
NPA 902 RELIEF PLANNING COMMITTEE - TIF REPORT

Date Submitted: 23 July 2012

WORKING GROUP: NPA 902 Relief Planning Committee (Ad Hoc)

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REPORT TITLE: Relief Planning Committee (RPC) Recommendation for
NPA 902 Relief (Planning Document and Relief
Implementation Plan)

OUTCOME: Consensus

RELATED TASK(s) #: None

BACKGROUND:

In December 2011 the Canadian Numbering Administrator (CNA) initiated its January 2012 General Numbering Resource Utilization Forecast (G-NRUF). The draft aggregate results of this G-NRUF, released on 29 March 2012, indicated that the Projected Exhaust Date (PED) for NPA 902 had moved in from April 2017 to January 2016. The CNA notified Canadian Radio-television and Telecommunications Commission (CRTC) staff that NPA 902 was in relief planning since the PED was less than fifty (50) months in the future.

On 24 May 2012, the CRTC issued Telecom Notice of Consultation CRTC 2012-309, in which it established a CISC ad hoc Relief Planning Committee (RPC) to examine options for providing relief to area code 902 in Nova Scotia and Prince Edward Island. The Commission also identified that NPA 902 was projected to exhaust in April 2015 and declared NPA 902 to be in a Jeopardy Condition.

In this TIF Report, the NPA 902 Relief Planning Committee is submitting a Planning Document which includes the following recommendations:

- 1) The Relief Method should be a distributed overlay of a new NPA Code on Nova Scotia and Prince Edward Island NPA 902;
- 2) NPA Code 782 should be the Relief NPA Code (at the request of the CNA, NANPA has set aside NPA 782 as a Relief NPA in Canada);
- 3) The Relief Date should be 30 November 2014 in order to provide Carriers and customers with advanced notification and sufficient lead-time to implement relief given the Jeopardy Condition in NPA 902;
- 4) The local dialling plan should be changed to 10 digits for all local calls within NPA 902;
- 5) A 7- to 10-digit local dialling transition period should be implemented commencing on 23 August 2014, with network announcements on calls dialled

using 7 digits phased in over one week between 23 August 2014 and 30 August 2014;

- 6) Mandatory 10-digit local dialling should be implemented commencing on 16 November 2014, with network announcements on calls dialled using 7 digits phased in over one week between 16 November 2014 and 23 November 2014;
- 7) Standard network announcements should be implemented commencing on 2 March 2015 and completed within one month by 2 April 2015; and
- 8) NPA 942 should be set aside for the future relief of NPA 416/437/647.

In addition, the NPA 902 Relief Planning Committee is also submitting a Relief Implementation Plan.

The attached Relief Implementation Plan (RIP) was prepared in accordance with the above recommendations. The RIP establishes a public framework and timeframe for implementing relief for area code 902. The RIP also addresses the activities, deliverables, and issues impacting more than one individual TSP. It does not cover activities internal to each TSP. In addition, this RIP does not cover areas for which there is already an established process for coordination between TSPs to establish service (e.g., interconnection agreements between carriers).

The NPA 902 Relief Planning Committee hereby submits the attached NPA 902 Planning Document, associated Annexes and the Relief Implementation Plan for CISC and Commission approval.

RECOMMENDATIONS:

The NPA 902 Relief Planning Committee recommends that the Commission approve the attached Planning Document and Relief Implementation Plan for NPA 902.

ATTACHMENTS:

NPA 902 Planning Document, dated 18 July 2012
NPA 902 Relief Implementation Plan, dated 18 July 2012

NPA 902



Planning Document (PD)
Version 1.0 – 23 July 2012

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Distribution List

Acronym List

CATF	Consumer Awareness Task Force
CNA	Canadian Numbering Administrator
CISC	CRTC Interconnection Steering Committee
CLECs	Competitive Local Exchange Carriers
CO	Central Office
CRTC	Canadian Radio-television and Telecommunications Commission
G-NRUF	General Numbering Resource Utilization Forecast
ILECs	Incumbent Local Exchange Carriers
IPD	Initial Planning Document
JCP	Jeopardy Contingency Plan
J-NRUF	Jeopardy Numbering Resource Utilization Forecast
LIRs	Local Interconnection Regions
NANP	North American Numbering Plan
NITF	Network Implementation Task Force
NPA	Numbering Plan Area, (Area Code)
NRUF	Number Resource Utilization Forecasts
PD	Planning Document
PED	Projected Exhaust Date
POI	Point of Interconnection
RIP	Relief Implementation Plan
R-NRUF	Relief Planning Numbering Resource Utilization Forecast
RPC	Relief Planning Committee
TSPs	Telecommunications Service Providers
WNP	Wireless Number Portability
WSPs	Wireless Service Providers

Planning Document (PD) Number Plan Area (NPA) 902 Relief

1. INTRODUCTION

The 902 area code consists of 173 Exchange Areas serving the provinces of Nova Scotia and Prince Edward Island which includes the major communities of Amherst, Antigonish, Bridgewater, Charlottetown, Halifax, Kentville, New Glasgow, Port Hawkesbury, Sackville, Summerside, Sydney, Truro and Yarmouth. A list of the Exchange Areas in NPA 902 is provided in Annex B.

Most of the growth for existing service providers in area code 902 is concentrated in less than ten (10) Exchange Areas, with the majority of this growth being in the Exchange Areas of Antigonish, Bridgewater, Charlottetown, Halifax, Kentville, New Glasgow, Summerside, Sydney and Yarmouth. However the growth due to new service providers introducing initial service in new areas is spread over a larger number of Exchange Areas throughout area code 902, with proportionally greater growth occurring outside the major communities. The total combined growth is therefore not concentrated in or limited to the Exchange Areas serving the major communities. See Annex B Table 1 for a list of Exchange Areas in NPA 902.

The introduction of Local Interconnection Regions (LIRs), the implementation of Wireless Number Portability (WNP), and initial Central Office (CO) Codes for new Competitive Local Exchange Carriers (CLECs) and Wireless Service Providers (WSPs) have accelerated demand for CO Codes throughout area code 902.

In December 2011 the Canadian Numbering Administrator (CNA) initiated its January 2012 General Numbering Resource Utilization Forecast (G-NRUF). The draft aggregate results of this G-NRUF, released on 29 March 2012, indicated that the Projected Exhaust Date (PED) for NPA 902 had moved in from April 2017 to January 2016. Because the PED was less than fifty (50) months in the future, it was necessary to start relief planning immediately. The CNA notified Canadian Radio-television and Telecommunications Commission (CRTC) staff that NPA 902 is in relief planning, and asked the CRTC to issue a Telecom Notice of Consultation for the establishment of a CISC ad hoc committee for area code relief planning in area code 902 for the provinces of Nova Scotia and Prince Edward Island.

On 24 May 2012, the CRTC issued Telecom Notice of Consultation CRTC 2012-309, in which it established a CISC ad hoc Relief Planning Committee (RPC) to examine options for providing relief to area code 902 in Nova Scotia and Prince Edward Island.

The Notice of Consultation directed the RPC to set aside, at a minimum, 7 Central Office (CO) Codes for initial code assignments for Carriers already providing service in the area served by area code 902, and 10 CO Codes for initial code assignments exclusively for new entrants.

In the Notice of Consultation the Commission noted that the Projected Exhaust Date (PED) for NPA 902 will be April 2015 once the 17 CO Codes mentioned above have been set aside. As a result, area code 902 is now in a Jeopardy Condition as determined by the CRTC-approved Canadian NPA Relief Planning Guideline (the Guideline).

This IPD is prepared by the CNA in accordance with the Guideline dated 2 June 2009. A copy of the Guideline is available from the CRTC CISC guidelines web page at: <http://www.crtc.gc.ca/cisc/eng/cisf3fg.htm> or via a link from the CNA website at http://www.cnac.ca/npa_codes/npa_assign_guidelines.htm.

The objective of the NPA Relief Planning process is to ensure that CO Codes and telephone numbers are always available for use by Telecommunications Service Providers (TSPs) and their customers in the geographic area requiring relief.

Various options for providing NPA relief in the NPA 902 geographic area are identified in this IPD. Given the magnitude of this undertaking, intercompany commitment and co-operation are essential throughout the planning, provisioning and implementation stages of the introduction of a new NPA.

It is very important to closely monitor the CO Code requirements of all existing and prospective CO Code Holders so that relief can be timed to ensure that CO Codes and telephone numbers are always available for service providers and customers. It is also important that a Jeopardy Condition should be avoided wherever possible.

2. NPA RELIEF PLANNING PROCESS

The NPA Relief Planning process, and the roles of the participants (e.g., CRTC, CNA, CISC, RPC participants, Interested Parties) for NPA Relief Planning are identified in the CRTC-approved Canadian NPA Relief Planning Guideline (the Guideline), dated 2 June 2009.

A copy of the Guideline is available from the CRTC CISC CSCN guidelines web page at <http://www.crtc.gc.ca/cisc/eng/cisf3fg.htm> or via a link from the CNA website at http://www.cnac.ca/npa_codes/npa_assign_guidelines.htm.

To increase public awareness and participation in the NPA Relief Planning process, the CRTC has determined that NPA RPCs will be established as ad hoc committees of the CISC. Generally, a separate ad hoc committee is created to deal with relief in each area code. The CNA, in its function as NPA Relief Planning Coordinator, acts as chair of these ad hoc committees. Meetings and conference calls of the ad hoc NPA RPCs are all open to public participation and are conducted in accordance with the CISC Administrative Guidelines.

A copy of the CISC Administrative Guidelines can be obtained from the CRTC website at <http://www.crtc.gc.ca/public/cisc/c-docs/CISC2001-03-31.doc>.

NPA Relief Planning is conducted under the regulatory oversight of the CRTC. Notwithstanding the process detailed in the Guideline, the CRTC may exercise its authority under the Telecommunications Act to alter this process at any time. The CRTC has the authority under the Telecommunications Act to review, modify and give final approval to the Planning Document (PD) and the Relief Implementation Plan (RIP) developed and submitted by the RPC to the CRTC via the CISC process.

Section 6.1.6 of the Canadian NPA Relief Planning Guideline requires the CNA to create and maintain a distribution list of parties who may be interested in participating in the RPC and to provide them with advance notice of the initial RPC meeting and the IPD.

Any person wishing to participate in the NPA Relief Planning process can contact the CNA and request to be added to the RPC distribution lists. In addition, individuals can also register with the CRTC as interested parties to any proceedings that result from the NPA Relief Planning process. More information on how to participate in CRTC public processes is available at: http://www.crtc.gc.ca/eng/info_sht/g4.htm.

A summary of Canadian geographic area code relief history is available at: www.cnac.ca/npa_codes/NPA_History.pdf.

3. NPA RELIEF METHODS

The three basic NPA Relief Methods (i.e., geographic split, overlay and boundary realignment) are described in detail in section 5.0 of the Canadian NPA Relief Planning Guideline. The purpose of this section is to identify and briefly describe those methods. For additional details refer to the Guideline at: <http://www.crtc.gc.ca/cisc/eng/cisf3fg.htm>.

The term Numbering Plan Area (NPA) refers to a discrete geographic area, within the area served by the North American Numbering Plan (NANP), to which one or more NPA Codes (also known as area codes) may be assigned (e.g., the city of Toronto is a Numbering Plan Area (NPA) to which NPA Codes 416/437/647 are assigned).

Split:

Under the geographic split method, the geographic area served by an existing NPA is generally divided or "split" into two or more unique geographic areas (i.e., two or more new NPAs). One of the areas retains the existing NPA Code, and the other area(s) changes to a new NPA Code(s).

Overlay:

Under the overlay method, a relief NPA Code is generally superimposed or "overlaid" on top of part or all of an existing NPA. With overlays, changes to existing customers' telephone numbers are not required. Four types of overlays are described in the Guideline as follows. Under the distributed overlay method, a new relief NPA Code is "overlaid" on top of all of an exhausting NPA. Under a concentrated overlay method, a new relief NPA Code is "overlaid" on top of part of an exhausting NPA (e.g., over a fast growing metropolitan area within an existing NPA). Under a boundary extension overlay method, the boundary of an existing NPA that has spare capacity is extended to overlay part or all of an exhausting NPA. Under a technology-specific overlay, a new NPA Code would be assigned to overlay an exhausting NPA and the numbering resources in the new NPA Code would be used only for a specific type of technology (e.g., wireline telephones, wireless telephones, facsimile).

Boundary Realignment:

Under the boundary realignment method, the boundary between the NPA that requires relief and an adjacent NPA are modified such that some of the customers in the exhausting NPA have their telephone numbers changed by being given telephone numbers in a different NPA Code in the adjacent NPA.

Once the necessity for NPA Code relief is established, all NPA Code Relief Methods are considered.

4. NPA EXHAUST INFORMATION

As indicated in the following table, NRUFs for NPA 902 were used to determine Projected Exhaust Dates (PEDs), i.e. the dates when CO Codes in NPA 902 would be expected to exhaust.

NRUF	Projected Exhaust Date
G-NRUF January 2010	February 2018
G-NRUF January 2011	May 2017
R-NRUF July 2011	April 2017
R-NRUF January 2012	January 2016
R-NRUF January 2012 (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for Carriers already providing service, and 10 for initial code assignments for new entrants)	May 2015

When the initial 2012 R-NRUF results were adjusted per the Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for Carriers already providing service, and 10 for initial code assignments for new entrants the PED advanced to May 2015.

Refer to Annex A, Figures 2, 3, 4, 5, and 6 for graphs of forecasted CO Codes and charts of Miscellaneous and LEC + WSP CO Codes in area code 902.

5. RELIEF OPTIONS

Relief Options are alternative approaches for providing relief to an exhausting NPA. Each Relief Option generally utilizes one or more of the three (3) basic Relief Methods, specifically split, overlay or boundary realignment as described in the Canadian NPA Relief Planning Guideline (see Section 3 for a brief description of each method).

Based on the basic Relief Methods, the following Relief Options were identified and examined in detail:

- Geographic Split – Six (6) options (Options 1, 2, 3, 4, 5, 6)
- Concentrated Overlay – One (1) option (Option 7)
- Distributed Overlay – One (1) option (Option 8)

Relief Options using a boundary extension overlay and boundary realignment were not examined by the CNA because such options would create area codes that would create geographic confusion for customers and technical difficulties for TSPs.

See Annex A, Figures 8 through 13 for diagrams of the Relief Options identified by the CNA.

The Relief Options identified above were evaluated using the following assumptions:

- The Relief Date for the geographic split and distributed overlay options will be 1st Q 2014 (fourteen (14) months prior to the NPA 902 PED of May 2015 identified using the May 2012 NOC R-NRUF results).
- The Relief Date for the concentrated overlay option will be 3rd Q 2013 (twenty (20) months prior to the NPA 902 PED of May 2015 identified using the May 2012 NOC R-NRUF results).

5.1. Geographic Split

Six (6) different Relief Options were evaluated to introduce a new area code in the NPA 902 area using the geographic split method of providing CO Code relief. With each of these options, number changes are required in the area that does not retain NPA 902. Selecting a split option for NPA Relief will impact from 15% to 85% of the customers with a number change.

A major attribute of a split is usually that the 7-digit local dialling plan does not have to be changed in either portion of the split area code.

It is assumed that after the split, local calls in NPA 902 and the new NPA will be dialled using 7-digits. Code Protection would be required between NPA 902 and the new NPA because there is Local Free Calling between the Exchange Areas of the split regions.

All of the split options are based on LIRs. An LIR is a geographic area specified by Incumbent Local Exchange Carriers (ILECs) within which traffic is exchanged with CLECs on a Bill and Keep basis as specified in Telecom Decisions CRTC 2004-46 and 2006-35 *Trunking arrangements for the interchange of traffic and the point of interconnection between local exchange carriers*. LIRs are unique groupings of ILEC Exchange Areas which provide for more efficient interconnection between Local Exchange Carriers (LECs).

5.1.1. Split Option 1 & Option 2

Split Options 1 and 2 – Halifax LIR in one NPA, and Cape Breton, Pictou, Queens and Yarmouth LIRs in the new NPA

Relief Option 1 – the Halifax LIR retains NPA 902, and Cape Breton, Pictou, Queens and Yarmouth LIRs change to the new NPA:

- 66 Exchange Areas in the Halifax LIR retain NPA 902, and 107 Exchange Areas in the Cape Breton, Pictou, Queens and Yarmouth LIRs change to the new NPA

Relief Option 2 – the Halifax LIR changes to the new NPA and the Cape Breton, Pictou, Queens and Yarmouth LIRs retain NPA 902:

- 66 Exchange Areas in the Halifax LIR change to the new NPA, and 107 Exchange Areas in the Cape Breton, Pictou, Queens and Yarmouth LIRs retain NPA 902

With these options (Relief Options 1 and 2), CO Codes assigned in existing NPA 902 would split as follows, with number changes required in one of the two areas:

Area	Assigned CO Codes in NPA 902 (as of 2012-07)		Projected Exhaust Date (as of 2012-07)
	#	% of total	
66 Exchange Areas in the Halifax LIR	357	49%	2041
107 Exchange Areas in the Cape Breton, Pictou, Queens and Yarmouth LIRs	365	51%	2059

With these two options (Relief Options 1 and 2); number changes would be required in either region (as defined above).

If 7-digit local dialling is maintained between NPA 902 and the new NPA, Code Protection would be required due to existing local calling arrangements between the Yarmouth LIR and Halifax LIR Exchange Areas as shown below:

Yarmouth LIR	Halifax LIR
Annapolis Royal	Caledonia
Aylesford	Kentville
	New Ross
	Springfield
Berwick	Kentville
Canning	Kentville
	Wolfville
Middleton	Springfield
Lockeport	Port Mouton

If 7-digit local dialling is maintained between NPA 902 and the new NPA, Code Protection would be required due to existing local calling arrangements between the Pictou LIR and Halifax LIR Exchange Areas as shown below:

Pictou LIR	Halifax LIR
Hopewell	Upper Musquodoboit
	Upper Stewiacke
Liscomb	Ecum Secum
New Glasgow	Upper Stewiacke
Port Dufferin	Ecum Secum
	Sheet Harbour
River John	Truro
Saltsprings	Truro
	Upper Stewiacke
Tatamagouche	Debert
	Truro
	Wallace
	Wentworth

5.1.2. Split Option 3 & Option 4

Split Options 3 and 4 – Halifax and Yarmouth LIRs in one NPA, and Cape Breton, Pictou, and Queens LIRs in the new NPA

Relief Option 3 – the Halifax and Yarmouth LIRs retain NPA 902, and the Cape Breton, Pictou, and Queens LIRs change to the new NPA:

- 93 Exchange Areas in the Halifax and Yarmouth LIRs retain NPA 902, and 80 Exchange Areas in the Cape Breton, Pictou and Queens LIRs change to the new NPA

Relief Option 4 – the Halifax and Yarmouth LIRs change to the new NPA and the Cape Breton, Pictou, and Queens LIRs retain NPA 902:

- 93 Exchange Areas in the Halifax and Yarmouth LIRs change to the new NPA and 80 Exchange Areas in the Cape Breton, Pictou, and Queens LIRs retain NPA 902

With these options (Relief Options 3 and 4), CO Codes assigned in existing NPA 902 would split as follows, with number changes required in one of the two areas:

Area	Assigned CO Codes in NPA 902 (as of 2012-07)		Projected Exhaust Date (as of 2012-07)
	#	% of total	
93 Exchange Areas in the Halifax and Yarmouth LIRs	462	64%	2033
80 Exchange Areas in the Cape Breton, Pictou, and Queens LIRs	260	36%	2086

With these two options (Relief Options 3 and 4); number changes would be required in either region (as defined above).

If 7-digit local dialling is maintained between NPA 902 and the new NPA, Code Protection would be required due to existing local calling arrangements between the Yarmouth LIR and Halifax LIR Exchange Areas as shown below:

Pictou LIR	Halifax LIR
Hopewell	Upper Musquodoboit
	Upper Stewiacke
Liscomb	Ecum Secum
New Glasgow	Upper Stewiacke
Port Dufferin	Ecum Secum
	Sheet Harbour
River John	Truro
Saltsprings	Truro
	Upper Stewiacke
Tatamagouche	Debert
	Truro
	Wallace
	Wentworth

5.1.3. Split Option 5 & Option 6

Split Options 5 and 6 –Province of Nova Scotia in one NPA and Province of Prince Edward Island in the other NPA

Relief Option 5 –: Province of Nova Scotia retains NPA 902 and Province of Prince Edward Island changes to new NPA:

- 147 Exchange Areas the Province of Nova Scotia retain NPA 902 and 26 Exchange Areas in the Province of Prince Edward Island change to the new NPA

Relief Option 6 – Province of Nova Scotia changes to new NPA and Province of Prince Edward Island retains NPA 902:

- 147 Exchange Areas the Province of Nova Scotia change to the new NPA and 26 Exchange Areas in the Province of Prince Edward Island retain NPA 902

With these options (Relief Options 5 and 6), CO Codes assigned in existing NPA 902 would split as follows, with number changes required in one of the two areas:

<i>Area</i>	<i>Assigned CO Codes in NPA 902 (as of 2012-07)</i>		<i>Projected Exhaust Date (as of 2012-07)</i>
	<i>#</i>	<i>% of total</i>	
147 Exchange Areas in the Province of Nova Scotia	614	85%	2022
26 Exchange Areas in the Province of Prince Edward Island	108	15%	2180

With these two options (Relief Options 5 and 6); number changes would be required in either region (as defined above).

5.2. Concentrated Overlay

One (1) concentrated overlay Relief Option was evaluated to provide CO Code relief in the NPA 902 geographical area.

5.2.1. Concentrated Overlay of the new NPA Code on the Province of Nova Scotia (Option 7):

This Relief Option would overlay the new NPA Code over the 147 Exchange Areas of the Province of Nova Scotia and the 26 Exchange Areas in the Province of Prince Edward Island would continue to grow using CO Codes from NPA 902.

With this concentrated overlay, NPA 902 and the new NPA Code would be expected to exhaust in 2Q 2027 and 4Q 2053 respectively.

This option retains the single NPA Relief Planning area in Nova Scotia and Prince Edward Island. Currently, two new NPA Codes would be required within the next 20-year period.

5.3. Distributed Overlay

One (1) distributed overlay Relief Option was evaluated to provide CO Code relief in the NPA 902 geographical area.

