT	ASEA Brown Bovri CTS	OTHER
B6G	9	Hanlon JCT	Cedar TS	DFL
B6G	10	Hanlon JCT	Hanlon TS	LC
B6G	11	Puslinch JCT	Arlen MTS JCT	DFL
B6G	12	Puslinch JCT	Puslinch DS	LC
B6G	13	Arlen MTS JCT	Hanlon JCT	DFL
B6G	14	Arlen MTS JCT	Arlen MTS	LC
B6M	1	Birch TS	Murillo JCT	DFL
B6M	2	Stanley JCT	Shabaqua JCT	DFL
B6M	3	Shabaqua JCT	Shebandowan JCT	DFL
B6M	4	Shebandowan JCT	Kashabowie JCT	DFL
B6M	5	Kashabowie JCT	Sapawe JCT	DFL
B6M	6	Caland Ore JCT	Moose Lake TS	DFL
B6M	7	Shabaqua JCT	Shabaqua DS	LC
B6M	12	Murillo JCT	Stanley JCT	DFL
B6M	15	Sapawe JCT	Caland Ore JCT	DFL
B6M	16	Sapawe JCT	Sapawe DS	LC
B6M	17	Murillo JCT	Murillo DS	LC
B7	1	Burlington TS	Palermo JCT	LC
B7	2	Palermo JCT	Bronte TS	LC
B8	1	Burlington TS	Palermo JCT	LC
B8	2	Palermo JCT	Bronte TS	LC
B81HW	1	Bruce A TS	Bruce HW Plant B TS	LC
B82HW	1	Bruce A TS	Bruce HW Plant B TS	LC
B82V	1	Brown Hill TS	York EnergyCentr JCT	DFL
B82V	2	Holland Marsh JCT	Holland JCT	DFL
B82V	3	Woodbridge JCT	Claireville TS	DFL
B82V	5	Holland Marsh JCT	Armitage TS	LC
B82V	6	Holland JCT	Woodbridge JCT	DFL
B82V	7	Holland JCT	Holland TS	LC
B82V	8	York EnergyCentr JCT	Holland Marsh JCT	DFL

Operation Designation	Section	From	To	Functional Category
B82V	9	York EnergyCentr JCT	York EnergyCentr CGS	LC
B83V	1	Brown Hill TS	York EnergyCentr JCT	DFL
B83V	2	Holland Marsh JCT	Holland JCT	DFL
B83V	3	Woodbridge JCT	Claireville TS	DFL
B83V	5	Holland Marsh JCT	Armitage TS	LC
B83V	6	Holland JCT	Woodbridge JCT	DFL
B83V	7	Holland JCT	Holland TS	LC
B83V	8	York EnergyCentr JCT	Holland Marsh JCT	DFL
B83V	9	York EnergyCentr JCT	York EnergyCentr CGS	LC
B8W	1	Brant TS	Brant JCT	OTHER
B8W	2	Brant TS	Brant JCT	OTHER
B8W	3	Brant JCT	Toyota Woodstock JCT	OTHER
B8W	6	Toyota Woodstock JCT	Commerce Way JCT	LC
B8W	7	Toyota Woodstock JCT	Toyota Woodstock TS	LC
B8W	8	Commerce Way JCT	Commerce Way TS	LC
B8W	9	Commerce Way JCT	Commerce Way TS	OTHER
BL104	1	Beck #1 SS	Mid R. JCT Niagara	OTHER
BP76	1	Beck #2 TS	Mid R. JCT Niagara	N
BSC105	1	Beck #1 SS	Parks TS	OTHER
BSC105	2	Parks TS	Mid R. JCT Niagara	OTHER
BSH106	1	Beck #1 SS	Mid R. JCT Niagara	OTHER
C10A	1	Cherrywood TS	Duffin JCT	LC
C10A	2	Duffin JCT	Agincourt JCT	LC
C10A	3	Agincourt JCT	Agincourt TS	LC
C10A	5	Agincourt JCT	Cavanagh MTS	LC
C10A	6	Agincourt JCT	Leaside JCT	OTHER
C11R	1	Cherrywood TS	Leaside JCT	OTHER
C12	1	Caledonia TS	Hartford JCT	LC
C12	3	Hartford JCT	Vanessa JCT	LC
C12	4	Vanessa JCT	Bloomsburg JCT	LC
C12	5	Bloomsburg JCT	Norfolk TS	LC
C12	6	Bloomsburg JCT	Bloomsburg DS	LC
C14L	1	Cherrywood TS	Scarboro JCT	LC
C14L	2	Scarboro JCT	Bermondsey TS	LC
C14L	3	Bermondsey TS	Leaside TS	LC
C14L	4	Scarboro JCT	Scarboro TS	LC
C14L	5	Scarboro JCT	Warden TS	LC
C14L	6	Scarboro JCT	Scarboro JCT	LC
C14L	7	Leaside Str 4-5 JCT	Leaside Idle JCT	OTHER
C15L	1	Cherrywood TS	Sheppard TS	LC
C15L	2	Sheppard TS	Scarboro JCT	LC

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Operation Designation	Section	From	To	Functional Category
C15L	3	Scarboro JCT	Leaside TS	LC
C15L	4	Scarboro JCT	Scarboro TS	LC
C16L	1	Cherrywood TS	Sheppard TS	LC
C16L	2	Sheppard TS	Leaside TS	LC
C17L	1	Cherrywood TS	Scarboro JCT	LC
C17L	2	Bermondsey TS	Leaside TS	LC
C17L	3	Scarboro JCT	Bermondsey TS	LC
C17L	4	Scarboro JCT	Warden TS	LC
C18R	1	Cherrywood TS	Fairchild TS	DFL
C18R	3	Fairchild TS	Bathurst JCT	DFL
C18R	4	Bathurst JCT	Richview TS	DFL
C18R	8	Bathurst JCT	Bathurst TS	LC
C1A	1	Cameron Falls GS	Alexander SS	LC
C1A	2	Alexander SS	Alexander GS	LC
C1A	3	Alexander SS	Alexander SS	LC
C1P	1	Crowland TS	Tunnel JCT	OTHER
C1P	2	Tunnel JCT	Vale Inco JCT	OTHER
C1P	3	Vale Inco JCT	Port Colborne TS	OTHER
C20R	1	Cherrywood TS	Agincourt JCT	DFL
C20R	2	Fairchild TS	Bathurst JCT	DFL
C20R	3	Bathurst JCT	Finch JCT	DFL
C20R	4	Finch JCT	Richview TS	DFL
C20R	6	Finch JCT	Finch TS	LC
C20R	7	Leslie JCT	Fairchild TS	DFL
C20R	10	Agincourt JCT	Leslie JCT	DFL
C20R	11	Agincourt JCT	Cavanagh MTS	LC
C21J	1	Chatham SS	Sandwich JCT	DFL
C21J	2	Sandwich JCT	Malden JCT	DFL
C21J	3	Malden JCT	Keith TS	DFL
C21J	4	Malden JCT	Malden TS	LC
C21J	6	Leamington JCT	Leamington TS	LC
C22J	1	Chatham SS	Sandwich JCT	DFL
C22J	2	Sandwich JCT	Malden JCT	DFL
C22J	3	Malden JCT	Keith TS	DFL
C22J	4	Malden JCT	Malden TS	LC
C22J	6	Leamington JCT	Leamington TS	LC
C23Z	1	Chatham SS	Dillon RWEC CGS JCT	DFL
C23Z	2	Sandwich JCT	Lauzon TS	DFL
C23Z	3	KEPA Wind Farm JCT	Comber WF JCT	DFL
C23Z	4	KEPA Wind Farm JCT	Port Alma WF CSS	OTHER
C23Z	5	Dillon RWEC CGS JCT	KEPA Wind Farm JCT	DFL

Operation Designation	Section	From	To	Functional Category
C23Z	6	Dillon RWEC CGS JCT	Dillon RWEC CGS	LC
C23Z	7	Comber WF JCT	Comber WF CTS	LC
C23Z	8	Comber WF JCT	Sandwich JCT	DFL
C24Z	1	Chatham SS	KEPA Wind Farm JCT	DFL
C24Z	2	Sandwich JCT	Lauzon TS	DFL
C24Z	3	KEPA Wind Farm JCT	Comber WF JCT	DFL
C24Z	4	KEPA Wind Farm JCT	Port Alma WF CSS	LC
C24Z	5	Comber WF JCT	Sandwich JCT	DFL
C24Z	6	Comber WF JCT	Comber WF CTS	LC
C25H	1	Chats Falls SS	Havelock TS	N
C27P	1	Bannockburn JCT	Dobbin TS	DFL
C27P	2	Galetta JCT	Bannockburn JCT	DFL
C27P	3	Chats Falls SS	Galetta JCT	DFL
C27P	5	Galetta JCT	Arnprior GS	LC
C28C	1	Chats Falls SS	Marine JCT	DFL
C28C	2	Duffin JCT	Cherrywood TS	DFL
C28C	3	Marine JCT	Duffin JCT	DFL
C28C	4	Marine JCT	Otonabee TS	LC
C2A	1	Cameron Falls GS	Alexander SS	LC
C2A	2	Alexander SS	Alexander GS	LC
C2A	3	Alexander SS	Alexander SS	LC
C2L	1	C2L C3L STR 85 JCT	Ellesmere TS	OTHER
C2L	2	Ellesmere TS	C2L C3L STR 34 JCT	OTHER
C2L	5	Cherrywood TS	Ellesmere JCT	LC
C2L	6	Ellesmere JCT	Scarboro JCT	LC
C2L	7	Scarboro JCT	Leaside TS	LC
C2L	8	Scarboro JCT	Scarboro TS	LC
C2L	9	Ellesmere JCT	Ellesmere TS	LC
C2P	1	Crowland TS	Tunnel JCT	LC
C2P	2	Tunnel JCT	JBL JCT	LC
C2P	3	Vale Inco JCT	Port Colborne TS	LC
C2P	4	Tunnel JCT	Panabrasives CTS	LC
C2P	5	Vale Inco JCT	ValeCanLtd-PrtClbrne	LC
C2P	6	JBL JCT	Vale Inco JCT	LC
C2P	7	JBL JCT	JBL CSS	LC
C31	1	Chatham SS	C31 SKWP CMS JCT	LC
C35P	1	Cherrywood TS	Markham #2 JCT	DFL
C35P	2	Markham #2 JCT	Markham #3 JCT	DFL
C35P	3	Markham #3 JCT	Parkway TS	DFL
C35P	4	Markham #2 JCT	Markham #2 PH JCT	LC
C35P	5	Markham #2 PH JCT	Markham MTS #2	LC

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Operation Designation	Section	From	To	Functional Category
C35P	6	Markham #3 JCT	Markham #3 PH JCT	LC
C35P	7	Markham #3 PH JCT	Markham MTS #3	LC
C36P	1	Cherrywood TS	Markham #2 JCT	DFL
C36P	2	Markham #2 JCT	Markham #3 JCT	DFL
C36P	3	Markham #3 JCT	Parkway TS	DFL
C36P	4	Markham #2 JCT	Markham #2 PH JCT	LC
C36P	5	Markham #2 PH JCT	Markham MTS #2	LC
C36P	6	Markham #3 JCT	Markham #3 PH JCT	LC
C36P	7	Markham #3 PH JCT	Markham MTS #3	LC
C3A	1	Cameron Falls GS	Alexander SS	LC
C3A	2	Alexander SS	Alexander GS	LC
C3A	3	Alexander SS	Alexander SS	LC
C3L	1	C2L C3L STR 85 JCT	Ellesmere TS	OTHER
C3L	2	Ellesmere TS	C2L C3L STR 34 JCT	OTHER
C3L	4	Leaside Str 4-5 JCT	Leaside TS	LC
C3L	5	Cherrywood TS	Ellesmere JCT	LC
C3L	6	Ellesmere JCT	Scarboro JCT	LC
C3L	7	Scarboro JCT	Leaside Str 4-5 JCT	LC
C3L	8	Scarboro JCT	Scarboro TS	LC
C3L	9	Ellesmere JCT	Ellesmere TS	LC
C3L	10	Leaside Str 4-5 JCT	Leaside TS	LC
C3S	1	Chats Falls SS	South March TS	N
C3S	3	South March TS	Kanata MTS #1	LC
C4R	1	Cherrywood TS	Malvern TS	DFL
C4R	2	Malvern TS	Agincourt JCT	DFL
C4R	3	Agincourt JCT	Leslie TS	DFL
C4R	4	Finch JCT	Richview TS	DFL
C4R	5	Agincourt JCT	Agincourt TS	LC
C4R	6	Finch JCT	Finch TS	LC
C4R	9	Leslie TS	Finch JCT	DFL
C550VP	15	Parkway JCT	Parkway TS	N
C550VP	18	Cherrywood TS	Parkway JCT	N
C550VP	19	Parkway JCT	Claireville TS	N
C551V	21	Cherrywood TS	Claireville TS	N
C552V	1	Cherrywood TS	Claireville TS	N
C553VP	1	Cherrywood TS	Parkway JCT	N
C553VP	2	Parkway JCT	Claireville TS	N
C553VP	3	Parkway JCT	Parkway TS	N
C5E	1	Cecil TS	Terauley TS	LC
C5E	2	Terauley TS	Manhole A OPF	LC
C5E	3	Manhole A OPF	Esplanade TS	LC

Operation Designation	Section	From	To	Functional Category
C5R	1	Cherrywood TS	Malvern TS	DFL
C5R	2	Malvern TS	Agincourt JCT	DFL
C5R	3	Agincourt JCT	Leslie TS	DFL
C5R	4	Leslie TS	Richview TS	DFL
C5R	6	Leslie TS	Leslie TS	LC
C7BM	1	Arnprior JCT	Barrett Chute SS	DFL
C7BM	2	Fitzroy JCT	Arnprior JCT	DFL
C7BM	3	Chats Falls SS	Fitzroy JCT	LC
C7BM	4	Fitzroy JCT	NQL1 B JCT	DFL
C7BM	6	NQL1 B JCT	Merivale TS	DFL
C7BM	7	NQL1 B JCT	Centre Point JCT	LC
C7BM	8	Woodroffe TS	Lincoln Heights TS	LC
C7BM	9	NQL1 B JCT	Manordale JCT	LC
C7BM	10	Arnprior JCT	Arnprior TS	LC
C7BM	11	Centre Point JCT	Woodroffe TS	LC
C7BM	14	Manordale JCT	Manordale JCT	LC
C7BM	19	Centre Point JCT	Centre Point MTS	LC
C7BM	20	Centre Point MTS	Centre Point MTS	LC
C7BM	21	Centre Point MTS	Centre Point MTS	LC
C7BM	24	Manordale JCT	Manordale MTS	LC
C7BM	25	Manordale JCT	Manordale MTS	LC
C7E	1	Cecil TS	Terauley TS	LC
C7E	2	Terauley TS	Manhole A OPF	LC
C7E	3	Manhole A OPF	Esplanade TS	LC
C9	1	Caledonia TS	Caledonia Q35M JCT	LC
C9	2	Caledonia Q35M JCT	Hartford JCT	LC
C9	3	Hartford JCT	Vanessa JCT	LC
C9	4	Caledonia Q35M JCT	Caledonia Q35M JCT	OTHER
C9	5	Vanessa JCT	Bloomsburg JCT	LC
C9	6	Bloomsburg JCT	Norfolk TS	LC
C9	7	Bloomsburg JCT	Bloomsburg DS	LC
D10H	1	Detweiler TS	Leong JCT	LC
D10H	2	Leong JCT	Waterloo JCT	LC
D10H	3	Waterloo JCT	Wallenstein JCT	LC
D10H	4	Wallenstein JCT	Palmerston TS	OTHER
D10H	5	Palmerston TS	Hanover TS	LC
D10H	6	Waterloo JCT	Rush MTS	LC
D10H	7	Wallenstein JCT	Elmira TS	LC
D10S	1	DeCew Falls SS	Hooper's JCT	LC
D10S	2	Hooper's JCT	Vansickle TS	LC
D10S	3	Vansickle TS	Louth JCT	LC

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Exhibit G2

Tab 1

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Operation Designation	Section	From	To	Functional Category
D10S	4	Louth JCT	Glendale TS	LC
D10S	6	Louth JCT	Carlton TS	LC
D11K	1	Detweiler TS	Kitchener #1&4 JCT	LC
D11K	2	Kitchener #1&4 JCT	Kitchener MTS#1	LC
D11K	3	Kitchener #1&4 JCT	Kitchener MTS#4	LC
D12K	1	Detweiler TS	Kitchener #1&4 JCT	LC
D12K	2	Kitchener #1&4 JCT	Kitchener MTS#1	LC
D12K	3	Kitchener #1&4 JCT	Kitchener MTS#4	LC
D1A	1	Holland Road JCT	Allanburg TS	LC
D1A	2	Fibre JCT	Holland Road JCT	LC
D1A	3	Gibson JCT	Fibre JCT	LC
D1A	4	St.Johns Valley JCT	Gibson JCT	LC
D1A	5	Hooper's JCT	St.Johns Valley JCT	LC
D1A	6	DeCew Falls SS	Hooper's JCT	LC
D1A	7	Holland Road JCT	ResFP Thorold CTS	LC
D1A	8	Fibre JCT	Georgia Pacific CTS	LC
D1A	9	Gibson JCT	Thorold TS	LC
D1M	1	Des Joachims TS	Minden TS	N
D1W	1	Detweiler JCT	Wolverton JCT	LC
D1W	2	Wolverton JCT	D1W STR 82 JCT	OTHER
D1W	3	Wolverton JCT	Wolverton DS	LC
D23G	2	Pinard TS	Pinard D23G JCT	LC
D26A	1	Dryden TS	Mackenzie TS	N
D2H	1	Pinard TS	Pinard JCT #2	LC
D2H	2	Pinard JCT #2	Hwy 634 JCT	LC
D2H	3	Pinard JCT #2	Hwy 634 JCT	LC
D2H	4	Hwy 634 JCT	Island Falls JCT	LC
D2H	5	Hwy 634 JCT	Island Falls JCT	LC
D2H	6	Island Falls JCT	Greenwater Pr Pk JCT	LC
D2H	7	Island Falls JCT	Greenwater Pr Pk JCT	LC
D2H	8	Greenwater Pr Pk JCT	Calder JCT	LC
D2H	9	Greenwater Pr Pk JCT	Calder JCT	LC
D2H	10	Hunta JCT	Hunta SS	LC
D2H	11	Hunta JCT	Hunta JCT	LC
D2H	12	Hwy 634 JCT	Hwy 634 JCT	LC
D2H	13	Island Falls JCT	Island Falls JCT	LC
D2H	14	Greenwater Pr Pk JCT	Greenwater Pr Pk JCT	LC
D2H	15	Pinard JCT #2	Pinard JCT #2	LC
D2H	18	Calder JCT	Calder JCT	LC
D2H	19	Calder JCT	Hunta JCT	LC
D2H	20	Calder JCT	Hunta JCT	LC

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Operation Designation	Section	From	To	Functional Category
D2H	21	Calder JCT	Calder CSS	LC
D2L	1	Dymond TS	New Liskeard JCT	DFL
D2L	2	Upper Notch JCT	Cassels 2 JCT	DFL
D2L	3	Upper Notch JCT	Cassels 2 JCT	DFL
D2L	4	Cassels 2 JCT	Herridge Lake JCT	DFL
D2L	5	Cassels 2 JCT	Herridge Lake JCT	DFL
D2L	6	Herridge Lake JCT	Marten River JCT	DFL
D2L	7	Herridge Lake JCT	Marten River JCT	DFL
D2L	8	Marten River JCT	D2L STR 409 JCT	DFL
D2L	9	Marten River JCT	D2L STR 409 JCT	DFL
D2L	10	Cassels JCT	Temagami DS	LC
D2L	13	Cassels 2 JCT	Cassels JCT	DFL
D2L	14	Cassels JCT	Cassels 2 JCT	DFL
D2L	15	Herridge Lake JCT	Herridge Lake DS	DFL
D2L	16	Herridge Lake DS	Herridge Lake JCT	DFL
D2L	17	D2L STR 409 JCT	Crystal Falls SS	DFL
D2L	18	New Liskeard JCT	Upper Notch JCT	DFL
D2L	19	New Liskeard JCT	New Liskeard JCT #2	LC
D2M	1	Des Joachims TS	Otter Creek JCT	DFL
D2M	2	Otter Creek JCT	Minden TS	DFL
D2M	3	Otter Creek JCT	Wallace JCT	LC
D2M	4	Otter Creek JCT	Otter Creek JCT	LC
D2M	5	Wallace JCT	Wallace TS	LC
D2M	6	Wallace JCT	Wallace TS	LC
D3A	1	Fibre JCT	Allanburg TS	LC
D3A	2	St.Johns Valley JCT	Gibson JCT	LC
D3A	3	Hooper's JCT	St.Johns Valley JCT	LC
D3A	4	DeCew Falls SS	Hooper's JCT	LC
D3A	5	Gibson JCT	Thorold TS	LC
D3A	6	Allanburg TS	Michigan JCT	LC
D3A	7	Michigan JCT	ASW Steel JCT	LC
D3A	8	Gibson JCT	Fibre JCT	LC
D3A	9	Fibre JCT	Fibre JCT	OTHER
D3A	10	ASW Steel JCT	ASW Steel CTS	LC
D3A	11	ASW Steel JCT	ASW Steel CTS	LC
D3H	1	Pinard TS	Pinard JCT #2	LC
D3H	2	Pinard JCT #2	Hwy 634 JCT	LC
D3H	3	Pinard JCT #2	Hwy 634 JCT	LC
D3H	4	Hwy 634 JCT	Island Falls JCT	LC
D3H	5	Hwy 634 JCT	Island Falls JCT	LC
D3H	6	Island Falls JCT	Greenwater Pr Pk JCT	LC

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Operation Designation	Section	From	To	Functional Category
D3H	7	Island Falls JCT	Greenwater Pr Pk JCT	LC
D3H	8	Greenwater Pr Pk JCT	Calder JCT	LC
D3H	9	Greenwater Pr Pk JCT	Calder JCT	LC
D3H	10	Hunta JCT	Hunta SS	LC
D3H	11	Hunta JCT	Hunta JCT	LC
D3H	12	Hwy 634 JCT	Hwy 634 JCT	LC
D3H	13	Island Falls JCT	Island Falls JCT	LC
D3H	14	Greenwater Pr Pk JCT	Greenwater Pr Pk JCT	LC
D3H	15	Pinard JCT #2	Pinard JCT #2	LC
D3H	16	Calder JCT	Hunta JCT	LC
D3H	17	Calder JCT	Hunta JCT	LC
D3H	18	Calder JCT	Calder JCT	LC
D3K	1	Dymond TS	Nine Mile JCT	DFL
D3K	2	Nine Mile JCT	Dane JCT	DFL
D3K	3	Dane JCT	Gull Lake South JCT	DFL
D3K	4	Dane JCT	Notre Developmnt CTS	OTHER
D3K	5	Gull Lake South JCT	Kirkland Lake TS	DFL
D3M	1	Des Joachims TS	Minden TS	N
D4	1	Pinard TS	Pinard JCT #2	LC
D4	2	Pinard JCT #2	Abitibi Canyon GS	LC
D4	3	Pinard JCT #2	Abitibi Canyon GS	LC
D4M	1	Des Joachims TS	Otter Creek JCT	N
D4M	2	Otter Creek JCT	Minden TS	N
D4W	1	Detweiler TS	Kitchener #9 JCT	DFL
D4W	2	Kitchener #9 JCT	Buchanan TS	DFL
D4W	3	Kitchener #9 JCT	Kitchener MTS#9	LC
D4Z	1	Dymond TS	Nine Mile JCT	N
D4Z	2	Nine Mile JCT	IPB Casey JCT	N
D501P	3	Pinard TS	Porcupine TS	N
D5A	1	St.Isidore TS	Cumberland JCT	N
D5A	2	Orleans JCT #2	Hawthorne TS	DFL
D5A	3	St.Isidore TS	Longueuil JCT	LC
D5A	4	Longueuil JCT	Ivaco CTS	LC
D5A	5	Longueuil JCT	Longueuil TS	LC
D5A	6	Cumberland JCT	IPB Masson JCT	N
D5A	7	Orleans JCT #2	Orleans TS	LC
D5A	10	Cumberland JCT	Orleans JCT #2	DFL
D5D	1	Dryden TS	Dryden JCT B	LC
D5D	2	Dryden JCT B	Domtar Dryden CTS	LC
D5D	3	Dryden JCT B	Dryden JCT B	OTHER
D5H	1	Des Joachims TS	Otto Holden TS	N