5.3.1. Distributed Overlay of New NPA Code on NPA 902 (Option 8):

This Relief Option would overlay the new NPA Code over the 173 Exchange Areas comprising the NPA 902 area.

With this overlay, NPA 902 and the new NPA Codes would be expected to exhaust in 3Q 2050.

This option retains the single NPA Relief Planning area in Nova Scotia and Prince Edward Island. Currently, one new NPA Code would be required within the next 20-year period.

The following table summarizes the Relief Options, Projected Exhaust Dates, Relief Timing and Type, and Impacts:

Relief Option		Projected Exhaust Dates		Relief - Timing & Type		CO Codes affected by No. changes (Qty/% of total)	Local Dial # of digits
#	Description	NPA 902	New NPA	Relief Date	Type		
1	Split – Halifax LIR retains NPA 902, and Cape Breton, Pictou, Queens and Yarmouth LIRs change to the new NPA	2015 2041	2059	2014 (902) 2040 (902) 2058 (New NPA)	S ? ?	357 / 49% ? ?	7 ? ?
2	Split – Halifax LIR changes to the new NPA and the Cape Breton, Pictou, Queens and Yarmouth LIRs retain NPA 902	2015 2059	2041	2014 (902) 2040 (New NPA) 2058 (902)	S ? ?	365 / 51% ? ?	7 ? ?
3	Split – Halifax and Yarmouth LIRs retain NPA 902, and the Cape Breton, Pictou, and Queens LIRs change to the new NPA	2015 2033	2086	2014 (902) 2032 (902) 2085 (new NPA)	S ? ?	260 / 36% ? ?	7 ? ?
4	Split – Halifax and Yarmouth LIRs change to the new NPA and the Cape Breton, Pictou, and Queens LIRs retain NPA 902	2015 2086	2033	2014 (902) 2032 (new NPA) 2085 (902)	S ? ?	462 / 64% ? ?	7 ? ?
5	Province of Nova Scotia retains NPA 902 and Province of Prince Edward Island changes to new NPA	2015 2022	2180	2014 (902) 2021 (902) 2179 (new NPA)	S ? ?	614 / 85%	7 ? ?
6	Province of Nova Scotia changes to new NPA and Province of Prince Edward Island retains NPA 902	2015 2180	2022	2014 (902) 2021 (new NPA) 2179 (902)	S ? ?	108 / 15%	7 ? ?
7	Concentrated Overlay of the new NPA Code on the Province of Nova Scotia and Province of Prince Edward Island would continue to grow using NPA 902 resources	2015 2027	2053	2014 (902) 2026 (902) 2052 (new NPA)	CO ? ?	Nil ? ?	10* 10 10
8	Distributed Overlay of New NPA on NPA 902	2015	2050	2014 (902) 2049 (new NPA)	O ?	Nil ?	10 10
Key	7-D = 7-digit local dialling retained, 10-D = mandatory 10-digit local dialling, CO = Concentrated Overlay O = Overlay, S= Split, ? = Unknown (subsequent relief type, Qty of CO Codes affected by No. Changes, and dial plan)						

***Note:** In Relief Option 7, Prince Edward Island customers may be able to retain 7-digit local dialling.

6. COMPARATIVE ASSESSMENT OF RELIEF OPTIONS

The RPC identified eight (8) Relief Options in section 5 of this document. A Pro, Neutral or Con (P, N or C) rating was established for each Relief Option for each of the following attributes. The results are listed in the table below the list of attributes.

- A. NPA Code Conservation – quantity of new NPAs required in Nova Scotia and Prince Edward Island within the next 20 years after relief (2014-2034) (P = 0 new NPAs; N = 1 new NPA; C = 2 or more new NPAs)
- B. Number of separate Relief Planning areas in Nova Scotia and Prince Edward Island in the long term (P = decrease; N = stays same; C = increase)
- C. Quantity of Potential Number Changes for existing customers' numbers either immediately or in the future (P = none; C = many)
- D. Level of Carrier Costs – e.g., including implementation, customer awareness, rate of return (P = Low; N = Medium; C = High)
- E. Time required to implement relief, i.e., time between the CRTC's Decision date and the date when CO Codes in the new/relief NPA can be activated (P = shortest; N = medium; C = longest)
- F. Longevity – the length of time between this relief and subsequent relief activity in NPA 902 (e.g., a new area code) (P = 15 or more years; N = 9 through 14 years; C = within 8 years)
- G. Established Geographic Identities – changes in boundaries of existing NPAs (P = none; C = 1 or more existing NPAs affected)
- H. New Geographic Identities – boundaries of new NPA align with boundaries of known areas (e.g., existing NPA areas, provinces) or identifiable geographical features (e.g., rivers, islands) (P = aligns with existing NPA boundaries; N = aligns with geographical features but not with existing NPA boundaries; C = aligns with neither existing NPA boundaries, nor identifiable geographical features)
- I. Creates areas with mix of 7- and 10-digit local dialling in Nova Scotia and Prince Edward Island (P = none; N = minor amount; C = significant)
- J. Consistent with the transition towards universal 10-digit local dialling, the Uniform Dialling Plan and future NANP Expansion (P = Yes; C = No)
- K. Reprogram Mobile Phones – requirement to reprogram wireless devices to accommodate the number changes (P = Low; C = High)
- L. Potential maximum quantity of NPAs in an Exchange Area in the next 20 years after relief (2014-2034) (P = 1 NPA; N = 2 NPAs)

Relief Option		Pro, Neutral or Con for Each Attribute												Rating
#	Description	A	B	C	D	E	F	G	H	I	J	K	L	
1	Split – Halifax LIR retains NPA 902, and Cape Breton, Pictou, Queens and Yarmouth LIRs change to the new NPA	P	C	C	C	C	P	C	C	N	C	C	P	-5
2	Split – Halifax LIR changes to the new NPA and the Cape Breton, Pictou, Queens and Yarmouth LIRs retain NPA 902	P	C	C	C	C	P	C	C	N	C	C	P	-5
3	Split – Halifax and Yarmouth LIRs retain NPA 902, and the Cape Breton, Pictou, and Queens LIRs change to the new NPA	N	C	C	C	C	P	C	C	N	C	C	N	-7
4	Split – Halifax and Yarmouth LIRs change to the new NPA and the Cape Breton, Pictou, and Queens LIRs retain NPA 902	N	C	C	C	C	P	C	C	N	C	C	N	-7
5	Province of Nova Scotia retains NPA 902 and Province of Prince Edward Island changes to new NPA	N	C	C	C	C	C	C	N	P	C	C	N	-7
6	Province of Nova Scotia changes to new NPA and Province of Prince Edward Island retains NPA 902	N	C	C	C	C	C	C	N	P	C	C	N	-7
7	Concentrated Overlay of the new NPA Code on the Province of Nova Scotia and Province of Prince Edward Island would continue to grow using NPA 902 resources	N	N	P	N	N	N	P	N	C*	C*	P	N	+4
8	Distributed Overlay of New NPA on NPA 902	P	N	P	P	P	P	P	P	P	P	P	N	+10

***Note:** In Relief Option 7, Prince Edward Island customers may be able to retain 7-digit local dialling.

It should be noted that none of the options require Exchange Area boundary changes.

If P, N and C are assigned a weighting of +1, 0 and -1, respectively, then analysis of the above table gives the highest rating of +10 points to Relief Option 8, and the next highest rating of +4 points to Relief Option 7 and the subsequent ratings of -5 for Relief Options 1 and 2 and, finally, -7 for Relief Options 3, 4, 5 and 6.

Relief Option 8 (Distributed Overlay of New NPA on NPA 902) is clearly superior when assessed using the above criteria.

Splits

With the split options, number changes would be required for between 15% and 85% of existing customers in NPA 902, which would be very inconvenient for those people.

In addition, the first four split options divide Nova Scotia, resulting in one NPA covering both a portion (but not all) of Nova Scotia and all of Prince Edward Island. Split options 1 and 2 also create a discontinuous NPA region, which would be confusing.

A split option along provincial boundaries (which has the most identifiable boundaries) would result in a very small NPA region for Prince Edward Island severely under-utilizing numbering resources while subsequent relief would be needed in short order in Nova Scotia.

Many wireless communication devices have to be reprogrammed, therefore customers will be inconvenienced by having to take their sets to their service providers for reprogramming and significant associated Wireless Carrier costs would be incurred.

This solution will cause considerable additional expense for Carriers and consumers. The impacts for Carriers would be changes to IT systems, network architecture, consumer awareness programs, etc., for both wireline and wireless. The impacts for consumers would include changing CPE, advertising, stationery, etc.

In summary:

- Worst customer experience due to number changes
- Greatest cost to Carriers
- May drive customer confusion
- Worst NPA utilization
- No long term advantage
- Options 5 and 6 provide Prince Edward Island with its own NPA
- Retains current 7-digit local dialling in the region

Concentrated Overlay

The implementation of a new NPA using a concentrated overlay Relief Option for part of the geographic area served by NPA 902 could potentially require a third NPA (including NPA 902) or a boundary extension of the second NPA to be implemented in a separate relief project which will cause additional future expense in the short term due to further relief planning in Prince Edward Island. In addition, the concentrated overlay would create a Number Planning Area outside the concentrated overlay area with a very small population size which would be very inefficient from a numbering conservation and use perspective.

One advantage is that no wireless communication devices have to be reprogrammed, therefore customers will not be inconvenienced by having to take their sets to their service providers for reprogramming and associated Wireless Carrier costs would not be incurred.

Another advantage to the concentrated overlay option would be to delay introduction of a new NPA in Prince Edward Island.

Since NPA 902 is in a Jeopardy Condition and the RPC is recommending a November 30, 2014 Relief Date, there is not sufficient time to implement the Concentrated Overlay and maintain enough CO Codes to support NPA 902 growth in Prince Edward Island in a meaningful way. Therefore, the RPC is of the opinion that this Relief Option is not viable.

In summary:

- May drive customer confusion
- Additional NPA relief activities needed shortly in Prince Edward Island with increased cost to Carriers
- Maintain 7-digit local dialling in Prince Edward Island for a short-term
- Best customer experience with no customer number changes
- Delay introduction of a new NPA in Prince Edward Island
- Will require advancing the new NPA implementation date significantly

Distributed Overlay

With an overlay, customer telephone number changes would not be required although 10-digit local dialling will be introduced.

A distributed overlay of a new NPA Code on NPA Code 902 would cost less for Carriers to implement and manage in the future than all other Relief Options considered by the RPC.

No wireless communication devices have to be reprogrammed, therefore customers will not be inconvenienced by having to take their sets to their service providers for reprogramming and associated Wireless Carrier costs would not be incurred.

The distributed overlay option would retain the existing boundaries of the NPA 902 area, thus maintaining the geographic identity of NPA 902 with the entire provinces of Nova Scotia and Prince Edward Island, and would retain a single relief planning area in the region, as opposed to two areas in the split options.

A distributed overlay would provide the longest time frame before another exhaust would occur as the new Projected Exhaust Date for this region would be 2050.

Since 2000, NPA relief in Canada has been provided through overlay methods and predominantly through distributed overlays. Consequently, most Carriers are familiar with implementing the distributed overlay Relief Option.

In summary:

- Best NPA utilization resulting in the longest relief period
- Best customer experience with no customer number changes
- Lowest cost to Carriers
- No wireless communication devices have to be reprogrammed
- Maintains single relief planning area
- Requires 10-digit dialling but aligns with the majority of Canada and one step closer to the Uniform Dialling Plan

7. DIALLING IMPACTS FOR LOCAL CALLS

Currently the dialling for local calls within NPA 902 and across its boundaries is as follows:

Currently the dialling for local calls within NPA 902 and across its boundaries is as follows:

- 7-digit dialling for local calls within NPA 902;
- in addition to providing 7-digit dialling for local calls within NPA 902, most TSPs permit 10-digit dialling, or 10- and 11-digit dialling;
- 10-digit local calling between NPA 902 and adjacent Canadian NPA 506 between Amherst, Nova Scotia and Sackville, New Brunswick; and
- no local calling between NPA 902 and other adjacent NPAs.

NPA relief will have the following impacts on dialling for local calls originated in the NPA 902 area:

- All existing 7-digit dialling will be eliminated and 10-digit local dialling will become mandatory.

After NPA relief, dialling for local calls will be as follows:

Type of Relief	Local calls originating in NPA 902 and new NPA			Local calls between NPA 506 (Sackville) and NPA 902 &/or new NPA (Amherst)
	Within NPA 902	Within new NPA	Between NPA 902 and new NPA	
Overlay	7-digit dialling eliminated and mandatory 10-digit dialling introduced In Relief Option 7, Prince Edward Island customers may be able to retain 7-digit local dialling.			Mandatory 10-digit dialling already exists

The Canadian NPA Relief Planning Guideline section 4.10 specifies that Code Protection be eliminated on relief, which means mandatory 10-digit dialling must be introduced for all local calls across NPA boundaries, unless the CRTC approves otherwise. An exception would not normally be justified if it would affect the life of the relief. In addition, if the amount of Code Protection is sufficient to affect the life of the relief a significant administrative burden for managing such Code Protection would be created.

Note regarding long-distance calling: Regardless of the Relief Option approved, NPA relief will not affect the dialling plan for long-distance calls originating in NPA 902 and other NPAs. No local calling will become long-distance, and no long-distance calling will become local as a result of NPA relief.

8. IMPLEMENTATION OF MANDATORY 10-DIGIT LOCAL DIALLING

In Telecom Regulatory Policy CRTC 2009-156, section 13, regarding dialling plan changes, the Commission retained the general obligation for all relevant TSPs to inform all customers about dialling plan changes but that TSPs may determine the appropriate methods to inform their customers. Accordingly, TSPs may determine the appropriate methods for informing their customers of dialling plan changes that will occur as part of NPA relief projects (e.g., network announcements on 7-digit dialled calls, bill messages and inserts, customer letters, e-mail messages, media advertising, web sites, etc.).

Equipment used by Local Exchange Carriers to provide service in some Exchange Areas may not be able to connect a call following an announcement (i.e., cut-through), as is usually expected during transition to an overlay. Investments that would be required to upgrade or replace network elements to provide transition announcements in some communities could be significant relative to their size, and such investments would provide a capability that would only be used for a short time, i.e. during the dialling transition period.

9. CO CODES FOR INITIAL CODE ASSIGNMENTS AND CO CODES FOR INITIAL CODE ASSIGNMENTS FOR NEW ENTRANTS ONLY

When area code relief planning becomes necessary, the CRTC usually directs that quantities of CO Codes in an exhausting NPA be set aside prior to relief as unavailable for assignment in order to ensure that some CO Codes in the exhausting NPA will be available after relief via an overlay for initial code assignments for new entrants only and for initial code assignments for applicants in general or those already providing service in the NPA. In the absence of a Jeopardy Condition, exhaust of the NPA, or a split, the set-aside CO Codes would only be available after relief via an overlay, and any set-aside CO Codes remaining two (2) years after the overlay would be returned to the general pool.

A New Entrant is an entity who, at the time of their first request for assignment of CO Code(s) in an NPA, does not provide any telecommunications services and does not hold any CO Codes within the boundaries of the NPA.

Direction regarding set-aside CO Codes is provided by subparagraphs a), b) and c) of the fifth paragraph of section 9.1 of the Canadian NPA Relief Planning Guideline, which requires that the RPC establish the following as part of the JCP:

- a) *If the CRTC has directed, or the RPC has recommended (e.g., per section 5.2 of this guideline), that CO Codes in the exhausting NPA be set aside for initial code assignments for New Entrants only for assignment following relief, then, if all other available CO Codes in the exhausting NPA have been assigned, or if the CRTC has approved a split, these set-aside codes should be made available during the Jeopardy Condition for assignment as initial codes for New Entrants only, i.e. for assignment prior to relief.*
- b) *If the CRTC has directed, or the RPC has recommended (e.g., per section 5.2 of this guideline), that CO Codes in the exhausting NPA be set aside for initial code assignments for applicants in general for assignment following relief, then the JCP should specify that these set-aside CO Codes will become available for general assignment when a Jeopardy Condition is in effect.*
- c) *If a Jeopardy Condition is in effect and, if all other available CO Codes in the exhausting NPA have been assigned, CRTC staff may make some or all of the CO Codes in the two pools identified in a) and b), above, available for assignment to any entity for any purpose.*

Telecom Notice of Consultation CRTC 2012-309, *Establishment of a CISC ad hoc committee for area code relief planning for area code 902 in Nova Scotia and Prince Edward Island*, was issued by the Commission on 24 May 2012. In the Notice of Consultation the CRTC declared a Jeopardy Condition for area code 902 and noted that area code 902 was projected to exhaust in April 2015.

In paragraph 7 of the Notice of Consultation, the Commission directed the NPA 902 RPC to set aside at a minimum, 7 CO Codes for initial code assignments for Carriers already providing service in the area served by area code 902, and 10 CO Codes for initial code assignments exclusively for new entrants for a period of two (2) years after the introduction of the new area

code in Nova Scotia and Prince Edward Island or until the pool is depleted, whichever occurs first. Accordingly, the CNA has set aside seventeen (17) CO Codes, as directed.

If the CRTC-approved Relief Method is an overlay, then these quantities of set aside CO Codes would become available for assignment as specified above during the two (2) year time period after implementation of the overlay. Any set-aside CO Codes remaining unassigned at the end of the two (2) year time period would be returned to the general pool of assignable CO Codes.

10. PROPOSED SCHEDULE

The RPC submits the following schedule for NPA 902 relief based on the recommendations contained in this Initial Planning Document and the current PED of May 2015. The RPC will monitor the PED, and if it changes significantly in the future (e.g., is advanced or delayed by greater than six (6) months), the RPC will assess the situation and, if necessary, submit recommendations including a revised schedule to the CRTC for consideration and approval.

RELIEF IMPLEMENTATION For a Distributed Overlay of new NPA over NPA 902

Item	Task or Event	PRIME	START	END
1	CNA identifies NPA exhaust and notifies by e-mail CRTC staff, CSCN, NANPA & CISC that the NPA will exhaust within 72 months	CNA		29-Mar-11
2	CNA conducts R-NRUF & releases results	CNA	29-Mar-11	29-Mar-12
3	CRTC issues Telecom Notice of Consultation regarding establishment of an ad hoc Relief Planning Committee	CRTC	29-Mar-12	24-May-12
4	CNA announces the date for the initial NPA Relief Planning face-to-face meeting & requests contributions	CNA	29-Mar-12	16-May-12
5	CNA develops and distributes IPD to RPC	CNA	29-Mar-12	29-May-12
6	RPC participants review IPD & submit contributions to RPC	RPC	29-May-12	11-Jun-12
7	CNA chairs initial RPC meeting to start development of PD, RIP & Planning Letter (PL), & schedules future meetings/conference calls	CNA, RPC	12-Jun-12	14-Jun-12
8	CNA chairs subsequent RPC meetings/conference calls to finalize PD, create Consumer Awareness and Network Implementation Task Forces and develop a Relief Implementation Plan	CNA, RPC	14-Jun-12	18-Jul-12
9	Special Types of Telecommunications Service Users (9-1-1 PSAPs, alarm companies, ISPs, paging companies, lifeline services, etc.) to identify any concerns to RPC & CRTC	Special Users	29-May-12	18-Jul-12
10	CNA forwards Planning Document (PD) and Relief Implementation Plan (RIP) to the CISC and CRTC for approval	CNA	18-Jul-12	23-Jul-12
11	CRTC issues Telecom Decision approving the Relief Method, Relief Date, New NPA & Relief Implementation Plan (RIP)	CRTC	23-Jul-12	14-Nov-12
12	CNA obtains relief NPA from NANPA	CNA	14-Nov-12	4-Dec-12
13	Task Forces, Telecommunications Service Providers (TSPs) and users implement relief (starts at CRTC approval of Relief Method & Date and ends on Relief Date)	TSPs	14-Nov-12	30-Nov-14
14	All TSPs to develop and file individual consumer awareness programs with the CRTC (may be done collectively by Telecommunications Alliance) (starts at CRTC approval of RIP)	TSPs	14-Nov-12	25-Mar-13

Item	Task or Event	PRIME	START	END
15	CNA issues media release (in coordination with Telecommunications Alliance) (may start upon CRTC approval of RIP and should be issued at least 18 months prior to the Relief Date)	CNA	25-Mar-13	30-May-13
16	CNA submits PL and RIP to NANPA (should be submitted at least 18 months prior to the Relief Date)	CNA	14-Nov-12	30-May-13
17	NANPA receives and posts Planning Letter to NANPA website (within 2 weeks of receipt from the CNA)	NANPA	30-May-13	13-Jun-13
18	All TSPs implement consumer awareness activities (starts upon filing of Consumer Awareness Programs with the CRTC and is completed on the Relief Date)	TSPs	25-Mar-13	30-Nov-14
19	All TSPs to notify all customers (residence, business & special customers) of the need to transition from 7- to 10-digit local dialling and the new overlay NPA (may start with the filing of Consumer Awareness Programs with the CRTC and all customers should be notified at least 18 months prior to the Relief Date)	TSPs	25-Mar-13	30-May-13
20	TSPs to submit Progress Report #1 to NITF and CATF (starts after completion date for all TSPs to notify their customers and requires 2 weeks)	TSPs	30-May-13	13-Jun-13
21	NITF and CATF develop & submit Progress Report #1 to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	13-Jun-13	27-Jun-13
22	RPC submits Progress Report #1 to CISC/CRTC (linked to NITF and CATF reports)	RPC	27-Jun-13	11-Jul-13
23	Telcordia TRA database updates to add Exchanges to new overlay NPA (starts on the date that the PL is posted to the NANPA web site and must be completed by 6 months prior to the Relief Date)	Telcordia TRA	13-Jun-13	30-May-14
24	All Telecommunications Service Providers and Telecommunications Service Users (including Special Users, 9-1-1 PSAPs, alarm companies, lifeline services, ISPs, paging companies, payphone providers, etc.) to implement changes to their telecom equipment & systems to accommodate the new NPA and the transition from 7- to 10-digit local dialling (starts upon CRTC approval of RIP and ends on the Relief Date)	Telecom Service Users	14-Nov-12	30-Nov-14
25	Payphone Providers Reprogram Payphones (starts upon CRTC approval of RIP and ends on the Relief Date)	Payphone Providers	14-Nov-12	30-Nov-14
26	TSPs and database owners/operators to modify systems and industry databases (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs & Database Owners	14-Nov-12	30-Nov-14
27	Operator Services & Directory Assistance Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14
28	Directory Publisher Readiness for relief (ability to identify the NPA in telephone numbers in the directory published after the new NPA is activated) (starts upon CRTC approval of RIP and ends on the Relief Date)	Directory Publishers	14-Nov-12	30-Nov-14