Operation Designation	Section	From	To	Functional Category
D5W	1	Detweiler TS	Kitchener #9 JCT	DFL
D5W	2	Kitchener #9 JCT	Buchanan TS	DFL
D5W	3	Kitchener #9 JCT	Kitchener MTS#9	LC
D6	1	Des Joachims TS	Des Joachims JCT	LC
D6	2	Des Joachims JCT	Tee Lake JCT	LC
D6	3	Tee Lake JCT	Deep River DS	LC
D6	4	Deep River DS	Chalk River CTS	LC
D6	5	Des Joachims JCT	Des Joachims DS	LC
D6	6	Tee Lake JCT	N.P.D. NGS	OTHER
D6	7	Chalk River CTS	19D684-1 JCT	LC
D6	8	Petawawa JCT	Forest Lea JCT	LC
D6	9	Forest Lea JCT	Pembroke TS	OTHER
D6	10	Forest Lea JCT	Forest Lea DS	LC
D6	11	Petawawa JCT	Craig JCT	LC
D6	12	Craig JCT	Petawawa DS	LC
D6	13	Craig JCT	Craig DS	LC
D6	14	19D684-1 JCT	Petawawa JCT	LC
D6T	1	Pinard TS	Pinard JCT #2	LC
D6T	2	Pinard JCT #2	Abitibi Canyn JCT #2	LC
D6T	3	Pinard JCT #2	Abitibi Canyn JCT #2	LC
D6T	4	Abitibi Canyn JCT #2	Otter Rapids SS	LC
D6T	5	Otter Rapids SS	Otter Rapids SS	LC
D6T	6	Otter Rapids SS	Otter Rapids SS	OTHER
D6T	7	Otter Rapids SS	Otter Rapids GS	OTHER
D6V	1	Detweiler TS	Waterloo North 3 JCT	DFL
D6V	2	Scheifele JCT	Guelph North JCT	DFL
D6V	3	Fergus JCT	Orangeville TS	DFL
D6V	4	Fergus JCT	Fergus TS	LC
D6V	5	Guelph North JCT	Fergus JCT	DFL
D6V	6	Guelph North JCT	Campbell TS	DFL
D6V	7	Waterloo North 3 JCT	Scheifele JCT	DFL
D6V	8	Waterloo North 3 JCT	Waterloo North MTS 3	LC
D6V	9	Scheifele JCT	Scheifele MTS	LC
D6V	10	Campbell TS	C.G.E. JCT	N
D6V	11	Cedar TS	C.G.E. JCT	DFL
D6Y	1	Duplex TS	Glengrove TS	LC
D7F	1	Detweiler TS	Detweiler JCT	DFL
D7F	2	Detweiler JCT	Kitchener #6 JCT	DFL
D7F	3	Kitchener #6 JCT	Siebert JCT	DFL
D7F	4	Siebert JCT	D7F_D9F T#162 PH JCT	DFL
D7F	5	Kitchener MTS #7	Freeport SS	DFL

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Operation Designation	Section	From	To	Functional Category
D7F	6	Siebert JCT	Kitchener #2&3 JCT	LC
D7F	7	Kitchener #2&3 JCT	Kitchener MTS#3	LC
D7F	9	Kitchener MTS #7	Kitchener MTS #7	LC
D7F	10	D7F_D9F T#162 PH JCT	D7F_D9F T#157 PH JCT	DFL
D7F	11	D7F_D9F T#157 PH JCT	Kitchener MTS #7	DFL
D7V	1	Detweiler TS	Waterloo North 3 JCT	DFL
D7V	2	Scheifele JCT	Guelph North JCT	DFL
D7V	3	Fergus JCT	Orangeville TS	DFL
D7V	4	Fergus JCT	Fergus TS	LC
D7V	5	Guelph North JCT	Fergus JCT	DFL
D7V	6	Guelph North JCT	Campbell TS	DFL
D7V	7	Waterloo North 3 JCT	Scheifele JCT	DFL
D7V	8	Waterloo North 3 JCT	Waterloo North MTS 3	LC
D7V	9	Scheifele JCT	Scheifele MTS	LC
D7V	10	Campbell TS	C.G.E. JCT	N
D7V	11	Cedar TS	C.G.E. JCT	DFL
D8S	1	Detweiler TS	Leong JCT	LC
D8S	2	Leong JCT	St.Marys TS	LC
D8S	3	Leong JCT	Rush MTS	LC
D9F	1	Detweiler TS	Detweiler JCT	DFL
D9F	2	Detweiler JCT	Kitchener #6 JCT	DFL
D9F	3	Kitchener #6 JCT	Siebert JCT	DFL
D9F	4	Siebert JCT	D7F_D9F T#162 PH JCT	DFL
D9F	5	Kitchener MTS #7	Freeport SS	DFL
D9F	6	Siebert JCT	Kitchener #2&3 JCT	LC
D9F	7	Kitchener #2&3 JCT	Kitchener MTS#3	LC
D9F	9	Kitchener MTS #7	Kitchener MTS #7	LC
D9F	10	D7F_D9F T#162 PH JCT	D7F_D9F T#157 PH JCT	DFL
D9F	11	D7F_D9F T#157 PH JCT	Kitchener MTS #7	DFL
D9HS	1	DeCew Falls SS	Hooper's JCT	LC
D9HS	2	Hooper's JCT	Vansickle TS	LC
D9HS	3	Vansickle TS	Louth JCT	LC
D9HS	7	Louth JCT	Carlton TS	LC
D9HS	8	Beach Road JCT	Beach TS	LC
D9HS	9	Louth JCT	Glendale TS	LC
E1C	1	Ear Falls TS	Selco JCT	LC
E1C	2	Selco JCT	Slate Falls JCT	LC
E1C	3	Etruscan JCT	Placer JCT	LC
E1C	5	Etruscan JCT	Etruscan Entrprs CTS	OTHER
E1C	8	Golden Patricia JCT	Etruscan JCT	LC
E1C	11	Slate Falls JCT	Golden Patricia JCT	LC

Operation Designation	Section	From	To	Functional Category
E1C	12	Slate Falls JCT	Slate Falls DS	LC
E1C	13	Placer JCT	Crow River DS	LC
E1C	14	Placer JCT	Placer JCT	LC
E1C	15	Placer JCT	Crow River DS	LC
E1C	16	Placer JCT	Musselwhite CSS	LC
E1W	1	Essa TS	Minesing JCT	OTHER
E1W	2	County Road 23 JCT	Waubashene TS	OTHER
E20S	1	Essa TS	Stayner TS	N
E21S	1	Essa TS	Stayner TS	N
E26	1	Essa TS	Waubashene JCT	LC
E26	2	Waubashene JCT	Parry Sound JCT	LC
E26	3	Parry Sound JCT	Parry Sound TS	LC
E26	4	Waubashene JCT	Waubashene TS	LC
E27	1	Essa TS	Waubashene JCT	LC
E27	2	Waubashene JCT	Parry Sound JCT	LC
E27	3	Parry Sound JCT	Parry Sound TS	LC
E27	4	Waubashene JCT	Waubashene TS	LC
E29C	1	Almonte TS	Almonte TS	LC
E29C	2	Almonte TS	Wilson JCT	DFL
E29C	3	Wilson JCT	Whitby JCT	DFL
E29C	4	Whitby JCT	Cherrywood TS	DFL
E29C	5	Wilson JCT	Wilson TS	LC
E29C	6	Whitby JCT	Whitby TS	LC
E29C	7	Almonte TS	Almonte TS	DFL
E2Q	1	Elliot Lake TS	Quirke Lake JCT	OTHER
E2Q	2	Quirke Lake JCT	Denison Mines CTS	OTHER
E2R	1	Ear Falls TS	Pakwash JCT	LC
E2R	2	Pakwash JCT	Balmer JCT	LC
E2R	4	Balmer JCT	Red Lake TS	LC
E34M	1	Merivale TS	Terry Fox JCT	DFL
E34M	2	Terry Fox JCT	Terry Fox JCT	DFL
E34M	3	Terry Fox JCT	Didsbury Road JCT	DFL
E34M	4	Didsbury Road JCT	Almonte TS	DFL
E34M	5	Almonte TS	Almonte TS	LC
E34M	6	Almonte TS	Almonte TS	DFL
E34M	7	Terry Fox JCT	Terry Fox MTS	LC
E34M	8	Terry Fox JCT	Terry Fox MTS	LC
E3B	1	Essa TS	Barrie TS	LC
E4B	1	Essa TS	Barrie TS	LC
E4D	1	Ear Falls TS	Scout Lake JCT	LC
E4D	2	Scout Lake JCT	Dryden TS	LC

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Operation Designation	Section	From	To	Functional Category
E4D	3	Scout Lake JCT	Perrault Falls DS	LC
E510V	1	Essa TS	Claireville TS	N
E511V	1	Essa TS	Claireville TS	N
E564L	1	Evergreen SS	Longwood TS	N
E578P	1	Evergreen SS	Parkhill CTS	N
E6L	1	Seaforth TS	Egmondville CSS	LC
E8F	1	Essex TS	Chrysler WAP MTS	LC
E8F	2	Chrysler WAP MTS	G.M.Windsor MTS	LC
E8F	3	G.M.Windsor MTS	Ford Annex MTS	LC
E8F	4	Ford Annex MTS	Ford Windsor MTS	LC
E8F	5	Ford Windsor MTS	East Windsor CGS	LC
E8V	1	Essa TS	Alliston JCT	DFL
E8V	2	Alliston JCT	Everett JCT	DFL
E8V	3	Alliston JCT	Alliston TS	LC
E8V	4	Alliston JCT	Alliston TS	LC
E8V	6	Alliston JCT	Alliston JCT	DFL
E8V	7	Everett JCT	Orangeville TS	DFL
E8V	8	Everett JCT	Everett TS	LC
E9F	1	Essex TS	Chrysler WAP MTS	LC
E9F	2	Chrysler WAP MTS	G.M.Windsor MTS	LC
E9F	3	G.M.Windsor MTS	Ford Annex MTS	LC
E9F	4	Ford Annex MTS	Ford Windsor MTS	LC
E9F	5	Ford Windsor MTS	East Windsor CGS	LC
E9V	1	Essa TS	Alliston JCT	DFL
E9V	2	Alliston JCT	Everett JCT	DFL
E9V	3	Alliston JCT	Alliston TS	LC
E9V	4	Alliston JCT	Alliston TS	OTHER
E9V	6	Alliston JCT	Alliston JCT	DFL
E9V	7	Everett JCT	Orangeville TS	DFL
E9V	8	Everett JCT	Everett TS	LC
F10MV	1	Merivale TS	City View JCT	LC
F10MV	2	City View JCT	Val Tetreau JCT	LC
F10MV	4	City View JCT	Woodroffe TS	LC
F10MV	5	Woodroffe TS	Lincoln Heights TS	LC
F10MV	6	Val Tetreau JCT	Hinchey TS	LC
F11C	1	Freeport SS	Speedsville JCT	DFL
F11C	2	Speedsville JCT	Preston TS	DFL
F11C	3	Speedsville JCT	C.G.E. JCT	DFL
F11C	4	C.G.E. JCT	Cedar TS	DFL
F11C	5	Freeport SS	Kitchener Graber JCT	LC
F11C	6	Kitchener Graber JCT	Kitchener MTS#5	LC

Operation Designation	Section	From	To	Functional Category
F11C	7	Freeport SS	Freeport SS	LC
F12C	1	Freeport SS	Speedsville JCT	DFL
F12C	2	Speedsville JCT	Preston TS	DFL
F12C	3	Speedsville JCT	C.G.E. JCT	DFL
F12C	4	C.G.E. JCT	Cedar TS	DFL
F12C	5	Freeport SS	Kitchener Graber JCT	LC
F12C	6	Kitchener Graber JCT	Kitchener MTS#5	LC
F12C	7	Freeport SS	Freeport SS	LC
F1B	1	Fort Frances TS	Fort Frances JCT	LC
F1B	2	Burleigh JCT	Burleigh DS	LC
F1B	3	Fort Frances TS	Fort Frances MTS	LC
F1B	4	Fort Frances JCT	Burleigh JCT	LC
F1B	5	Burleigh JCT	Hwy #11 JCT	OTHER
F1E	1	Kapuskasing TS	AP Calstock CSS JCT	LC
F1E	2	Nagagami CSS JCT	Hearst TS	LC
F1E	3	Kapuskasing TS	Spruce Falls TS	N
F1E	4	AP Calstock CSS JCT	A.P. Calstock CSS	LC
F1E	5	AP Calstock CSS JCT	Nagagami CSS JCT	LC
F1E	6	Nagagami CSS JCT	Nagagami CSS	LC
F25A	1	Fort Frances TS	Mackenzie TS	N
F2B	1	Fort Frances TS	H2O Pwr FtFrnces CTS	LC
F3M	1	Fort Frances TS	H2O Pwr FtFrnces CTS	N
F3M	2	H2O Pwr FtFrnces CTS	Int'l Bdy Minn JCT	N
FA16G3K	1	Matachewan JCT	Elk Lake JCT	OTHER
FS23M1	1	Elliot Lake TS	Quirke Lake JCT	OTHER
FS9M6	1	Martindale TS	Dominion Drive DS	OTHER
GL1	2	Wawa TS	Anjigami CTS	N
GL4	2	Wawa TS	Anjigami CTS	N
H	1	Summerhaven SS	Summerhaven CSS	LC
H BUS	1	Rabbit Lake SS	Kenora DS	LC
H10EJ	1	Hearn SS	Don Fleet JCT	LC
H10EJ	2	Don Fleet JCT	Esplanade TS	LC
H10EJ	3	Esplanade TS	John TS	OTHER
H10EJ	4	Hearn SS	Hearn SS	LC
H11L	1	Hearn SS	Waverly OPF	LC
H11L	2	Main TS	Lumsden JCT	LC
H11L	3	Lumsden JCT	Todmorden JCT	LC
H11L	4	Todmorden JCT	Leaside TS	LC
H11L	7	Waverly OPF	Brookside OPF	LC
H11L	8	Brookside OPF	Main TS	LC
H12P	1	Hearn SS	Portlands Energy JCT	LC

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Operation Designation	Section	From	To	Functional Category
H12P	3	Hearn SS	Hearn SS	LC
H13P	1	Hearn SS	Portlands Energy JCT	LC
H13P	3	Hearn SS	Hearn SS	LC
H14P	1	Hearn SS	Portlands Energy JCT	LC
H14P	3	Hearn SS	Hearn SS	LC
H1L	1	Hearn SS	Basin TS	LC
H1L	2	Basin TS	Mill Street JCT	LC
H1L	3	Mill Street JCT	Gerrard TS	LC
H1L	4	Gerrard TS	Bloor Street JCT	LC
H1L	5	Bloor Street JCT	Leaside TS	LC
H1L	6	Basin TS	Basin TS	LC
H1L	7	Gerrard TS	Carlaw TS	LC
H2	1	Wiltshire TS	Wiltshire TS	LC
H22D	1	Harmon GS	Harmon JCT	LC
H22D	2	Harmon JCT	Smoky Falls JCT	LC
H22D	3	Little Long JCT	Pinard TS	LC
H22D	4	Little Long JCT	Little Long 2 JCT	LC
H22D	5	Harmon JCT	Kipling JCT	LC
H22D	6	Smoky Falls JCT	Little Long JCT	LC
H22D	7	Kipling JCT	Kipling GS	LC
H22D	9	Smoky Falls JCT	Smoky Falls 2 JCT	LC
H23B	1	Hinchinbrooke SS	Pancake JCT	N
H23B	2	Pancake JCT	Belleville TS	N
H23S	1	Otto Holden TS	Widdifield SS	N
H23S	2	Widdifield SS	Pedley JCT	DFL
H23S	3	Pedley JCT	Martindale TS	DFL
H23S	4	Pedley JCT	Crystal Falls TS	LC
H24C	1	Havelock TS	Marine JCT	DFL
H24C	2	Marine JCT	Oshawa Area JCT	DFL
H24C	4	Oshawa Area JCT	Columbus JCT	DFL
H24C	5	Columbus JCT	Whitby JCT	DFL
H24C	6	Columbus JCT	Lasco JCT	LC
H24C	7	Lasco JCT	Thornton JCT	LC
H24C	8	Thornton JCT	Thornton TS	LC
H24C	9	Thornton JCT	Oshawa G.M. JCT	LC
H24C	10	Lasco JCT	Atlantic Packgng JCT	LC
H24C	11	Marine JCT	Otonabee TS	LC
H24C	12	Atlantic Packgng JCT	Gerdau A. Whitby CTS	LC
H24C	13	Atlantic Packgng JCT	Atlantic Packgng CTS	LC
H24C	14	Oshawa G.M. JCT	Oshawa G.M. TS	LC
H24C	15	Oshawa G.M. JCT	G.M.Oshawa JCT	OTHER

Operation Designation	Section	From	To	Functional Category
H24C	17	Whitby JCT	Cherrywood TS	DFL
H24C	18	Whitby JCT	Whitby TS	LC
H24S	1	Otto Holden TS	Widdifield SS	N
H24S	2	Widdifield SS	A.P. North Bay JCT	DFL
H24S	3	Grant JCT	Martindale TS	DFL
H24S	4	Widdifield SS	Trout Lake TS	LC
H24S	5	Grant JCT	Crystal Falls TS	LC
H24S	6	A.P. North Bay JCT	Grant JCT	DFL
H24S	7	A.P. North Bay JCT	A.P. North Bay JCT	LC
H26C	1	Havelock TS	Marine JCT	DFL
H26C	2	Marine JCT	Oshawa Area JCT	DFL
H26C	4	Oshawa Area JCT	Columbus JCT	DFL
H26C	5	Columbus JCT	Whitby JCT	DFL
H26C	6	Columbus JCT	Lasco JCT	LC
H26C	7	Lasco JCT	Thornton JCT	LC
H26C	8	Thornton JCT	Thornton TS	LC
H26C	9	Thornton JCT	Oshawa G.M. JCT	LC
H26C	10	Lasco JCT	Atlantic Packgng JCT	LC
H26C	12	Atlantic Packgng JCT	Whitby CGS JCT	LC
H26C	13	Atlantic Packgng JCT	Atlantic Packgng CTS	LC
H26C	14	Oshawa G.M. JCT	Oshawa G.M. TS	LC
H26C	15	Oshawa G.M. JCT	G.M.Oshawa JCT	OTHER
H26C	18	Whitby CGS JCT	Gerdau A. Whitby CTS	LC
H26C	19	Whitby CGS JCT	Whitby CGS	LC
H26C	20	B23C H26C Tie JCT	Cherrywood TS	DFL
H26C	22	Whitby JCT	B23C H26C Tie JCT	DFL
H26C	23	Whitby JCT	Whitby TS	LC
H27H	1	Hinchinbrooke SS	Bannockburn JCT	N
H27H	2	Bannockburn JCT	Havelock TS	N
H29	1	Hurontario SS	Pleasant TS	LC
H2JK	1	Hearn SS	Basin TS	LC
H2JK	2	Basin TS	Don Fleet JCT	LC
H2JK	3	Basin TS	Don Fleet JCT	LC
H2JK	4	Don Fleet JCT	Esplanade TS	LC
H2JK	5	Esplanade TS	John TS	OTHER
H2JK	6	John TS	Strachan TS	LC
H2JK	8	Riverside JCT	Manby TS	LC
H2JK	10	Strachan TS	Riverside JCT	LC
H2JK	11	Hearn SS	Basin TS	OTHER
H2JK	12	John TS	John TS	LC
H2JK	16	Hearn SS	Hearn SS	LC

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Operation Designation	Section	From	To	Functional Category
H2JK	17	Strachan TS	Strachan TS	LC
H2JK	18	Strachan TS	Strachan TS	LC
H2N	3	Calstock DS JCT	Calstock DS	LC
H30	1	Hurontario SS	Pleasant TS	LC
H35D	1	Beach TS	Dof.Bay Front CTS	LC
H36D	1	Beach TS	Dof.Bay Front CTS	LC
H3L	1	Hearn SS	Basin TS	LC
H3L	2	Basin TS	Mill Street JCT	LC
H3L	3	Mill Street JCT	Gerrard TS	LC
H3L	5	Gerrard TS	Bloor Street JCT	LC
H3L	6	Bloor Street JCT	Leaside TS	LC
H3L	7	Basin TS	Basin TS	LC
H3L	8	Gerrard TS	Carlaw TS	LC
H3L	9	Gerrard TS	Bloor Street JCT	LC
H4Z	1	Otto Holden TS	IPB La Cave JCT	N
H5K	1	Beach TS	Kenilworth TS	LC
H6K	1	Beach TS	Kenilworth TS	LC
H6LC	1	Hearn SS	Don Fleet JCT	LC
H6LC	2	Gerrard JCT	Bloor Street JCT	LC
H6LC	3	Bloor Street JCT	Leaside TS	LC
H6LC	4	Gerrard JCT	Cecil TS	LC
H6LC	5	Don Fleet JCT	Gerrard JCT	LC
H6T	1	Hunta SS	Tisdale JCT	DFL
H6T	2	Tisdale JCT	Laforest Road JCT	DFL
H6T	3	Laforest Road JCT	Timmins TS	DFL
H6T	4	Laforest Road JCT	Laforest Road DS	LC
H7L	1	Hearn SS	Waverly OPF	LC
H7L	2	Main TS	Lumsden JCT	LC
H7L	3	Lumsden JCT	Todmorden JCT	LC
H7L	4	Todmorden JCT	Leaside TS	LC
H7L	7	Waverly OPF	Brookside OPF	LC
H7L	8	Brookside OPF	Main TS	LC
H7T	1	Hunta SS	Warkus JCT	DFL
H7T	2	Warkus JCT	Timmins TS	DFL
H7T	3	Warkus JCT	Kidd Minesite CTS	LC
H8LC	1	Hearn SS	Don Fleet JCT	LC
H8LC	2	Gerrard JCT	Bloor Street JCT	LC
H8LC	3	Bloor Street JCT	Leaside TS	LC
H8LC	4	Gerrard JCT	Cecil TS	LC
H8LC	5	Don Fleet JCT	Gerrard JCT	LC
H9A	1	Hawthorne TS	Orleans JCT #2	LC

Operation Designation	Section	From	To	Functional Category
H9A	2	Borromee JCT	Wilhaven JCT	LC
H9A	3	Cumberland JCT	Gamble H9A JCT	LC
H9A	5	Borromee JCT	Navan DS	LC
H9A	7	Wilhaven JCT	Cumberland JCT	LC
H9A	10	Orleans JCT	Bilberry Creek JCT	LC
H9A	11	Cumberland DS JCT	Orleans JCT	LC
H9A	12	Gamble H9A JCT	Cumberland DS JCT	LC
H9A	13	Gamble H9A JCT	IPB Masson JCT	N
H9A	15	Bilberry Creek JCT	Bilberry Creek TS	LC
H9A	16	Cumberland DS JCT	Cumberland DS	LC
H9A	17	Cumberland DS JCT	Cumberland DS	LC
H9A	19	Wilhaven JCT	Wilhaven DS	LC
H9A	20	Cumberland DS JCT	Cumberland DS JCT	LC
H9A	21	Bilberry Creek JCT	Bilberry Creek JCT	OTHER
H9A	22	Cumberland DS JCT	Cumberland DS JCT	LC
H9A	23	Cumberland DS JCT	Cumberland DS	OTHER
H9A	24	Gamble H9A JCT	Gamble H9A JCT	LC
H9A	25	Orleans JCT #2	Borromee JCT	LC
H9A	26	Orleans JCT #2	Orleans TS	LC
H9EJ	1	Hearn SS	Don Fleet JCT	LC
H9EJ	2	Don Fleet JCT	Esplanade TS	LC
H9EJ	3	Esplanade TS	John TS	OTHER
H9EJ	4	Hearn SS	Hearn SS	LC
H9K	1	Hunta H9K JCT	Smooth Rock Falls JCT	DFL
H9K	2	Hunta H9K JCT	H9K STR 127A JCT	DFL
H9K	3	H9K STR 127A JCT	Gemini Smooth Rk JCT	DFL
H9K	4	Gemini Smooth Rk JCT	Fauquier JCT	DFL
H9K	5	Fauquier JCT	Carmichael Falls JCT	DFL
H9K	6	Carmichael Falls JCT	Spruce Falls JCT	DFL
H9K	7	Spruce Falls JCT	Kapuskasing TS	DFL
H9K	9	Gemini Smooth Rk JCT	Gemini Smooth Rk CGS	LC
H9K	10	Fauquier JCT	Fauquier DS	LC
H9K	11	Carmichael Falls JCT	Carmichael Falls JCT	LC
H9K	14	Hunta SS	Hunta H9K JCT	DFL
H9K	15	Smooth Rock Falls JCT	H9K STR 127A JCT	DFL
H9K	16	Smooth Rock Falls JCT	Smooth Rock Falls DS	LC
H9K	18	Kapuskasing TS	Tembec Kapuskas CTS	OTHER
HL3	1	Beach TS	Birmingham TS	LC
HL3	2	Birmingham TS	Specialty Bar JCT	LC
HL3	3	Specialty Bar JCT	Stirton TS	LC
HL3	4	Stirton TS	Elgin TS	OTHER