Item	Task or Event	PRIME	START	END
29	9-1-1 Systems and Databases Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	PSAPS, 9-1-1 Service Providers & TSPs	14-Nov-12	30-Nov-14
30	Network Systems & Equipment Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14
31	Service Order & Business System Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14
32	International Gateway Switch Translations Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	Int'l TSPs	14-Nov-12	30-Nov-14
33	Canadian Local Number Portability Consortium (CLNPC) Database Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	CLNPC & NPAC	14-Nov-12	30-Nov-14
34	Toll Free SMS Database Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	Toll TSPs	14-Nov-12	30-Nov-14
35	TSPs apply for Test CO Codes in new NPA (applications may be submitted no more than 6 months and no less than 66 days prior to the start date for the Inter-Carrier Testing Period) (Section 7.16.4 Canadian RP GL)	TSPs	30-Nov-13	25-Mar-14
36	Develop Inter-Carrier Network Test Plans and prepare for testing (individual TSPs to make arrangements in accordance with interconnection agreements) (may start upon CRTC approval of RIP and must be completed by start date for the Inter-Carrier Testing Period)	NITF & TSPs	14-Nov-12	30-May-14
37	All international and domestic TSPs must activate the new NPA in their networks by the start date for the Inter-Carrier Testing Period	TSPs	14-Nov-12	30-May-14
38	Date by which TSPs must route all calls using 10-digit signalling (i.e., cease use of 7-digit signalling) for local traffic sent to and received from other TSPs (must be completed by the start date for the Inter-Carrier Testing Period) (TSPs may, but are not obligated to, negotiate special routing arrangements on a bilateral basis if required)	TSPs	-	30-May-14
39	Activation date for new NPA Test CO Codes and Test Numbers in network must be completed by the start date for the Inter-Carrier Testing Period)	TSPs	-	30-May-14
40	Inter-Carrier Testing Period (subject to Inter-Carrier Network Test Plans) (starts about 3 months prior to the start date for the 7- to 10-Digit dialling transition period)	NITF & TSPs	30-May-14	30-Nov-14
41	TSPs to submit Progress Report #2 to NITF and CATF (starts on commencement of Inter-Carrier Testing Period)	TSPs	30-May-14	13-Jun-14
42	NITF and CATF develop & submit Progress Report #2 to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	13-Jun-14	27-Jun-14
43	RPC submits Progress Report #2 to CISC/CRTC (linked to NITF and CATF reports)	RPC	27-Jun-14	11-Jul-14

Item	Task or Event	PRIME	START	END
44	Phase-in of 7- to 10-Digit Dialling Transition Period announcements (starts about 3 months prior to Relief Date and occurs over 1 week)	TSPs	23-Aug-14	30-Aug-14
45	Phase-in of mandatory 10 digit dialling announcements (occurs over 1 week and should be completed at least 1 week prior to Relief Date to address any problems that may arise)	TSPs	16-Nov-14	23-Nov-14
46	Relief Date (earliest date when CO Codes in new NPA may be activated)			30-Nov-14
47	TSPs submit Final Report to CATF and NITF (starts on Relief Date and provides 2 weeks for preparation & submission)	TSPs	30-Nov-14	14-Dec-14
48	NITF and CATF develop & submit Final Progress Report to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	14-Dec-14	28-Dec-14
49	RPC submits Final Progress Report to CISC/CRTC (linked to NITF and CATF reports)	RPC	28-Dec-14	11-Jan-15
50	TSPs disconnect Test Codes & Numbers, and submit Part 1 form to return Test Codes (starts 1 month after Relief Date and allows 1 month for completion)	TSPs	30-Dec-14	31-Jan-15
51	TSPs change Mandatory 10-Digit Dialling Announcement to standard announcement (mandatory announcement is required for a minimum of 3 months) (removal starts about 3 months after Relief Date and must be completed within 1 month)	TSPs	2-Mar-15	2-Apr-15

Note 1: In the event that a new J-NRUF or actual demand indicates that the Projected Exhaust Date will change significantly, the CNA may convene a meeting of the NPA Relief Planning Committee to review the issue and make a recommendation to the CISC and CRTC.

Note 2: In the event that the Projected Exhaust Date is delayed by greater than six months, the RPC recommends that the CNA advise the RPC of the change and immediately convene a conference call of the RPC to discuss and address the matter. The RPC shall conduct an assessment of whether any changes should be made to the Relief Implementation Plan and Schedule (e.g., changes in tasks, events, and dates including the Relief Date) and, if agreed, submit recommendations to the CRTC for consideration and approval.

Bell Aliant is committed to make every effort to meet the current forecasted 902 Projected Exhaust Date of May 2015. Bell Aliant is seeking latitude in its readiness for 902 Exhaust. In this context, Bell Aliant is requesting a 30 November 2014 readiness date.

Rationale: Given this is the first time for the introduction of a new NPA within the Atlantic region, the runway of roughly two years is deemed to be short to complete all IT changes. As a result of the merger of the four Atlantic Telcos, Bell Aliant's legacy IT environment is complex and will pose a challenge to meeting the current forecasted exhaust deadline. Furthermore, Bell Aliant resources are currently focused on other high priority external obligations with immovable deadlines. See list below to name a few. These activities require substantial IT efforts and pose an issue for resource availability.

- Payment Card Industry Data Security Standards (PCI DSS) (Dec 31, 2012)
- Quebec Tax (Jan 1, 2013)
- Prince Edward Island Harmonized Tax (April 1, 2013)
- British Columbia HST Reversal (April 1, 2013)

- Bill 6 - Newfoundland Consumer Protection Legislation
- Bill C11 - Copyright Modernization Act
- Bill C51 Online Surveillance Bill

Bell Aliant remains committed to the dates and does not foresee any issues concerning network readiness. Bell Aliant will prioritize the work and will engage the necessary partners to expedite IT.

Note: Bell Aliant does not wish its request for a 30 November 2014 readiness date to delay the CRTC decision on the distributed overlay or 782 NPA as this would further delay IT efforts.

11. JEOPARDY CONTINGENCY PLAN (JCP)

The RPC has developed the following JCP for inclusion in the PD for NPA 902. This JCP is based on the example contained in Appendix F to the Canadian NPA Relief Planning Guideline.

This JCP shall remain in effect until either the Jeopardy Condition is suspended or sixty-six (66) days prior to the Relief Date.

The following measures shall be implemented in NPA 902 while a Jeopardy Condition is in effect.

During a Jeopardy Condition, CO Code Applicants shall submit all CO Code applications and related correspondence for the Jeopardy NPA to CRTC staff in addition to the CNA. The CNA shall only assign CO Codes from the exhausting NPA to a CO Code Applicant upon instruction from CRTC staff.

Any CO Code application to the CNA must be accompanied by a letter, on company letterhead and signed by a company officer, justifying the request and certifying that the requested CO Code will be in service within four (4) months of the date of that application.

- 1) Carriers and/or Telecommunications Service Providers (TSPs):
 - a) shall age disconnected residential wireline telephone numbers for a maximum of two months;
 - b) shall age disconnected wireless telephone numbers for a maximum of three months;
 - c) shall age disconnected business wireline telephone numbers for a maximum of six months. Under special circumstances, the six month aging limit for business telephone numbers may be extended to twelve months, if required, to accommodate local directory publishing dates for high volume call-in applications (e.g., heavily advertised local business numbers such as radio talk shows, food ordering services, ticket sales, chat lines), or for numbers associated with public service emergency applications or for numbers advertised in directories for which customers have requested reference of calls;
 - d) shall return all CO Codes that are not being used, nor intended to be used to directly serve customers to the assignment pool within two months (e.g., plant test codes);
 - e) should work towards, and encourage existing customers, to either activate or return the reserved numbers in order to bring the reserved quantity down to a maximum of 10% of the quantity of numbers In-Service for that customer;
 - f) shall not allow the quantity of reserved numbers to be increased by new reservation requests by existing customers to more than 10% of the quantity of numbers In-Service for that customer. In the case of new customers, number reservations shall be limited to 10% of the total quantity of telephone numbers being placed into service for that customer;
 - g) shall, within 45 days from the date that the CNA declares a Jeopardy Condition submit a Part 1 Form for each remaining reserved CO Code either returning the reserved CO Code to the CNA or requesting assignment of the reserved CO Code. Once the 45-day period has elapsed, the CNA shall make available for

- general assignment all CO Codes that are still reserved and have not been applied for as assignments on a Part 1 Form received by the CNA. Within 60 days from the date that the CNA declares a Jeopardy Condition, the CNA shall report to CRTC staff and the RPC as to how many of these codes have been assigned or made available for general assignment;
- h) shall not be permitted to obtain a new CO Code reservation;
 - i) shall place all CO Codes assigned prior to the Jeopardy Condition being declared In-Service within three months of the effective date for CO Code activation in the network, or within three months of the date that the Jeopardy Condition was declared. If the CO Code is an Initial Code and the CO Code Holder can demonstrate that, due to circumstances beyond its control, the In-Service date has been delayed beyond the applicable timeframe, then the CNA may grant an extension of up to two months to the In-Service date. The CNA shall initiate reclamation procedures for all CO Codes that have not been placed In-Service within these timeframes unless CRTC staff provides a further extension.
- 2) For new applications for Initial Codes, each CO Code Holder shall certify that the CO Code will be activated in the network and placed In-Service within four months of the date of application for the Code. If the CNA does not receive a Part 4 Form within this timeframe, confirming that the CO Code has been placed In-Service, the CNA will initiate reclamation measures. If the CO Code Holder can demonstrate that, due to circumstances beyond its control, that the In-Service date has been delayed not more than six months from the original application date, then the CNA may grant an extension to the In-Service date, so long as the In-Service date is not more than six months beyond the original application date. If the In-Service date has been delayed more than six months from the original application date, then the CNA shall reclaim the Code unless CRTC staff provides a further extension.
- 3) When applying for an Additional Code for Growth, a CO Code Holder who is submitting a Part 1 Form and Appendix B worksheet shall also submit a completed Supplementary Form for a Growth CO Code Application (attached) which certifies and/or provides the following information for the specific switching entity/POI and Exchange Area when the Growth CO Code is being requested in a Jeopardy Condition:
- a) certification that all held telephone numbers have been released;
 - b) certification that reserved numbers do not exceed ten percent of the total quantity of numbers as defined in Appendix G of the Canadian CO Code (NXX) Assignment Guideline;
 - c) certification that each reseller/dealer had been advised of the Jeopardy Condition and the requirement that they would only be allocated additional numbers during the Jeopardy Condition on the provision to the CO Code Holder of written confirmation that their number inventory has been reduced to an amount less than two times the highest quantity of customer numbers assigned in any month during the previous 12 months. Additional numbering resources will only be provided by the CO Code Holder to the reseller/dealer to the extent that the reseller's/dealer's inventory can only increase up to a maximum of three months' inventory;
 - d) confirmation that the Part 1 form submitted with the application has the Jeopardy Condition box in section 1.6 checked to certify that the existing CO Codes are projected to exhaust within 4 months of the date of application or within the

- period specified within an approved JCP, and that the months-to-exhaust is documented on an Appendix B submitted to the CNA;
- e) a completed Telephone Number Utilization Report;
 - f) confirmation that the requested Growth CO Code was forecasted in the most recent NRUF or an explanation as to why it was not is attached; and
 - g) confirmation that the requested Growth CO Code will be placed In-Service within four months of the date of assignment.

The Telephone Number Utilization Report Form (see item 3e) above) is to be signed by both a company officer and the company's Authorized Representative.

- 4) Any CO Codes for growth assigned after the implementation of this JCP must be activated in the network and placed In-Service within four months of assignment. In the event that a CO Code Holder is unable to place the CO Code In-Service within four months of the date of assignment, the CO Code Holder must submit a written request for extension to the CNA. Such written requests must include documentation explaining the reason(s) for the missed date and proposing the new In-Service date. If the explanation includes reasons beyond the control of the CO Code Holder, the CNA may extend the In-Service date a maximum of one month. If the CO Code Holder does not place the CO Code In-Service within the one-month extension, the CNA shall reclaim the CO Code immediately at the end of the one-month extension unless CRTC staff provides a further extension.
- 5) A Carrier that has multiple switching entities within an Exchange Area shall examine the possibility of, and implement where feasible, number sharing between those switches as a potential method to delay requirements for additional CO Codes.
- 6) The CNA will request two versions of the J-NRUF input from all current and prospective CO Code Holders quarterly until three (3) months before relief is provided.
 - a) The forecasted quantities in Version 1 should be the same as or lower than the January 2012 R-NRUF input submitted by CO Code Holders for the period up to 66 days prior to the Relief Date. CO Code Holder forecasts may reflect an increase in demand in the period subsequent to the Relief Date.
 - b) Version 2 will reflect the actual demand required by the CO Code Holder's current business plan and will be provided for information purposes only.
- 7) The CNA will compare the initial J-NRUF input to the recent NRUF inputs, in order to assess forecasting trends. The CNA shall monitor all inputs and shall test them for reasonableness in consultation with the Carrier. If the CNA is dissatisfied with the reasonableness, or the rationale provided for the deviations, then the matter will be referred to the Commission.
- 8) The CNA will request subsequent J-NRUF input from all current and prospective CO Code Holders quarterly until 3 months before relief is provided. If one or more R-NRUFs have already been conducted, and depending on the severity of the Jeopardy Condition, the CNA may defer a J-NRUF by up to two months if such a deferral brings the timing of that J-NRUF and subsequent J-NRUFs into alignment with other NRUFs that are conducted at 12, 6 or 3 month intervals. Subsequent J-NRUF input will be compared with the initial J-NRUF input to evaluate the effectiveness of the JCP. The CNA shall

- monitor all J-NRUF inputs and shall test them for reasonableness in consultation with the Telecommunications Service Providers. If the CNA is dissatisfied with the reasonableness, or the rationale provided for the changed forecasts, then the matter will be referred to the Commission.
- 9) A CO Code Applicant must have submitted a completed J-NRUF to the CNA before the CNA may assign a CO Code to that CO Code Applicant.
 - 10) When a CO Code Applicant requests more CO Codes than it identified in its most recent J-NRUF forecast, the CNA will discuss the matter with the CO Code Applicant and if the CO Code Applicant wishes to proceed with the request, the CNA will forward the request to CRTC staff for consideration.
 - 11) The CO Codes identified in the NPA CO Code Inventory Chart as “Assignable CO Codes in a Jeopardy Condition” will be assigned in the order determined by the RPC after all CO Codes which are “Available for Assignment as of 12 June 2012” have been assigned.
 - 12) After each J-NRUF, the CNA shall provide the Commission and the RPC participants with a report providing an updated NPA CO Code Inventory Chart for the NPA in jeopardy as well as the aggregate results of the most recent J-NRUF.
 - 13) Exceptional issues or concerns may be referred by the CNA, or by individual entities (with a courtesy copy to the CNA), to the Commission for resolution.
 - 14) In a situation where the Relief Date is on or after the PED, the quantity of CO Codes that may be assigned to a CO Code Applicant prior to the end of the Jeopardy Condition (i.e., 66 days prior to the Relief Date) shall be limited to the quantity forecasted by the CO Code Applicant in its most recent NRUF forecast submitted prior to the Jeopardy Condition being declared by the CNA (if no previous NRUF was submitted, then the previous forecast will be deemed to be zero codes). When making requests to obtain CO Codes prior to the end of the Jeopardy Condition (i.e., 66 days prior to the Relief Date), the CO Code Applicant may change the Exchange Area or the month when the CO Code assignment is required, provided a new J-NRUF and explanation accompanies the application. The control imposed by this option may be relaxed if subsequent J-NRUFs defer the PED to after the Relief Date. CO Codes that become available for assignment due to future reduced demand from other current and prospective CO Code Holders may be assigned at the discretion of CRTC staff.
 - 15) Where the CRTC directs that CO Code assignment restrictions should be implemented, the CNA shall conduct two J-NRUFs: 1) showing demand based on the assignment restrictions; 2) showing demand where the assignment restrictions are not in place.
 - 16) If the CNA determines that the implementation of the JCP has not extended the Projected Exhaust Date of the NPA beyond the Relief Date, the CNA will consult with Commission staff and further CO Code conservation and assignment procedures may be ordered by the Commission (e.g., rationing, lottery, etc.).
 - 17) In Telecom Notice of Consultation CRTC 2012-309 the CRTC directed the NPA 902 RPC to set aside 7 CO Codes for initial code assignments for Carriers already providing service in the area

served by area code 902. The Commission also directed the 902 RPC to set aside 10 CO Codes for initial code assignments exclusively for New Entrants.¹

According to the Canadian NPA Relief Planning Guideline, in circumstances where the CRTC has directed the CNA to set aside a quantity of CO Codes for Initial Code assignments for Carriers already providing service in the exhausting NPA, and a quantity of CO Codes for Initial Code assignments exclusively for New Entrants, the following actions will be taken.

The CO Codes set aside for Initial Code assignments exclusively for New Entrants shall be made available, subject to any CRTC staff instruction, for Initial Code assignment to New Entrants prior to the relief if all other available CO Codes in the exhausting NPA have been assigned. Any CO Codes from this previously set-aside pool that remain when the Jeopardy Condition ends shall be returned to the pool for Initial Code assignments for New Entrants for assignment following relief.

The CO Codes set aside for Initial Code assignments for Carriers already providing service in the exhausting NPA shall be made available, subject to any CRTC staff instruction, for Initial Code assignment prior to relief. Any CO Codes from this previously set-aside pool that remain when the Jeopardy Condition ends shall be returned to the pool for Initial Code assignments for applicants in general for assignment following relief.

If all other available CO Codes in the exhausting NPA have been assigned, CRTC staff may make some or all of the CO Codes in the two set-aside pools available for assignment to any entity for any purpose.

¹ A New Entrant is an entity who, at the time of their first request for assignment of CO Code(s) in an NPA, does not provide any telecommunications services and does not hold any CO Codes within the boundaries of the NPA.

Supplementary form for a Growth CO Code Application – Page 1 of 2 – Telephone Number Utilization Report

This form is required with each request for an Additional Code for Growth in an NPA where a Jeopardy Condition is in effect. It should be submitted to the CNA together with the Part 1 and Appendix B forms that are required for an application for an Additional Code for Growth. See the Part 1 form for information on how and where to submit the form.

I hereby certify that the following information is true and accurate to the best of my knowledge and has been prepared in accordance with Special Conservation Procedures for a Jeopardy Condition contained in the Canadian NPA Relief Planning Guideline or the applicable approved Jeopardy Contingency Plan.

Name & Signature of Authorized Representative of Code Holder Title Date

Name & Signature of Company Officer (see item 3 of this JCP) Title Date

Contact information: Entity Name: _____ Contact Name: _____
 Address: _____ City, Province, Postal Code: _____
 Telephone: _____ Facsimile: _____
 E-mail: _____

Switch Identification (Switching Entity/POI) CLLI: _____ Exchange Area: _____

For the above Switch Identification and Exchange Area for which a Growth CO Code is requested:

- I certify that all held telephone numbers have been released.
- I certify the total quantity of reserved numbers does not exceed ten percent (10%) of the total quantity of telephone numbers as defined in Appendix G of the Canadian CO Code (NXX) Assignment Guideline.
- I certify that each reseller/dealer has been advised of the Jeopardy Condition and the requirement that they would only be allocated additional numbers during the Jeopardy Condition on the provision to the CO Code Holder of written confirmation that their number inventory has been reduced to an amount less than two (2) times the highest quantity of customer numbers assigned in any month during the previous twelve (12) months. Additional numbering resources will only be provided by the CO Code Holder to the reseller/dealer to the extent that the reseller's/dealer's inventory can only increase up to a maximum of three months' inventory.
- The Part 1 form submitted with the application has the Jeopardy Condition box in section 6 checked (this certifies that the existing CO Codes are projected to exhaust within four (4) months of the date of the application or within the period specified in an approved Jeopardy Contingency Plan, and that the months-to-exhaust is documented on an Appendix B submitted to the CNA).
- The Telephone Number Utilization Report on page 2 of this form has been completed.
- The requested Growth CO Code was forecasted in the most recent NRUF, or an explanation as to why it was not is attached.
- The requested Growth CO Code will be placed In-Service within four (4) months of the date of assignment.

NPA 902 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 902 in a Jeopardy Condition.

The chart shown below lists quantities of CO Codes unassignable prior to a Jeopardy Condition, CO Codes that become assignable in a Jeopardy Condition, and CO Codes in NPA 902 assigned and In-service as of 23 July 2012. For an Overlay option it identifies forty (41) CO Codes that are unassignable prior to a Jeopardy Condition, fourteen (14) of which become assignable in a Jeopardy Condition. The CO Codes that become assignable in a Jeopardy Condition shall only be made available for assignment when all other available CO Codes have been assigned. The types of CO Codes that become assignable in a Jeopardy Condition should be made available in the same order as listed in the chart.

		Quantity
A	Total CO Codes in NPAs 902 (NXX format)	800
B	CO Codes unassignable prior to a Jeopardy Condition	
	N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911)	8
	Special Use Codes (555, 950 & 976)	3
	Home NPA Code(s) (902)	1
	Current Neighbouring NPA Codes (506)	1
	Future Geographic NPA Codes (263, 782, 851, 942)	4
	Plant Test Codes (958 & 959)	2
	Special 7-digit Dialling Codes (310, 610 & 810)	2
	CO Codes set aside for Initial Codes for New Entrants only (for assignment after relief via an overlay [or before if a split])	10
	CO Codes set aside for Initial Codes for carriers already providing service (for assignment after relief via an overlay [or before if a split])	7
	9-1-1 Misdial Codes (912, 914 & 915)	3
	Total B	41
C	CO Codes assignable prior to a Jeopardy Condition (C=A-B)	759
D	CO Codes unassignable prior to a Jeopardy Condition that become assignable in a Jeopardy Condition:	
	Future Canadian Geographic NPA Codes (263, 851, 942)	3
	Current Neighbouring NPA Codes (assign CO Code 506 in the Eastern portion of NPA 902)	1
	CO Codes set aside for Initial Code assignments after relief via an overlay (available subject to CRTC staff approval)	7
	911 Misdial Codes (912, 914 & 915)	3
	Total D	14
E	Assignable CO Codes in a Jeopardy Condition (E=C+D)	773
F	Assigned CO Codes as of 23 July 2012	659
G	Net CO Codes available for assignment as of 23 July 2012 without a Jeopardy Condition (G=C-F)	100
H	Net CO Codes available for assignment as of 23 July 2012 in a Jeopardy Condition (H=E-F)	114

Notes:

1. 23 of the 26 CO Codes corresponding to Future Canadian Geographic NPA Codes are already assigned, in-service, or available for assignment in NPA 902 leaving 3 CO Codes as currently unavailable for assignment.
2. CO Codes 263, 782, 851 and 942 are unavailable for assignment in NPA 902. CO Code 782 cannot become assignable even in a Jeopardy Condition as it would correspond to the new NPA, therefore must remain unassignable as a CO Code. CO Codes 263, 851 and 942 should become available for assignment in a Jeopardy Condition.

12. SELECTION OF RELIEF NPA CODE

In the event that the recommended relief option requires a new NPA Code, the criteria for selection of an appropriate area code for relief is addressed in section 4.9 of the Canadian NPA Relief Planning Guideline. The criteria that should be taken into account when Future Canadian Geographic NPAs are being considered as candidates for relief of a specific current Canadian Geographic NPA include the following:

- a) The preferred Future Canadian Geographic NPA Code should not be an NPA Code that is assigned as a CO Code in the area that is being relieved (Home NPA(s)).
- b) The preferred Future Canadian Geographic NPA Code should not be an NPA Code that is assigned as a CO Code in another NPA within the same province where there is a possibility that a single new NPA Code could be overlaid on more than one NPA within the province, or where boundary realignment could occur that affects another NPA.
- c) The preferred Future Canadian Geographic NPA Code should not be an NPA Code that is assigned as a CO Code in an Exchange Area in a neighbouring NPA, if the neighbouring NPA has 7-digit local calling within the NPA, and i) the Exchange Area in the neighbouring NPA where the CO Code is assigned has local calling to the NPA being relieved, or ii) the Exchange Area in the neighbouring NPA where the CO Code is assigned does not have local calling to the NPA being relieved, but other Exchange Areas within that neighbouring NPA have 7-digit local calling to the Exchange Area where the CO Code is assigned as well as local calling to the new NPA.

On the CNA web site at http://www.cnac.ca/npa_codes/relief/overview.htm there is an NPA Selection Tool that may assist in determining which of the NPA Codes that are currently available for assignment in Canada are most suitable for relief of an exhausting NPA.

CO Codes corresponding to Future Canadian Geographic NPA Codes which are not assigned in NPA 902 and therefore meet criterion a) above are 263, 851 and 942.

Criterion b) is not applicable since Nova Scotia and Prince Edward Island have a single Numbering Plan Area.

Criterion c) is met by all three (3) codes because none of them are assigned as CO Codes in Amherst, Nova Scotia or Sackville, New Brunswick. All of the NPA Codes (263, 851 and 942) are therefore equally suitable as a new NPA Code for the relief of NPA 902, unless analysis of potential future code reservations for NPA reliefs in other areas of Canada, or TSP cost considerations indicate a preference for one code over another for the relief of NPA 902.

The NPA Code Selection Tool located on the CNA web site at http://www.cnac.ca/npa_codes/relief/overview.htm can assist in selecting a relief NPA Code from the pool of NPA Codes reserved for relief of geographic Canadian NPAs. The following table, extracted from the NPA Code Selection Tool, shows all codes corresponding to Future Canadian Geographic NPA Codes that are designated as unassignable CO Codes in the Home NPA, therefore are preferred candidates when selecting a relief NPA Code for NPA 902.

NXX corresponding to Future NPA →	263	851	942
Split - Option 1	✓	✓	✓✓
Split - Option 2	✓	✓	✓✓
Split - Option 3	✓	✓	✓✓
Split - Option 4	✓	✓	✓✓
Split - Option 5	✓	✓	✓✓
Split - Option 6	✓	✓	✓✓
Concentrated Overlay – Option 7	✓	✓	✓✓
Distributed Overlay of New NPA Code on NPA 902 – Option 8	✓	✓	✓✓

- ✓ Indicates that corresponding CO Code is designated as unassignable in Home NPA(s)
- ✓✓ Indicates that corresponding CO Code is designated as unassignable in Home NPA(s) and all neighbouring NPA(s)

Based on the above table, all of the Future Canadian Geographic NPA Codes which are not assigned in NPA 902 meet all the criteria for relief of NPA 902 and for the retention of 7-digit local dialling after relief if a split option is chosen as the Relief Method.

The RPC does not recommend the 263 NPA Code to be used as the new NPA because 263 is an existing Saint Basile, New Brunswick CO Code in NPA 506 and therefore it does not meet the optimum selection criteria for an NPA. Further, switch translations to introduce a 4 second timer delay would be required to differentiate between a 263-XXXX 7-digit local call and a 10-digit local call to a 263-NXX-XXXX number in Amherst, Nova Scotia. This will create customer confusion as network switching announcements will not reflect the standard treatment required.

The RPC does not recommend the 851 NPA Code to be used as the new NPA because 851 is an existing Moncton, New Brunswick CO Code in NPA 506 and, therefore, does not meet the optimum selection criteria for an NPA. Furthermore, Moncton, New Brunswick has local calling to Sackville, New Brunswick and Sackville, New Brunswick has local calling to Amherst, Nova Scotia. Switch translations would be required to differentiate between a 7-digit local call in Sackville, New Brunswick and 10-digit cross-border local calls to Amherst, Nova Scotia from Sackville, New Brunswick. This would create a 4 second delay to complete all 7-digit dialled local calls in CO Code 851. The introduction of the 4 second delay will cause customers confusion as they will think that they have misdialled and will hang up and call again, resulting in customer complaints.

The RPC does not recommend the 942 NPA Code to be used since it is close in appearance to 902 when read, and close in sound when spoken. In conjunction with the implementation of 10-digit local dialling, additional customer confusion and misdialled calls are more likely to occur.

In CSCN TIF Report 87 (CNRE087A), dated 10 April 2010, *re: Reservation of Future Canadian Geographic NPA Codes for relief of existing Canadian NPAs forecast to exhaust in the next 25 year timeframe*, the CSCN submitted recommendations to the Commission for reserving NPA Codes for future relief of existing Canadian NPAs.

On 22 October 2010, the CRTC issued Telecom Decision CRTC 2010-784 *CRTC Interconnection Steering Committee consensus item – Reservation of area codes for future area code relief*. In this Decision, the CRTC directed the CNA to "set aside" the area codes proposed by the CSCN for future relief of existing in-service area codes that are forecast to exhaust during the next twenty-five (25) years. The CRTC noted in the Decision that if these area codes are required for other purposes before they are used as the CSCN has proposed, the CNA may request that the Commission approve their use for alternative assignments. See <http://www.crtc.gc.ca/eng/archive/2010/2010-784.htm>. In the Decision the CRTC directed the CNA to set aside NPA 942 for the relief of NPA 902.

The RPC recommends that proposed relief NPA 942 be replaced by NPA 782 which is dissimilar to the existing NPA of 902. The RPC has analyzed the use of NPA 782 and has determined that it meets the criteria for the selection of an NPA. CO Code 782 is not assigned either in the home NPA 902 or the neighbouring NPA 506.

The CNA has discussed the use of NPA 782 with the North American Numbering Plan Administrator (NANPA). NANPA has set aside NPA 782 for use as a relief NPA in Canada. Therefore, the RPC recommends that NPA 782 be used as the relief NPA for NPA 902.

13. RECOMMENDATIONS

Given the Jeopardy Condition in NPA 902 the RPC respectfully requests an expeditious decision be made concerning the Relief Method, Relief Date and Relief NPA so that work can begin as soon as possible.

Based on the assessment of Relief Options and other information contained in this document, the RPC submits the following recommendations to the CISC and CRTC:

- 1) The Relief Method should be a distributed overlay of a new NPA Code on Nova Scotia and Prince Edward Island NPA 902;
- 2) NPA Code 782 should be the Relief NPA Code (at the request of the CNA, NANPA has set aside NPA 782 as a Relief NPA in Canada (see section 12));
- 3) The Relief Date should be 30 November 2014 in order to provide Carriers and customers with advanced notification and sufficient lead-time to implement relief given the Jeopardy Condition in NPA 902;
- 4) The local dialling plan should be changed to 10 digits for all local calls within NPA 902;
- 5) A 7- to 10-digit local dialling transition period should be implemented commencing on 23 August 2014, with network announcements on calls dialled using 7 digits phased in over one week between 23 August 2014 and 30 August 2014;
- 6) Mandatory 10-digit local dialling should be implemented commencing on 16 November 2014, with network announcements on calls dialled using 7 digits phased in over one week between 16 November 2014 and 23 November 2014;
- 7) Standard network announcements should be implemented commencing on 2 March 2015 and completed within one month by 2 April 2015; and
- 8) NPA 942 should be set aside for the future relief of NPA 416/437/647.

NPA 902
INITIAL PLANNING DOCUMENT
ANNEXES

Annexes

Planning Document NPA 902 Numbering Relief



NPA 902



Planning Document (IPD)
Version 1.0 – 23 July 2012

Canadian Numbering Administrator (CNA)
Suresh Khare
613-683-3296
60 Queen Street, Suite 1516
Ottawa, Ontario K1P 5Y7
khare@saiccanada.com