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Operation Designation	Section	From	To	Functional Category
HL3	5	Elgin TS	Newton TS	LC
HL3	6	Specialty Bar JCT	Specialty Bar CTS	LC
HL4	1	Beach TS	Birmingham TS	LC
HL4	2	Birmingham TS	Specialty Bar JCT	LC
HL4	3	Specialty Bar JCT	Stirton TS	LC
HL4	4	Stirton TS	Elgin TS	OTHER
HL4	5	Elgin TS	Newton TS	LC
HL4	6	Specialty Bar JCT	Specialty Bar CTS	LC
IDLE12	1	Beach Road JCT	Beach TS	OTHER
IDLE13	1	Beach Road JCT	Beach TS	OTHER
IDLE14	1	Beach TS	Beach STR 44 JCT	OTHER
IDLE15	1	Allanburg West JCT	Rosedene JCT	OTHER
IDLE18	1	IDLE18 STR2 J	IDLE18 STR14 J	OTHER
IDLE19	1	Atikokan TGS	Marmion Lake JCT	OTHER
IDLE20	1	Buchanan TS	Buchanan JCT	OTHER
IDLE22	1	Des Joachims TS	Colony Lane JCT	OTHER
IDLE23	1	Nia Park EP J	Mid R. JCT Niagara	OTHER
IDLE24	1	Leong JCT	Nafziger Road JCT	OTHER
IDLE25	1	Major Ln Str 16 JCT	MacPherson Road JCT	OTHER
IDLE25	2	Major Ln Str 16 JCT	MacPherson Road JCT	OTHER
IDLE26	1	Buchanan JCT	Buchanan East JCT	OTHER
IDLE27	1	Centre JCT	Station Street JCT	OTHER
IDLE4	1	Birch JCT	Bridgman JCT	OTHER
IDLE8	1	Claireville TS	Claireville JCT	OTHER
IDLE9	1	Claireville TS	Claireville JCT	OTHER
J1B	1	Keith TS	Brighton Intface JCT	LC
J20B	1	Keith TS	Brighton Intface JCT	LC
J2N	1	Keith TS	W.Windsor Power JCT	LC
J3E	1	Keith TS	Crawford JCT	DFL
J3E	2	Crawford JCT	Essex TS	DFL
J3E	3	Crawford JCT	Crawford TS	LC
J4E	1	Keith TS	Crawford JCT	DFL
J4E	2	Crawford JCT	Essex TS	DFL
J4E	3	Crawford JCT	Crawford TS	LC
J5D	1	Keith TS	Mid R. JCT Waterman	N
K1	1	Kirkland Lake TS	Gull Lake North JCT	OTHER
K10SB	1	Richview JCT	Manby TS	OTHER
K10SB	2	Scarboro Idle JCT	Leaside Idle JCT	OTHER
K11W	1	Manby TS	Runnymede TS	LC
K11W	2	Runnymede TS	Wiltshire TS	LC
K12	1	Karn TS	Woodstock TS	LC

Operation Designation	Section	From	To	Functional Category
K12	2	Woodstock TS	Commerce Way TS	LC
K12W	1	Manby TS	Runnymede TS	LC
K12W	2	Runnymede TS	Wiltshire TS	LC
K13J	1	Manby TS	Riverside JCT	LC
K13J	3	Strachan TS	John TS	LC
K13J	4	Riverside JCT	Strachan TS	LC
K13J	5	Strachan TS	Strachan TS	LC
K14J	1	Manby TS	Riverside JCT	LC
K14J	3	Strachan TS	John TS	LC
K14J	4	Riverside JCT	Strachan TS	LC
K14J	5	Strachan TS	Strachan TS	LC
K1G	1	Kenilworth TS	Gage TS	OTHER
K1W	1	Manby TS	St.Clair Avenue JCT	LC
K1W	2	St.Clair Avenue JCT	Wiltshire TS	LC
K1W	4	St.Clair Avenue JCT	Fairbank TS	LC
K2	1	Kirkland Lake TS	Gull Lake North JCT	LC
K2	2	Gull Lake North JCT	Gull Lake South JCT	LC
K2	6	Gull Lake South JCT	Holloway Holt JCT	LC
K21C	1	Manby TS	Manby TS	LC
K21C	2	Manby TS	Applewood JCT	LC
K21C	3	Manby TS	Applewood JCT	LC
K21C	4	Applewood JCT	Applewood JCT	LC
K21C	5	Applewood JCT	Cooksville TS	LC
K21C	6	Cooksville TS	Cooksville TS	LC
K21W	1	Kenora TS	IPB Manitoba 230 JCT	N
K22W	1	Kenora TS	IPB Manitoba 230 JCT	N
K23C	1	Manby TS	Applewood JCT	LC
K23C	2	Applewood JCT	Cooksville TS	LC
K23C	3	Applewood JCT	Applewood JCT	OTHER
K23D	1	Kenora TS	TCPL Vermill Bay JCT	DFL
K23D	2	TCPL Vermill Bay JCT	Dryden TS	DFL
K23D	3	TCPL Vermill Bay JCT	TCPL Vermill Bay CTS	LC
K24F	1	Kenora TS	Fort Frances TS	N
K25BUS	1	Sandusk SS	Sandusk CGS	LC
K2G	1	Kenilworth TS	Gage TS	OTHER
K2M	1	Rabbit Lake SS	Norman JCT	LC
K2Z	1	Kent TS	Kent JCT	OTHER
K2Z	2	Kent JCT	Tilbury JCT	OTHER
K2Z	3	Tilbury JCT	Woodslee JCT	LC
K2Z	4	Woodslee JCT	Lauzon JCT	LC
K2Z	5	Tilbury JCT	Tilbury West JCT	LC

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Operation Designation	Section	From	To	Functional Category
K2Z	6	Woodslee JCT	Gosfield CGS JCT	LC
K2Z	7	Tilbury JCT	Belle River JCT	OTHER
K2Z	8	Tilbury West JCT	Tilbury West JCT	LC
K2Z	9	Tilbury West JCT	Tilbury West JCT	OTHER
K2Z	10	Tilbury West JCT	Tilbury West DS	LC
K2Z	11	Tilbury West JCT	Tilbury TS	LC
K2Z	12	Lauzon JCT	Lauzon TS	LC
K2Z	13	Rourke Line JCT	Belle River JCT	OTHER
K2Z	14	Lauzon JCT	Rourke Line JCT	LC
K2Z	15	Rourke Line JCT	Belle River TS	LC
K2Z	16	Gosfield CGS JCT	Kingsville TS	LC
K2Z	17	Gosfield CGS JCT	Gosfield Wind CGS	LC
K3	1	Kapuskasing TS	Kapuskasing R Jct	OTHER
K38S	1	Kapuskasing TS	Spruce Falls JCT	DFL
K38S	2	Spruce Falls JCT	O'brien JCT	DFL
K38S	3	Spruce Falls JCT	A.P. Kapuskasing JCT	LC
K38S	5	O'brien JCT	Spruce Falls TS	DFL
K38S	6	O'brien JCT	Tembec Kapuskas CTS	LC
K3D	1	Rabbit Lake SS	K3D-10 SW JCT	DFL
K3D	2	K3D-10 SW JCT	Vermilion Bay JCT	DFL
K3D	3	Vermilion Bay JCT	Eton JCT	DFL
K3D	4	Vermilion Bay JCT	Vermilion Bay DS	LC
K3D	5	Dryden TS	Sam Lake DS	LC
K3D	6	Eton JCT	Dryden TS	DFL
K3D	7	Eton JCT	Eton DS	LC
K3W	1	Manby TS	St.Clair Avenue JCT	LC
K3W	2	St.Clair Avenue JCT	Wiltshire TS	LC
K3W	4	St.Clair Avenue JCT	Fairbank TS	LC
K4	1	Kirkland Lake TS	Macassa Mill JCT	LC
K4	3	Macassa #3 JCT	93K4-89 JCT	LC
K4	4	Matachewan JCT	Extender Min. JCT	OTHER
K4	5	Extender Min. JCT	Elk Lake JCT	OTHER
K4	7	Macassa #3 JCT	Macassa #3 JCT	LC
K4	8	Matachewan JCT	Young-Davidson CTS	LC
K4	9	93K4-89 JCT	Matachewan JCT	LC
K4	10	Macassa Mill JCT	Macassa #3 JCT	LC
K4	11	Macassa Mill JCT	Macassa Mill JCT	LC
K40M	1	Sandusk SS	Sandusk JCT	DFL
K40M	2	Sandusk JCT	Caledonia JCT	DFL
K40M	3	Caledonia JCT	Middleport TS	DFL
K40M	4	Caledonia JCT	Caledonia TS	LC

Operation Designation	Section	From	To	Functional Category
K4W	1	Rabbit Lake SS	Minaki JCT	LC
K4W	2	Minaki JCT	Whitedog Falls SS	LC
K4W	3	Minaki JCT	Minaki DS	LC
K4W	4	Minaki JCT	Minaki DS	LC
K5W	1	Rabbit Lake SS	Minaki JCT	LC
K5W	3	Minaki JCT	Whitedog Falls SS	LC
K6F	1	Rabbit Lake SS	Margach JCT	DFL
K6F	2	Margach JCT	Sioux Narrows JCT	DFL
K6F	3	K6F-10 SW JCT	Nestor Falls JCT	DFL
K6F	4	Nestor Falls JCT	Ainsworth JCT	DFL
K6F	5	Sioux Narrows JCT	Sioux Narrows DS	LC
K6F	6	Nestor Falls JCT	Nestor Falls DS	LC
K6F	7	Sioux Narrows JCT	K6F-10 SW JCT	DFL
K6F	8	Ainsworth JCT	Fort Frances JCT	DFL
K6F	10	Margach JCT	Margach DS	LC
K6F	11	Margach JCT	Margach DS	OTHER
K6F	12	Ainsworth JCT	Barwick JCT	LC
K6F	13	Fort Frances JCT	Fort Frances TS	DFL
K6F	14	Fort Frances JCT	Fort Frances JCT	OTHER
K6F	15	Barwick JCT	Ainsworth Str #4 JCT	LC
K6F	16	Barwick JCT	Barwick TS	LC
K6F	17	Barwick JCT	Barwick TS	LC
K6J	1	Manby TS	Riverside JCT	LC
K6J	3	Strachan TS	John TS	LC
K6J	6	Riverside JCT	Strachan TS	LC
K6J	7	Strachan TS	Strachan TS	LC
K6J	8	Strachan TS	Strachan TS	LC
K6Z	1	Kent TS	Tilbury JCT	OTHER
K6Z	3	Belle River JCT	Rourke Line JCT	LC
K6Z	4	Kingsville TS	Pte-Aux-RochesWF JCT	LC
K6Z	5	Lauzon JCT	Lauzon TS	LC
K6Z	6	Rourke Line JCT	Lauzon JCT	LC
K6Z	7	Rourke Line JCT	Belle River TS	LC
K6Z	11	Pte-Aux-RochesWF JCT	Belle River JCT	LC
K6Z	12	Pte-Aux-RochesWF JCT	Pte-Aux-RochesWF CGS	LC
K7	1	Karn TS	Woodstock TS	LC
K7	2	Woodstock TS	Commerce Way TS	LC
K7B	7	Vansco JCT	Manby TS	OTHER
K7K	1	Kenora TS	Kenora TS	DFL
K7K	2	Kenora TS	Rabbit Lake SS	DFL
K7K	3	Kenora TS	Weyerhaeuser Ken CTS	LC

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Operation Designation	Section	From	To	Functional Category
K8B	7	Vansco JCT	Manby TS	OTHER
K9S	1	Richview JCT	Manby TS	OTHER
K9S	2	Scarboro Idle JCT	Leaside Idle JCT	OTHER
L12C	1	Leaside TS	Balfour JCT	LC
L12C	2	Balfour JCT	Charles TS	LC
L12C	3	Charles TS	Cecil TS	LC
L13W	1	Leaside TS	Balfour JCT	LC
L13W	2	Balfour JCT	Bridgman JCT	LC
L13W	3	Bridgman JCT	Dufferin JCT	LC
L13W	4	Dufferin JCT	Wiltshire TS	OTHER
L13W	5	Dufferin JCT	Dufferin TS	LC
L13W	6	Bridgman JCT	Bridgman TS	LC
L13W	7	Bridgman JCT	Bridgman TS	LC
L13W	8	Dufferin JCT	Dufferin JCT	LC
L14W	1	Leaside TS	Bayview JCT	LC
L14W	2	Bayview JCT	Joint Bay 4 OPF	LC
L14W	3	Birch JCT	Bridgman JCT	LC
L14W	4	Bridgman JCT	Wiltshire TS	OTHER
L14W	5	Bridgman JCT	Bridgman TS	LC
L14W	6	Joint Bay 4 OPF	Birch JCT	LC
L15W	1	Leaside TS	Bayview JCT	LC
L15W	2	Bayview JCT	Balfour JCT	LC
L15W	3	Balfour JCT	Bridgman JCT	LC
L15W	4	Bridgman JCT	Bartlett JCT	LC
L15W	5	Bartlett JCT	Wiltshire TS	OTHER
L15W	6	Bartlett JCT	Dufferin TS	LC
L15W	7	Bridgman JCT	Bridgman TS	LC
L15W	8	Bartlett JCT	Bartlett JCT	LC
L16D	1	Leaside TS	Duplex TS	LC
L18W	2	Leaside TS	Bayview JCT	OTHER
L1MB	4	St.Lawrence TS	Lunenburg JCT	LC
L1MB	5	Lunenburg JCT	Morrisburg JCT	LC
L1MB	6	Morrisburg JCT	Casco JCT	LC
L1MB	7	Cardinal JCT	Brockville Chem. JCT	LC
L1MB	8	Brockville Chem. JCT	Brockville TS	OTHER
L1MB	9	Morrisburg JCT	Morrisburg TS	LC
L1MB	10	Cardinal JCT	Enbridge PL Card CTS	LC
L1MB	11	Brockville Chem. JCT	Dyno Nobel CTS	LC
L1MB	13	Casco JCT	Cardinal JCT	LC
L1MB	15	Casco JCT	Cardinal Power CSS	LC
L1S	1	Crystal Falls SS	Verner JCT	DFL

Operation Designation	Section	From	To	Functional Category
L1S	2	Verner JCT	Warren DS	DFL
L1S	3	Warren DS	Coniston TS	DFL
L1S	4	Coniston TS	Sudbury JCT	DFL
L1S	5	Sudbury JCT	Martindale TS	DFL
L1S	6	Sudbury JCT	Milman Foundry JCT	LC
L1S	7	Verner JCT	Verner POLE 45 JCT	LC
L1S	8	Verner POLE 45 JCT	Verner DS	OTHER
L1S	9	Verner POLE 45 JCT	Verner DS	LC
L1S	10	Warren DS	Warren DS	LC
L1S	11	Milman Foundry JCT	Milman Foundry CTS	LC
L1S	12	Milman Foundry JCT	Milman Foundry CTS	LC
L20D	1	Little Long JCT	Smoky Falls JCT	LC
L20D	3	Little Long JCT	Pinard TS	DFL
L20D	4	Little Long SS	Little Long JCT	DFL
L20D	5	Smoky Falls JCT	Harmon JCT	LC
L20D	6	Harmon JCT	Kipling JCT	LC
L20D	7	Kipling JCT	Kipling 2 GS	LC
L20D	8	Harmon JCT	Harmon 2 GS	LC
L20D	10	Smoky Falls JCT	Smoky Falls 2 JCT	LC
L20H	1	St.Lawrence TS	Easton JCT	DFL
L20H	2	Easton JCT	Crosby JCT	DFL
L20H	3	Easton JCT	Brockville TS	LC
L20H	4	Crosby JCT	Hinchinbrooke SS	DFL
L20H	7	Crosby JCT	Crosby TS	LC
L20H	9	Crosby JCT	Crosby TS	LC
L21H	1	St.Lawrence TS	Easton Yule JCT	DFL
L21H	2	Easton Yule JCT	Crosby JCT	DFL
L21H	3	Easton Yule JCT	Smiths Falls TS	LC
L21H	4	Crosby JCT	Hinchinbrooke SS	DFL
L21H	7	Crosby JCT	Crosby TS	LC
L21H	9	Crosby JCT	Crosby TS	OTHER
L21K	1	Lakeview SS	Haig JCT	OTHER
L21K	2	Haig JCT	Applewood JCT	OTHER
L21K	3	Haig JCT	Applewood JCT	OTHER
L21S	1	Little Long SS	Knob JCT	N
L21S	6	A.P. Kapuskasing JCT	Kapuskasing TS	N
L21S	7	Knob JCT	A.P. Kapuskasing JCT	N
L22H	1	St.Lawrence TS	Raisin River JCT	DFL
L22H	2	Raisin River JCT	Easton Yule JCT	DFL
L22H	3	Easton Yule JCT	Easton JCT	DFL
L22H	4	Easton JCT	Hinchinbrooke SS	DFL

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Operation Designation	Section	From	To	Functional Category
L22H	5	Easton JCT	Brockville TS	LC
L22H	6	Easton Yule JCT	Smiths Falls TS	LC
L22K	1	Lakeview SS	Haig JCT	OTHER
L22K	2	Haig JCT	Applewood JCT	OTHER
L22K	3	Haig JCT	Applewood JCT	OTHER
L23CK	1	Lakeview SS	Haig JCT	OTHER
L23CK	2	Haig JCT	Applewood JCT	OTHER
L23CK	3	Haig JCT	Applewood JCT	OTHER
L23N	1	Lambton TS #2	Talford JCT	DFL
L23N	2	Talford JCT	Sarnia Scott TS	DFL
L23N	6	Talford JCT	Dupont JCT	LC
L23N	12	Dupont JCT	Shell Sarnia CTS	LC
L23N	13	Dupont JCT	Nova St Clair R CTS	LC
L24A	1	Raisin River JCT	Hawthorne TS	N
L24A	2	St.Lawrence TS	Raisin River JCT	N
L24CR	1	Lakeview SS	Haig JCT	OTHER
L24CR	2	Haig JCT	Applewood JCT	OTHER
L24CR	3	Haig JCT	Applewood JCT	OTHER
L24L	1	Lambton TS #2	Longwood TS	DFL
L24L	2	Longwood TS	Longwood TS	DFL
L24L	3	Longwood TS	Longwood TS	LC
L25V	1	Lambton TS #2	Nova Moore JCT	DFL
L25V	2	Nova Moore JCT	Nova SS	DFL
L25V	4	Nova Moore JCT	Nova Moore CTS	LC
L26L	1	Lambton TS #2	Longwood TS	DFL
L26L	2	Longwood TS	Longwood TS	DFL
L26L	3	Longwood TS	Longwood TS	LC
L27V	1	Lambton TS #2	Nova Moore JCT	DFL
L27V	2	Nova Moore JCT	Nova SS	DFL
L27V	4	Nova Moore JCT	Nova Moore CTS	LC
L27V	5	Nova SS	Nova Corunna CTS	LC
L27V	6	Nova SS	Nova SS	DFL
L28C	1	Lambton TS #2	Lynwood JCT	DFL
L28C	2	Lynwood JCT	Chatham SS	DFL
L28C	3	Lynwood JCT	Kent TS	LC
L29C	1	Lambton TS #2	East Lk StClair JCT	DFL
L29C	2	Lynwood JCT	Chatham SS	DFL
L29C	3	Lynwood JCT	Kent TS	LC
L29C	4	East Lk StClair JCT	Lynwood JCT	DFL
L29C	5	East Lk StClair JCT	East Lk StClair CGS	LC
L2M	1	Limebank JCT	Limebank JCT	LC

Operation Designation	Section	From	To	Functional Category
L2M	2	Chesterville N. JCT	Marionville JCT	OTHER
L2M	3	Newington JCT	Chesterville S. JCT	LC
L2M	4	St.Lawrence TS	Lunenburg JCT	LC
L2M	5	Lunenburg JCT	Morrisburg JCT	LC
L2M	6	Lunenburg JCT	Newington JCT	LC
L2M	7	Osgoode JCT	Limebank JCT	LC
L2M	8	Morrisburg JCT	Casco JCT	LC
L2M	9	Morrisburg JCT	Morrisburg TS	LC
L2M	10	Brockville Chem. JCT	Dyno Nobel CTS	LC
L2M	11	Brockville Chem. JCT	Brockville TS	OTHER
L2M	12	Casco JCT	Brockville Chem. JCT	LC
L2M	13	Casco JCT	Cardinal Power CSS	LC
L2M	14	Marionville JCT	Osgoode JCT	LC
L2M	15	Osgoode JCT	Russell DS	OTHER
L2M	16	Marionville JCT	Marionville DS	LC
L2M	17	Newington JCT	Newington DS	LC
L2M	19	Chesterville S. JCT	Chesterville TS	LC
L2M	20	Chesterville N. JCT	Chesterville TS	OTHER
L2M	21	Chesterville S. JCT	Chesterville N. JCT	OTHER
L2M	22	Limebank JCT	Limebank JCT	LC
L2M	23	Limebank JCT	Limebank MTS	LC
L2M	24	Limebank JCT	Limebank MTS	LC
L2M	25	Limebank JCT	Merivale TS	LC
L2M	26	Limebank JCT	Limebank MTS	LC
L2Y	1	Leaside TS	Glengrove TS	LC
L33P	1	St.Lawrence TS	Massena JCT	N
L34P	1	St.Lawrence TS	Massena JCT	N
L37G	1	Lambton TS #2	Greenfld Intface JCT	N
L38G	1	Lambton TS #2	Greenfld Intface JCT	N
L3P	1	Lakehead TS	Port Arthur TS #1	N
L4C	1	Leaside TS	Charles TS	LC
L4D	1	Lambton TS #2	Mid R JCT St Cl L4D	N
L4P	1	Lakehead TS	Port Arthur TS #1	N
L4R	1	L4R STR 30 JCT	L4R STR 17 JCT	OTHER
L4S	1	Leaside TS	L4S L5S STR 9 JCT	OTHER
L4S	2	Bermondsey JCT	Scarboro TS	OTHER
L51D	1	Lambton TS #2	Mid R JCT St Cl L51D	N
L51D	3	Lambton TS #2	Lambton TS #2	N
L51D	4	Lambton TS #2	Lambton TS #2	N
L5C	4	St.Lawrence TS	L5C MSO JCT	OTHER
L5D	1	Leaside TS	Duplex TS	LC

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Operation Designation	Section	From	To	Functional Category
L5H	1	Otto Holden TS	North Bay TS	DFL
L5H	2	North Bay TS	Commanda JCT	DFL
L5H	3	Commanda JCT	Crystal Falls SS	DFL
L5H	4	Commanda JCT	Commanda JCT	OTHER
L5H	6	Commanda JCT	Commanda JCT	OTHER
L5S	1	Leaside TS	L4S L5S STR 9 JCT	OTHER
L5S	2	Bermondsey JCT	Scarboro TS	OTHER
L7S	2	Kirkton JCT	Devizes JCT	LC
L7S	3	Seaforth L7S JCT	Goshen JCT	LC
L7S	4	Devizes JCT	Portland JCT	LC
L7S	5	Portland JCT	St.Marys TS	LC
L7S	6	Portland JCT	St.Marys Cement CTS	LC
L7S	7	Devizes JCT	Enbrg Bryanston CTS	LC
L7S	8	Kirkton JCT	Biddulph JCT	LC
L7S	9	Biddulph JCT	Grand Bend East JCT	LC
L7S	10	Grand Bend East JCT	Lake Huron WTP CTS	LC
L7S	11	Biddulph JCT	Centralia TS	LC
L7S	12	Centralia TS	McGillivray R&BP CTS	LC
L7S	13	Seaforth TS	Seaforth L7S JCT	LC
L7S	14	Seaforth L7S JCT	Seaforth LSO JCT	OTHER
L7S	15	Grand Bend East JCT	Grand Bend East DS	LC
L7S	16	Goshen JCT	Kirkton JCT	LC
L7S	17	Goshen JCT	Goshen CSS	LC
L9C	1	Leaside TS	Balfour JCT	LC
L9C	2	Balfour JCT	Charles TS	LC
L9C	3	Charles TS	Cecil TS	LC
M11S	1	G.M.St Cath CTS	McKinnon's JCT	OTHER
M1R	1	Merivale TS	South Gloucester JCT	LC
M1R	2	South Gloucester JCT	Greely JCT	LC
M1R	3	Greely JCT	Russell DS	LC
M1R	4	Greely JCT	Greely DS	LC
M1R	5	South Gloucester JCT	South Gloucester DS	LC
M1R	6	South Gloucester DS	South Gloucester DS	LC
M1R	7	South Gloucester DS	South Gloucester DS	OTHER
M1R	8	Russell DS	Russell DS	LC
M1R	9	Russell DS	Russell DS	LC
M1R	10	Russell DS	Russell DS	OTHER
M1S	1	Moose Lake TS	Valerie Falls JCT	LC
M1S	2	Mill Creek JCT	H2O Pwr SturgFls CGS	LC
M1S	4	Mill Creek JCT	H2O Pwr Calm Lk CGS	LC
M1S	6	Valerie Falls JCT	Mill Creek JCT	LC