SAIC®



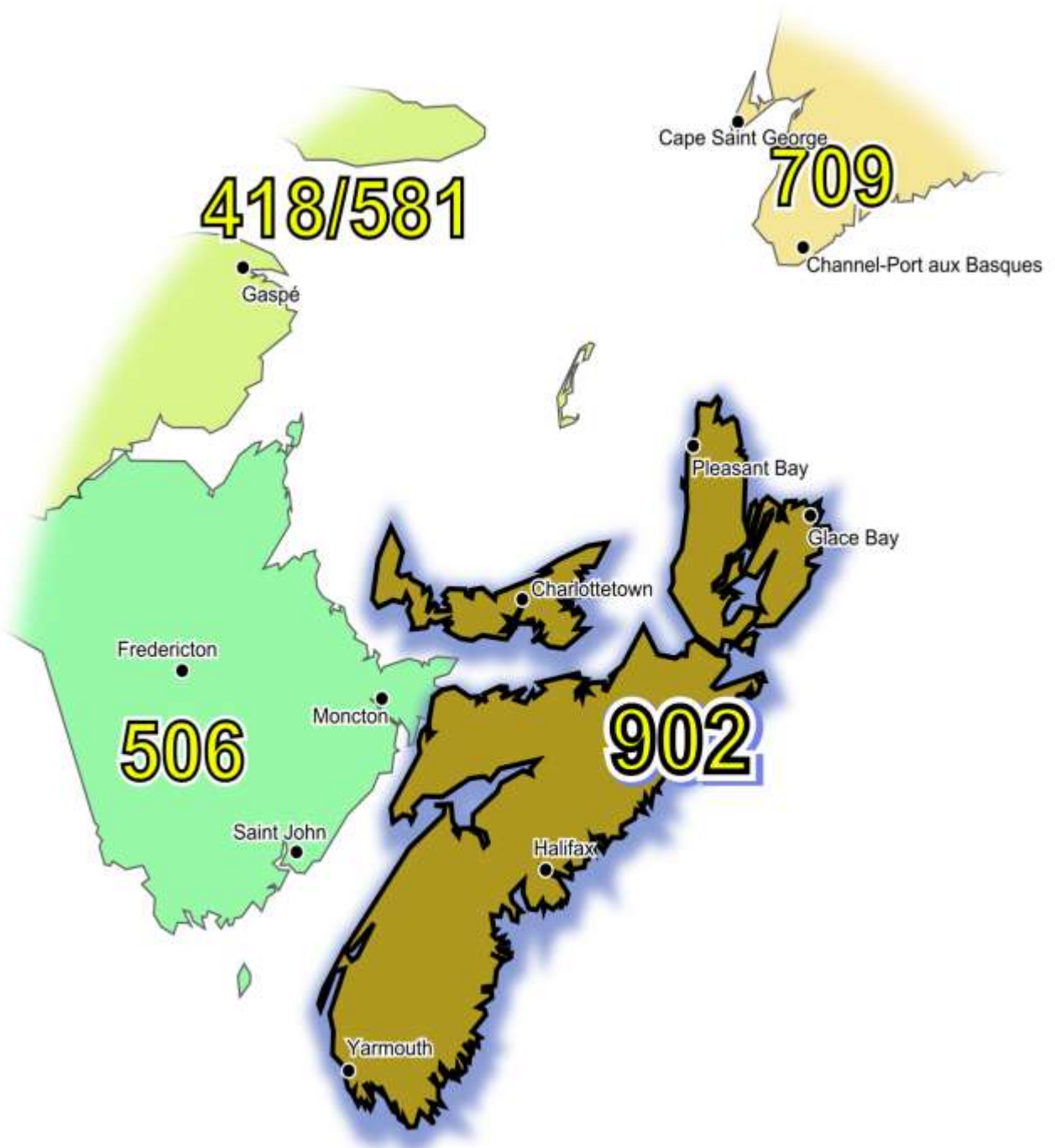


Figure 1 - Overview Map of NPA 902

NPA902 Nova Scotia-Prince Edward Island

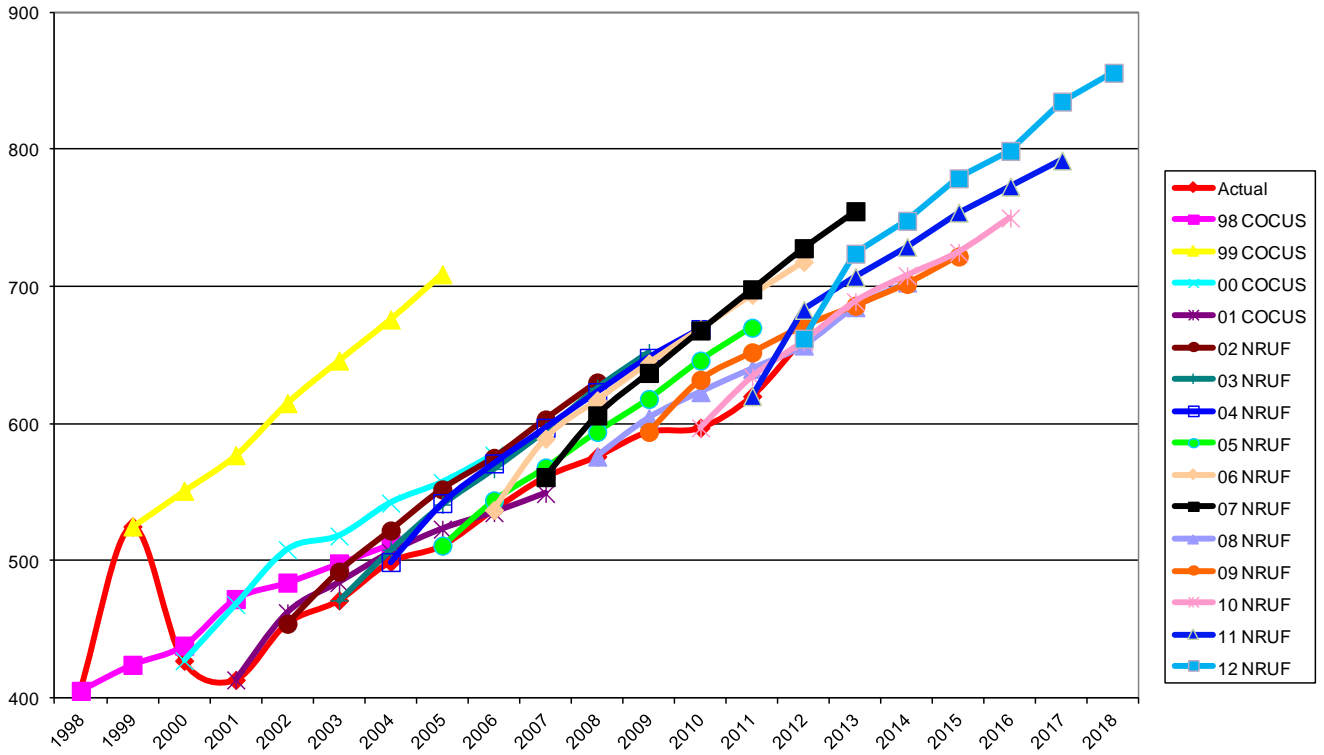


Figure 2 - NPA 902 Actual and Forecast CO Code Assignments

NPA 902 CO Code Exhaust January 2012 R-NRUF

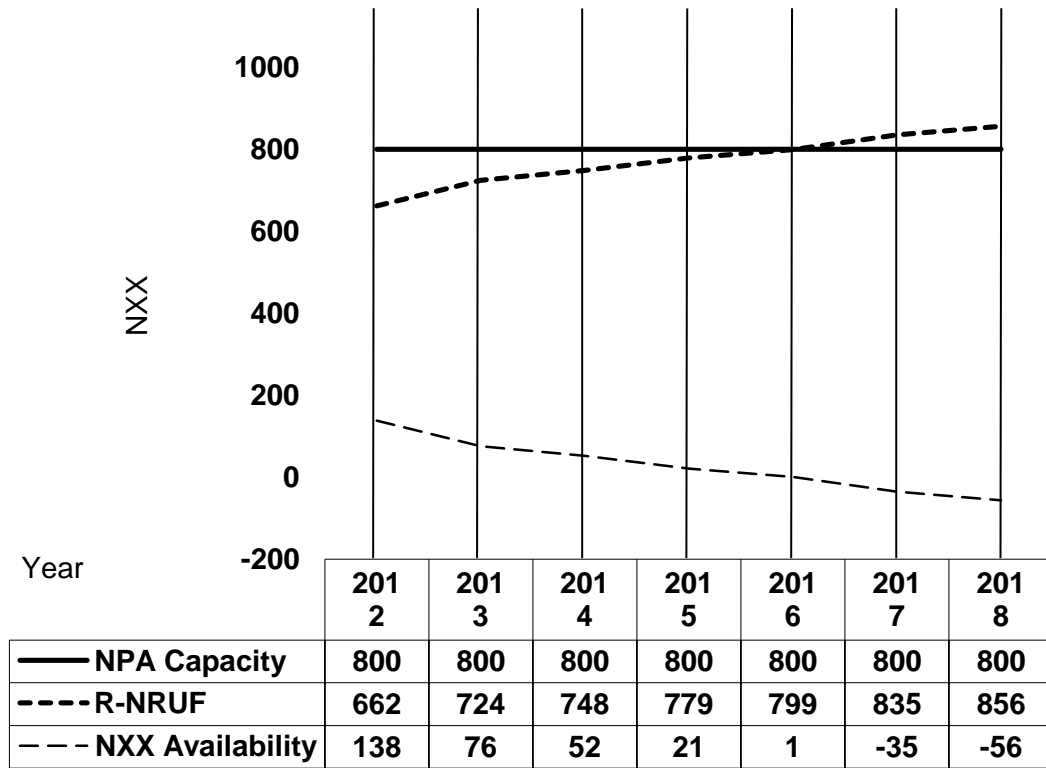


Figure 3 - NPA 902 CO Code Exhaust, January 2012 R-NRUF

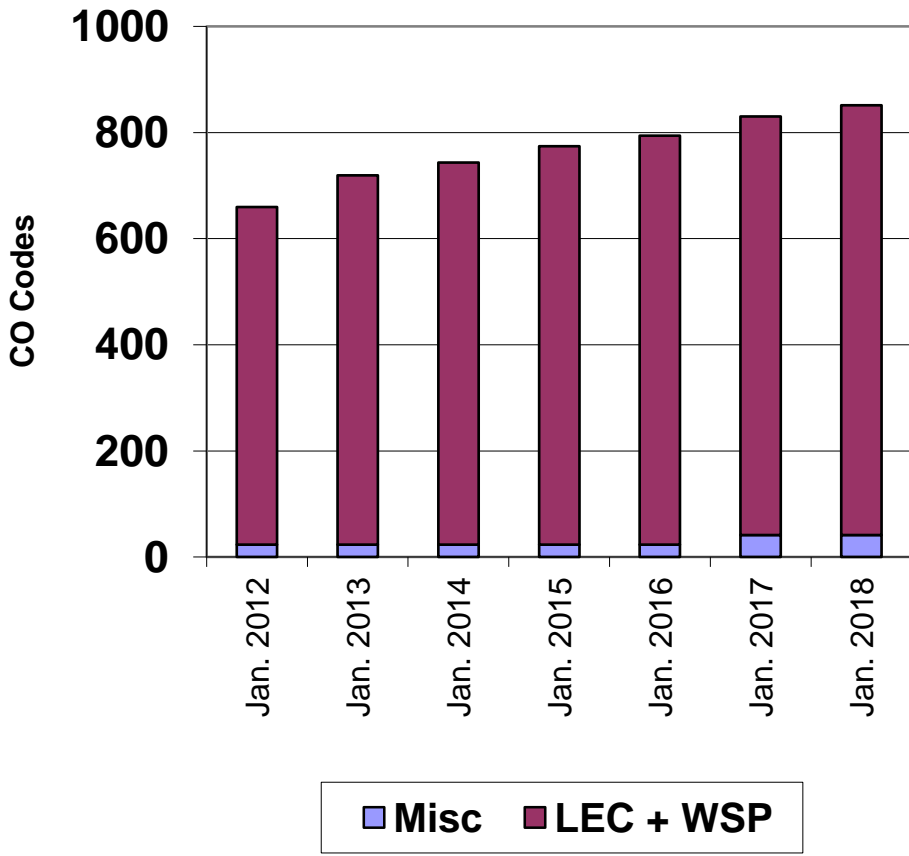


Figure 4 - NPA 902 Miscellaneous and LEC+WSP Codes, January 2012 R-NRUF

NPA 902 CO Code Exhaust - May 2012 NOC R-NRUF

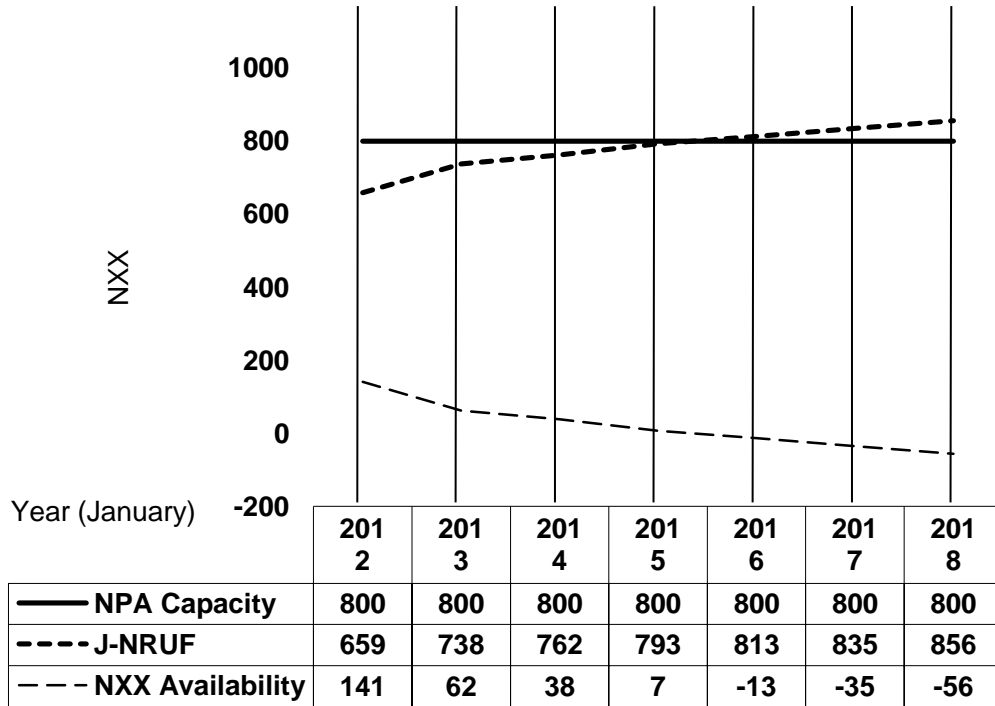


Figure 5 - NPA 902 CO Code Exhaust, May 2012 NOC R-NRUF

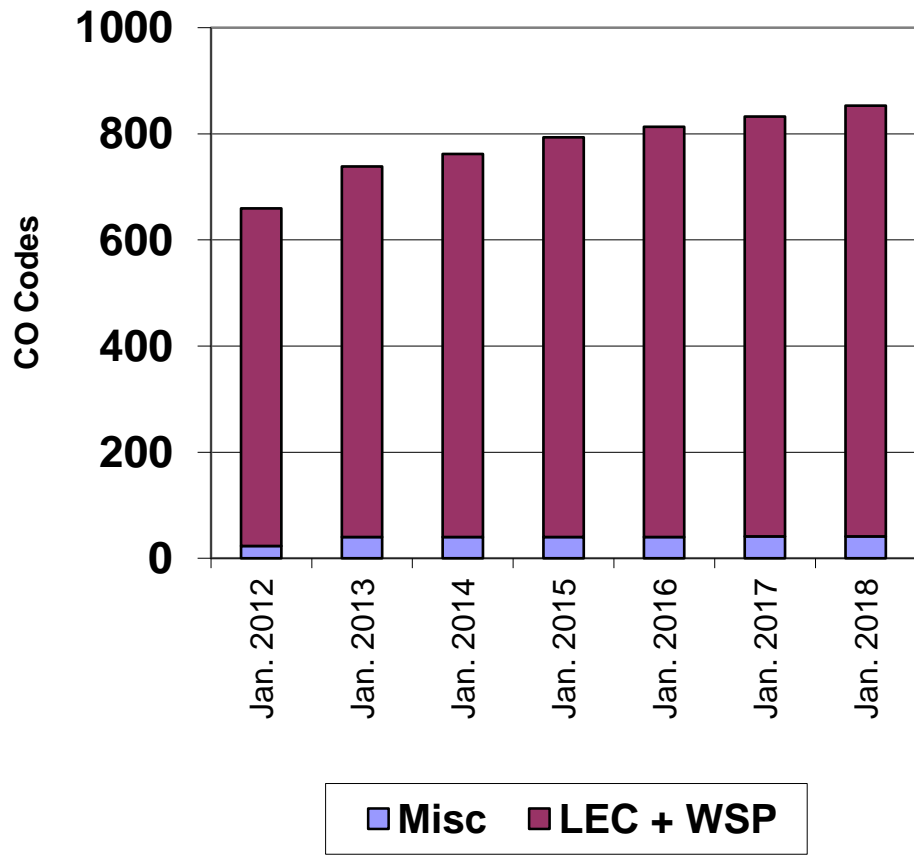


Figure 6 - NPA 902 Miscellaneous and LEC+WSP Codes, May 2012 NOC R-NRUF

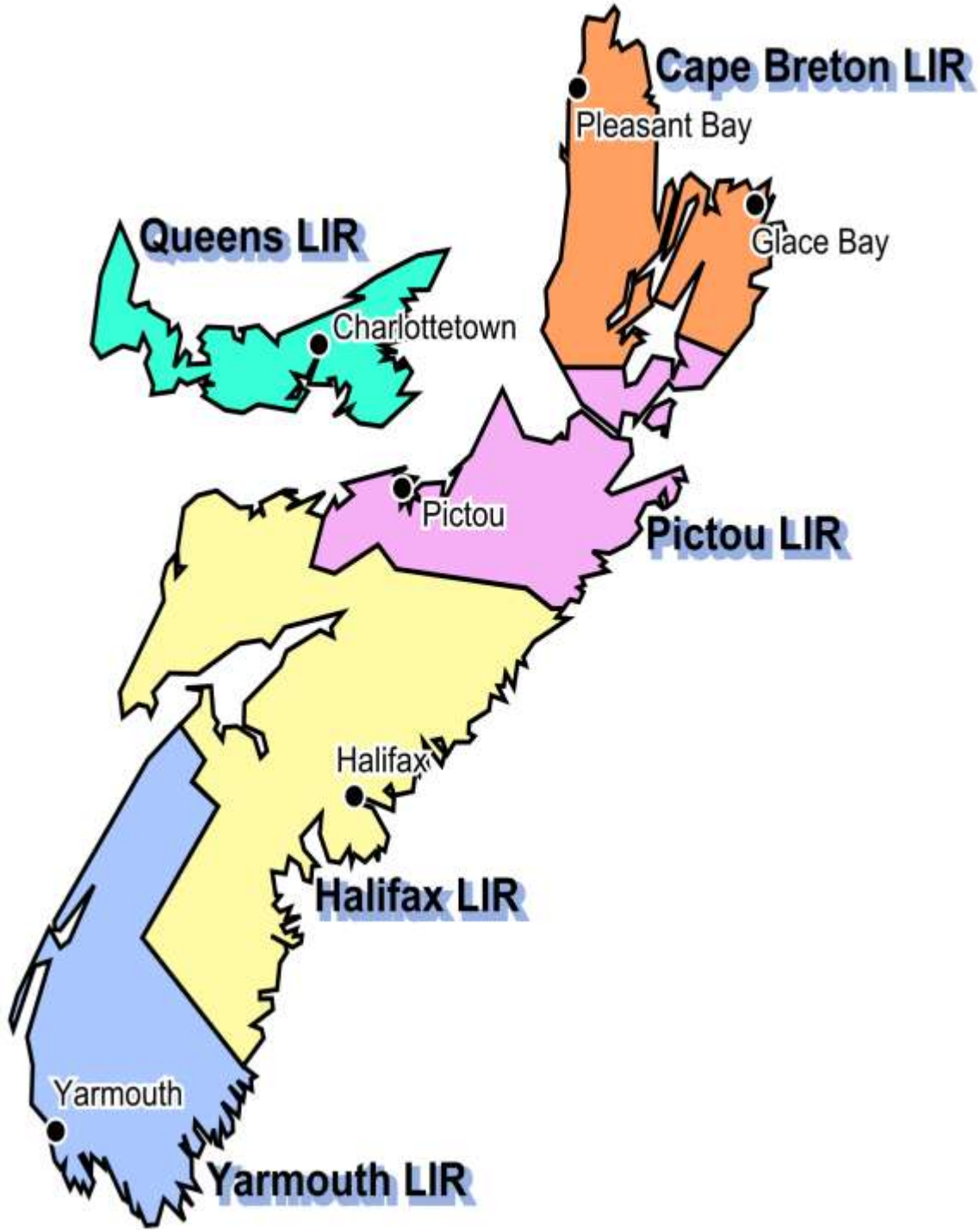


Figure 7 - NPA 902 LIRs

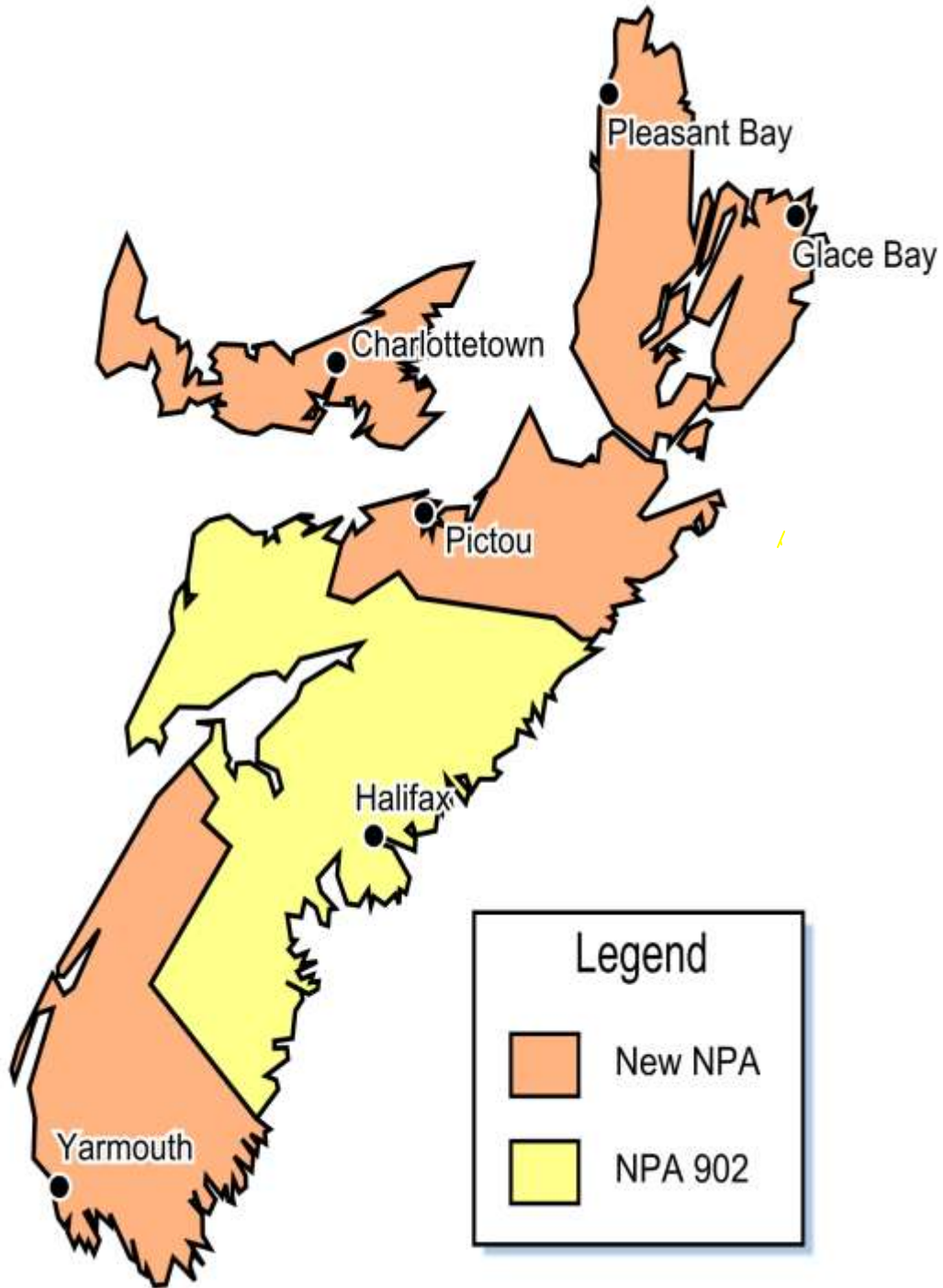


Figure 8 – Option 1: Split – Halifax LIR retains NPA 902, and Cape Breton, Pictou, Queens and Yarmouth LIRs change to the new NPA

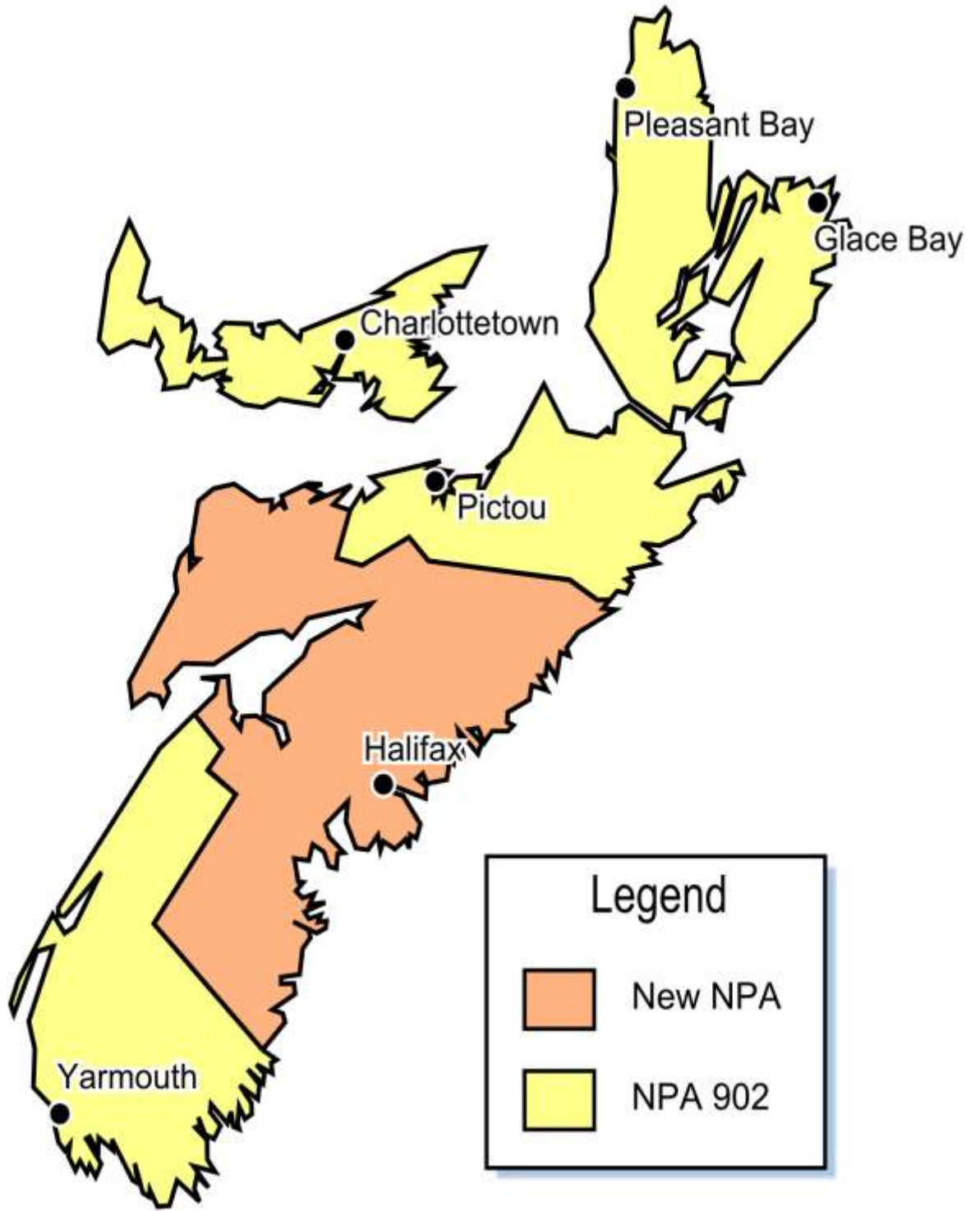


Figure 9 – Option 2: Split – Halifax LIR changes to the new NPA and the Cape Breton, Pictou, Queens and Yarmouth LIRs retain NPA 902

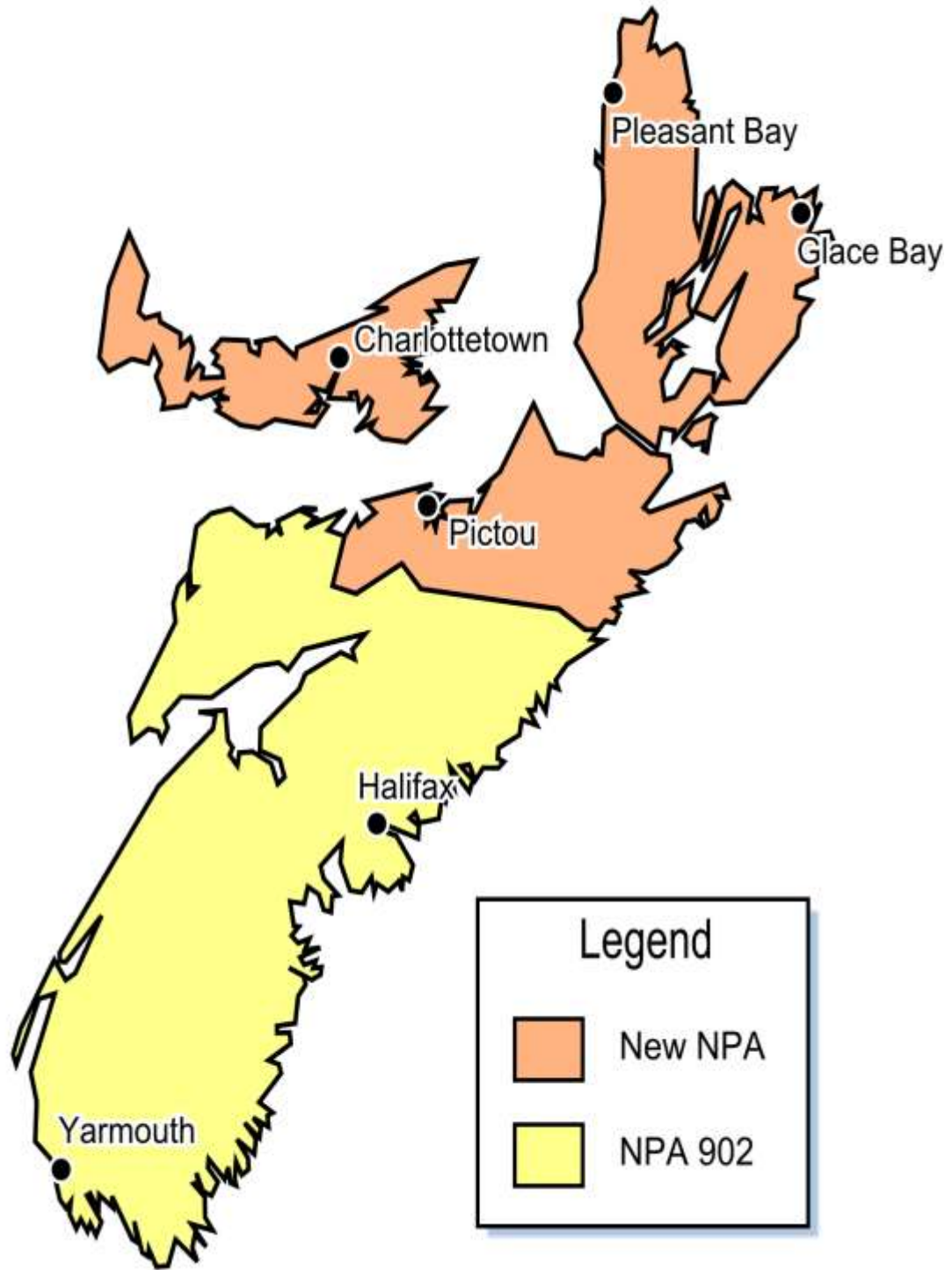


Figure 10 – Option 3: Split – Halifax and Yarmouth LIRs retain NPA 902, and the Cape Breton, Pictou, and Queens LIRs change to the new NPA