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Operation Designation	Section	From	To	Functional Category
M1T	1	Monteith SS	Echo B. Aquarius JCT	OTHER
M1T	2	Gold Centre JCT	Timmins TS	OTHER
M20D	1	Middleport TS	Carluke JCT	DFL
M20D	2	Carluke JCT	Trinity JCT	DFL
M20D	3	Trinity JCT	Galt JCT	DFL
M20D	5	Galt JCT	Kitchener #8 JCT	DFL
M20D	6	Galt JCT	Preston JCT	DFL
M20D	7	Detweiler JCT	Detweiler TS	DFL
M20D	8	Detweiler JCT	Kitchener MTS#6	LC
M20D	9	Preston JCT	Cambridge #1 JCT	DFL
M20D	10	Cambridge #1 JCT	Preston TS	DFL
M20D	11	Cambridge #1 JCT	Cambridge Ndum MTS#1	LC
M20D	12	Kitchener #8 JCT	Detweiler JCT	DFL
M20D	13	Kitchener #8 JCT	Kitchener MTS#8	LC
M20D	15	Preston JCT	Galt TS	LC
M20D	16	Preston TS	Preston TS	DFL
M21D	1	Middleport TS	Carluke JCT	DFL
M21D	2	Carluke JCT	Trinity JCT	DFL
M21D	3	Trinity JCT	Galt JCT	DFL
M21D	5	Galt JCT	Kitchener #8 JCT	DFL
M21D	6	Galt JCT	Ameristeel Cambr JCT	DFL
M21D	7	Ameristeel Cambr JCT	Preston JCT	DFL
M21D	8	Ameristeel Cambr JCT	Ameristeel Cambr CTS	LC
M21D	9	Detweiler JCT	Detweiler TS	DFL
M21D	10	Detweiler JCT	Kitchener MTS#6	LC
M21D	11	Preston JCT	Cambridge #1 JCT	DFL
M21D	12	Cambridge #1 JCT	Preston TS	DFL
M21D	13	Cambridge #1 JCT	Cambridge Ndum MTS#1	LC
M21D	14	Kitchener #8 JCT	Detweiler JCT	DFL
M21D	15	Kitchener #8 JCT	Kitchener MTS#8	LC
M21D	16	Preston TS	Preston TS	DFL
M21D	18	Preston JCT	Galt TS	LC
M23L	1	Marathon TS	Greenwich WF CGS JCT	DFL
M23L	2	Greenwich WF CGS JCT	Lakehead TS	DFL
M23L	4	Greenwich WF CGS JCT	Greenwich LakeWF CSS	LC
M24L	1	Marathon TS	Greenwich WF CGS JCT	DFL
M24L	2	Greenwich WF CGS JCT	Lakehead TS	DFL
M24L	4	Greenwich WF CGS JCT	Greenwich LakeWF CSS	LC
M27B	1	Middleport TS	Carluke JCT	DFL
M27B	2	Carluke JCT	Southcote JCT	DFL
M27B	3	Southcote JCT	Horning JCT	DFL

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Operation Designation	Section	From	To	Functional Category
M27B	4	Horning JCT	Burlington TS	DFL
M27B	5	Horning JCT	Horning TS	LC
M28B	1	Middleport TS	Carluke JCT	DFL
M28B	2	Carluke JCT	Southcote JCT	DFL
M28B	3	Southcote JCT	Horning JCT	DFL
M28B	4	Horning JCT	Burlington TS	DFL
M28B	5	Horning JCT	Horning TS	LC
M2D	1	Ignace JCT	Dryden TS	DFL
M2D	2	Moose Lake TS	Ignace JCT	DFL
M2D	4	Dryden TS	Dryden TS	DFL
M2D	5	Dryden TS	Dryden JCT B	OTHER
M2W	1	Marathon TS	Pic JCT	LC
M2W	2	Pic JCT	Manitouwadge JCT	LC
M2W	4	Manitouwadge JCT	Willroy JCT	LC
M2W	6	Manitouwadge JCT	Manitouwadge JCT B	LC
M2W	7	Willroy JCT	Willroy Mines Ltd	OTHER
M2W	8	Marathon TS	Black River JCT	LC
M2W	9	Williams Mine JCT	Hemlo Mine JCT	LC
M2W	10	Hemlo Mine JCT	White River DS	LC
M2W	15	Marathon TS	Pic DS	LC
M2W	16	Black River JCT	Umbata Falls JCT	LC
M2W	22	Manitouwadge JCT B	Manitouwadge DS #1	LC
M2W	25	Umbata Falls JCT	Williams Mine JCT	LC
M2W	26	Manitouwadge JCT B	Manitouwadge TS	LC
M30A	1	Merivale TS	Albion JCT	DFL
M30A	2	Albion JCT	Ellwood MTS JCT	DFL
M30A	3	Albion JCT	Albion TS	LC
M30A	5	Ellwood MTS JCT	Ellwood MTS	LC
M30A	6	Ellwood MTS JCT	Hawthorne TS	DFL
M31	1	Espanola TS	Eddy Tap A JCT	LC
M31	2	Eddy Tap A JCT	Domtar Espanola CGS	LC
M31A	1	Merivale TS	Albion JCT	DFL
M31A	2	Albion JCT	Ellwood MTS JCT	DFL
M31A	3	Albion JCT	Albion TS	LC
M31A	5	Ellwood MTS JCT	Ellwood MTS	LC
M31A	6	Ellwood MTS JCT	Hawthorne TS	DFL
M31W	1	Middleport TS	Carluke JCT	DFL
M31W	2	Carluke JCT	Salford JCT	DFL
M31W	3	Salford JCT	Buchanan TS	DFL
M31W	4	Salford JCT	Ingersoll JCT	LC
M31W	5	Ingersoll JCT	Ingersoll TS	LC

Operation Designation	Section	From	To	Functional Category
M31W	6	Ingersoll JCT	Karn TS	LC
M32S	1	Merivale TS	Nepean TS	DFL
M32S	2	Nepean TS	South March TS	DFL
M32S	3	South March TS	Kanata MTS #1	LC
M32W	1	Middleport TS	Carluka JCT	DFL
M32W	2	Carluka JCT	Newport JCT	DFL
M32W	3	Newport JCT	Salford JCT	DFL
M32W	4	Salford JCT	Buchanan TS	DFL
M32W	5	Newport JCT	Brantford TS	LC
M32W	6	Salford JCT	Ingersoll JCT	LC
M32W	7	Ingersoll JCT	Ingersoll TS	LC
M32W	8	Ingersoll JCT	Karn TS	LC
M33W	1	Middleport TS	Carluka JCT	DFL
M33W	2	Carluka JCT	Newport JCT	DFL
M33W	3	Newport JCT	Salford JCT	DFL
M33W	4	Salford JCT	Buchanan TS	DFL
M33W	5	Newport JCT	Brantford TS	LC
M34H	1	Middleport TS	Carluka JCT	N
M34H	2	Carluka JCT	Southcote JCT	N
M34H	3	Southcote JCT	Neale JCT	N
M34H	4	Neale JCT	Hannon JCT	N
M34H	5	Hannon JCT	Beach TS	N
M3E	1	Manitou Falls GS	Ear Falls TS	LC
M4G	1	Merivale TS	Nepean Epworth JCT	LC
M4G	2	Nepean Epworth JCT	Ottawa JCT	LC
M4G	3	Carling TS	Lisgar TS	LC
M4G	4	Lisgar TS	Slater TS	LC
M4G	5	Ottawa JCT	Carling TS	LC
M4G	6	Nepean Epworth JCT	Nepean Epworth MTS	LC
M570V	1	Milton SS	Claireville TS	N
M571V	1	Milton SS	Claireville TS	N
M572T	1	Milton SS	Trafalgar TS	N
M573T	1	Milton SS	Trafalgar TS	N
M585M	1	Middleport TS	Milton SS	N
M5G	1	Merivale TS	Nepean Epworth JCT	LC
M5G	2	Nepean Epworth JCT	Ottawa JCT	LC
M5G	3	Carling TS	Lisgar TS	LC
M5G	4	Ottawa JCT	Carling TS	LC
M5G	5	Nepean Epworth JCT	Nepean Epworth MTS	LC
M6E	1	Minden TS	Cooper's Falls JCT	DFL
M6E	2	Cooper's Falls JCT	Orillia TS	DFL

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Operation Designation	Section	From	To	Functional Category
M6E	3	Orillia TS	Midhurst TS	DFL
M6E	4	Cooper's Falls JCT	Bracebridge JCT	LC
M6E	5	Midhurst TS	Essa TS	DFL
M6E	6	Bracebridge JCT	Muskoka TS	LC
M6E	7	Bracebridge JCT	Bracebridge TS	LC
M7E	1	Minden TS	Cooper's Falls JCT	DFL
M7E	2	Cooper's Falls JCT	Orillia TS	DFL
M7E	3	Orillia TS	Midhurst TS	DFL
M7E	4	Cooper's Falls JCT	Bracebridge JCT	LC
M7E	5	Midhurst TS	Essa TS	DFL
M7E	6	Bracebridge JCT	Muskoka TS	LC
M80B	1	Minden TS	Beaverton JCT	DFL
M80B	2	Beaverton JCT	Beaver JCT	DFL
M80B	3	Beaver JCT	Brown Hill TS	DFL
M80B	5	Beaverton JCT	Lindsay TS	LC
M80B	6	Beaver JCT	Beaverton TS	LC
M81B	1	Minden TS	Beaverton JCT	DFL
M81B	2	Beaverton JCT	Beaver JCT	DFL
M81B	3	Beaver JCT	Brown Hill TS	DFL
M81B	5	Beaverton JCT	Lindsay TS	LC
M81B	6	Beaver JCT	Beaverton TS	LC
M9K	1	Moosonee DS	Moosonee JCT	LC
M9K	2	Moosonee JCT	Moosonee JCT	LC
M9K	3	Moosonee JCT	Moosonee SS	LC
M9K	4	Moosonee JCT	Moosonee DS	LC
M9K	5	Moosonee JCT	Moosonee DS	LC
N1S	1	Sarnia Scott TS	Vidal JCT	LC
N1S	3	Vidal JCT	Suncor CTS	LC
N20K	1	Nanticoke TS	Imp Oil Nanticok JCT	DFL
N20K	2	Imp Oil Nanticok JCT	Sandusk JCT	DFL
N20K	3	Sandusk JCT	Sandusk SS	DFL
N20K	4	Imp Oil Nanticok JCT	Imp Oil Nanticok JCT	LC
N21J	1	Nanticoke TS	U.S. Steel Nant JCT	LC
N21J	2	U.S. Steel Nant JCT	Jarvis TS	LC
N21J	3	U.S. Steel Nant JCT	Nanticoke Creek JCT	LC
N21W	1	Sarnia Scott TS	Lucasville JCT	DFL
N21W	2	Lucasville JCT	Bostwick Road JCT	DFL
N21W	3	Bostwick Road JCT	Buchanan TS	DFL
N21W	4	Lucasville JCT	Plank Road JCT	LC
N21W	5	Bostwick Road JCT	Wonderland TS	LC
N21W	6	Plank Road JCT	Confederation Rd JCT	LC

Operation Designation	Section	From	To	Functional Category
N21W	7	Confederation Rd JCT	Modeland TS	LC
N22J	1	Nanticoke TS	U.S. Steel Nant JCT	LC
N22J	2	U.S. Steel Nant JCT	Jarvis TS	LC
N22J	3	U.S. Steel Nant JCT	Nanticoke Creek JCT	LC
N22W	1	Sarnia Scott TS	Lucasville JCT	DFL
N22W	2	Lucasville JCT	Bostwick Road JCT	DFL
N22W	3	Bostwick Road JCT	Buchanan TS	DFL
N22W	4	Lucasville JCT	Plank Road JCT	LC
N22W	5	Bostwick Road JCT	Wonderland TS	LC
N22W	6	Plank Road JCT	Confederation Rd JCT	LC
N22W	7	Confederation Rd JCT	Modeland TS	LC
N37S	1	Nanticoke TS	Summerhaven SS	N
N4S	1	Sarnia Scott TS	Vidal JCT	LC
N4S	3	Vidal JCT	Suncor CTS	LC
N580M	1	Nanticoke TS	Middleport TS	N
N581M	1	Nanticoke TS	Middleport TS	N
N582L	1	Nanticoke TS	Longwood TS	N
N5K	1	Wallaceburg TS	Kent TS	OTHER
N5K	2	Kimball JCT	Wallaceburg TS	LC
N5K	3	Sarnia Scott TS	Kimball JCT	LC
N5M	1	Nanticoke TS	Grand JCT	DFL
N5M	2	Caledonia JCT	Middleport TS	DFL
N5M	3	Caledonia JCT	Caledonia TS	LC
N5M	4	Grand JCT	Caledonia JCT	DFL
N5M	5	Grand JCT	Grand CSS	LC
N6C	1	Sarnia Scott TS	St.Andrews TS	LC
N6M	1	Nanticoke TS	Caledonia JCT	DFL
N6M	2	Caledonia JCT	Middleport TS	DFL
N6M	3	Caledonia JCT	Caledonia TS	LC
N6S	1	Sarnia Scott TS	Sarnia Scott JCT	LC
N6S	2	Sarnia Scott JCT	Vidal JCT	OTHER
N6S	3	Sarnia Scott JCT	Lanxess Inc JCT	LC
N6S	4	Lanxess Inc JCT	TransAlta Energy JCT	LC
N6S	5	Lanxess Inc JCT	Lanxess Inc CTS	LC
N6S	7	TransAlta Energy JCT	Imperial Oil CTS	LC
N6S	9	TransAlta Energy JCT	TransAlta Energy JCT	LC
N7C	1	Sarnia Scott TS	St.Andrews TS	LC
N7S	1	Sarnia Scott TS	Sarnia Scott JCT	LC
N7S	2	Sarnia Scott JCT	Lanxess Inc JCT	LC
N7S	3	Lanxess Inc JCT	TransAlta Energy JCT	LC
N7S	4	TransAlta Energy JCT	Imperial Oil CTS	LC

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Operation Designation	Section	From	To	Functional Category
N7S	5	Lanxess Inc JCT	Lanxess Inc CTS	LC
N7S	7	TransAlta Energy JCT	TransAlta Energy JCT	LC
N93A	1	Atikokan TGS	Marmion Lake JCT	LC
N93A	2	Marmion Lake JCT	Mackenzie TS	LC
NA12M6	1	Buttonville TS	Gormley JCT	OTHER
NA41M31	1	Armitage TS	Old Armitage JCT	OTHER
NA41M31	2	Old Armitage JCT	Gormley JCT	OTHER
NA41M42	1	Holland Marsh JCT	West Gwillimby JCT	OTHER
NA54M14	1	O1S STR 141 JCT	O1S STR 131A JCT	OTHER
NA54M14	2	O1S STR 128 JCT	O1S STR 119 JCT	OTHER
NA64M28	1	Alford JCT	Mohawk Str 31 EP JCT	OTHER
NA70M2	1	Clarke L7S-70M2 JCT	Prospect L7S-70M2JCT	OTHER
NAF5M16	1	MacPherson Road JCT	Kent TS	OTHER
NAF5M16	2	MacPherson Road JCT	Kent TS	OTHER
NAL23M5	1	Crosby S1K JCT	Newboro DS	OTHER
NAL23M6	1	Crosby S1K JCT	Elgin JCT	OTHER
NAL82M28	1	Smiths Falls TS	Jasper DS	OTHER
NAR43M21	1	Warden TS	Lumsden JCT	OTHER
NAR43M21	2	Lumsden JCT	Todmorden JCT	OTHER
NAR43M31	1	Warden TS	Lumsden JCT	OTHER
NAR43M32	1	Warden TS	Lumsden JCT	OTHER
NF3M11	1	Toronto Power TS	Drummond Road JCT	OTHER
O1S	2	O1S STR 119 JCT	O1S STR 105 JCT	OTHER
P13T	1	Porcupine TS	Timmins TS	N
P15C	1	Dobbin TS	Cherrywood TS	N
P15T	1	Porcupine TS	Timmins TS	N
P1P	1	Port Arthur TS #1	Port Arthur JCT	OTHER
P1T	1	Port Arthur TS #1	TBPI Thunder Bay JCT	OTHER
P1T	2	TBPI Thunder Bay JCT	TBPI Thunder Bay CTS	OTHER
P1T	3	TBPI Thunder Bay JCT	TBPI Thunder Bay JCT	OTHER
P1T	4	TBPI Thunder Bay JCT	TBPI Thunder Bay CTS	OTHER
P21G	1	Mississagi TS	P21G POLE 6 JCT	N
P21R	1	Parkway TS	Markham #1 JCT	DFL
P21R	2	Markham #1 JCT	IBM Markham JCT	DFL
P21R	3	IBM Markham JCT	Leaside JCT	DFL
P21R	4	Leaside JCT	Leslie East JCT	DFL
P21R	5	Leslie East JCT	Leslie West JCT	DFL
P21R	6	Leslie West JCT	Finch JCT	DFL
P21R	7	Finch JCT	Richview TS	DFL
P21R	8	Markham #1 JCT	Markham MTS #1	LC
P21R	9	IBM Markham JCT	IBM Markham CTS	LC

Operation Designation	Section	From	To	Functional Category
P21R	10	Leslie East JCT	Leslie TS	LC
P21R	11	Leslie West JCT	Leslie TS	LC
P21R	12	Finch JCT	Finch TS	LC
P22R	1	Parkway TS	Markham #1 JCT	DFL
P22R	2	Markham #1 JCT	IBM Markham JCT	DFL
P22R	3	IBM Markham JCT	Leaside JCT	DFL
P22R	4	Leaside JCT	Bathurst JCT	DFL
P22R	5	Bathurst JCT	Finch JCT	DFL
P22R	6	Finch JCT	Richview TS	DFL
P22R	7	Markham #1 JCT	Markham MTS #1	LC
P22R	8	Bathurst JCT	Bathurst TS	LC
P22R	9	Finch JCT	Finch TS	LC
P22R	10	IBM Markham JCT	IBM Markham CTS	LC
P25W	1	Mississagi TS	Aubrey Falls JCT	DFL
P25W	2	Aubrey Falls JCT	Wawa TS	DFL
P25W	3	Aubrey Falls JCT	Aubrey Falls CGS	LC
P26W	1	Mississagi TS	Aubrey Falls JCT	DFL
P26W	2	Aubrey Falls JCT	Wawa TS	DFL
P26W	3	Aubrey Falls JCT	Aubrey Falls CGS	LC
P27C	1	Pickering B SS	Cherrywood TS	LC
P2O	1	P2O STR 100 JCT	P2O STR 24A JCT	OTHER
P30C	1	Pickering B SS	Cherrywood TS	LC
P31C	1	Pickering B SS	Cherrywood TS	LC
P32C	1	Pickering B SS	Cherrywood TS	LC
P33C	2	IPB Ottawa River JCT	Chats Falls SS	N
P3B	1	Port Arthur TS #1	Birch TS	N
P3S	1	Dobbin TS	Dale JCT	DFL
P3S	3	Dale JCT	Sidney TS	DFL
P3S	6	Dale JCT	Port Hope TS	LC
P45	1	Parkway TS	Markham #4 JCT	LC
P45	2	Markham #4 JCT	Buttonville TS	LC
P45	3	Markham #4 JCT	Markham MTS #4	LC
P46	1	Parkway TS	Markham #4 JCT	LC
P46	2	Markham #4 JCT	Buttonville TS	LC
P46	3	Markham #4 JCT	Markham MTS #4	LC
P4S	1	Dobbin TS	Dobbin DS	DFL
P4S	2	Dale JCT	Vernonville JCT	DFL
P4S	3	Vernonville JCT	Hilton JCT	DFL
P4S	4	Hilton JCT	Sidney TS	DFL
P4S	5	Dale JCT	Port Hope TS	LC
P4S	6	Vernonville JCT	TCPL Cobourg CTS	LC

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Operation Designation	Section	From	To	Functional Category
P4S	7	Hilton JCT	Enbridge PL Hilt CTS	LC
P4S	9	Dobbin DS	Dale JCT	DFL
P4S	10	Dobbin DS	Dobbin DS	LC
P502X	1	Porcupine TS	Hanmer TS	N
P5M	1	Port Arthur TS #1	Conmee JCT	LC
P5M	4	P5M STR 603 JCT	P5M STR 608 JCT	OTHER
P5M	6	P5M STR 621 JCT	P5M STR 626 JCT	OTHER
P6C	1	Pickering A SS	Cherrywood TS	LC
P7B	1	Port Arthur TS #1	Birch TS	N
P7C	1	Pickering A SS	Cherrywood TS	LC
P7G	1	Porcupine TS	Dome Site JCT	LC
P7G	2	Dome Site JCT	Gold Centre JCT	LC
P7G	3	Ecstall JCT	Kidd Contractor CTS	OTHER
P7G	4	Ecstall JCT	Kidd Creek Mine JCT	OTHER
P7G	5	Kidd Creek Mine JCT	Kidd Zinc Refin CTS	OTHER
P7G	6	Kidd Creek Mine JCT	Kidd Metsite CTS	OTHER
P7G	8	Hoyle JCT	Hoyle Pond Site JCT	LC
P7G	9	Hoyle JCT	Hoyle DS	LC
P7G	10	Pamour JCT	Hoyle JCT	LC
P7G	11	Pamour JCT	Royal Oak CTS	OTHER
P7G	12	Hoyle Pond Site JCT	Ecstall JCT	OTHER
P7G	14	Gold Centre JCT	Bell Creek JCT	LC
P7G	15	Gold Centre JCT	Echo B. Aquarius JCT	OTHER
P7G	17	Bell Creek JCT	Pamour JCT	LC
P7G	18	Bell Creek JCT	Bell Creek CTS	LC
P8C	1	Pickering A SS	Cherrywood TS	LC
P91G	1	Porcupine TS	Erg Resources JCT	DFL
P91G	2	Erg Resources JCT	Hoyle JCT	DFL
P91G	3	Erg Resources JCT	Erg Resources CTS	OTHER
P91G	4	Hoyle JCT	Kidd Metsite CTS	LC
P91G	5	Hoyle JCT	Ansonville JCT	DFL
P91G	6	Ansonville JCT	Ansonville TS	DFL
P9C	1	Pickering A SS	Cherrywood TS	LC
PA27	1	Beck #2 TS	Mid R. JCT Niagara	N
PA301	1	Beck #2 TS	Beck #2 TS	N
PA301	2	Beck #2 TS	Mid R JCT Niagra 345	N
PA302	1	Beck #2 TS	Beck #2 TS	N
PA302	2	Beck #2 TS	Mid R JCT Niagra 345	N
PS4	1	Lambton TS #2	Lambton TS #2	OTHER
PS51	1	Lambton TS #2	Lambton TS #2	OTHER
Q10M	3	McKinnon's JCT	G.M.St Cath CTS	OTHER

Operation Designation	Section	From	To	Functional Category
Q10P	1	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	LC
Q10P	2	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	OTHER
Q10P	3	Abit Cons NAN91 JCT	Q10P STR 9 JCT	LC
Q11S	1	Beck #1 SS	Warner Road JCT	LC
Q11S	2	Warner Road JCT	NOTL York MTS #1 JCT	LC
Q11S	3	McKinnon's JCT	Glendale JCT	LC
Q11S	4	Glendale JCT	Glendale TS	LC
Q11S	5	Warner Road JCT	N.O.T.L. MTS #2	LC
Q11S	6	Glendale JCT	Bunting TS	LC
Q11S	7	Warner Road JCT	Warner Road JCT	OTHER
Q11S	8	NOTL York MTS #1 JCT	McKinnon's JCT	LC
Q12S	1	Beck #1 SS	Warner Road JCT	LC
Q12S	2	Glendale JCT	Glendale TS	LC
Q12S	3	Glendale JCT	Bunting TS	LC
Q12S	4	NOTL York MTS #1 JCT	Glendale JCT	LC
Q12S	5	NOTL York MTS #1 JCT	N.O.T.L. York MTS #1	LC
Q12S	6	Warner Road JCT	NOTL York MTS #1 JCT	LC
Q12S	7	NOTL York MTS #1 JCT	NOTL York MTS #1 JCT	OTHER
Q1N	1	Beck #1 SS	Dresser JCT	OTHER
Q1N	3	Niagara JCT	Niagara TS	OTHER
Q21P	1	Beck #2 TS	Beck Pump Storage GS	LC
Q22P	1	Beck #2 TS	Beck Pump Storage GS	LC
Q23BM	1	Beck #2 TS	Niagara West JCT	DFL
Q23BM	3	Hannon JCT	Neale JCT	DFL
Q23BM	4	Neale JCT	Southcote JCT	DFL
Q23BM	5	Southcote JCT	Mount Hope JCT	DFL
Q23BM	6	Mount Hope JCT	Carluke JCT	DFL
Q23BM	7	Carluke JCT	Middleport TS	DFL
Q23BM	8	Neale JCT	Burlington TS	DFL
Q23BM	9	Burlington TS	Burlington TS	DFL
Q23BM	10	Burlington TS	Burlington TS	LC
Q23BM	11	Niagara West JCT	Hannon JCT	DFL
Q23BM	12	Niagara West JCT	Niagara West MTS	LC
Q24HM	1	Beck #2 TS	Hannon JCT	DFL
Q24HM	3	Hannon JCT	Nebo JCT	DFL
Q24HM	4	Neale JCT	Southcote JCT	DFL
Q24HM	5	Southcote JCT	Trinity JCT	DFL
Q24HM	6	Trinity JCT	Carluke JCT	DFL
Q24HM	7	Carluke JCT	Middleport TS	DFL
Q24HM	8	Hannon JCT	Beach TS	DFL
Q24HM	9	Nebo JCT	Neale JCT	DFL