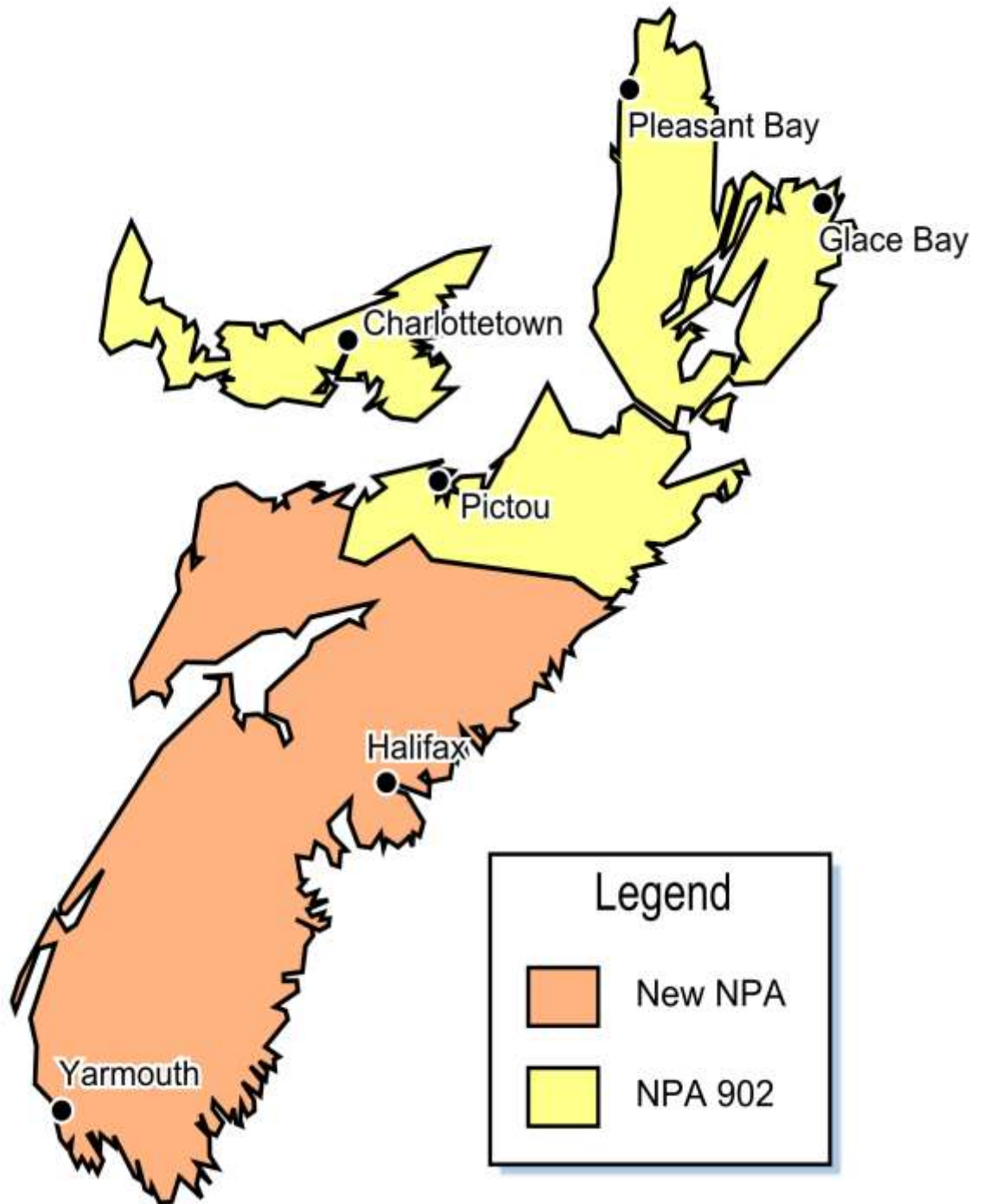


Figure 11 – Option 4: Split – Halifax and Yarmouth LIRs change to the new NPA and the Cape Breton, Pictou, and Queens LIRs retain NPA 902

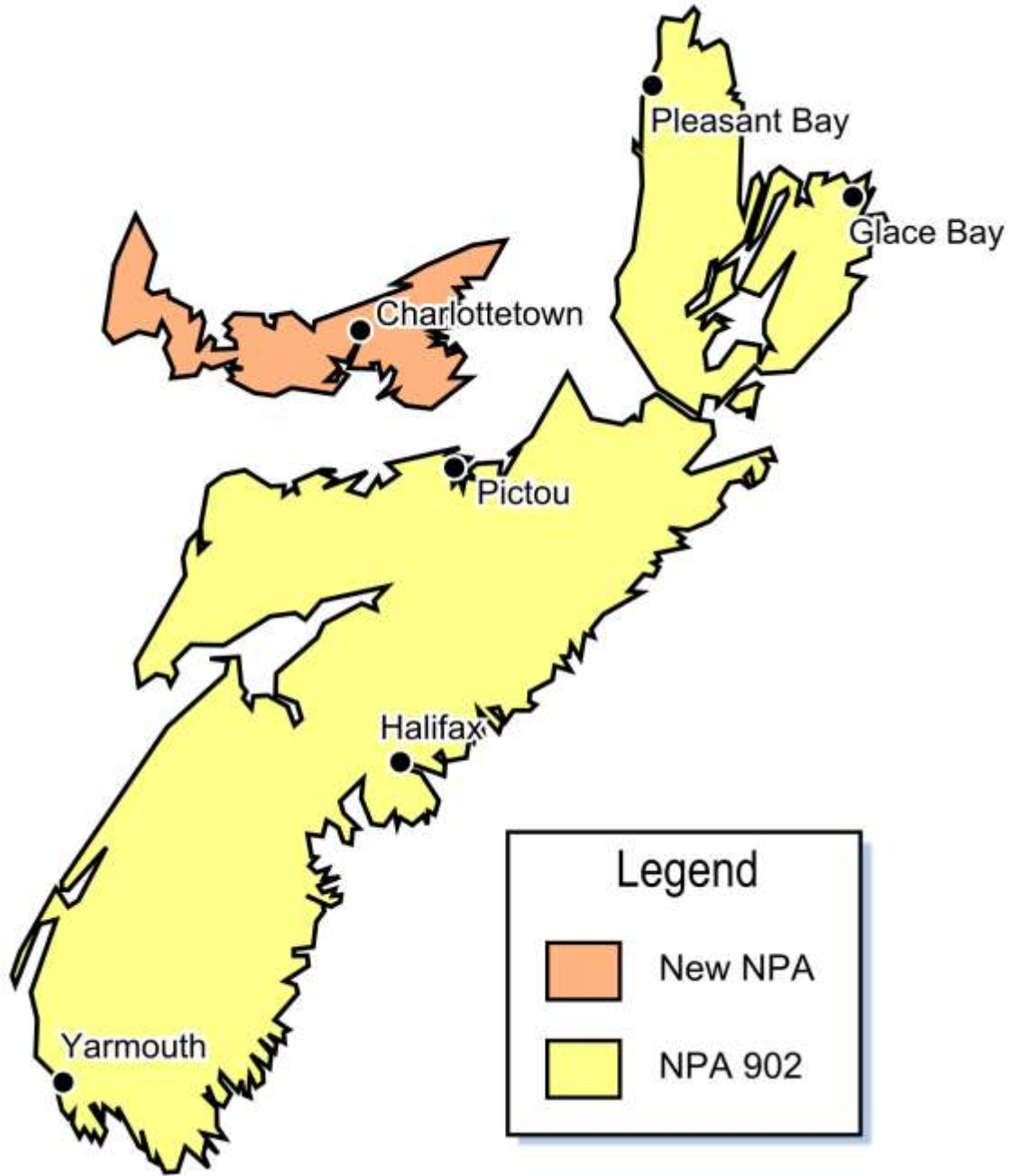


Figure 12 – Option 5: Split – Province of Nova Scotia retains NPA 902 and Province of Prince Edward Island changes to the new NPA

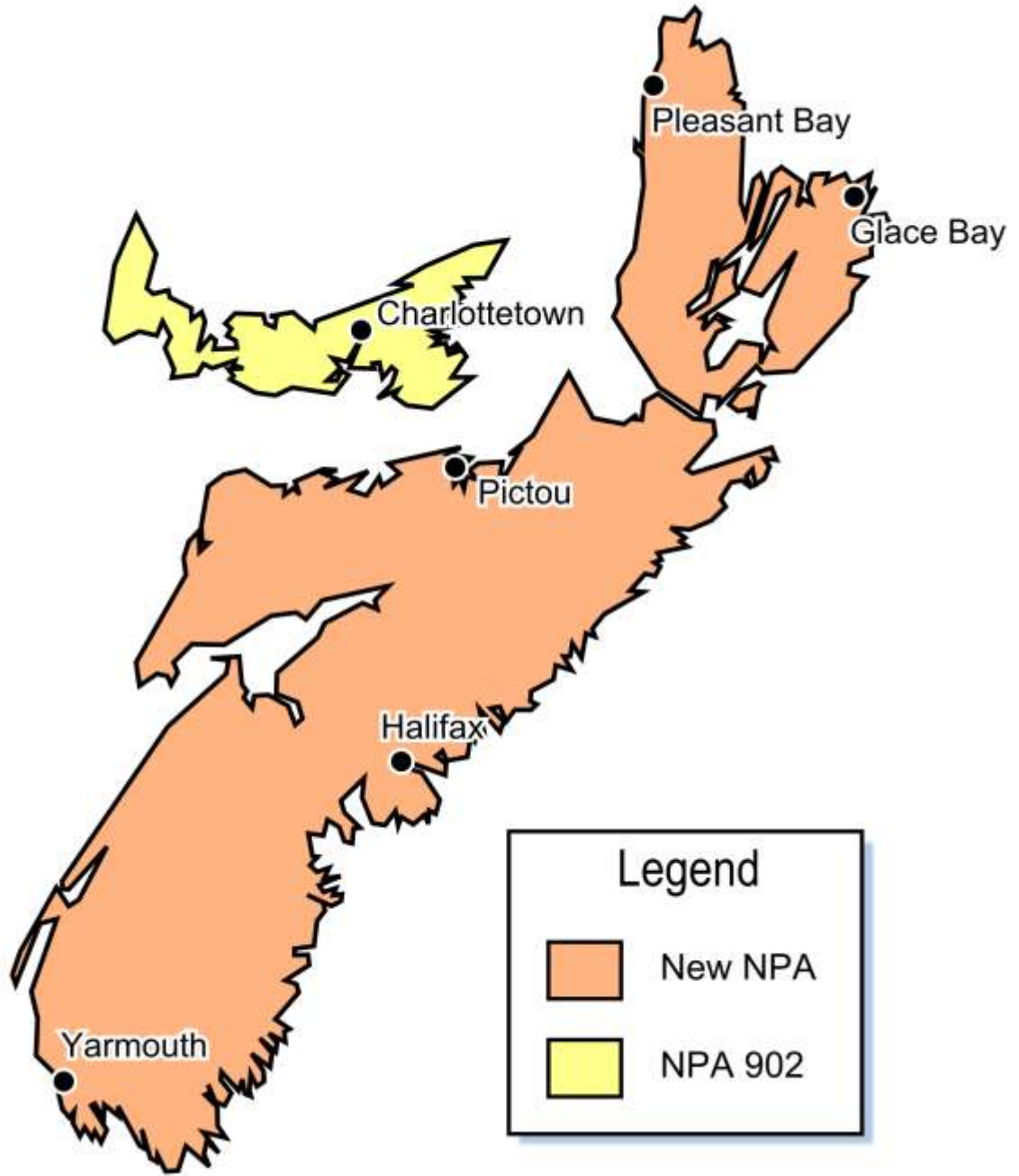


Figure 13 – Option 6: Split – Province of Nova Scotia changes to new NPA and Province of Prince Edward Island retains NPA 902

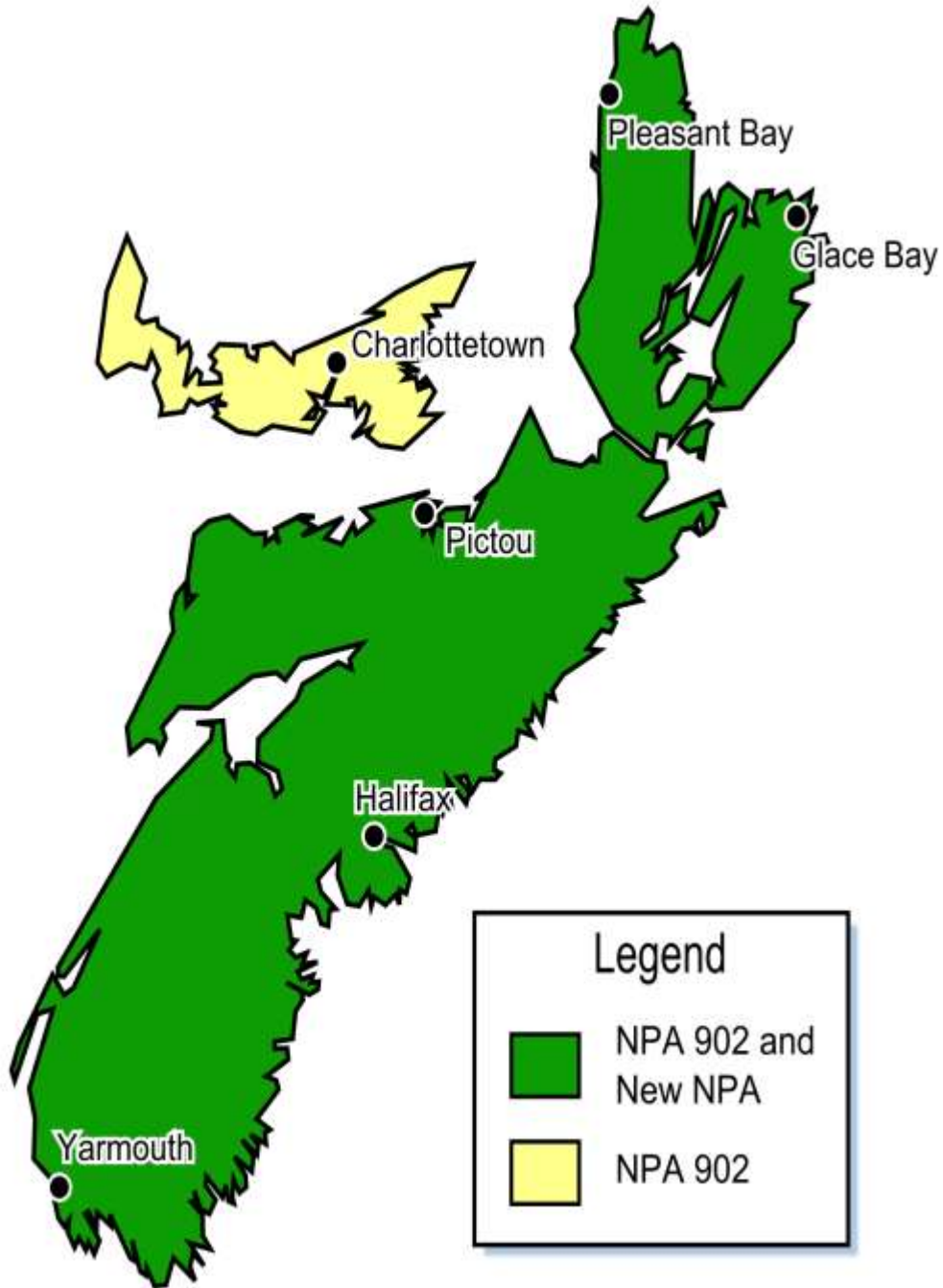


Figure 14 – Option 7: Concentrated Overlay of the new NPA Code on the Province of Nova Scotia and the Province of Prince Edward Island would continue to grow using NPA 902 resources

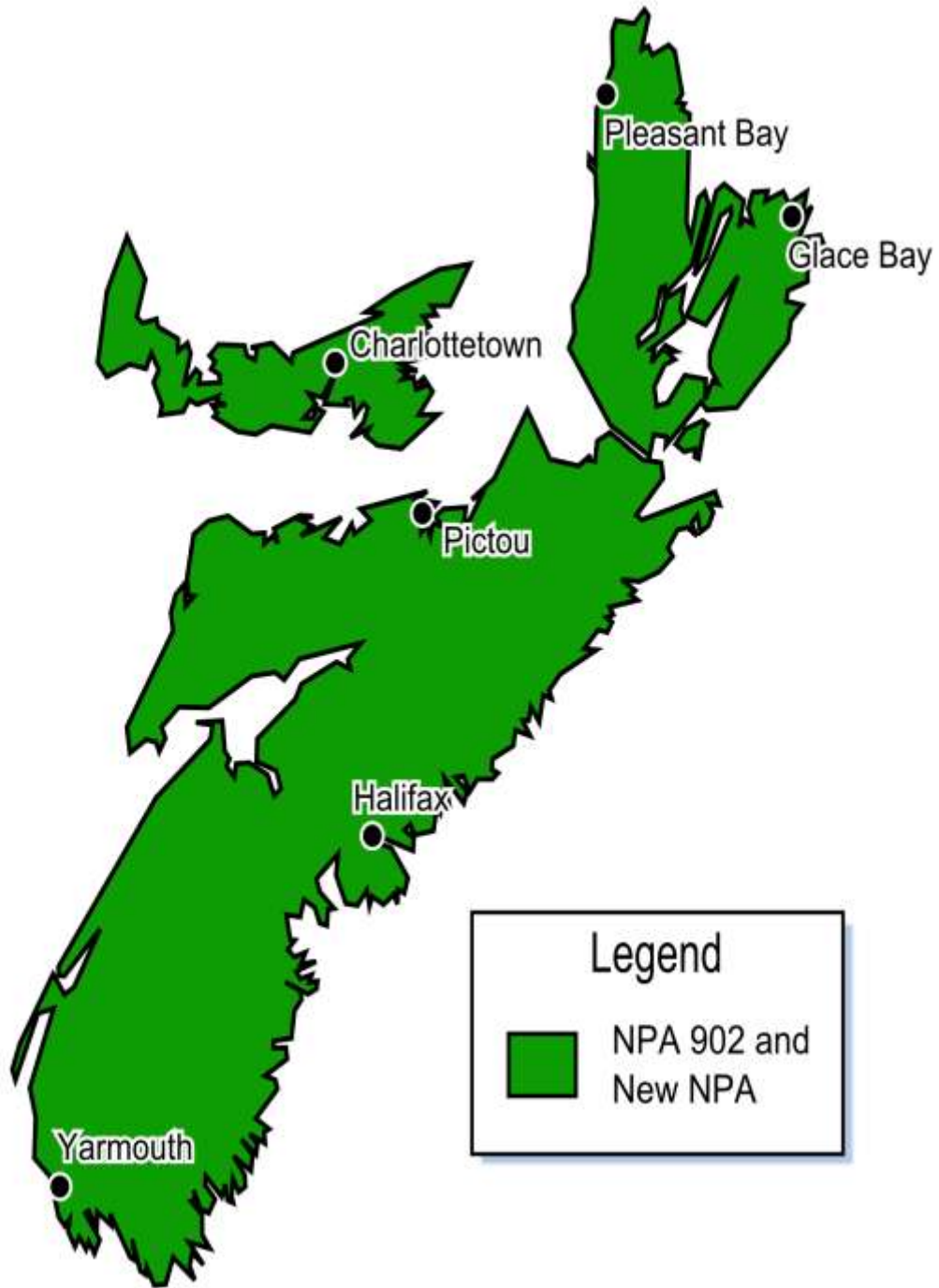


Figure 15 – Option 8: Distributed Overlay of New NPA on NPA 902

Table 1 – Exchange Areas currently in NPA 902, and NPAs for these Exchange Areas after each Relief Option

No.	Options		1		2		3		4		5		6		7		8	
	Exchange Area	Province	902	New	902	New	902	New	902	New	902	New	902	New	902	New	902	New
1	Advocate	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
2	Alberton	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
3	Amherst	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
4	Annapolis Royal	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
5	Antigonish	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
6	Argyle	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
7	Arichat	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
8	Aylesford	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
9	Baddeck	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
10	Barrington	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
11	Bass River	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
12	Bear River	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
13	Bedeque	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
14	Berwick	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
15	Blandford	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
16	Boisdale	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
17	Borden	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
18	Boularderie	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
19	Bridgetown	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
20	Bridgewater	NS	✓			✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
21	Brookfield	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
22	Brooklyn	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
23	Caledonia	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
24	Canning	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
25	Canso	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
26	Cardigan	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
27	Carleton	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
28	Charlottetown	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
29	Chelsea	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
30	Chester	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
31	Cheticamp	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
32	Cheverie	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
33	Chezzetcook	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
34	Clark's Harbour	NS		✓	✓			✓		✓	✓			✓	✓	✓	✓	✓
35	Clarksville	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
36	Collingwood	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
37	Country Harbour	NS		✓	✓			✓	✓			✓		✓	✓	✓	✓	✓
38	Covehead	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
39	Crapaud	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓

No.	Options		1		2		3		4		5		6		7		8	
	Exchange Area	Province	902	New	902	New	902	New	902	New	902	New	902	New	902	New	902	New
40	Debert	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
41	Digby	NS		✓	✓			✓			✓	✓			✓	✓	✓	✓
42	Dingwall	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
43	East Bay	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
44	Ecum Secum	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
45	Eldon	PE		✓	✓			✓	✓				✓	✓		✓		✓
46	Elmsdale	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
47	Eskasoni	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
48	Freeport	NS		✓	✓			✓			✓	✓			✓	✓	✓	✓
49	French Village	NS	✓			✓	✓				✓	✓			✓	✓	✓	✓
50	Gabarus	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
51	Georgetown	PE		✓	✓			✓	✓				✓	✓		✓		✓
52	Glace Bay	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
53	Goldboro	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
54	Goshen	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
55	Grand Narrows	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
56	Great Village	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
57	Guysborough	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
58	Halifax	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
59	Hantsport	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
60	Heatherton	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
61	Hopewell	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
62	Hubbards	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
63	Hunter River	PE		✓	✓			✓	✓				✓	✓		✓		✓
64	Ingonish	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
65	Inverness	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
66	Kennetcook	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
67	Kensington	PE		✓	✓			✓	✓				✓	✓		✓		✓
68	Kentville	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
69	Kenzieville	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
70	Ketch Harbour	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
71	Kingston	NS		✓	✓			✓			✓	✓			✓	✓	✓	✓
72	L'Ardoise	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
73	LaHave	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
74	Lake Charlotte	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
75	Larry's River	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
76	Lawrencetown	NS		✓	✓			✓			✓	✓			✓	✓	✓	✓
77	Liscomb	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
78	Liverpool	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓
79	Lockeport	NS		✓	✓			✓			✓	✓			✓	✓	✓	✓
80	Louisbourg	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
81	Louisdale	NS		✓	✓			✓	✓			✓			✓	✓	✓	✓
82	Lunenburg	NS	✓			✓	✓			✓	✓				✓	✓	✓	✓

No.	Options		1		2		3		4		5		6		7		8	
	Exchange Area	Province	902	New	902	New	902	New	902	New	902	New	902	New	902	New	902	New
83	Mabou	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
84	Maccan	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
85	Mahone Bay	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
86	Maitland	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
87	Margaree	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
88	Margaree Forks	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
89	Marion Bridge	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
90	Melrose	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
91	Merigomish	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
92	Meteghan	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
93	Middleton	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
94	Mill Village	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
95	Monastery	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
96	Montague	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
97	Morell-St. Peters	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
98	Mount Stewart	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
99	Mount Uniacke	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
100	Mulgrave	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
101	Murray River	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
102	Musquodoboit	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
103	Musquodoboit Harbour	NS	✓			✓	✓			✓				✓	✓	✓	✓	✓
104	Neil's Harbour	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
105	New Germany	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
106	New Glasgow	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
107	New Haven	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
108	New London	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
109	New Ross	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
110	New Waterford	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
111	Noel	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
112	North Sydney	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
113	O'Leary	PE		✓	✓		✓			✓		✓	✓		✓		✓	✓
114	Oxford	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
115	Parrsboro	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
116	Pictou	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
117	Port Bickerton	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
118	Port Dufferin	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
119	Port Greville	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
120	Port Hawkesbury	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
121	Port Hood	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
122	Port Maitland	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
123	Port Morien	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓

No.	Options		1		2		3		4		5		6		7		8	
	Exchange Area	Province	902	New	902	New	902	New	902	New	902	New	902	New	902	New	902	New
124	Port Mouton	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
125	Prospect Road	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
126	Pubnico	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
127	Pugwash	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
128	Queensport	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
129	River Hebert	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
130	River John	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
131	Riverport	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
132	Rusticoville	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
133	Sackville	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
134	Saltsprings	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
135	Sandy Cove	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
136	Saulnierville	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
137	Sheet Harbour	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
138	Shelburne	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
139	Sherbrooke	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
140	Shubenacadie	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
141	Souris	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
142	South Lake	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
143	Southampton	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
144	Springfield	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
145	Springhill	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
146	St. Ann's Bay	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
147	St. Margarets	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
148	St. Peters	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
149	Stewiacke	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
150	Summerside	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
151	Sydney	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
152	Tangier	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
153	Tatamagouche	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
154	Thorburn	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓
155	Tignish	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
156	Truro	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
157	Tusket	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓
158	Tyne Valley	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
159	Upper Musquodoboit	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
160	Upper Stewiacke	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
161	Vernon River	PE		✓	✓			✓	✓			✓	✓		✓		✓	✓
162	Wallace	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
163	Walton	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
164	Waverley	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓
165	Wedgeport	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓

No.	Options		1		2		3		4		5		6		7		8		
	Exchange Area	Province	902	New	902	New	902	New	902	New	902	New	902	New	902	New	902	New	
166	Wellington	PE		✓	✓			✓	✓			✓	✓			✓		✓	✓
167	Wentworth	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓	✓
168	Weymouth	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓	✓
169	Whycomagh	NS		✓	✓			✓	✓		✓			✓	✓	✓	✓	✓	✓
170	Windsor	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓	✓
171	Wolfville	NS	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓	✓
172	Woods Harbour	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓	✓
173	Yarmouth	NS		✓	✓		✓			✓	✓			✓	✓	✓	✓	✓	✓

Table 2 – Exchange Areas in each LIR

LIR	Exchange Name	Remarks
Cape Breton	Baddeck	
Cape Breton	Boisdale	
Cape Breton	Boularderie	
Cape Breton	Cheticamp	
Cape Breton	Dingwall	
Cape Breton	East Bay	
Cape Breton	Eskasoni	
Cape Breton	Gabarus	
Cape Breton	Glace Bay	
Cape Breton	Grand Narrows	
Cape Breton	Ingonish	
Cape Breton	Inverness	
Cape Breton	Louisbourg	
Cape Breton	Mabou	
Cape Breton	Margaree	
Cape Breton	Margaree Forks	
Cape Breton	Marion Bridge	
Cape Breton	Neil's Harbour	
Cape Breton	New Waterford	
Cape Breton	North Sydney	
Cape Breton	Port Hood	
Cape Breton	Port Morien	
Cape Breton	St. Ann's Bay	
Cape Breton	Sydney	
Cape Breton	Whycocomagh	
Halifax	Advocate	
Halifax	Amherst	
Halifax	Bass River	
Halifax	Blandford	
Halifax	Bridgewater	
Halifax	Brookfield	
Halifax	Brooklyn	
Halifax	Caledonia	
Halifax	Chelsea	
Halifax	Chester	
Halifax	Cheverie	
Halifax	Chezzetcook	
Halifax	Clarksville	
Halifax	Collingwood	
Halifax	Debert	
Halifax	Ecum Secum	
Halifax	Elmsdale	

LIR	Exchange Name	Remarks
Halifax	French Village	
Halifax	Great Village	
Halifax	Halifax	
Halifax	Hantsport	
Halifax	Hubbards	
Halifax	Kennetcook	
Halifax	Kentville	
Halifax	Ketch Harbour	
Halifax	LaHave	
Halifax	Lake Charlotte	
Halifax	Liverpool	
Halifax	Lunenburg	
Halifax	Maccan	
Halifax	Mahone Bay	
Halifax	Maitland	
Halifax	Mill Village	
Halifax	Mount Uniacke	
Halifax	Musquodoboit	
Halifax	Musquodoboit Harbour	
Halifax	New Germany	
Halifax	New Ross	
Halifax	Noel	
Halifax	Oxford	
Halifax	Parrsboro	
Halifax	Port Dufferin	
Halifax	Port Greville	
Halifax	Port Mouton	
Halifax	Prospect Road	
Halifax	Pugwash	
Halifax	River Hebert	
Halifax	Riverport	
Halifax	Sackville	
Halifax	Sheet Harbour	
Halifax	Shubenacadie	
Halifax	Southampton	
Halifax	Springfield	
Halifax	Springhill	
Halifax	St. Margarets	
Halifax	Stewiacke	
Halifax	Tangier	
Halifax	Truro	
Halifax	Upper Musquodoboit	
Halifax	Upper Stewiacke	
Halifax	Wallace	

LIR	Exchange Name	Remarks
Halifax	Walton	
Halifax	Waverley	
Halifax	Wentworth	
Halifax	Windsor	
Halifax	Wolfville	
Pictou	Antigonish	
Pictou	Arichat	
Pictou	Canso	
Pictou	Country Harbour	
Pictou	Goldboro	
Pictou	Goshen	
Pictou	Guysborough	
Pictou	Heatherton	
Pictou	Hopewell	
Pictou	Kenzieville	
Pictou	L'Ardoise	
Pictou	Larry's River	
Pictou	Liscomb	
Pictou	Louisdale	
Pictou	Melrose	
Pictou	Merigomish	
Pictou	Monastery	
Pictou	Mulgrave	
Pictou	New Glasgow	
Pictou	Pictou	
Pictou	Port Bickerton	
Pictou	Port Hawkesbury	
Pictou	Queensport	
Pictou	River John	
Pictou	Saltsprings	
Pictou	Sherbrooke	
Pictou	St. Peters	
Pictou	Tatamagouche	
Pictou	Thorburn	
Queens	Alberton	
Queens	Bedeque	
Queens	Borden	
Queens	Cardigan	
Queens	Charlottetown	
Queens	Covehead	
Queens	Crapaud	
Queens	Eldon	
Queens	Georgetown	
Queens	Hunter River	

LIR	Exchange Name	Remarks
Queens	Kensington	
Queens	Montague	
Queens	Morell-St. Peters	
Queens	Mount Stewart	
Queens	Murray River	
Queens	New Haven	
Queens	New London	
Queens	O'Leary	
Queens	Rusticoville	
Queens	Souris	
Queens	South Lake	
Queens	Summerside	
Queens	Tignish	
Queens	Tyne Valley	
Queens	Vernon River	
Queens	Wellington	
Yarmouth	Annapolis Royal	
Yarmouth	Argyle	
Yarmouth	Aylesford	
Yarmouth	Barrington	
Yarmouth	Bear River	
Yarmouth	Berwick	
Yarmouth	Bridgetown	
Yarmouth	Canning	
Yarmouth	Carleton	
Yarmouth	Clark's Harbour	
Yarmouth	Digby	
Yarmouth	Freeport	
Yarmouth	Kingston	
Yarmouth	Lawrencetown	
Yarmouth	Lockeport	
Yarmouth	Meteghan	
Yarmouth	Middleton	
Yarmouth	Port Maitland	
Yarmouth	Pubnico	
Yarmouth	Sandy Cove	
Yarmouth	Saulnierville	
Yarmouth	Shelburne	
Yarmouth	Tusket	
Yarmouth	Wedgeport	
Yarmouth	Woods Harbour	
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NPA 902 RELIEF IMPLEMENTATION PLAN (RIP)

23 July 2012

DATE of RPC Consensus: 18 July 2012

TITLE: NPA 902 Relief Implementation Plan (RIP)

DISTRIBUTION: CRTC

ISSUED BY: NPA 902 Relief Planning Committee (RPC)

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NPA 902 Relief Implementation Plan (RIP)

1. INTRODUCTION

This Relief Implementation Plan (RIP) was developed in accordance with the Canadian NPA Relief Planning Guideline. This RIP is a set of activities and deliverables established by the Relief Planning Committee (RPC) that are required to provide relief to the exhausting NPA. The objective of the NPA Relief Planning Process is to ensure an adequate supply of Central Office (CO) Codes and telephone numbers is always available to the Canadian telecommunications industry and users.

Purpose of RIP

The purpose of this RIP is to establish a framework and timeframe for implementing relief for NPA 902. This RIP addresses the:

- 1) introduction of mandatory 10-digit dialling for all local calls originating within the NPA 902 region prior to the introduction of new NPA Code 782.
- 2) implementation of new NPA Code 782 as a distributed overlay to the NPA 902 region.

This RIP contains a Relief Implementation Schedule (see Section 4), Consumer Awareness Program (CAP) (see Attachment 1) and Network Implementation Plan (NIP) (see Attachment 2).

This RIP addresses the activities, deliverables, and events impacting more than one individual Telecommunications Service Provider (TSP). It does not cover activities internal to each TSP. Attachment 3, Individual Telecommunications Service Provider Responsibilities, provides a list of activities that each TSP will need to address in its own network, systems and business operations.

In addition, this RIP does not cover issues for which there is already an established process for coordination between TSPs to establish service (e.g., interconnection agreements between carriers).

Telecom Notice of Public Consultation CRTC 2012-309

On 24 May 2012, the CRTC issued Telecom Notice of Consultation CRTC 2012-309, *Establishment of a CISC ad hoc committee for area code relief planning for area code 902 in Nova Scotia and Prince Edward Island*, in which it established a CRTC Interconnection Steering Committee ad hoc relief planning committee (RPC) to examine options for providing relief to area code 902 in Nova Scotia and Prince Edward Island. The Commission directed the CNA to declare a Jeopardy Condition for area code 902 and noted that area code 902 was projected to exhaust in April 2015. The Notice of Consultation also stated:

The Commission directs the 902 RPC, in developing its recommendations, to set aside seven central office (CO) codes for initial

code assignments for carriers already providing service in the area served by area code 902. The Commission also directs the 902 RPC to set aside 10 CO codes for initial code assignments exclusively for new entrants, and to ensure that this pool of CO codes remains in place for a period of two years after the introduction of the new area code in Nova Scotia and Prince Edward Island or until the pool is depleted, whichever occurs first.

When the January 2012 R-NRUF results were adjusted per the Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for Carriers already providing service, and 10 for initial code assignments for New Entrants the Projected Exhaust Date was moved out to May 2015.

In the event that circumstances change after the date the Commission approves this RIP, the RPC may propose modifications to this RIP as necessary.

Planning Document (PD)

The RPC has developed this RIP in accordance with the recommendations contained in the Planning Document (PD). In an effort to expedite the process, due to the Jeopardy Condition in NPA 902, the RIP & PD are being jointly submitted to the CRTC for approval.

After assessing the Relief Options and other issues contained in the PD, the RPC submitted the following recommendations to the CISC and CRTC:

- 1) The Relief Method should be a distributed overlay of a new NPA Code on Nova Scotia and Prince Edward Island NPA 902;
- 2) NPA Code 782 should be the Relief NPA Code (at the request of the CNA, NANPA has set aside NPA 782 as a Relief NPA in Canada (see section 12));
- 3) The Relief Date should be 30 November 2014 in order to provide Carriers and customers with advanced notification and sufficient lead-time to implement relief given the Jeopardy Condition in NPA 902;
- 4) The local dialling plan should be changed to 10 digits for all local calls within NPA 902;
- 5) A 7- to 10-digit local dialling transition period should be implemented commencing on 23 August 2014, with network announcements on calls dialled using 7 digits phased in over one week between 23 August 2014 and 30 August 2014;
- 6) Mandatory 10-digit local dialling should be implemented commencing on 16 November 2014, with network announcements on calls dialled using 7 digits phased in over one week between 16 November 2014 and 23 November 2014;
- 7) Standard network announcements should be implemented commencing on 2 March 2015 and completed within one month by 2 April 2015; and

8) NPA 942 should be set aside for the future relief of NPA 416/437/647.

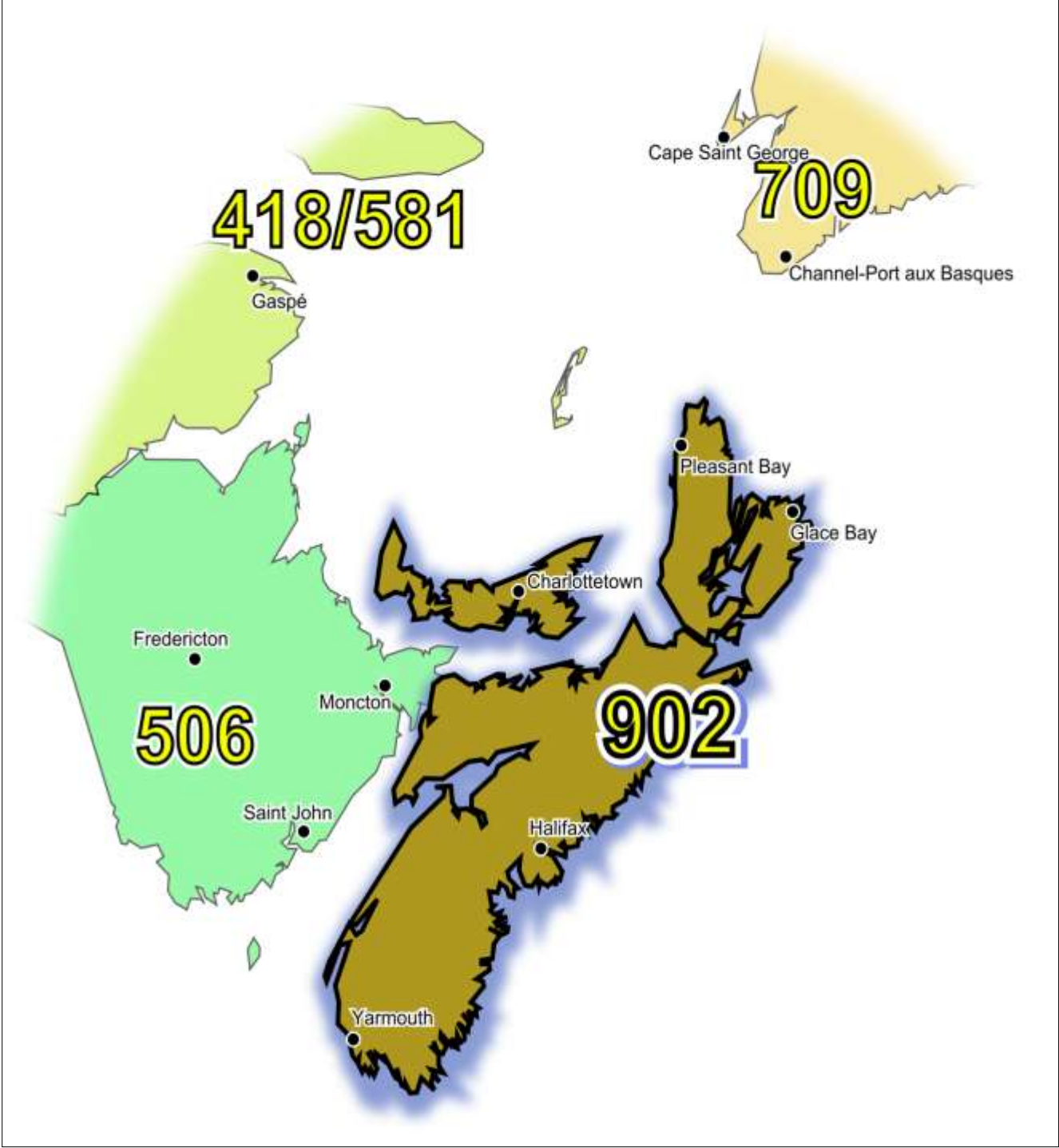
RIP Recommendations:

In accordance with the CRTC direction contained in Telecom Regulatory Policy CRTC 2009-156, section 13, regarding dialling plan changes, the RPC notes that the Commission has retained the general obligation for all relevant Telecommunications Service Providers (TSPs) to inform all customers about dialling plan changes; however, TSPs may determine the appropriate methods to inform their customers.

All Carriers must have modified their network signalling to permit 10-digit local dialling by 30 May 2014.

Map of NPA 902

A map showing NPA 902 is below. The 902 area code consists of 173 Exchange Areas serving the provinces of Nova Scotia and Prince Edward Island which includes the major communities of Amherst, Antigonish, Bridgewater, Charlottetown, Halifax, Kentville, New Glasgow, Port Hawkesbury, Sackville, Summerside, Sydney, Truro and Yarmouth.



Dial Plan Impacts

Currently the dialling for local calls within NPA 902 and across its boundaries is as follows:

- 7-digit dialling for local calls within NPA 902;
- in addition to providing 7-digit dialling for local calls within NPA 902, most TSPs permit 10-digit dialling, or 10- and 11-digit dialling;
- 10-digit local calling between NPA 902 and adjacent Canadian NPA 506 between Amherst, Nova Scotia and Sackville, New Brunswick; and
- no local calling between NPA 902 and other adjacent NPAs.

NPA relief will have the following impacts on dialling for local calls originated in the NPA 902 area:

- All existing 7-digit dialling will be eliminated and 10-digit local dialling will become mandatory.

After NPA relief, dialling for local calls will be as follows:

Type of Relief	Local calls originating in NPA 902 and new NPA			Local calls between NPA 506 (Sackville) and NPA 902 &/or new NPA (Amherst)
	Within NPA 902	Within new NPA	Between NPA 902 and new NPA	
Overlay	7-digit dialling eliminated and mandatory 10-digit dialling introduced In Relief Option 7, Prince Edward Island customers may be able to retain 7-digit local dialling.			Mandatory 10-digit dialling already exists

2. NPA RELIEF PLANNING PROCESS

NPA Relief Planning is conducted under the regulatory oversight of the Commission in accordance with the Canadian NPA Relief Planning Guideline. The Guideline was developed by the Canadian Steering Committee on Numbering (CSCN), accepted by the CISC and approved by the Commission.

The Canadian NPA Relief Planning Guideline and related information on relief planning may be obtained from the CRTC CISC CSCN guidelines web page at <http://www.crtc.gc.ca/cisc/eng/cisf3fq.htm> or via a link from the CNA website at http://www.cnac.ca/npa_codes/npa_assign_guidelines.htm. The CISC operates under the CISC Administrative Guidelines that may be obtained from the Commission web site (see <http://www.crtc.gc.ca/public/cisc/c-docs/CISC2001-03-31.doc>).

For each NPA projected to exhaust within a 72 month time period, the Commission informs the public that an RPC, chaired by the CNA, will be formed as an Ad Hoc Working Group of the CISC to implement relief planning for the exhausting NPA. Any

interested party may participate in the relief planning process. All RPCs operate as open public forums. Any party wanting to participate in this process is encouraged to visit the above web sites to obtain information on the process and schedule of events and activities. Any questions regarding the relief planning process may be directed to the CNA as follows:

Contact: Glenn Pilley
Telephone: 613-683-3289
Facsimile: 613-563-9293
E-mail: pilleyg@saiccanada.com
Address: CNA – SAIC Canada
Suite 1516 - 60 Queen Street
Ottawa, Ontario, Canada K1P 5Y7

Individual TSPs are responsible for their own activities to implement relief (see Attachment 3). Each TSP employs a variety of information and operation support systems for the operation, maintenance, control, and administration of its network and to serve its customers. Each TSP is responsible to make the necessary changes in its systems in order to operate in the new environment and specifically to process the full 10-digit telephone number of each subscriber. Each TSP is responsible to ensure its customers are informed and implement the changes necessary to support the relief activity. Also, each TSP is responsible to ensure its own suppliers of products and services (e.g., Operator Services) implement the changes necessary to support the relief activity. Accordingly, no activities have been identified for the coordination of these functions between different TSPs, except as otherwise provided for in this RIP (e.g., Consumer Awareness Program (CAP) and Network Implementation Plan (NIP)).

Individual TSPs and industry database owners/operators shall advise Commission staff of any concerns or problems as they arise with respect to modifying their systems and databases in time to implement relief in accordance with this RIP.

3. PROPOSED NPA RELIEF IMPLEMENTATION TASK FORCE(S)

The RPC developed this RIP with the assistance and input of two Task Forces created by the RPC:

- 1) Consumer Awareness Task Force (CATF), and
- 2) Network Implementation Task Force (NITF)

The CNA sent an e-mail to all current and prospective Code Holders in the affected NPA requesting those entities to provide a contact name to the Co-chairs of the two Task Forces (with a courtesy copy to Commission staff). Independent telephone companies may choose to represent themselves or to be represented by their associations.

Each Task Force has at least one voluntary Co-chair. The Co-chairs of the CATF and NITF act as the single point of contact and spokespersons for their respective Task Forces. The Co-chairs maintain the list of participants on their Task Forces as confidential. All TSPs operating in the affected NPAs have a participant on each of the Task Forces.

The two Task Forces have developed and submitted separate but coordinated plans for their respective activities:

- 1) Consumer Awareness Program (CAP), and
- 2) Network Implementation Plan (NIP).

Individual TSPs are expected to develop individual consumer awareness programs and network implementation plans within the parameters of the CAP and NIP contained in this RIP. The CATF and NITF will meet periodically to perform their industry level functions identified in this RIP. The RPC will provide oversight and coordination of the CATF and NITF in accordance with the RIP.

Consumer Awareness Task Force (CATF)

The purpose of the CATF is to develop a comprehensive and consistent consumer awareness program for relief activities in this NPA, and to forward it to the CISC by the due date in the Relief Implementation Schedule.

To develop a CAP, the RPC created a CATF. Each TSP operating in this NPA is requested to provide the name of a representative to serve on the CATF. The CATF is Co-chaired by volunteer participants of the CATF. The Co-chairs of the CATF compile, maintain and distribute the list of all representatives on the CATF to the CATF distribution list (i.e., contact name, title, telephone number, mobile telephone number, fax number, street address, e-mail address), including the CNA.