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Operation Designation	Section	From	To	Functional Category
Q24HM	10	Beach TS	Dof.Kenilworth CTS	LC
Q24HM	11	Nebo JCT	Nebo TS	LC
Q25BM	1	Beck #2 TS	Niagara West JCT	DFL
Q25BM	3	Hannon JCT	Neale JCT	DFL
Q25BM	4	Neale JCT	Southcote JCT	DFL
Q25BM	5	Southcote JCT	Mount Hope JCT	DFL
Q25BM	6	Mount Hope JCT	Carluke JCT	DFL
Q25BM	7	Carluke JCT	Middleport TS	DFL
Q25BM	8	Neale JCT	Burlington TS	DFL
Q25BM	9	Burlington TS	Burlington TS	DFL
Q25BM	10	Burlington TS	Burlington TS	LC
Q25BM	11	Niagara West JCT	Hannon JCT	DFL
Q25BM	12	Niagara West JCT	Niagara West MTS	LC
Q26M	1	Beck #2 TS	Abit Cons NAN91 JCT	LC
Q26M	2	Abit Cons NAN91 JCT	Crossline JCT	LC
Q26M	3	Crossline JCT	Allanburg TS	LC
Q26M	4	Allanburg West JCT	Middleport TS	OTHER
Q26M	5	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	OTHER
Q26M	6	Crossline JCT	Allanburg West JCT	OTHER
Q28A	1	Beck #2 TS	Abit Cons NAN91 JCT	LC
Q28A	2	Abit Cons NAN91 JCT	Allanburg TS	LC
Q28A	3	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	LC
Q29HM	1	Beck #2 TS	Hannon JCT	DFL
Q29HM	3	Hannon JCT	Nebo JCT	DFL
Q29HM	4	Neale JCT	Southcote JCT	DFL
Q29HM	5	Southcote JCT	Carluke JCT	DFL
Q29HM	6	Carluke JCT	Middleport TS	DFL
Q29HM	7	Hannon JCT	Beach TS	DFL
Q29HM	8	Nebo JCT	Neale JCT	DFL
Q29HM	9	Beach TS	Dof.Kenilworth CTS	LC
Q29HM	10	Nebo JCT	Nebo TS	LC
Q2A	1	Beck #1 Q2AH JCT	Crossline JCT	OTHER
Q2AH	1	Beck #1 Q2AH JCT	Holland Road JCT	LC
Q2AH	2	Holland Road JCT	Allanburg TS	LC
Q2AH	3	Holland Road JCT	St.Johns Valley JCT	LC
Q2AH	4	St.Johns Valley JCT	Pelham JCT	LC
Q2AH	5	St.Anns JCT	Dunnville TS	LC
Q2AH	8	Pelham JCT	Rosedene JCT	LC
Q2AH	9	Rosedene JCT	St.Anns JCT	LC
Q2AH	11	St.Anns JCT	Caistor JCT	OTHER
Q2AH	12	Caistor JCT	IPPL Smithville CTS	OTHER

Operation Designation	Section	From	To	Functional Category
Q2AH	13	Caistor JCT	Railway JCT	OTHER
Q2AH	14	Railway JCT	Glanford JCT	OTHER
Q2AH	15	St.Johns Valley JCT	Louth JCT	LC
Q2AH	16	Louth JCT	Cherry JCT	LC
Q2AH	17	Cherry JCT	Beamsville TS	LC
Q2AH	18	Beamsville TS	Winona JCT	OTHER
Q2AH	19	Saltfleet JCT	Beach TS	LC
Q2AH	20	Cherry JCT	Vineland DS	LC
Q2AH	21	St.Anns JCT	St.Anns JCT	LC
Q2AH	22	Winona JCT	Saltfleet JCT	LC
Q2AH	23	Winona JCT	Winona TS	LC
Q2AH	24	Winona JCT	Winona TS	LC
Q2AH	25	Beck #1 SS	Beck #1 Q2AH JCT	OTHER
Q2AH	26	Beck #1 SS	Beck #1 Q2AH JCT	LC
Q2AH	27	St.Anns JCT	St.Anns JCT	OTHER
Q30M	1	Beck #2 TS	Allanburg Q30M JCT	DFL
Q30M	3	Allanburg Q30M JCT	Mount Hope JCT	DFL
Q30M	4	Mount Hope JCT	Carluke JCT	DFL
Q30M	5	Carluke JCT	Middleport TS	DFL
Q30M	6	Allanburg Q30M JCT	Allanburg TS	LC
Q35M	1	Beck #2 TS	Abit Cons NAN91 JCT	LC
Q35M	2	Abit Cons NAN91 JCT	Crossline JCT	LC
Q35M	3	Crossline JCT	Allanburg TS	LC
Q35M	4	Allanburg West JCT	St.Anns JCT	OTHER
Q35M	5	St.Anns JCT	Caledonia Q35M JCT	OTHER
Q35M	6	Caledonia Q35M JCT	Middleport TS	OTHER
Q35M	7	Crossline JCT	Allanburg West JCT	OTHER
Q35M	8	St.Anns JCT	St.Anns JCT	OTHER
Q35M	9	Caledonia Q35M JCT	Caledonia Q35M JCT	OTHER
Q3K	1	Cataraqui TS	Westbrook JCT	LC
Q3K	2	Westbrook JCT	Frontenac TS	LC
Q3M6	1	Frontenac TS	Novelis CTS	LC
Q3N	1	Beck #1 SS	Portal JCT	LC
Q3N	2	Portal JCT	Dresser JCT	LC
Q3N	3	Dresser JCT	Niagara JCT	LC
Q3N	4	Niagara JCT	Murray TS	LC
Q3N	5	Portal JCT	Stanley TS	LC
Q3N	6	Dresser JCT	Trei-bacher JCT	OTHER
Q3NC	1	Canal JCT	Portal JCT	OTHER
Q4B	1	Thunder Bay SS	Abitibi JCT	OTHER
Q4B	2	Abitibi JCT	James Street JCT	OTHER

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Operation Designation	Section	From	To	Functional Category
Q4B	3	James Street JCT	St.Paul JCT	LC
Q4B	4	St.Paul JCT	Walsh Street JCT	LC
Q4B	5	Walsh Street JCT	Birch TS	LC
Q4B	6	James Street JCT	ResFP Thundr Bay CTS	LC
Q4B	7	St.Paul JCT	ResFP Kraft CTS	OTHER
Q4B	8	Walsh Street JCT	Fort William TS	LC
Q4C	2	IPB Ottawa River JCT	Chats Falls SS	N
Q4N	1	Beck #1 SS	Portal JCT	LC
Q4N	2	Portal JCT	Stanley TS	LC
Q4N	3	Portal JCT	Dresser JCT	LC
Q4N	4	Dresser JCT	Niagara JCT	LC
Q4N	6	Dresser JCT	Trei-bacher JCT	OTHER
Q4N	8	Niagara JCT	Murray TS	LC
Q5B	1	Thunder Bay SS	Abitibi JCT	LC
Q5B	2	Abitibi JCT	James Street JCT	LC
Q5B	3	James Street JCT	St.Paul JCT	LC
Q5B	4	St.Paul JCT	Walsh Street JCT	LC
Q5B	5	Walsh Street JCT	Birch TS	LC
Q5B	6	Abitibi JCT	Erco JCT	OTHER
Q5B	7	Erco JCT	Q5B STR A6 JCT	OTHER
Q5B	8	James Street JCT	ResFP Thundr Bay CTS	OTHER
Q5B	9	St.Paul JCT	ResFP Kraft CTS	LC
Q5B	10	Walsh Street JCT	Fort William TS	LC
Q5G	1	Beck #1 SS	Holland Road JCT	OTHER
Q5G	2	Holland Road JCT	Beamsville TS	OTHER
Q5G	3	Beamsville TS	Beach JCT	OTHER
Q5G	4	Beach JCT	Gage TS	OTHER
Q6A	1	Beck #1 SS	Crossline JCT	OTHER
Q6N	1	Selby JCT	Napanee TS	OTHER
Q6S	1	Cataraqui TS	Westbrook JCT	DFL
Q6S	2	Westbrook JCT	Odessa JCT	DFL
Q6S	3	Odessa JCT	Selby JCT	DFL
Q6S	4	Selby JCT	Milltown JCT	DFL
Q6S	5	Milltown JCT	Sidney TS	DFL
Q6S	6	Odessa JCT	Invista JCT	LC
Q6S	7	Invista JCT	Q6S STR M60 JCT	OTHER
Q6S	9	Milltown JCT	TCPL Belleville CTS	LC
Q8B	1	Thunder Bay SS	Birch TS	LC
Q9B	1	Thunder Bay SS	Birch TS	LC
R13K	1	Richview TS	Manby TS	LC
R13K	2	Manby TS	Manby TS	LC

Operation Designation	Section	From	To	Functional Category
R13K	3	Manby TS	Vansco JCT	LC
R13K	4	Vansco JCT	Horner TS	LC
R14T	1	Richview TS	Tomken JCT	DFL
R14T	2	Tomken JCT	Erindale JCT	DFL
R14T	3	Erindale JCT	Trafalgar TS	DFL
R14T	5	Erindale JCT	Erindale TS	LC
R14T	6	Tomken JCT	Tomken TS	LC
R15K	1	Richview TS	Manby TS	LC
R17T	1	Richview TS	Tomken JCT	DFL
R17T	2	Tomken JCT	Erindale JCT	DFL
R17T	3	Erindale JCT	Trafalgar TS	DFL
R17T	5	Erindale JCT	Erindale TS	LC
R17T	6	Tomken JCT	Tomken TS	LC
R19TH	1	Richview TS	Tomken JCT	DFL
R19TH	2	Tomken JCT	Hanlan JCT	DFL
R19TH	3	Hanlan JCT	Erindale JCT	DFL
R19TH	4	Erindale JCT	Churchill MeadowsJCT	DFL
R19TH	5	Hanlan JCT	Hurontario SS	DFL
R19TH	6	Erindale JCT	Erindale TS	LC
R19TH	7	Tomken JCT	Tomken TS	LC
R19TH	8	Hurontario SS	Hurontario SS	DFL
R19TH	9	Hurontario SS	Jim Yarrow MTS	LC
R19TH	10	Churchill MeadowsJCT	Trafalgar TS	DFL
R1K	1	Richview TS	Manby TS	LC
R1LB	1	Pine Portage SS	Lakehead TS	N
R1LB	2	Lakehead TS	Birch TS	N
R1LB	3	Lakehead TS	Lakehead TS	N
R21D	1	Otter Rapids SS	Pinard JCT	LC
R21D	2	Pinard JCT	Pinard TS	LC
R21D	3	Pinard JCT	Abitibi Canyon GS	LC
R21D	4	Otter Rapids GS	Otter Rapids SS	LC
R21TH	1	Richview TS	Tomken JCT	DFL
R21TH	2	Tomken JCT	Hanlan JCT	DFL
R21TH	3	Hanlan JCT	Erindale JCT	DFL
R21TH	4	Erindale JCT	Churchill MeadowsJCT	DFL
R21TH	5	Hanlan JCT	Hurontario SS	DFL
R21TH	6	Erindale JCT	Erindale TS	LC
R21TH	7	Tomken JCT	Tomken TS	LC
R21TH	8	Hurontario SS	Hurontario SS	DFL
R21TH	9	Hurontario SS	Jim Yarrow MTS	LC
R21TH	10	Churchill MeadowsJCT	Trafalgar TS	DFL

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Operation Designation	Section	From	To	Functional Category
R21TH	11	Churchill MeadowsJCT	Churchill Meadows TS	LC
R24C	1	Richview TS	Applewood JCT	LC
R24C	2	Applewood JCT	Cooksville TS	LC
R2K	1	Richview TS	Manby TS	LC
R2K	2	Manby TS	Vansco JCT	LC
R2K	3	Vansco JCT	Horner TS	LC
R2K	4	Manby TS	Manby TS	LC
R2LB	1	Pine Portage SS	Lakehead TS	N
R2LB	2	Lakehead TS	Birch TS	N
R2LB	3	Lakehead TS	Lakehead TS	N
R9A	1	Pine Portage SS	Alexander SS	DFL
R9A	2	Alexander SS	Alexander GS	LC
R9A	3	Alexander SS	Alexander SS	DFL
S1C	1	Conmee JCT	Lac Des Iles JCT	LC
S1C	2	Lac Des Iles JCT	Silver Falls GS	LC
S1C	6	Lac Des Iles JCT	Lac Des Iles Min CSS	LC
S1H	1	Owen Sound TS	Hanover TS	N
S1K	4	Battersea DS	Frontenac TS	LC
S1R	1	S1R STR 1A JCT	S1R STR 24 JCT	OTHER
S21N	1	Martindale TS	Vale Frd Stbe #2 JCT	LC
S21N	2	Vale Frd Stbe #2 JCT	Vale Copper #4 CTS	LC
S21N	3	Vale Frd Stbe #2 JCT	Vale Frd Stbe #2 CTS	OTHER
S22A	1	Martindale TS	Clarabelle JCT	DFL
S22A	2	Clarabelle JCT	Algoma TS	DFL
S22A	3	Clarabelle JCT	Clarabelle TS	LC
S24V	1	Orangeville TS	Shannon CSS	LC
S25L	2	Saunders JCT	St.Lawrence TS	LC
S26L	2	Saunders JCT	St.Lawrence TS	LC
S2B	1	Martindale TS	Copper Cliff JCT	LC
S2B	2	Copper Cliff JCT	Creighton JCT	LC
S2B	3	Creighton JCT	Vermillion JCT	LC
S2B	4	Vermillion JCT	Ethel Lake JCT	LC
S2B	5	Ethel Lake JCT	Turbine JCT	LC
S2B	7	Turbine JCT	Eacom Nairn Ctr JCT	LC
S2B	8	Eacom Nairn Ctr JCT	Espanola JCT	LC
S2B	9	Espanola JCT	Eddy Tap JCT	LC
S2B	10	Espanola A JCT	Espanola TS	OTHER
S2B	11	Espanola TS	Baldwin JCT	LC
S2B	12	Baldwin JCT	Massey JCT	LC
S2B	13	Massey JCT	Cameron Falls JCT	LC
S2B	14	Cutler JCT	Serpent River JCT	LC

Operation Designation	Section	From	To	Functional Category
S2B	15	Vermillion JCT	Lockerby Mine CTS	LC
S2B	16	Ethel Lake JCT	Whitefish DS	LC
S2B	19	Espanola A JCT	McLeans Mtn JCT	LC
S2B	20	Massey JCT	Massey DS	LC
S2B	23	Eacom Nairn Ctr JCT	Eacom Nairn Ctr CTS	LC
S2B	24	Spanish JCT	Cutler JCT	LC
S2B	25	Serpent River JCT	Carmeuse Lime JCT	LC
S2B	27	Carmeuse Lime JCT	Blind River TS JCT	LC
S2B	30	Cameron Falls JCT	Spanish JCT	LC
S2B	32	Espanola JCT	Baldwin JCT	OTHER
S2B	33	Blind River TS JCT	Algoma TS	LC
S2B	35	Eddy Tap JCT	Espanola A JCT	LC
S2B	37	Eddy Tap JCT	Eddy Tap A JCT	OTHER
S2B	38	Creighton JCT	Nickel Basin JCT	OTHER
S2B	39	Spanish JCT	Spanish DS	LC
S2B	40	McLeans Mtn JCT	Manitoulin TS	LC
S2B	41	McLeans Mtn JCT	McLeans Mtn CSS	LC
S2E	1	Essa JCT	Essa TS	OTHER
S2N	1	Strathroy TS	Sydenham JCT	LC
S2N	2	Sydenham JCT	Adelaide JCT	LC
S2N	3	Adelaide JCT	Kerwood JCT	OTHER
S2N	4	Kerwood JCT	Ennisbrook JCT	LC
S2N	5	Ennisbrook JCT	Wanstead JCT	LC
S2N	6	Wanstead JCT	Sarnia Scott TS	LC
S2N	7	Adelaide JCT	Landon JCT	LC
S2N	8	Kerwood JCT	Sun Cdn Pipeline CTS	LC
S2N	9	Ennisbrook JCT	Forest Jura DS	LC
S2N	10	Wanstead JCT	Wanstead TS	LC
S2N	11	Wanstead TS	Wanstead JCT	LC
S2N	12	Wanstead TS	Wanstead JCT	LC
S2N	13	Landon JCT	Enbrg Keyser CTS	LC
S2N	14	Landon JCT	Landon CGS	LC
S2S	1	Owen Sound TS	Meaford TS	DFL
S2S	2	Meaford TS	Stayner TS	DFL
S30L	2	Saunders JCT	St.Lawrence TS	LC
S32L	2	Saunders JCT	St.Lawrence TS	LC
S39M	1	Summerhaven SS	Caledonia JCT	DFL
S39M	2	Caledonia JCT	Middleport TS	DFL
S39M	3	Caledonia JCT	Caledonia TS	LC
S3S	1	Smoky Falls SS	KAP LMRP JCT	OTHER
S3S	2	Kapuskasing R Jct	Tembec Kapuskas CTS	LC

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Operation Designation	Section	From	To	Functional Category
S3S	3	KAP LMRP JCT	Kapuskasing R Jct	OTHER
S47C	1	Spence SS	Erieau WF JCT	DFL
S47C	2	Erieau WF JCT	Chatham SS	DFL
S47C	3	Erieau WF JCT	Erieau WF CGS	LC
S4S	1	Smoky Falls SS	Kapuskasing R Jct	OTHER
S4S	2	Kapuskasing R Jct	Tembec Kapuskas CTS	OTHER
S5M	1	Martindale TS	Donaldson Cres JCT	LC
S5M	2	McCrea JCT	Onaping JCT	LC
S5M	3	Onaping JCT	Onaping Area M&M CTS	LC
S5M	4	McCrea JCT	Thayer Lindsley CTS	OTHER
S5M	5	Onaping JCT	Nickel Basin JCT	LC
S5M	6	Nickel Basin JCT	Larchwood TS	LC
S5M	7	Donaldson Cres JCT	McCrea JCT	LC
S6F	1	Martindale TS	Falconbridge JCT	LC
S6F	2	Falconbridge JCT	Falconbridge 61 JCT	LC
S6N	1	Selby JCT	Napanee TS	OTHER
S7M	1	South March SS	Marchwood JCT	DFL
S7M	2	Marchwood JCT	Bridlewood JCT	DFL
S7M	3	Bridlewood JCT	X523A STR 654 JCT	DFL
S7M	4	X523A STR 654 JCT	S7M STR 673N JCT	DFL
S7M	5	S7M STR 673N JCT	Merivale TS	DFL
S7M	7	Bridlewood JCT	Bridlewood MTS	LC
S7M	8	S7M STR 673N JCT	S7M STR R14-R15 JCT	LC
S7M	9	S7M STR R14-R15 JCT	Fallowfield JCT	LC
S7M	10	Fallowfield JCT	Manotick JCT	LC
S7M	11	Manotick JCT	Richmond MTS	LC
S7M	12	Manotick JCT	Manotick STR A40 JCT	LC
S7M	13	Manotick STR A40 JCT	Manotick DS	LC
S7M	14	Manotick STR A40 JCT	Manotick DS	LC
S7M	15	Fallowfield JCT	Fallowfield MTS	LC
S7M	16	S7M STR R14-R15 JCT	Manordale JCT	OTHER
S7M	17	X523A STR 654 JCT	Didsbury Road JCT	OTHER
S7M	18	Marchwood JCT	Marchwood MTS	LC
S7S	2	Dominion Drive DS	Gervais JCT	OTHER
SK1	1	Rabbit Lake SS	Keewatin JCT	LC
SK1	2	Forgie JCT	IPB Manitoba 115 JCT	N
SK1	4	Forgie JCT	Clearwater Bay DS	LC
SK1	5	Keewatin JCT	Forgie JCT	LC
SK1	6	Keewatin JCT	Keewatin DS	LC
T11T	1	St.Thomas TS	Lyons JCT	OTHER
T11T	2	Lyons JCT	Cranberry JCT	OTHER

Operation Designation	Section	From	To	Functional Category
T11T	7	Lyons JCT	Lyons JCT	OTHER
T1B	1	Rayner CGS	Wharncliffe JCT	LC
T1B	2	Sowerby JCT	Red Rock CGS	LC
T1B	3	Red Rock CGS	Cobden JCT	LC
T1B	4	Cobden JCT	Striker DS	LC
T1B	5	Striker DS	Algoma TS	LC
T1B	6	Sowerby JCT	Sowerby DS	LC
T1B	7	Cobden JCT	North Shore DS	LC
T1B	8	Wharncliffe JCT	Sowerby JCT	LC
T1B	9	Wharncliffe JCT	Wharncliffe DS	LC
T1M	1	Terrace Bay SS	Angler Switch JCT	DFL
T1M	2	Angler Switch JCT	Pic JCT	DFL
T1M	3	Pic JCT	Marathon TS	DFL
T1M	4	Pic JCT	Marathon DS JCT	LC
T1M	5	Marathon DS JCT	Marathon DS	LC
T27P	1	Wells CGS	Mississagi TS	LC
T27P	2	Mississagi TS	Mississagi TS	LC
T28P	1	Wells CGS	Mississagi TS	LC
T2N	2	Toronto Power TS	Drummond Road JCT	OTHER
T2R	1	Timmins TS	Wawaitin JCT	OTHER
T2R	2	Wawaitin JCT	Shiningtree JCT	OTHER
T2R	3	Shiningtree JCT	Bleazard Valley JCT	OTHER
T2R	4	Shiningtree JCT	Bleazard Valley JCT	OTHER
T2R	5	Bleazard Valley JCT	Copper Cliff JCT	OTHER
T2R	6	Bleazard Valley JCT	Copper Cliff JCT	OTHER
T2R	10	Bleazard Valley JCT	Falconbridge T2R CTS	OTHER
T2R	11	Wawaitin JCT	Wawaitin GS	OTHER
T36B	1	Trafalgar TS	Lantz JCT	DFL
T36B	2	Palermo TxB JCT	Burlington TS	DFL
T36B	3	Palermo TxB JCT	Palermo TS	LC
T36B	4	Lantz JCT	Glenorchy JCT	DFL
T36B	5	Lantz JCT	Trafalgar TS	OTHER
T36B	6	Glenorchy JCT	Palermo TxB JCT	DFL
T36B	7	Glenorchy JCT	Glenorchy MTS #1	LC
T37B	1	Trafalgar TS	Lantz JCT	DFL
T37B	2	Palermo TxB JCT	Burlington TS	DFL
T37B	3	Palermo TxB JCT	Palermo TS	LC
T37B	4	Lantz JCT	Glenorchy JCT	DFL
T37B	5	Lantz JCT	Trafalgar TS	N
T37B	6	Glenorchy JCT	Palermo TxB JCT	DFL
T37B	7	Glenorchy JCT	Glenorchy MTS #1	LC

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Operation Designation	Section	From	To	Functional Category
T38B	1	Trafalgar TS	Lantz JCT	DFL
T38B	2	Lantz JCT	Tremaine JCT	DFL
T38B	3	Lantz JCT	Trafalgar DESN JCT	LC
T38B	4	Hornby JCT	TCE Halton Hills JCT	LC
T38B	5	Hornby JCT	Meadowvale TS	LC
T38B	6	Trafalgar DESN JCT	Hornby JCT	LC
T38B	7	Trafalgar DESN JCT	Trafalgar TS	LC
T38B	8	TCE Halton Hills JCT	Halton TS	LC
T38B	9	TCE Halton Hills JCT	TCE Halton Hills JCT	LC
T38B	12	Tremaine JCT	Burlington TS	DFL
T38B	13	Tremaine JCT	Tremaine TS	LC
T39B	1	Trafalgar TS	Lantz JCT	DFL
T39B	2	Lantz JCT	Tremaine JCT	DFL
T39B	3	Lantz JCT	Trafalgar DESN JCT	LC
T39B	4	Hornby JCT	TCE Halton Hills JCT	LC
T39B	5	Hornby JCT	Meadowvale TS	LC
T39B	6	Trafalgar DESN JCT	Hornby JCT	LC
T39B	7	Trafalgar DESN JCT	Trafalgar TS	LC
T39B	8	TCE Halton Hills JCT	Halton TS	LC
T39B	9	TCE Halton Hills JCT	TCE Halton Hills JCT	LC
T39B	12	Tremaine JCT	Burlington TS	DFL
T39B	13	Tremaine JCT	Tremaine TS	LC
T61S	1	Timmins JCT	Shiningtree DS	LC
T61S	2	Timmins JCT	Ogden JCT	LC
T61S	3	Ogden JCT	Timmins WestMine JCT	LC
T61S	4	Ogden JCT	Kam Kotia DS	OTHER
T61S	5	Timmins TS	Timmins JCT	LC
T61S	6	Timmins WestMine JCT	Weston Lake DS	LC
T61S	7	Timmins WestMine JCT	Timmins WestMine CTS	LC
T7M	1	Otter Rapids SS	Onakawana JCT	LC
T7M	2	Onakawana JCT	Renison JCT	LC
T7M	3	Renison JCT	Moosonee SS	LC
T7M	4	Onakawana JCT	Onakawana CTS	LC
T7M	5	Renison JCT	Renison CTS	LC
T8M	1	Otter Rapids SS	Moosonee SS	LC
T9K	1	St.Thomas TS	Kent JCT	OTHER
T9K	2	Kent JCT	Kent TS	OTHER
UB3B	1	H2O Pwr FtFrnces CTS	Int'l Bdy Minn JCT	OTHER
V12M	1	Merivale TS	Val Tetreau JCT	LC
V12M	3	Val Tetreau JCT	Hinchey TS	LC
V41H	1	Claireville TS	Claireville JCT	DFL

Operation Designation	Section	From	To	Functional Category
V41H	2	Claireville JCT	Sithe Goreway JCT	DFL
V41H	3	Sithe Goreway JCT	Bramalea TS	DFL
V41H	4	Bramalea TS	Cardiff JCT	DFL
V41H	5	Cardiff JCT	Hurontario SS	DFL
V41H	6	Sithe Goreway JCT	Sithe Goreway JCT	LC
V41H	8	Cardiff JCT	Cardiff TS	LC
V41N	1	Nova SS	St.Clair E.C. JCT	DFL
V41N	2	Nova SS	Nova Corunna CTS	LC
V41N	3	St.Clair E.C. JCT	Sarnia Scott TS	DFL
V41N	4	St.Clair E.C. JCT	St.Clair E.C. CGS	LC
V41N	5	Nova SS	Nova SS	DFL
V42H	1	Claireville TS	Claireville TS	DFL
V42H	2	Claireville TS	Claireville JCT	DFL
V42H	3	Claireville JCT	Sithe Goreway JCT	DFL
V42H	4	Sithe Goreway JCT	Bramalea TS	DFL
V42H	5	Bramalea TS	Cardiff JCT	DFL
V42H	6	Cardiff JCT	Hurontario SS	DFL
V42H	7	Sithe Goreway JCT	Sithe Goreway JCT	LC
V42H	9	Cardiff JCT	Cardiff TS	LC
V42H	10	Claireville TS	Goreway JCT	LC
V42H	11	Goreway JCT	Goreway PH JCT	LC
V42H	12	Goreway PH JCT	Goreway TS	LC
V43	1	Claireville TS	Claireville TS	LC
V43	2	Claireville TS	Goreway JCT	LC
V43	3	Goreway JCT	Goreway PH JCT	LC
V43	4	Goreway PH JCT	Goreway TS	LC
V43	5	Claireville TS	Woodbridge JCT	LC
V43	6	Woodbridge JCT	Vaughan #3 JCT	LC
V43	7	Vaughan #3 JCT	Kleinburg TS	LC
V43	8	Woodbridge JCT	Woodbridge TS	LC
V43	9	Vaughan #3 JCT	Vaughan MTS #3	LC
V43N	1	Nova SS	Talford JCT	DFL
V43N	2	Talford JCT	St.Clair E.C. JCT	DFL
V43N	3	Talford JCT	Dupont JCT	LC
V43N	4	Dupont JCT	Shell Sarnia CTS	LC
V43N	5	Dupont JCT	Nova St Clair R CTS	LC
V43N	6	St.Clair E.C. JCT	Sarnia Scott TS	DFL
V43N	7	St.Clair E.C. JCT	St.Clair E.C. CGS	LC
V44	1	Claireville TS	Woodbridge JCT	LC
V44	2	Woodbridge JCT	Vaughan #3 JCT	LC
V44	3	Vaughan #3 JCT	Kleinburg TS	LC

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Operation Designation	Section	From	To	Functional Category
V44	4	Woodbridge JCT	Woodbridge TS	LC
V44	5	Vaughan #3 JCT	Vaughan MTS #3	LC
V586M	1	Claireville TS	Milton SS	N
V586M	2	Milton SS	Middleport TS	N
V586M	3	Milton SS	Milton SS	N
V71P	1	Claireville TS	Toronto Star JCT	DFL
V71P	2	Toronto Star JCT	Vaughan #1 JCT	DFL
V71P	3	Vaughan #1 JCT	Richmond Hill JCT	DFL
V71P	4	Richmond Hill JCT	Richmond Hill #2 JCT	DFL
V71P	5	Richmond Hill #2 JCT	Parkway TS	DFL
V71P	6	Toronto Star JCT	Toronto Star JCT	LC
V71P	7	Toronto Star JCT	Vaughan MTS #2	LC
V71P	8	Vaughan #1 JCT	Vaughan #1 PH JCT	LC
V71P	9	Vaughan #1 PH JCT	Vaughan MTS #1	LC
V71P	10	Richmond Hill JCT	Richmond Hill MTS #1	LC
V71P	11	Richmond Hill #2 JCT	Richmond Hill MTS #2	LC
V72R	3	Richview TS	Richview TS	LC
V72R	4	Claireville TS	Richview TS	DFL
V72R	5	Richview TS	Richview TS	DFL
V73R	4	Claireville TS	Richview TS	N
V74R	1	Claireville TS	Westmore JCT	DFL
V74R	2	Westmore JCT	Richview TS	DFL
V74R	3	Westmore JCT	Rexdale TS	LC
V74R	8	Richview TS	Richview TS	DFL
V74R	9	Richview TS	Richview TS	LC
V74R	12	Westmore JCT	Westmore JCT	LC
V75P	2	Claireville TS	Toronto Star JCT	DFL
V75P	3	Toronto Star JCT	Vaughan #1 JCT	DFL
V75P	4	Vaughan #1 JCT	Richmond Hill JCT	DFL
V75P	5	Richmond Hill JCT	Richmond Hill #2 JCT	DFL
V75P	6	Richmond Hill #2 JCT	Parkway TS	DFL
V75P	7	Toronto Star JCT	Toronto Star JCT	LC
V75P	8	Toronto Star JCT	Vaughan MTS #2	LC
V75P	9	Vaughan #1 JCT	Vaughan #1 PH JCT	LC
V75P	10	Vaughan #1 PH JCT	Vaughan MTS #1	LC
V75P	11	Richmond Hill JCT	Richmond Hill MTS #1	LC
V75P	12	Richmond Hill #2 JCT	Richmond Hill MTS #2	LC
V76R	1	Claireville TS	Westmore JCT	DFL
V76R	4	Westmore JCT	Richview TS	DFL
V76R	5	Westmore JCT	Rexdale TS	LC
V76R	9	Westmore JCT	Westmore JCT	LC

Operation Designation	Section	From	To	Functional Category
V77R	1	Claireville TS	Richview TS	N
V79R	1	Claireville TS	Richview TS	N
W12	1	Buchanan TS	Ingersoll TS	LC
W2	1	Whitedog Falls GS	Whitedog Falls SS	LC
W21M	1	Wawa TS	Marathon TS	N
W22M	1	Wawa TS	Marathon TS	N
W23K	1	Wawa TS	MacKay JCT	N
W2C	1	Wawa TS	Chapleau JCT	LC
W2C	3	Chapleau JCT	Chapleau DS	LC
W2C	4	Chapleau JCT	Chapleau DS	LC
W2C	5	Chapleau JCT	Chapleau MTS	LC
W2S	1	Buchanan TS	Sydenham JCT	LC
W2S	2	Sydenham JCT	Strathroy TS	LC
W36	1	Buchanan TS	Oxford Street JCT	LC
W36	2	Oxford Street JCT	Clarke TS	LC
W36	3	Oxford Street JCT	Talbot TS	LC
W37	1	Buchanan TS	Dundas Street JCT	LC
W37	2	Dundas Street JCT	Clarke TS	LC
W37	3	Dundas Street JCT	Talbot TS	LC
W3B	1	Barrett Chute JCT	Barrett Chute SS	DFL
W3B	2	Stewartville TS	Barryvale Rd JCT	DFL
W3B	3	Barrett Chute JCT	Mountain Chute DS	LC
W3B	4	Barryvale Rd JCT	Barrett Chute JCT	DFL
W3C	1	Whitedog Falls SS	Caribou Falls GS	LC
W3T	1	Buchanan TS	Kettle Creek JCT	LC
W3T	2	Kettle Creek JCT	St.Thomas TS	LC
W3T	3	Kettle Creek JCT	Ford Talbotville CTS	OTHER
W42L	1	Buchanan TS	Buchanan TS	DFL
W42L	2	Buchanan TS	Longwood TS	DFL
W42L	3	Buchanan TS	Buchanan TS	LC
W43L	1	Buchanan TS	Buchanan TS	DFL
W43L	2	Buchanan TS	Longwood TS	DFL
W43L	3	Buchanan TS	Buchanan TS	LC
W44LC	1	Buchanan TS	Cowal JCT	DFL
W44LC	2	Cowal JCT	Duart JCT	DFL
W44LC	3	Cowal JCT	Longwood TS	DFL
W44LC	4	Buchanan TS	Edgeware TS	LC
W44LC	5	Buchanan TS	Buchanan TS	DFL
W44LC	6	Duart JCT	Chatham SS	DFL
W44LC	7	Duart JCT	Duart TS	LC
W45LS	1	Buchanan TS	Cowal JCT	DFL

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Operation Designation	Section	From	To	Functional Category
W45LS	2	Cowal JCT	Duart JCT	DFL
W45LS	3	Cowal JCT	Longwood TS	DFL
W45LS	5	Buchanan TS	Buchanan TS	DFL
W45LS	6	Duart JCT	Spence SS	DFL
W45LS	7	Duart JCT	Duart TS	LC
W4T	1	Buchanan TS	Kettle Creek JCT	LC
W4T	2	Kettle Creek JCT	St.Thomas TS	LC
W4T	3	Kettle Creek JCT	Ford Talbotville CTS	OTHER
W5N	1	Buchanan TS	Nelson TS	LC
W6CS	1	Stewartville TS	Arnprior JCT	DFL
W6CS	2	Arnprior JCT	Mississippi JCT	DFL
W6CS	3	Mississippi JCT	Chats Falls SS	OTHER
W6CS	4	Mississippi JCT	Marchwood JCT	DFL
W6CS	5	Arnprior JCT	Arnprior TS	LC
W6CS	6	Marchwood JCT	Marchwood JCT	DFL
W6CS	7	Marchwood JCT	Marchwood JCT	OTHER
W6CS	8	Marchwood JCT	South March SS	DFL
W6CS	9	Marchwood JCT	Marchwood MTS	LC
W6NL	1	Buchanan TS	Buchanan JCT	LC
W6NL	2	Buchanan JCT	Highbury TS	LC
W6NL	3	Buchanan JCT	Nelson TS	LC
W7	1	Buchanan TS	Ingersoll TS	LC
W71D	1	Widdifield SS	Lower Notch JCT	DFL
W71D	2	Lower Notch JCT	Dymond TS	DFL
W71D	3	Widdifield SS	Trout Lake TS	LC
W71D	4	Lower Notch JCT	Lower Notch GS	LC
W71D	5	Lower Notch JCT	Lower Notch GS	LC
W8T	1	Buchanan TS	W8T STR A1 JCT	LC
W8T	4	Edgeware JCT	Lyons JCT	LC
W8T	5	Lyons JCT	Cranberry JCT	LC
W8T	9	W8T STR A1 JCT	Edgeware JCT	LC
W8T	10	Lyons JCT	Lyons JCT	LC
W9L	1	Buchanan TS	Highbury TS	LC
WT1A	1	Lyons JCT	Silvercreek JCT	LC
WT1A	2	Silvercreek JCT	Aylmer TS	LC
WT1A	3	Silvercreek JCT	Silvercreek CGS	LC
WT1T	1	Cranberry JCT	ESWF JCT	LC
WT1T	2	Tillsonburg JCT	Tillsonburg TS	LC
WT1T	3	Tillsonburg JCT	Tillsonburg TS	LC
WT1T	4	ESWF JCT	Tillsonburg JCT	LC
WT1T	5	ESWF JCT	ESWF CSS	LC

Operation Designation	Section	From	To	Functional Category
WW1C	1	Ingersoll TS	Lafarge Woodstk. CTS	LC
X1H	1	Lennox TS	Lafarge JCT	DFL
X1H	2	Lafarge JCT	NPIF Kingston JCT	DFL
X1H	3	Cataraqui TS	Hinchinbrooke SS	N
X1H	4	Lafarge JCT	Lafarge Bath CTS	LC
X1H	6	NPIF Kingston JCT	Cataraqui TS	DFL
X1H	8	NPIF Kingston JCT	NPIF Kingston JCT	LC
X1P	1	Massanoga JCT	Dobbin TS	LC
X1P	2	Mountain Chute JCT	Massanoga JCT	LC
X1P	3	Chenau TS	Mountain Chute JCT	LC
X1P	4	Mountain Chute JCT	Mountain Chute GS	LC
X1P	5	Massanoga JCT	Mazinaw DS	LC
X21	1	Lennox TS	Gretna JCT	LC
X21	2	Gretna JCT	Napanee TS	LC
X21	3	Gretna JCT	Long Reach East JCT	LC
X21	4	Long Reach East JCT	Long Reach West JCT	LC
X21	5	Long Reach West JCT	Picton TS	LC
X22	1	Lennox TS	Gretna JCT	LC
X22	2	Gretna JCT	Napanee TS	LC
X22	3	Gretna JCT	Long Reach East JCT	LC
X22	4	Long Reach East JCT	Long Reach West JCT	LC
X22	5	Long Reach West JCT	Picton TS	LC
X23N	1	Hanmer TS	Vale Frd Stbe #2 JCT	LC
X23N	2	Vale Frd Stbe #2 JCT	Clarabelle JCT	LC
X23N	3	Clarabelle JCT	Vale Copper #4 CTS	LC
X23N	4	Vale Frd Stbe #2 JCT	Vale Frd Stbe #2 CTS	LC
X23N	5	Clarabelle JCT	Clarabelle TS	LC
X25S	1	Hanmer TS	Hanmer Parllel B JCT	N
X25S	2	Hanmer Parllel B JCT	Martindl Parll B JCT	N
X25S	3	Hanmer Parllel B JCT	Martindl Parll B JCT	N
X25S	4	Martindl Parll B JCT	Martindale TS	N
X26S	1	Hanmer TS	Hanmer Parllel A JCT	N
X26S	2	Hanmer Parllel A JCT	Martindl Parll A JCT	N
X26S	3	Hanmer Parllel A JCT	Martindl Parll A JCT	N
X26S	4	Martindl Parll A JCT	Martindale TS	N
X27A	1	Hanmer TS	Algoma TS	N
X2H	1	Lennox TS	Lafarge JCT	DFL
X2H	2	Lafarge JCT	NPIF Kingston JCT	DFL
X2H	3	Westbrook JCT	Cataraqui TS	DFL
X2H	4	Cataraqui TS	Hinchinbrooke SS	DFL
X2H	5	Lafarge JCT	Lafarge Bath CTS	OTHER

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Operation Designation	Section	From	To	Functional Category
X2H	6	Westbrook JCT	Gardiner STR 44 JCT	LC
X2H	7	NPIF Kingston JCT	Westbrook JCT	DFL
X2H	9	NPIF Kingston JCT	NPIF Kingston JCT	LC
X2H	10	Gardiner STR 44 JCT	Gardiner TS	LC
X2H	11	Gardiner STR 44 JCT	Gardiner TS	LC
X2Y	1	Chenaux TS	Chenaux JCT	LC
X2Y	2	Chenaux JCT	IPB Bryson JCT	N
X2Y	4	Chenaux JCT	Magellan Arospce JCT	LC
X2Y	5	Magellan Arospce JCT	Haley JCT	LC
X2Y	6	Haley JCT	Cobden TS	LC
X2Y	8	Cobden TS	Pembroke TS	LC
X2Y	9	Magellan Arospce JCT	Magellan Arospce CTS	LC
X2Y	10	Cobden TS	Cobden TS	LC
X3H	1	Lennox TS	Kingston Solar JCT	DFL
X3H	2	Cataraqui TS	Hinchinbrooke SS	N
X3H	3	Kingston Solar JCT	Cataraqui TS	DFL
X3H	4	Kingston Solar JCT	Kingston Solar CGS	LC
X4H	1	Lennox TS	Westbrook JCT	DFL
X4H	2	Westbrook JCT	Cataraqui TS	DFL
X4H	3	Cataraqui TS	Hinchinbrooke SS	DFL
X4H	4	Westbrook JCT	Gardiner STR 44 JCT	LC
X4H	5	Gardiner STR 44 JCT	Gardiner TS	LC
X4H	6	Gardiner STR 44 JCT	Gardiner TS	LC
X503E	1	Hanmer TS	Nobel SS	N
X503E	2	Nobel SS	Essa TS	N
X504E	1	Hanmer TS	Nobel SS	N
X504E	2	Nobel SS	Essa TS	N
X520B	1	Lennox TS	Bowmanville SS	N
X521B	1	Lennox TS	Bowmanville SS	N
X522A	1	Lennox TS	Hawthorne TS	N
X523A	1	Lennox TS	Hawthorne TS	N
X526B	1	Lennox TS	Bowmanville SS	N
X527B	1	Lennox TS	Bowmanville SS	N
X6	1	Chenaux TS	Cobden X6 JCT	LC
X6	2	Cobden X6 JCT	Cobden TS	LC
X6	3	Cobden X6 JCT	Pembroke TS	LC
X6	4	Pembroke TS	Pembroke TS	LC
X74P	1	Hanmer TS	Mississagi TS	N
Z1E	1	Lauzon TS	Jefferson JCT	DFL
Z1E	2	Jefferson JCT	Walker JCT	DFL
Z1E	3	Walker JCT	Windsor Transalt JCT	DFL

Operation Designation	Section	From	To	Functional Category
Z1E	4	Jefferson JCT	Ford Essex JCT	LC
Z1E	5	Walker JCT	Walker TS #1	LC
Z1E	6	Windsor Transalt JCT	Essex TS	DFL
Z1E	7	Windsor Transalt JCT	Windsor Transalt CGS	LC
Z7E	1	Lauzon TS	Jefferson JCT	DFL
Z7E	2	Jefferson JCT	Walker JCT	DFL
Z7E	5	Walker JCT	Essex TS	DFL
Z7E	7	Jefferson JCT	Ford Essex JCT	LC
Z7E	8	Walker JCT	Walker TS #1	LC

1

1 **LIST OF TRANSMISSION STATIONS BY FUNCTIONAL**
 2 **CATEGORY**
 3 *N = Network* *TC = Transformation Connection* *LC = Line Connection*
 4 *GC = Generation Line/Transformation Connection*

Station Number	Station Name	Functional Category
1001	Agincourt TS	TC
1002	Applewood JCT	LC
1003	Armitage TS	TC
1004	Balfour JCT	LC
1005	Bartlett JCT	LC
1007	Bayview JCT	LC
1008	Beaverton TS	TC
1010	Bloor Street JCT	LC
1012	Goreway TS	TC
1013	Bramalea TS	TC
1014	Bronte TS	TC
1015	Brown Hill TS	N,TC
1018	Buttonville TS	TC
1019	Cherrywood TS	N,TC
1021	Claireville JCT	LC
1022	Claireville TS	N
1024	Tremaine TS	TC
1026	Cooksville TS	TC
1028	Dobbin TS	N,TC
1034	Dufferin JCT	LC
1035	Erindale TS	TC
1038	Gerrard JCT	LC
1044	Kleinburg TS	TC
1049	Lorne Park TS	TC
1050	Lumsden JCT	LC
1051	Manby TS	LC,TC
1056	Oakville TS #2	TC
1057	Thornton TS	TC
1058	Wilson TS	TC
1059	Otonabee TS	TC
1062	Palermo TS	TC
1064	Pickering A SS	GC
1065	Pleasant TS	TC
1066	Port Hope TS	TC
1070	Rexdale TS	TC

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Station Number	Station Name	Functional Category
1071	Westmore JCT	LC
1073	Richview TS	N,TC
1074	Scarboro TS	TC
1075	Ellesmere TS	TC
1076	Riverside JCT	LC
1077	Birch JCT	LC
1082	Todmorden JCT	LC
1083	Tomken TS	TC
1084	Basin TS	TC
1086	Bathurst TS	TC
1087	Bermondsey TS	TC
1088	Bridgman TS	TC
1089	Carlaw TS	TC
1090	Cecil TS	LC,TC
1091	Charles TS	TC
1094	Dufferin TS	TC
1095	Duplex TS	TC
1096	Esplanade TS	TC
1097	Fairbank TS	TC
1098	Fairchild TS	TC
1099	Finch TS	TC
1100	Gerrard TS	TC
1101	Glengrove TS	TC
1102	Horner TS	TC
1103	John TS	LC,TC
1104	Leaside TS	LC,TC
1105	Leslie TS	TC
1106	Main TS	TC
1107	Malvern TS	TC
1109	Runnymede TS	TC
1110	Sheppard TS	TC
1112	Strachan TS	TC
1113	Terauley TS	TC
1114	Warden TS	TC
1116	Wiltshire TS	TC
1118	Trafalgar TS	N,TC
1119	Vansco JCT	LC
1124	Woodbridge TS	TC
1135	Lindsay TS	TC
1139	Markham #2 PH JCT	LC
1154	Milton SS	N
1157	Pickering B SS	GC

Station Number	Station Name	Functional Category
1169	Whitby TS	TC
1173	Bowmanville SS	N
1174	Markham #3 PH JCT	LC
1184	Halton TS	TC
1186	Meadowvale TS	TC
1193	Toronto Star JCT	LC
1217	Hearn SS	LC
1262	Vaughan #1 PH JCT	LC
1265	Goreway PH JCT	LC
1275	Bridgman JCT	LC
1277	Cardiff TS	TC
1278	Parkway TS	N
1283	Waverly OPF	LC
1284	Brookside OPF	LC
1285	Joint Bay 4 OPF	LC
1287	Oshawa G.M. TS	TC
1302	Holland TS	TC
1310	Hurontario SS	N
1317	Churchill Meadows TS	TC
2001	Almonte TS	TC
2003	Barrett Chute SS	N
2005	Arnprior TS	TC
2009	Belleville TS	N,TC
2010	Bilberry Creek TS	TC
2011	Billings JCT	LC
2016	Brockville TS	TC
2020	Cataraqui TS	N
2024	Chats Falls SS	N,GC
2027	Chesterville TS	TC
2030	Chenaux TS	LC
2031	Cobden TS	TC
2035	Cyrville JCT	LC
2048	Frontenac TS	LC,TC
2057	Havelock TS	N,TC
2061	Hinchinbrooke SS	N
2065	Gardiner TS	TC
2068	Longueuil TS	TC
2071	Manotick JCT	LC
2074	Merivale TS	N
2079	Morrisburg TS	TC
2083	Napanee TS	TC
2091	Odessa JCT	N,LC

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Station Number	Station Name	Functional Category
2094	Carling TS	TC
2095	N.R.C. TS	TC
2096	Albion TS	TC
2097	Hawthorne TS	N,TC
2098	Hinchey TS	TC
2099	King Edward TS	TC
2100	Lincoln Heights TS	TC
2101	Lisgar TS	TC
2103	Overbrook TS	TC
2104	Riverdale TS	TC
2105	Russell TS	TC
2106	Slater TS	TC
2107	Woodroffe TS	TC
2109	Pembroke TS	TC
2113	Picton TS	TC
2127	Smiths Falls TS	TC
2129	South March TS	N,TC
2130	St.Isidore TS	N,TC
2131	St.Lawrence TS	N,LC,TC
2136	Val Tetreau JCT	LC
2137	Wallace TS	TC
2141	Sidney TS	N,TC
2143	Lennox TS	N
2145	Orleans TS	TC
2170	Nepean TS	TC
2172	NQL1 B JCT	N,LC
2179	Massanoga JCT	LC
2194	B5D-B31L SS JCT	N
2197	Crosby TS	TC
2237	Des Joachims TS	N,LC
2238	Stewartville TS	N,TC
2255	Long Reach West JCT	LC
2256	Long Reach East JCT	LC
2290	Magellan Arospce JCT	LC
2329	19D684-1 JCT	LC
2330	Didsbury Road JCT	N,LC
2332	South March SS	N
2337	Northbrook JCT	LC
3001	Alliston TS	TC
3003	Barrie TS	TC
3004	Midhurst TS	TC
3006	Bruce B SS	N

Station Number	Station Name	Functional Category
3007	Bruce A TS	N
3008	Bruce HW Plant B TS	TC
3014	Cooper's Falls JCT	N,LC
3017	Essa TS	N
3018	Hanover TS	N,TC
3019	Meaford TS	TC
3021	Minden TS	N,TC
3022	Muskoka TS	TC
3023	Orangeville TS	N,TC
3024	Orillia TS	TC
3025	Owen Sound TS	N,TC
3026	Ashfield SS	N
3028	Parry Sound TS	TC
3029	Stayner TS	N,TC
3032	Waubauskene TS	TC
3034	Wingham TS	TC
3035	Bruce JCT	N
3052	Douglas Point TS	TC
3054	Nobel SS	N
3065	Bracebridge TS	TC
3079	Everett TS	TC
4003	Allanburg TS	LC,TC
4007	Beamsville TS	TC
4010	Brant TS	TC
4011	Brantford TS	TC
4013	Burlington TS	N,LC,TC
4014	Cumberland TS	TC
4017	Caledonia TS	LC,TC
4021	Crowland TS	TC
4028	Detweiler TS	N,LC
4030	Dundas TS	TC
4031	Dunnville TS	TC
4032	Elmira TS	TC
4033	Fergus TS	TC
4035	Freeport SS	N
4037	Galt TS	TC
4038	Gibson JCT	LC
4040	Nebo TS	TC
4043	Guelph North JCT	N
4044	Campbell TS	TC
4045	Cedar TS	N,TC
4046	Hanlon TS	TC

Witness: Henry Andre

Station Number	Station Name	Functional Category
4049	Beach TS	N,LC,TC
4050	Birmingham TS	TC
4051	Elgin TS	TC
4052	Gage TS	TC
4053	Horning TS	TC
4054	Kenilworth TS	TC
4055	Lake TS	TC
4056	Mohawk TS	TC
4057	Newton TS	TC
4058	Stirton TS	TC
4070	Jarvis TS	TC
4072	Louth JCT	LC
4074	Nanticoke TS	N
4081	Newport JCT	N,LC
4082	Murray TS	TC
4084	Stanley TS	TC
4085	Norfolk TS	TC
4088	Port Colborne TS	TC
4091	Preston TS	N,TC
4097	Beck #2 TS	N
4101	Bunting TS	TC
4102	Carlton TS	TC
4103	Glendale TS	LC,TC
4104	Vansickle TS	TC
4108	Thorold TS	TC
4110	Vanessa JCT	LC
4123	Summerhaven SS	N
4130	Middleport TS	N
4134	Sandusk SS	N
4165	Edgeware JCT	LC
4177	Palmerston TS	TC
4181	D7F_D9F T#157 PH JCT	LC
4182	D7F_D9F T#162 PH JCT	LC
4195	Hartford JCT	LC
4213	DeCew Falls SS	LC
4214	Beck #1 SS	LC
4230	Puslinch JCT	LC
4237	Imp Oil Nanticok JCT	LC
4256	Winona TS	TC
4257	Dundas TS #2	TC
4258	Winona JCT	LC
4289	Beach JCT	LC

Witness: Henry Andre

Station Number	Station Name	Functional Category
5005	Algoma TS	N,LC
5011	Blind River TS	LC
5014	Cassels JCT	N,LC
5025	Creighton JCT	LC
5031	Dymond TS	N,TC
5035	Elliot Lake TS	TC
5037	Espanola TS	TC
5050	Hearst TS	TC
5052	Hunata SS	N
5056	Kapuskasing TS	N,TC
5059	Larchwood TS	TC
5063	Manitoulin TS	TC
5065	Martindale TS	N,TC
5071	Mississagi TS	N
5076	North Bay TS	TC
5079	Otter Rapids SS	LC
5087	Ramore TS	TC
5096	Clarabelle TS	TC
5103	Timmins TS	N,LC,TC
5105	Trout Lake TS	TC
5111	Warkus JCT	N,LC
5113	Wawa TS	N
5120	Widdifield SS	N
5121	Crystal Falls TS	TC
5127	Hanmer TS	N
5148	Kirkland Lake TS	N,TC
5158	Porcupine TS	N
5162	Pinard TS	N
5171	Spruce Falls TS	N
5227	Ansonville TS	N
5242	Coniston TS	TC
5243	Little Long SS	N
5244	Lower Notch JCT	GC
5245	Otto Holden TS	N,TC
5246	Abitibi Canyon SS	LC
5306	Moosonee SS	LC
5384	Smoky Falls SS	GC
5407	Crystal Falls SS	N
6013	Conmee JCT	LC
6016	Dryden TS	N,TC
6020	Fort Frances TS	N
6022	Fort William TS	TC

Witness: Henry Andre

Station Number	Station Name	Functional Category
6033	Kenora TS	N
6035	Lakehead TS	N
6036	Longlac TS	TC
6037	Mackenzie TS	N
6042	Manitouwadge TS	TC
6045	Marathon TS	N
6050	Moose Lake TS	N,TC
6062	Port Arthur TS #1	N,LC,TC
6064	Birch TS	N,TC
6065	Rabbit Lake SS	N
6066	Red Lake TS	TC
6084	Terrace Bay SS	N
6095	Alexander SS	N
6098	Whitedog Falls SS	LC
6099	Barwick TS	TC
6110	Kashabowie JCT	N,LC
6112	Marmion Lake JCT	LC
6152	Minnova JCT	LC
6174	Thunder Bay SS	GC
6191	Aguasabon SS	N
6192	Ear Falls TS	LC,TC
6193	Pine Portage SS	N
6199	Ainsworth JCT	N,LC
6202	Murillo JCT	N,LC
6226	Angler Switch JCT	LC
6231	K3D-10 SW JCT	N,LC
6232	K6F-10 SW JCT	N,LC
7003	Aylmer TS	TC
7007	Buchanan TS	N,LC,TC
7009	Centralia TS	TC
7011	Chatham SS	N
7013	Cranberry JCT	LC
7017	Dundas Street JCT	LC
7019	Essex TS	N,TC
7022	Goderich TS	TC
7025	Ingersoll TS	TC
7030	Duart TS	TC
7031	Kent TS	TC
7035	Kingsville TS	TC
7036	Kirkton JCT	LC
7038	Lambton TS	TC
7039	Lambton TS #2	N

Station Number	Station Name	Functional Category
7040	Clarke TS	TC
7041	Highbury TS	TC
7042	Nelson TS	TC
7045	Talbot TS	TC
7047	Wonderland TS	TC
7048	Lucasville JCT	N,LC
7054	Oxford Street JCT	LC
7056	Nova SS	N
7060	Modeland TS	TC
7062	St.Andrews TS	TC
7064	Sarnia Scott TS	N,LC
7065	Seaforth TS	LC,TC
7068	St.Marys TS	TC
7070	St.Thomas TS	TC
7071	Edgeware TS	TC
7073	Stratford TS	TC
7077	Strathroy TS	TC
7083	Tilbury TS	TC
7084	Tillsonburg TS	TC
7085	Tilbury JCT	LC
7087	Wallaceburg TS	TC
7088	Wanstead TS	TC
7092	Crawford TS	TC
7093	Lauzon TS	N,TC
7095	Malden TS	TC
7096	Walker TS #1	TC
7098	Woodstock TS	TC
7106	Evergreen SS	N
7120	Longwood TS	N,TC
7136	Cowal JCT	N,LC
7169	Keith TS	N,TC
7176	Plank Road JCT	LC
7177	Confederation Rd JCT	LC
7199	W8T STR A1 JCT	LC
7214	Belle River TS	TC
7222	Commerce Way TS	TC
7227	Toyota Woodstock TS	TC
7238	Karn TS	LC
7242	Spence SS	N

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ALLOCATION FACTORS FOR DUAL FUNCTION LINES

Operation Designation	% Network	% Connection
A1B	83%	17%
A3RM	70%	30%
A4H	80%	20%
A5A	97%	3%
A5H	96%	4%
A6P	99%	1%
A8M	94%	6%
A9K	87%	13%
B18H	94%	6%
B1S	85%	15%
B20H	94%	6%
B22D	85%	15%
B23C	57%	43%
B23D	85%	15%
B27S	92%	8%
B4V	100%	0%
B5G	76%	24%
B5QK	55%	45%
B5V	100%	0%
B6G	78%	22%
B6M	93%	7%
B82V	43%	57%
B83V	43%	57%
C18R	70%	30%
C20R	69%	31%
C21J	92%	8%
C22J	92%	8%
C23Z	100%	0%
C24Z	100%	0%
C27P	100%	0%
C28C	82%	18%
C35P	86%	14%
C36P	88%	12%
C4R	72%	28%
C5R	72%	28%
C7BM	56%	44%
D2L	94%	6%
D2M	90%	10%

Witness: Henry Andre

Operation Designation	% Network	% Connection
D3K	100%	0%
D4W	99%	1%
D5A	98%	2%
D5W	99%	1%
D6V	76%	24%
D7F	79%	21%
D7V	76%	24%
D9F	79%	21%
E29C	36%	64%
E34M	77%	23%
E8V	77%	23%
E9V	88%	12%
F11C	83%	17%
F12C	83%	17%
H23S	99%	1%
H24C	39%	61%
H24S	99%	1%
H26C	48%	52%
H6T	97%	3%
H7T	82%	18%
H9K	95%	5%
J3E	89%	11%
J4E	87%	13%
K23D	99%	1%
K38S	84%	16%
K3D	97%	3%
K40M	98%	2%
K6F	78%	22%
K7K	95%	5%
L1S	95%	5%
L20D	100%	0%
L20H	85%	15%
L21H	88%	12%
L22H	82%	18%
L23N	97%	3%
L24L	96%	4%
L25V	98%	2%
L26L	96%	4%
L27V	96%	4%
L28C	92%	8%
L29C	92%	8%
L5H	83%	17%

Operation Designation	% Network	% Connection
M20D	69%	31%
M21D	68%	32%
M23L	100%	0%
M24L	100%	0%
M27B	96%	4%
M28B	96%	4%
M2D	100%	0%
M30A	94%	6%
M31A	94%	6%
M31W	92%	8%
M32S	85%	15%
M32W	88%	12%
M33W	94%	6%
M6E	25%	75%
M7E	31%	69%
M80B	81%	19%
M81B	81%	19%
N20K	93%	7%
N21W	85%	15%
N22W	85%	15%
N5M	97%	3%
N6M	98%	2%
P21R	42%	58%
P22R	69%	31%
P25W	100%	0%
P26W	100%	0%
P3S	70%	30%
P4S	47%	53%
P91G	98%	2%
Q23BM	85%	15%
Q24HM	88%	12%
Q25BM	86%	14%
Q29HM	88%	12%
Q30M	91%	9%
Q6S	100%	0%
R14T	74%	26%
R17T	74%	26%
R19TH	50%	50%
R21TH	53%	47%
R9A	100%	0%
S22A	94%	6%
S2S	90%	10%

Witness: Henry Andre

Operation Designation	% Network	% Connection
S39M	98%	2%
S47C	100%	0%
S7M	60%	40%
T1M	96%	4%
T36B	93%	7%
T37B	93%	7%
T38B	69%	31%
T39B	69%	31%
V41H	52%	48%
V41N	99%	1%
V42H	42%	58%
V43N	97%	3%
V71P	46%	54%
V72R	83%	17%
V74R	75%	25%
V75P	46%	54%
V76R	92%	8%
W3B	100%	0%
W42L	93%	7%
W43L	93%	7%
W44LC	85%	15%
W45LS	99%	1%
W6CS	79%	21%
W71D	100%	0%
X1H	97%	3%
X2H	87%	13%
X3H	100%	0%
X4H	90%	10%
Z1E	59%	41%
Z7E	59%	41%

**ALLOCATION FACTORS FOR GENERATOR LINE
 CONNECTIONS**

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Operation Designation	Section #	From	To	% Generator	% Load
61M18	1	Seaforth 61M18 JCT	Constance DS	40%	60%
61M18	2	Constance DS	Goderich TS	47%	53%
61M18	3	Seaforth TS	Seaforth 61M18 JCT	40%	60%
A36N	1	Allanburg TS	Kalar JCT	34%	66%
A36N	3	Kalar JCT	Murray TS	34%	66%
A37N	1	Allanburg TS	Kalar JCT	34%	66%
A37N	3	Kalar JCT	Murray TS	34%	66%
A3RM	4	Ellwood JCT	Riverdale JCT	14%	86%
A3RM	6	Riverdale JCT	Riverdale TS	14%	86%
A4H	3	Fournier JCT	Fournier JCT	71%	29%
A4H	4	Hunta SS	LSR MSO JCT	100%	0%
A4H	6	Fournier JCT	Power JCT	71%	29%
A4K	1	Hawthorne TS	Blackburn JCT	14%	86%
A4K	2	Blackburn JCT	Cyrville Rd JCT	14%	86%
A4K	3	Cyrville JCT	Moulton JCT	14%	86%
A4K	9	Moulton JCT	Overbrook TS	14%	86%
A4K	11	Cyrville Rd JCT	Cyrville JCT	14%	86%
A4L	1	Alexander SS	A.P. Nipigon JCT	74%	26%
A4L	11	A.P. Nipigon JCT	A.P. Nipigon CGS	100%	0%
A5H	18	A.P. Tunis JCT	A.P. Tunis JCT	100%	0%
A5RK	1	Hawthorne TS	Blackburn JCT	14%	86%
A5RK	2	Blackburn JCT	Russell TS	14%	86%
A5RK	3	Russell TS	Riverdale JCT	14%	86%
A5RK	4	Riverdale JCT	Riverdale TS	14%	86%
A5RK	6	Riverdale JCT	Overbrook TS	14%	86%
A6R	1	Hawthorne TS	Blackburn JCT	14%	86%
A6R	2	Blackburn JCT	Russell TS	14%	86%
A6R	3	Russell TS	Riverdale JCT	14%	86%
A6R	4	Riverdale JCT	OHSC JCT	14%	86%
A6R	5	OHSC JCT	Riverdale TS	14%	86%
A6R	6	OHSC JCT	OHSC JCT	100%	0%
B20P	1	Bruce A TS	Bruce HW Plant D JCT	98%	2%
B20P	5	Bruce HW Plant D JCT	B20P_B24P T#2 JCT	98%	2%
B20P	7	B20P_B24P T#2 JCT	Bruce HW Plant B TS	98%	2%
B22D	8	Majestic JCT	Majestic CTS	100%	0%
B23D	8	Majestic JCT	Majestic CTS	100%	0%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
B24P	1	Bruce A TS	Bruce HW Plant D JCT	98%	2%
B24P	5	Bruce HW Plant D JCT	B20P_B24P T#2 JCT	98%	2%
B24P	7	B20P_B24P T#2 JCT	Bruce HW Plant B TS	98%	2%
B4V	4	Amaranth JCT	Amaranth CTS	100%	0%
B4V	6	Underwood JCT	Underwood CGS	100%	0%
B5V	4	Underwood JCT	Underwood CGS	100%	0%
B5V	6	Amaranth JCT	Amaranth CTS	100%	0%
B81HW	1	Bruce A TS	Bruce HW Plant B TS	98%	2%
B82HW	1	Bruce A TS	Bruce HW Plant B TS	98%	2%
B82V	9	York EnergyCentr JCT	York EnergyCentr CGS	100%	0%
B83V	9	York EnergyCentr JCT	York EnergyCentr CGS	100%	0%
C14L	1	Cherrywood TS	Scarboro JCT	24%	76%
C14L	2	Scarboro JCT	Bermondsey TS	28%	72%
C14L	3	Bermondsey TS	Leaside TS	31%	69%
C15L	1	Cherrywood TS	Sheppard TS	26%	74%
C15L	2	Sheppard TS	Scarboro JCT	28%	72%
C15L	3	Scarboro JCT	Leaside TS	31%	69%
C16L	1	Cherrywood TS	Sheppard TS	26%	74%
C16L	2	Sheppard TS	Leaside TS	29%	71%
C17L	1	Cherrywood TS	Scarboro JCT	27%	73%
C17L	2	Bermondsey TS	Leaside TS	31%	69%
C17L	3	Scarboro JCT	Bermondsey TS	28%	72%
C1A	1	Cameron Falls GS	Alexander SS	100%	0%
C1A	2	Alexander SS	Alexander GS	100%	0%
C1A	3	Alexander SS	Alexander SS	100%	0%
C23Z	6	Dillon RWEC CGS JCT	Dillon RWEC CGS	100%	0%
C23Z	7	Comber WF JCT	Comber WF CTS	100%	0%
C24Z	6	Comber WF JCT	Comber WF CTS	100%	0%
C27P	5	Galetta JCT	Arnprior GS	100%	0%
C2A	1	Cameron Falls GS	Alexander SS	100%	0%
C2A	2	Alexander SS	Alexander GS	100%	0%
C2A	3	Alexander SS	Alexander SS	100%	0%
C2L	5	Cherrywood TS	Ellesmere JCT	24%	76%
C2L	6	Ellesmere JCT	Scarboro JCT	26%	74%
C2L	7	Scarboro JCT	Leaside TS	29%	71%
C3A	1	Cameron Falls GS	Alexander SS	100%	0%
C3A	2	Alexander SS	Alexander GS	100%	0%
C3A	3	Alexander SS	Alexander SS	100%	0%
C3L	4	Leaside Str 4-5 JCT	Leaside TS	29%	71%
C3L	5	Cherrywood TS	Ellesmere JCT	24%	76%
C3L	6	Ellesmere JCT	Scarboro JCT	26%	74%
C3L	7	Scarboro JCT	Leaside Str 4-5 JCT	29%	71%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
C3L	10	Leaside Str 4-5 JCT	Leaside TS	29%	71%
C5E	1	Cecil TS	Terauley TS	31%	69%
C5E	2	Terauley TS	Manhole A OPF	31%	69%
C5E	3	Manhole A OPF	Esplanade TS	31%	69%
C7BM	3	Chats Falls SS	Fitzroy JCT	100%	0%
C7E	1	Cecil TS	Terauley TS	31%	69%
C7E	2	Terauley TS	Manhole A OPF	31%	69%
C7E	3	Manhole A OPF	Esplanade TS	31%	69%
D10S	1	DeCew Falls SS	Hooper's JCT	34%	66%
D10S	2	Hooper's JCT	Vansickle TS	34%	66%
D10S	3	Vansickle TS	Louth JCT	34%	66%
D10S	4	Louth JCT	Glendale TS	34%	66%
D1A	1	Holland Road JCT	Allanburg TS	34%	66%
D1A	2	Fibre JCT	Holland Road JCT	34%	66%
D1A	3	Gibson JCT	Fibre JCT	34%	66%
D1A	4	St.Johns Valley JCT	Gibson JCT	34%	66%
D1A	5	Hooper's JCT	St.Johns Valley JCT	34%	66%
D1A	6	DeCew Falls SS	Hooper's JCT	34%	66%
D2H	1	Pinard TS	Pinard JCT #2	95%	5%
D2H	2	Pinard JCT #2	Hwy 634 JCT	95%	5%
D2H	3	Pinard JCT #2	Hwy 634 JCT	95%	5%
D2H	4	Hwy 634 JCT	Island Falls JCT	95%	5%
D2H	5	Hwy 634 JCT	Island Falls JCT	95%	5%
D2H	6	Island Falls JCT	Greenwater Pr Pk JCT	95%	5%
D2H	7	Island Falls JCT	Greenwater Pr Pk JCT	95%	5%
D2H	8	Greenwater Pr Pk JCT	Calder JCT	95%	5%
D2H	9	Greenwater Pr Pk JCT	Calder JCT	95%	5%
D2H	10	Hunta JCT	Hunta SS	95%	5%
D2H	11	Hunta JCT	Hunta JCT	95%	5%
D2H	12	Hwy 634 JCT	Hwy 634 JCT	95%	5%
D2H	13	Island Falls JCT	Island Falls JCT	95%	5%
D2H	14	Greenwater Pr Pk JCT	Greenwater Pr Pk JCT	95%	5%
D2H	15	Pinard JCT #2	Pinard JCT #2	95%	5%
D2H	18	Calder JCT	Calder JCT	95%	5%
D2H	19	Calder JCT	Hunta JCT	95%	5%
D2H	20	Calder JCT	Hunta JCT	95%	5%
D3A	1	Fibre JCT	Allanburg TS	34%	66%
D3A	2	St.Johns Valley JCT	Gibson JCT	34%	66%
D3A	3	Hooper's JCT	St.Johns Valley JCT	34%	66%
D3A	4	DeCew Falls SS	Hooper's JCT	34%	66%
D3A	8	Gibson JCT	Fibre JCT	34%	66%
D3H	1	Pinard TS	Pinard JCT #2	95%	5%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
D3H	2	Pinard JCT #2	Hwy 634 JCT	95%	5%
D3H	3	Pinard JCT #2	Hwy 634 JCT	95%	5%
D3H	4	Hwy 634 JCT	Island Falls JCT	95%	5%
D3H	5	Hwy 634 JCT	Island Falls JCT	95%	5%
D3H	6	Island Falls JCT	Greenwater Pr Pk JCT	95%	5%
D3H	7	Island Falls JCT	Greenwater Pr Pk JCT	95%	5%
D3H	8	Greenwater Pr Pk JCT	Calder JCT	95%	5%
D3H	9	Greenwater Pr Pk JCT	Calder JCT	95%	5%
D3H	10	Hunta JCT	Hunta SS	95%	5%
D3H	11	Hunta JCT	Hunta JCT	95%	5%
D3H	12	Hwy 634 JCT	Hwy 634 JCT	95%	5%
D3H	13	Island Falls JCT	Island Falls JCT	95%	5%
D3H	14	Greenwater Pr Pk JCT	Greenwater Pr Pk JCT	95%	5%
D3H	15	Pinard JCT #2	Pinard JCT #2	95%	5%
D3H	16	Calder JCT	Hunta JCT	95%	5%
D3H	17	Calder JCT	Hunta JCT	95%	5%
D3H	18	Calder JCT	Calder JCT	95%	5%
D4	1	Pinard TS	Pinard JCT #2	100%	0%
D4	2	Pinard JCT #2	Abitibi Canyon GS	100%	0%
D4	3	Pinard JCT #2	Abitibi Canyon GS	100%	0%
D9HS	1	DeCew Falls SS	Hooper's JCT	34%	66%
D9HS	2	Hooper's JCT	Vansickle TS	34%	66%
D9HS	3	Vansickle TS	Louth JCT	34%	66%
D9HS	9	Louth JCT	Glendale TS	34%	66%
E4D	1	Ear Falls TS	Scout Lake JCT	41%	59%
E4D	2	Scout Lake JCT	Dryden TS	41%	59%
E8F	1	Essex TS	Chrysler WAP MTS	62%	38%
E8F	2	Chrysler WAP MTS	G.M.Windsor MTS	77%	23%
E8F	3	G.M.Windsor MTS	Ford Annex MTS	78%	22%
E8F	4	Ford Annex MTS	Ford Windsor MTS	85%	15%
E8F	5	Ford Windsor MTS	East Windsor CGS	100%	0%
E9F	1	Essex TS	Chrysler WAP MTS	62%	38%
E9F	2	Chrysler WAP MTS	G.M.Windsor MTS	77%	23%
E9F	3	G.M.Windsor MTS	Ford Annex MTS	78%	22%
E9F	4	Ford Annex MTS	Ford Windsor MTS	85%	15%
E9F	5	Ford Windsor MTS	East Windsor CGS	100%	0%
F1E	1	Kapuskasing TS	AP Calstock CSS JCT	62%	38%
F1E	4	AP Calstock CSS JCT	A.P. Calstock CSS	100%	0%
F1E	5	AP Calstock CSS JCT	Nagagami CSS JCT	43%	57%
F1E	6	Nagagami CSS JCT	Nagagami CSS	79%	21%
H10EJ	1	Hearn SS	Don Fleet JCT	31%	69%
H10EJ	2	Don Fleet JCT	Esplanade TS	31%	69%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
H10EJ	4	Hearn SS	Hearn SS	31%	69%
H11L	1	Hearn SS	Waverly OPF	31%	69%
H11L	2	Main TS	Lumsden JCT	31%	69%
H11L	3	Lumsden JCT	Todmorden JCT	31%	69%
H11L	4	Todmorden JCT	Leaside TS	31%	69%
H11L	7	Waverly OPF	Brookside OPF	31%	69%
H11L	8	Brookside OPF	Main TS	31%	69%
H12P	1	Hearn SS	Portlands Energy JCT	100%	0%
H12P	3	Hearn SS	Hearn SS	100%	0%
H13P	1	Hearn SS	Portlands Energy JCT	100%	0%
H13P	3	Hearn SS	Hearn SS	100%	0%
H14P	1	Hearn SS	Portlands Energy JCT	100%	0%
H14P	3	Hearn SS	Hearn SS	100%	0%
H1L	1	Hearn SS	Basin TS	31%	69%
H1L	2	Basin TS	Mill Street JCT	31%	69%
H1L	3	Mill Street JCT	Gerrard TS	31%	69%
H1L	4	Gerrard TS	Bloor Street JCT	31%	69%
H1L	5	Bloor Street JCT	Leaside TS	31%	69%
H22D	1	Harmon GS	Harmon JCT	100%	0%
H22D	2	Harmon JCT	Smoky Falls JCT	100%	0%
H22D	3	Little Long JCT	Pinard TS	100%	0%
H22D	5	Harmon JCT	Kipling JCT	100%	0%
H22D	6	Smoky Falls JCT	Little Long JCT	100%	0%
H22D	7	Kipling JCT	Kipling GS	100%	0%
H22D	9	Smoky Falls JCT	Smoky Falls 2 JCT	100%	0%
H24S	7	A.P. North Bay JCT	A.P. North Bay JCT	100%	0%
H26C	6	Columbus JCT	Lasco JCT	15%	85%
H26C	10	Lasco JCT	Atlantic Packgng JCT	31%	69%
H26C	12	Atlantic Packgng JCT	Whitby CGS JCT	36%	64%
H26C	19	Whitby CGS JCT	Whitby CGS	100%	0%
H3L	1	Hearn SS	Basin TS	31%	69%
H3L	2	Basin TS	Mill Street JCT	31%	69%
H3L	3	Mill Street JCT	Gerrard TS	31%	69%
H3L	5	Gerrard TS	Bloor Street JCT	31%	69%
H3L	6	Bloor Street JCT	Leaside TS	31%	69%
H3L	9	Gerrard TS	Bloor Street JCT	31%	69%
H6LC	1	Hearn SS	Don Fleet JCT	31%	69%
H6LC	2	Gerrard JCT	Bloor Street JCT	31%	69%
H6LC	3	Bloor Street JCT	Leaside TS	31%	69%
H6LC	4	Gerrard JCT	Cecil TS	31%	69%
H6LC	5	Don Fleet JCT	Gerrard JCT	31%	69%
H7L	1	Hearn SS	Waverly OPF	31%	69%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
H7L	2	Main TS	Lumsden JCT	31%	69%
H7L	3	Lumsden JCT	Todmorden JCT	31%	69%
H7L	4	Todmorden JCT	Leaside TS	31%	69%
H7L	7	Waverly OPF	Brookside OPF	31%	69%
H7L	8	Brookside OPF	Main TS	31%	69%
H8LC	1	Hearn SS	Don Fleet JCT	31%	69%
H8LC	2	Gerrard JCT	Bloor Street JCT	31%	69%
H8LC	3	Bloor Street JCT	Leaside TS	31%	69%
H8LC	4	Gerrard JCT	Cecil TS	31%	69%
H8LC	5	Don Fleet JCT	Gerrard JCT	31%	69%
H9EJ	1	Hearn SS	Don Fleet JCT	31%	69%
H9EJ	2	Don Fleet JCT	Esplanade TS	31%	69%
H9EJ	4	Hearn SS	Hearn SS	31%	69%
H9K	9	Gemini Smooth Rk JCT	Gemini Smooth Rk CGS	99%	1%
H9K	11	Carmichael Falls JCT	Carmichael Falls JCT	100%	0%
J1B	1	Keith TS	Brighton Intface JCT	100%	0%
J20B	1	Keith TS	Brighton Intface JCT	100%	0%
J2N	1	Keith TS	W.Windsor Power JCT	100%	0%
K2	1	Kirkland Lake TS	Gull Lake North JCT	86%	14%
K2	2	Gull Lake North JCT	Gull Lake South JCT	86%	14%
K2Z	4	Woodslee JCT	Lauzon JCT	27%	73%
K2Z	6	Woodslee JCT	Gosfield CGS JCT	30%	70%
K2Z	12	Lauzon JCT	Lauzon TS	21%	79%
K2Z	17	Gosfield CGS JCT	Gosfield Wind CGS	100%	0%
K38S	3	Spruce Falls JCT	A.P. Kapuskasing JCT	100%	0%
K4W	1	Rabbit Lake SS	Minaki JCT	96%	4%
K4W	2	Minaki JCT	Whitedog Falls SS	96%	4%
K5W	1	Rabbit Lake SS	Minaki JCT	96%	4%
K5W	3	Minaki JCT	Whitedog Falls SS	96%	4%
K6Z	3	Belle River JCT	Rourke Line JCT	29%	71%
K6Z	5	Lauzon JCT	Lauzon TS	23%	77%
K6Z	6	Rourke Line JCT	Lauzon JCT	23%	77%
K6Z	11	Pte-Aux-RochesWF JCT	Belle River JCT	29%	71%
K6Z	12	Pte-Aux-RochesWF JCT	Pte-Aux-RochesWF CGS	100%	0%
L12C	1	Leaside TS	Balfour JCT	31%	69%
L12C	2	Balfour JCT	Charles TS	31%	69%
L12C	3	Charles TS	Cecil TS	31%	69%
L1MB	4	St.Lawrence TS	Lunenburg JCT	62%	38%
L1MB	5	Lunenburg JCT	Morrisburg JCT	62%	38%
L1MB	6	Morrisburg JCT	Casco JCT	62%	38%
L1MB	15	Casco JCT	Cardinal Power CSS	62%	38%
L20D	1	Little Long JCT	Smoky Falls JCT	100%	0%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
L20D	10	Smoky Falls JCT	Smoky Falls 2 JCT	100%	0%
L2M	4	St.Lawrence TS	Lunenburg JCT	62%	38%
L2M	5	Lunenburg JCT	Morrisburg JCT	62%	38%
L2M	8	Morrisburg JCT	Casco JCT	62%	38%
L2M	13	Casco JCT	Cardinal Power CSS	62%	38%
L9C	1	Leaside TS	Balfour JCT	31%	69%
L9C	2	Balfour JCT	Charles TS	31%	69%
L9C	3	Charles TS	Cecil TS	31%	69%
M1S	1	Moose Lake TS	Valerie Falls JCT	87%	13%
M1S	2	Mill Creek JCT	H2O Pwr SturgFls CGS	80%	20%
M1S	4	Mill Creek JCT	H2O Pwr Calm Lk CGS	100%	0%
M1S	6	Valerie Falls JCT	Mill Creek JCT	87%	13%
M23L	4	Greenwich WF CGS JCT	Greenwich LakeWF CSS	100%	0%
M24L	4	Greenwich WF CGS JCT	Greenwich LakeWF CSS	100%	0%
M2W	1	Marathon TS	Pic JCT	26%	74%
M2W	2	Pic JCT	Manitouwadge JCT	26%	74%
M2W	6	Manitouwadge JCT	Manitouwadge JCT B	27%	73%
M2W	8	Marathon TS	Black River JCT	40%	60%
M2W	16	Black River JCT	Umbata Falls JCT	40%	60%
M2W	26	Manitouwadge JCT B	Manitouwadge TS	29%	71%
M3E	1	Manitou Falls GS	Ear Falls TS	100%	0%
N6S	1	Sarnia Scott TS	Sarnia Scott JCT	36%	64%
N6S	3	Sarnia Scott JCT	Lanxess Inc JCT	36%	64%
N6S	4	Lanxess Inc JCT	TransAlta Energy JCT	36%	64%
N6S	9	TransAlta Energy JCT	TransAlta Energy JCT	36%	64%
N7S	1	Sarnia Scott TS	Sarnia Scott JCT	36%	64%
N7S	2	Sarnia Scott JCT	Lanxess Inc JCT	36%	64%
N7S	3	Lanxess Inc JCT	TransAlta Energy JCT	36%	64%
N7S	7	TransAlta Energy JCT	TransAlta Energy JCT	36%	64%
N93A	1	Atikokan TGS	Marmion Lake JCT	100%	0%
N93A	2	Marmion Lake JCT	Mackenzie TS	100%	0%
P25W	3	Aubrey Falls JCT	Aubrey Falls CGS	100%	0%
P26W	3	Aubrey Falls JCT	Aubrey Falls CGS	100%	0%
P27C	1	Pickering B SS	Cherrywood TS	100%	0%
P30C	1	Pickering B SS	Cherrywood TS	100%	0%
P31C	1	Pickering B SS	Cherrywood TS	100%	0%
P32C	1	Pickering B SS	Cherrywood TS	100%	0%
P5M	1	Port Arthur TS #1	Conmee JCT	50%	50%
P6C	1	Pickering A SS	Cherrywood TS	100%	0%
P7C	1	Pickering A SS	Cherrywood TS	100%	0%
P8C	1	Pickering A SS	Cherrywood TS	100%	0%
P9C	1	Pickering A SS	Cherrywood TS	100%	0%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
Q10P	1	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	90%	10%
Q10P	3	Abit Cons NAN91 JCT	Q10P STR 9 JCT	90%	10%
Q11S	1	Beck #1 SS	Warner Road JCT	34%	66%
Q11S	2	Warner Road JCT	NOTL York MTS #1 JCT	34%	66%
Q11S	3	McKinnon's JCT	Glendale JCT	34%	66%
Q11S	4	Glendale JCT	Glendale TS	34%	66%
Q11S	8	NOTL York MTS #1 JCT	McKinnon's JCT	34%	66%
Q12S	1	Beck #1 SS	Warner Road JCT	34%	66%
Q12S	2	Glendale JCT	Glendale TS	34%	66%
Q12S	4	NOTL York MTS #1 JCT	Glendale JCT	34%	66%
Q12S	6	Warner Road JCT	NOTL York MTS #1 JCT	34%	66%
Q26M	1	Beck #2 TS	Abit Cons NAN91 JCT	34%	66%
Q26M	2	Abit Cons NAN91 JCT	Crossline JCT	34%	66%
Q26M	3	Crossline JCT	Allanburg TS	34%	66%
Q28A	1	Beck #2 TS	Abit Cons NAN91 JCT	33%	67%
Q28A	2	Abit Cons NAN91 JCT	Allanburg TS	34%	66%
Q28A	3	Abit Cons NAN91 JCT	Abit Cons NAN91 JCT	90%	10%
Q2AH	1	Beck #1 Q2AH JCT	Holland Road JCT	34%	66%
Q2AH	2	Holland Road JCT	Allanburg TS	34%	66%
Q2AH	26	Beck #1 SS	Beck #1 Q2AH JCT	34%	66%
Q30M	6	Allanburg Q30M JCT	Allanburg TS	34%	66%
Q35M	1	Beck #2 TS	Abit Cons NAN91 JCT	34%	66%
Q35M	2	Abit Cons NAN91 JCT	Crossline JCT	34%	66%
Q35M	3	Crossline JCT	Allanburg TS	34%	66%
Q3N	1	Beck #1 SS	Portal JCT	34%	66%
Q3N	2	Portal JCT	Dresser JCT	34%	66%
Q3N	3	Dresser JCT	Niagara JCT	34%	66%
Q3N	4	Niagara JCT	Murray TS	34%	66%
Q4N	1	Beck #1 SS	Portal JCT	34%	66%
Q4N	3	Portal JCT	Dresser JCT	34%	66%
Q4N	4	Dresser JCT	Niagara JCT	34%	66%
Q4N	8	Niagara JCT	Murray TS	34%	66%
Q5B	1	Thunder Bay SS	Abitibi JCT	66%	34%
Q5B	2	Abitibi JCT	James Street JCT	66%	34%
Q5B	3	James Street JCT	St.Paul JCT	66%	34%
Q5B	4	St.Paul JCT	Walsh Street JCT	66%	34%
Q5B	5	Walsh Street JCT	Birch TS	66%	34%
Q6S	6	Odessa JCT	Invista JCT	100%	0%
Q8B	1	Thunder Bay SS	Birch TS	66%	34%
Q9B	1	Thunder Bay SS	Birch TS	100%	0%
R21D	1	Otter Rapids SS	Pinard JCT	100%	0%
R21D	2	Pinard JCT	Pinard TS	100%	0%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
R21D	3	Pinard JCT	Abitibi Canyon GS	100%	0%
R21D	4	Otter Rapids GS	Otter Rapids SS	100%	0%
R9A	2	Alexander SS	Alexander GS	100%	0%
S1C	1	Conmee JCT	Lac Des Iles JCT	50%	50%
S1C	2	Lac Des Iles JCT	Silver Falls GS	100%	0%
S25L	2	Saunders JCT	St.Lawrence TS	100%	0%
S26L	2	Saunders JCT	St.Lawrence TS	100%	0%
S2B	14	Cutler JCT	Serpent River JCT	7%	93%
S2B	24	Spanish JCT	Cutler JCT	7%	93%
S2B	25	Serpent River JCT	Carmeuse Lime JCT	11%	89%
S2B	27	Carmeuse Lime JCT	Blind River TS JCT	11%	89%
S2B	30	Cameron Falls JCT	Spanish JCT	7%	93%
S2B	33	Blind River TS JCT	Algoma TS	11%	89%
S30L	2	Saunders JCT	St.Lawrence TS	100%	0%
S32L	2	Saunders JCT	St.Lawrence TS	100%	0%
T1B	1	Rayner CGS	Wharncliffe JCT	100%	0%
T1B	2	Sowerby JCT	Red Rock CGS	86%	14%
T1B	3	Red Rock CGS	Cobden JCT	86%	14%
T1B	4	Cobden JCT	Striker DS	78%	22%
T1B	5	Striker DS	Algoma TS	68%	32%
T1B	8	Wharncliffe JCT	Sowerby JCT	90%	10%
T27P	1	Wells CGS	Mississagi TS	100%	0%
T27P	2	Mississagi TS	Mississagi TS	100%	0%
T28P	1	Wells CGS	Mississagi TS	100%	0%
T38B	3	Lantz JCT	Trafalgar DESN JCT	64%	36%
T38B	4	Hornby JCT	TCE Halton Hills JCT	64%	36%
T38B	6	Trafalgar DESN JCT	Hornby JCT	64%	36%
T38B	9	TCE Halton Hills JCT	TCE Halton Hills JCT	64%	36%
T39B	3	Lantz JCT	Trafalgar DESN JCT	64%	36%
T39B	4	Hornby JCT	TCE Halton Hills JCT	64%	36%
T39B	6	Trafalgar DESN JCT	Hornby JCT	64%	36%
T39B	9	TCE Halton Hills JCT	TCE Halton Hills JCT	64%	36%
V41N	4	St.Clair E.C. JCT	St.Clair E.C. CGS	100%	0%
V43N	7	St.Clair E.C. JCT	St.Clair E.C. CGS	100%	0%
W2	1	Whitedog Falls GS	Whitedog Falls SS	97%	3%
W3C	1	Whitedog Falls SS	Caribou Falls GS	100%	0%
W71D	4	Lower Notch JCT	Lower Notch GS	100%	0%
W71D	5	Lower Notch JCT	Lower Notch GS	100%	0%
W8T	1	Buchanan TS	W8T STR A1 JCT	42%	58%
W8T	4	Edgeware JCT	Lyons JCT	42%	58%
W8T	5	Lyons JCT	Cranberry JCT	47%	53%
W8T	9	W8T STR A1 JCT	Edgeware JCT	42%	58%

Witness: Henry Andre

Operation Designation	Section #	From	To	% Generator	% Load
WT1T	1	Cranberry JCT	ESWF JCT	47%	53%
WT1T	5	ESWF JCT	ESWF CSS	100%	0%
X1H	8	NPIF Kingston JCT	NPIF Kingston JCT	100%	0%
X1P	1	Massanoga JCT	Dobbin TS	63%	37%
X1P	2	Mountain Chute JCT	Massanoga JCT	64%	36%
X1P	3	Chenau TS	Mountain Chute JCT	61%	39%
X1P	4	Mountain Chute JCT	Mountain Chute GS	100%	0%
X2H	9	NPIF Kingston JCT	NPIF Kingston JCT	100%	0%
X4H	4	Westbrook JCT	Gardiner STR 44 JCT	55%	45%
X4H	6	Gardiner STR 44 JCT	Gardiner TS	55%	45%
Z1E	7	Windsor Transalt JCT	Windsor Transalt CGS	100%	0%

1

**ALLOCATION FACTORS FOR GENERATOR STATION
 CONNECTIONS**

N= Network LC= Line Connection TC=Transformation Connection

Asset Number	Station Name	Functional Category	% Generator	% Load
549	Algoma TS	LC	30%	70%
5354	Allanburg TS	LC	34%	66%
1013	Balfour JCT	LC	31%	69%
1021	Billings JCT	LC	13%	87%
1023	Bloor Street JCT	LC	31%	69%
915	Brookside OPF	LC	31%	69%
8211	Bruce HW Plant B TS	TC	100%	0%
7566	Chenau TS	LC	61%	39%
1220	Conmee JCT	LC	50%	50%
1043	Cranberry JCT	LC	47%	53%
1046	Cyrville JCT	LC	12%	88%
3879	DeCew Falls SS	LC	34%	66%
252	E.V. Buchanan TS	LC	14%	86%
232	Ear Falls TS	TC	81%	19%
3401	Ear Falls TS	LC	41%	59%
1060	Edgeware JCT	LC	42%	58%
1079	Gerrard JCT	LC	31%	69%
1080	Gibson JCT	LC	34%	66%
2047	Goderich TS	TC	47%	53%
1114	Louth JCT	LC	34%	66%
1117	Lumsden JCT	LC	31%	69%
6689	Manitouwadge TS	TC	29%	71%
3828	Marmion Lake JCT	LC	100%	0%
1125	Massanoga JCT	LC	63%	37%
888	NQL1 B JCT	N,LC	53%	47%
1142	Odessa JCT	N,LC	96%	4%
7665	Otter Rapids SS	LC	92%	8%
6952	R.L. Hearn SS	LC	31%	69%
196	Seaforth TS	LC	17%	83%
2942	Sir Adam Beck #1 SS	LC	34%	66%
3450	St. Catharines Glendale TS	LC	34%	66%
218	St. Lawrence TS	LC	62%	38%
1173	Todmorden JCT	LC	31%	69%
1107	Toronto Cecil TS	LC	31%	69%
5418	Toronto Leaside TS	LC	29%	71%
1184	W8T STR A1 JCT	LC	42%	58%
896	Waverly OPF	LC	31%	69%
4	Whitedog Falls SS	LC	96%	4%

Witness: Henry Andre

ASSET VALUE BY FUNCTIONAL CATEGORY

(Mid-Year Average)

Functional Category	Gross Book Value (\$ Millions)		Net Book Value (\$ Millions)	
	2017	2018	2017	2018
Network	7,413.1	8,115.8	4,717.8	5,317.8
Line Connection	2,058.8	2,245.0	1,268.9	1,432.1
Transformation Connection	3,991.0	4,440.0	2,499.9	2,854.7
Network - Dual Function Line	1,115.4	1,249.8	698.2	817.1
Line Connection - Dual Function Line	232.9	260.7	147.2	171.4
Generation Line Connection	359.9	387.7	216.5	241.7
Generation Transformation Connection	73.1	83.7	43.7	52.7
Common	1,087.4	476.5	755.1	90.7
Other Assets	309.6	357.1	180.5	219.6
TOTAL	16,641.1	17,616.4	10,527.8	11,197.7

Witness: Henry Andre

DEPRECIATION BY FUNCTIONAL CATEGORY

(Includes Depreciation of Fixed Assets, Capitalized Depreciation and Asset Removal Costs)

Functional Category	Depreciation (\$ Millions)	
	2017	2018
Network	175.2	213.2
Line Connection	46.1	56.4
Transformation Connection	104.7	128.4
Network - Dual Function Line	23.3	30.4
Line Connection - Dual Function Line	4.8	6.2
Generation Line Connection	8.3	9.9
Generation Transformation Connection	2.1	2.6
Common	51.9	3.4
Other Assets	7.5	10.0
TOTAL	424.0	460.6

Witness: Henry Andre

1 **RETURN ON CAPITAL AND INCOME TAXES BY**
2 **FUNCTIONAL CATEGORY**
3

Functional Category	Capital (\$ Millions)	
	2017	2018
Network	339.1	382.0
Line Connection	91.2	102.9
Transformation Connection	179.7	205.1
Network - Dual Function Line	50.2	58.7
Line Connection - Dual Function Line	10.6	12.3
Generation Line Connection	15.6	17.4
Generation Transformation Connection	3.1	3.8
Common	54.9	7.3
Other Assets	13.0	15.8
TOTAL	757.4	805.3

4

Witness: Henry Andre

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OM&A COSTS BY FUNCTIONAL CATEGORY
(Excludes Property Tax and Rights)

Functional Category	OM&A (\$ Millions)	
	2017	2018
Network	98.7	97.8
Line Connection	20.9	21.0
Transformation Connection	60.0	58.9
Network - Dual Function Line	15.3	15.6
Line Connection - Dual Function Line	3.2	3.3
Generation Line Connection	3.6	3.5
Generation Transformation Connection	1.9	1.9
Common	137.9	136.8
Other Assets	8.0	8.1
TOTAL	349.5	346.9

DETAILED REVENUE REQUIREMENT BY RATE POOL

2017 Detailed Revenue Requirement by Rate Pool

	Rate Pool Revenue Requirement (\$ Millions)			
	Network	Line Connection	Transformation Connection	Total
OM&A	205.1	41.5	102.9	349.5
Taxes other than Income Taxes	37.6	9.4	16.6	63.6
Depreciation of Fixed Assets	218.6	53.0	111.0	382.6
Capitalized Depreciation	(7.1)	(1.8)	(3.2)	(12.1)
Asset Removal Costs	31.4	8.0	14.0	53.4
Other Amortization	7.0	1.7	3.1	11.8
Return on Debt	170.5	42.5	75.1	288.2
Return on Equity	229.6	57.3	101.1	388.0
Income Taxes	48.1	12.0	21.2	81.3
SUB-TOTAL	940.9	223.6	441.9	1,606.3
Less External Revenues	(16.5)	(3.9)	(7.8)	(28.2)
Less WMS Revenue	0.0	0.0	(0.3)	(0.3)
Less Regulatory Asset Credit	(22.6)	(5.4)	(10.6)	(38.6)
Less Export Revenue Variance	(9.2)	0.0	0.0	(9.2)
Less Export Revenues	(39.2)	0.0	0.0	(39.2)
Plus LVSG Credit	0.0	0.0	14.0	14.0
TOTAL*	853.4	214.3	437.1	1,504.7

**This amount is net of the \$0.3million in WMS revenue which accounts for the difference when comparing to the total rates revenue requirement shown in Exhibit E1, Tab 1, Schedule 1.*

Witness: Henry Andre

2018 Detailed Revenue Requirement by Rate Pool

	Rate Pool Revenue Requirement (\$ Millions)			
	Network	Line Connection	Transformation Connection	Total
OM&A	204.1	41.7	101.1	346.9
Taxes other than Income Taxes	38.0	9.5	16.9	64.3
Depreciation of Fixed Assets	230.7	56.1	117.3	404.1
Capitalized Depreciation	(7.5)	(1.9)	(3.4)	(12.8)
Asset Removal Costs	40.6	10.3	18.3	69.2
Other Amortization	6.0	1.5	2.7	10.1
Return on Debt	178.5	44.5	79.3	302.2
Return on Equity	243.7	60.8	108.2	412.6
Income Taxes	53.4	13.3	23.7	90.4
SUB-TOTAL	987.4	235.8	464.0	1,687.2
Less External Revenues	(16.7)	(4.0)	(7.8)	(28.5)
Less WMS Revenue	0.0	0.0	(0.3)	(0.3)
Less Regulatory Asset Credit	(22.6)	(5.4)	(10.6)	(38.6)
Less Export Revenue Variance	(9.2)	0.0	0.0	(9.2)
Less Export Revenues	(40.1)	0.0	0.0	(40.1)
Plus LVSG Credit	0.0	0.0	14.7	14.7
TOTAL*	898.9	226.4	460.0	1,585.3

* This amount is net of the \$0.3million in WMS revenue which accounts for the difference when comparing to the total rates revenue requirement shown in Exhibit E1, Tab 1, Schedule 1.

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