Purpose and Mandate

The responsibilities of the CATF include, but are not limited to:

- 1) Develop and agree on a CAP and schedule;
- 2) Develop and submit progress reports;
- 3) Identify and address CAP issues;
- 4) Act as single point of contact on CAP issues; and,
- 5) Identify any consumer concerns or issues regarding the implementation of relief and advise the RPC, the Commission or Commission staff as appropriate.

The role of the individual CATF representative of each TSP is to ensure that its TSP organization develops, submits and implements its individual consumer awareness program in accordance with the CAP and associated schedule. Each representative acts as the single point of contact with respect to implementation of the CAP and activities for its organization. Each TSP is responsible for developing, submitting and implementing its individual consumer awareness program in accordance with the industry level CAP.

All TSPs shall provide progress reports to the CATF for submission to the RPC in accordance with the Relief Implementation Schedule.

In order to implement the CAP, TSPs may act individually or collectively to accomplish their objectives. However, where TSPs act collectively (e.g., Telecommunications

Alliance), such TSPs are individually responsible to report their progress to the CATF and RPC.

Individual TSPs should notify the CATF, or Commission staff, or the Commission, as appropriate, if there are any problems or concerns with respect to their individual CAP activities to implement relief in accordance with this RIP.

The recommended CAP is attached to this RIP (see Attachment 1).

Network Implementation Task Force (NITF)

The purpose of the NITF is to develop a Network Implementation Plan (NIP) to be submitted to the CISC. This complies with the Canadian NPA Relief Planning Guideline.

Each TSP operating in this NPA is requested to provide the name of a representative to serve on the NITF. The NITF is Co-chaired by volunteer participants of the NITF. The Co-chairs of the NITF compile, maintain and distribute the list of all representatives on the NITF to the NITF distribution list (i.e., contact name, title, telephone number, mobile telephone number, fax number, street address, e-mail address), including the CNA.

Purpose and Mandate

The role of the NITF is to identify and address network implementation issues that affect all carriers. The responsibilities of the NITF include, but are not limited to:

- 1) Develop and agree on a NIP and schedule;
- 2) Develop and submit progress reports;
- 3) Identify and address NIP issues;
- 4) Act as single point of contact on NIP issues;
- 5) Identify any network concerns or issues regarding the implementation of relief and advise the RPC, the Commission or Commission staff as appropriate; and,
- 6) Develop inter-network test plans, as necessary.

The role of the individual NITF representative of each TSP is to ensure that its TSP organization develops, submits and implements its individual network implementation plan in accordance with the NIP and associated schedule. Each representative acts as the single point of contact for implementation of the NIP and activities for its organization. Each TSP is responsible to develop, submit and implement its individual NIP in accordance with the industry level NIP.

All TSPs shall provide progress reports to the NITF for submission to the RPC in accordance with the Relief Implementation Schedule.

Test Plans and Tests shall be arranged on a bilateral basis between interconnecting TSPs in accordance with bilateral agreements and the Relief Implementation Schedule.

Individual TSPs and industry database owners/operators (e.g., Canadian Local Number Portability Consortium) should notify the NITF, or Commission staff, or the Commission, as appropriate, if there are any problems or concerns with modifying their systems and databases in time to implement relief in accordance with this RIP.

The recommended NIP is attached to this RIP (see Attachment 2).

4. PROPOSED NPA RELIEF IMPLEMENTATION SCHEDULE

The following table identifies the major implementation activities, deliverables and associated dates based upon the tasks identified in the Canadian NPA Relief Planning Timeline as well as major events in both the CAP and NIP. All TSPs and telecommunications service users should plan their internal relief activities in accordance with the following Relief Implementation Schedule.

RELIEF IMPLEMENTATION For a Distributed Overlay of new NPA over NPA 902

Item	Task or Event	PRIME	START	END
1	CNA identifies NPA exhaust and notifies by e-mail CRTC staff, CSCN, NANPA & CISC that the NPA will exhaust within 72 months	CNA		29-Mar-11
2	CNA conducts R-NRUF & releases results	CNA	29-Mar-11	29-Mar-12
3	CRTC issues Telecom Notice of Consultation regarding establishment of an ad hoc Relief Planning Committee	CRTC	29-Mar-12	24-May-12
4	CNA announces the date for the initial NPA Relief Planning face-to-face meeting & requests contributions	CNA	29-Mar-12	16-May-12
5	CNA develops and distributes IPD to RPC	CNA	29-Mar-12	29-May-12
6	RPC participants review IPD & submit contributions to RPC	RPC	29-May-12	11-Jun-12
7	CNA chairs initial RPC meeting to start development of PD, RIP & Planning Letter (PL), & schedules future meetings/conference calls	CNA, RPC	12-Jun-12	14-Jun-12
8	CNA chairs subsequent RPC meetings/conference calls to finalize PD, create Consumer Awareness and Network Implementation Task Forces and develop a Relief Implementation Plan	CNA, RPC	14-Jun-12	18-Jul-12
9	Special Types of Telecommunications Service Users (9-1-1 PSAPs, alarm companies, ISPs, paging companies, lifeline services, etc.) to identify any concerns to RPC & CRTC	Special Users	29-May-12	18-Jul-12
10	CNA forwards Planning Document (PD) and Relief Implementation Plan (RIP) to the CISC and CRTC for approval	CNA	18-Jul-12	23-Jul-12
11	CRTC issues Telecom Decision approving the Relief Method, Relief Date, New NPA & Relief Implementation Plan (RIP)	CRTC	23-Jul-12	14-Nov-12
12	CNA obtains relief NPA from NANPA	CNA	14-Nov-12	4-Dec-12
13	Task Forces, Telecommunications Service Providers (TSPs) and users implement relief (starts at CRTC approval of Relief Method & Date and ends on Relief Date)	TSPs	14-Nov-12	30-Nov-14

Item	Task or Event	PRIME	START	END
14	All TSPs to develop and file individual consumer awareness programs with the CRTC (may be done collectively by Telecommunications Alliance) (starts at CRTC approval of RIP)	TSPs	14-Nov-12	25-Mar-13
15	CNA issues media release (in coordination with Telecommunications Alliance) (may start upon CRTC approval of RIP and should be issued at least 18 months prior to the Relief Date)	CNA	25-Mar-13	30-May-13
16	CNA submits PL and RIP to NANPA (should be submitted at least 18 months prior to the Relief Date)	CNA	14-Nov-12	30-May-13
17	NANPA receives and posts Planning Letter to NANPA website (within 2 weeks of receipt from the CNA)	NANPA	30-May-13	13-Jun-13
18	All TSPs implement consumer awareness activities (starts upon filing of Consumer Awareness Programs with the CRTC and is completed on the Relief Date)	TSPs	25-Mar-13	30-Nov-14
19	All TSPs to notify all customers (residence, business & special customers) of the need to transition from 7- to 10-digit local dialling and the new overlay NPA (may start with the filing of Consumer Awareness Programs with the CRTC and all customers should be notified at least 18 months prior to the Relief Date)	TSPs	25-Mar-13	30-May-13
20	TSPs to submit Progress Report #1 to NITF and CATF (starts after completion date for all TSPs to notify their customers and requires 2 weeks)	TSPs	30-May-13	13-Jun-13
21	NITF and CATF develop & submit Progress Report #1 to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	13-Jun-13	27-Jun-13
22	RPC submits Progress Report #1 to CISC/CRTC (linked to NITF and CATF reports)	RPC	27-Jun-13	11-Jul-13
23	Telcordia TRA database updates to add Exchanges to new overlay NPA (starts on the date that the PL is posted to the NANPA web site and must be completed by 6 months prior to the Relief Date)	Telcordia TRA	13-Jun-13	30-May-14
24	All Telecommunications Service Providers and Telecommunications Service Users (including Special Users, 9-1-1 PSAPs, alarm companies, lifeline services, ISPs, paging companies, payphone providers, etc.) to implement changes to their telecom equipment & systems to accommodate the new NPA and the transition from 7- to 10-digit local dialling (starts upon CRTC approval of RIP and ends on the Relief Date)	Telecom Service Users	14-Nov-12	30-Nov-14
25	Payphone Providers Reprogram Payphones (starts upon CRTC approval of RIP and ends on the Relief Date)	Payphone Providers	14-Nov-12	30-Nov-14
26	TSPs and database owners/operators to modify systems and industry databases (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs & Database Owners	14-Nov-12	30-Nov-14
27	Operator Services & Directory Assistance Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14

Item	Task or Event	PRIME	START	END
28	Directory Publisher Readiness for relief (ability to identify the NPA in telephone numbers in the directory published after the new NPA is activated) (starts upon CRTC approval of RIP and ends on the Relief Date)	Directory Publishers	14-Nov-12	30-Nov-14
29	9-1-1 Systems and Databases Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	PSAPS, 9-1-1 Service Providers & TSPs	14-Nov-12	30-Nov-14
30	Network Systems & Equipment Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14
31	Service Order & Business System Readiness (starts on CRTC approval of RIP and ends on the Relief Date)	TSPs	14-Nov-12	30-Nov-14
32	International Gateway Switch Translations Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	Int'l TSPs	14-Nov-12	30-Nov-14
33	Canadian Local Number Portability Consortium (CLNPC) Database Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	CLNPC & NPAC	14-Nov-12	30-Nov-14
34	Toll Free SMS Database Readiness for new NPA (starts on CRTC approval of RIP and ends on the Relief Date)	Toll TSPs	14-Nov-12	30-Nov-14
35	TSPs apply for Test CO Codes in new NPA (applications may be submitted no more than 6 months and no less than 66 days prior to the start date for the Inter-Carrier Testing Period) (Section 7.16.4 Canadian RP GL)	TSPs	30-Nov-13	25-Mar-14
36	Develop Inter-Carrier Network Test Plans and prepare for testing (individual TSPs to make arrangements in accordance with interconnection agreements) (may start upon CRTC approval of RIP and must be completed by start date for the Inter-Carrier Testing Period)	NITF & TSPs	14-Nov-12	30-May-14
37	All international and domestic TSPs must activate the new NPA in their networks by the start date for the Inter-Carrier Testing Period	TSPs	14-Nov-12	30-May-14
38	Date by which TSPs must route all calls using 10-digit signalling (i.e., cease use of 7-digit signalling) for local traffic sent to and received from other TSPs (must be completed by the start date for the Inter-Carrier Testing Period) (TSPs may, but are not obligated to, negotiate special routing arrangements on a bilateral basis if required)	TSPs	-	30-May-14
39	Activation date for new NPA Test CO Codes and Test Numbers in network must be completed by the start date for the Inter-Carrier Testing Period)	TSPs	-	30-May-14
40	Inter-Carrier Testing Period (subject to Inter-Carrier Network Test Plans) (starts about 3 months prior to the start date for the 7- to 10-Digit dialling transition period)	NITF & TSPs	30-May-14	30-Nov-14
41	TSPs to submit Progress Report #2 to NITF and CATF (starts on commencement of Inter-Carrier Testing Period)	TSPs	30-May-14	13-Jun-14

Item	Task or Event	PRIME	START	END
42	NITF and CATF develop & submit Progress Report #2 to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	13-Jun-14	27-Jun-14
43	RPC submits Progress Report #2 to CISC/CRTC (linked to NITF and CATF reports)	RPC	27-Jun-14	11-Jul-14
44	Phase-in of 7- to 10-Digit Dialling Transition Period announcements (starts about 3 months prior to Relief Date and occurs over 1 week)	TSPs	23-Aug-14	30-Aug-14
45	Phase-in of mandatory 10 digit dialling announcements (occurs over 1 week and should be completed at least 1 week prior to Relief Date to address any problems that may arise)	TSPs	16-Nov-14	23-Nov-14
46	Relief Date (earliest date when CO Codes in new NPA may be activated)			30-Nov-14
47	TSPs submit Final Report to CATF and NITF (starts on Relief Date and provides 2 weeks for preparation & submission)	TSPs	30-Nov-14	14-Dec-14
48	NITF and CATF develop & submit Final Progress Report to RPC (linked to TSP reports to NITF and CATF)	NITF & CATF	14-Dec-14	28-Dec-14
49	RPC submits Final Progress Report to CISC/CRTC (linked to NITF and CATF reports)	RPC	28-Dec-14	11-Jan-15
50	TSPs disconnect Test Codes & Numbers, and submit Part 1 form to return Test Codes (starts 1 month after Relief Date and allows 1 month for completion)	TSPs	30-Dec-14	31-Jan-15
51	TSPs change Mandatory 10-Digit Dialling Announcement to standard announcement (mandatory announcement is required for a minimum of 3 months) (removal starts about 3 months after Relief Date and must be completed within 1 month)	TSPs	2-Mar-15	2-Apr-15

Note 1: In the event that a new J-NRUF or actual demand indicates that the Projected Exhaust Date will change significantly, the CNA may convene a meeting of the NPA Relief Planning Committee to review the issue and make a recommendation to the CISC and CRTC.

Note 2: In the event that the Projected Exhaust Date is delayed by greater than six months, the RPC recommends that the CNA advise the RPC of the change and immediately convene a conference call of the RPC to discuss and address the matter. The RPC shall conduct an assessment of whether any changes should be made to the Relief Implementation Plan and Schedule (e.g., changes in tasks, events, and dates including the Relief Date) and, if agreed, submit recommendations to the CRTC for consideration and approval.

5. OTHER ISSUES

Payphone Service Providers

All Payphone Service Providers are required to comply with the requirements contained in this RIP and Commission Decisions.

It is the responsibility of each Payphone Service Provider to update any system associated with the operation of their payphones in order to accommodate relief

including the implementation of 10-digit local dialling. As well, each Payphone Service Provider must update any written instructions affixed to their payphones to advise customers that 10-digit dialling is required for local calls.

It is recommended that Commission staff notify Payphone Service Providers of the implementation of relief for this NPA, the new overlay NPA, and 10-digit local dialling.

Individual Payphone Service Providers should notify the Commission or Commission staff, as appropriate, if they have any problems or concerns.

Telecommunication Service Users

All users are required to comply with the requirements contained in this RIP and Commission Decisions.

Users of telecommunications services are required to make the necessary changes to their telecommunications systems and equipment in order to send and receive calls using 10-digit local dialling over the Public Switched Telephone Network (PSTN). Users include, but are not limited to, 9-1-1 Public Safety Answering Points (PSAPs), alarm companies, internet service providers, paging companies, owners of customer premises equipment, unified messaging service companies, governments, apartment building owners, meter readers and the general public. Users that may be impacted by the implementation of the permissive dialling announcement should complete all necessary changes prior to the beginning of the 7- to 10-Digit Dialling Transition Period for network announcements as identified in the Relief Implementation Schedule. TSPs should advise their customers that any automatic diallers or automatic call forwarding systems that are programmed to use 7-digit dialling must be reprogrammed to use 10-digit dialling by the introduction of the 7- to 10-Digit Dialling Transition Period announcement.

Any devices programmed to automatically dial 7 digits cannot be changed until Bell Aliant has implemented permissive 7/10 digit dialling in their wireline network. These devices must then be programmed to dial 10 digits before the network announcements are introduced.

Users of telecommunications services should notify their TSP and the Commission or Commission staff, as appropriate, if they have any problems or concerns with modifying their systems and databases in time to implement relief in accordance with this RIP.

Special Types of Telecommunication Service Users

Special types of Telecommunication Service Users (e.g., 9-1-1 Public Safety Answering Points (PSAPs), alarm companies, lifeline service providers, internet service providers, paging companies, owners of customer premises equipment requiring modification, unified messaging service companies, governments, apartment building owners, hydro meter readers) must take appropriate measures to ensure that their services continue to function properly. All special types of Telecommunication Service Users are requested to co-ordinate their equipment and system modifications with their TSPs to implement the new overlay NPA. This is necessary to ensure a smooth and timely transition to 10-digit local dialling in the affected NPAs.

Alarm Service Providers

It is critically important that alarm service providers make the necessary modifications to their systems, databases and terminal equipment after Bell Aliant has implemented permissive 10-digit dialling and prior to the 7- to10-Digit Dialling Transition Period start date in order to ensure continuity of service.

9-1-1 PSAPs

9-1-1 PSAPs must make any required changes to their systems and databases to accommodate the new overlay NPA and 10-digit local dialling. Individual 9-1-1 PSAP system operators shall identify specific problems or concerns to the Commission or Commission staff, as appropriate. It is critically important that 9-1-1 PSAPs make the required or necessary modifications to their systems, databases and terminal equipment after Bell Aliant has implemented permissive 10-digit dialling and prior to the 7- to10-Digit Dialling Transition Period start date in order to implement the new overlay NPA and ensure continuity of service.

Directories

All Directory Service Providers are required to comply with the requirements contained in this RIP and Commission Decisions.

It is the responsibility of Directory Service Providers to make the necessary changes to their systems and directories to facilitate the introduction of the new overlay NPA and 10-digit local dialling. All directory publishers should modify their systems to accept telephone numbers in the 10-digit format.

To facilitate the implementation of 10-digit local dialling, directories published before the Relief Date should identify the NPA associated with the telephone number.

After the implementation of the new overlay NPA, all future directories in the NPA 902 area should identify the NPA associated with the telephone number so that customers can obtain the appropriate 10-digit number.

If Directories in Exchange Areas in NPA 902 have local dialling instructions, they will require modifications to indicate that all local calls must be dialled using the 10-digit telephone number.

6. RECOMMENDATIONS

The RPC submits this RIP to the CISC and the CRTC for approval and recommends that relief be implemented in accordance with the enclosed Relief Implementation Schedule, Consumer Awareness Program (CAP) and Network Implementation Plan (NIP).

Attachments:

- 1) Consumer Awareness Program (CAP)
- 2) Network Implementation Plan (NIP)
- 3) Individual Telecommunications Service Provider Responsibilities

ATTACHMENT 1

Consumer Awareness Program (CAP)

Introduction

The RPC has established a Consumer Awareness Task Force (CATF) to develop and implement this CAP.

This CAP identifies key milestones and establishes completion dates as agreed to by the RPC. It is the responsibility of all Telecommunications Service Providers (TSPs) operating or intending to operate in NPA 902 to file their individual consumer awareness plans with the Commission in accordance with the Relief Implementation Schedule. TSPs must implement those programs in accordance with this industry CAP and submit progress reports to the CATF and RPC for inclusion in the Progress and Final Reports to be filed with the Commission. The Relief Implementation Schedule contains start and end dates for industry consumer awareness activities (see the Relief Implementation Schedule included in this Relief Implementation Plan).

In order to implement the CAP, TSPs may act individually or collectively to accomplish their objectives. However, where TSPs act collectively (e.g., Telecommunications Alliance), such TSPs are individually responsible to report their progress to the CATF and RPC.

All TSPs are required to report any major relief plan concerns as they are identified, along with proposed solutions, and to address consumer concerns reported directly to the Commission.

The RPC requested that the CATF develop a CAP that incorporates the following:

- 1) Develop and agree on a CAP schedule
- 2) Co-ordinate and schedule progress reports with the NITF
- 3) Identify and address CAP issues
- 4) Communications objectives
- 5) Target audiences (e.g., government, media and various business and residence market segments)
- 6) Special types of telecommunications users (e.g., alarm, apartment owners, meter readers, lifeline services)
- 7) NPA-specific communications messages (i.e., in the exhausting NPA as well as affected Exchange Areas in neighbouring NPAs, if any)
- 8) Communications tactics
- 9) Communications theme
- 10) Key messages

Communications Objectives

The Communications Objectives of this CAP are as follows:

- 1) Increase consumer and user awareness of the introduction of the new 782 area code and 10-digit local dialling in the 902 area.

- 2) Advise customers and users of the potential need to reprogram their customer provided equipment and systems prior to the beginning of the 7- to 10-Digit Dialling Transition Period announcement period (see Relief Implementation Schedule for dates) to facilitate the transition to 10-digit local dialling.
- 3) Encourage callers to adopt 10-digit dialling for all local calls originating within area code 902 and the new 782 area code in accordance with the timeframe in the Relief Implementation Schedule.
- 4) Provide open communication channels to address questions and concerns from residents and businesses regarding the implementation of 10-digit local dialling and the new area code.
- 5) Continue to lay the foundation for seamless addition of new area codes in the future through successful transition to 10-digit local dialling.

Communications Tactics

TSPs should consider using the following tactics to accomplish their individual consumer awareness program activities. TSPs may opt to implement some or all of these tactics on their own or as part of an association with other TSPs. In the event that an association of TSPs is formed to coordinate consumer awareness activities, all TSPs operating in the affected NPAs are strongly encouraged to participate in the association activities.

Government Relations

TSPs should ensure that governmental authorities in the affected NPAs are informed of the relief plan (federal, provincial and municipal governments, government offices, and elected representatives).

Media Relations

To introduce and raise awareness of the new NPA and 10-digit local dialling, TSPs should conduct an ongoing media relations campaign targeting key media (including local newspapers, broadcast media, and community publications) in the exhausting NPA. TSPs should offer spokespersons for interviews that focus on how residents and businesses can prepare for the transition and to encourage them to start getting ready now.

TSPs should determine newsworthy announcements and issue press releases accordingly. The press release program will serve to update local media on the progress of 10-digit local dialling and the introduction of the new NPA.

When required, TSPs should issue a series of media alerts and public service announcements to local radio and broadcast stations to provide updated information on 10-digit local dialling.

Each TSP shall provide the news media and general public with basic information about the introduction of 10-digit local dialling, the new NPA, and Commission decisions and regulations. Each TSP should identify its own spokesperson to speak on its behalf to the media. Individual TSPs may form alliances with other TSPs for media relations purposes and such an alliance may also have its own spokesperson.

The Canadian Numbering Administration (CNA), in its role as the Chair of the RPC, shall act as a spokesperson for the RPC.

Telecommunications Service Providers' Web Sites

TSPs should provide up-to-date information about the implementation of 10-digit local dialling in the exhausting NPA and the introduction of the new NPA on their Internet web sites.

Customer Bill Inserts & Messages

TSPs should print information on customer bills and/or distribute bill inserts to their customers advising them of the key dates for the implementation of 10-digit local dialling, the new NPA, and associated changes required to customer equipment and systems.

Advertising Campaign

TSPs should implement their own individual media advertising as necessary and voluntarily participate in a media advertising campaign coordinated with other TSPs' activities to increase awareness amongst consumers in the affected NPAs. All media advertising campaigns, whether conducted individually or collectively, should meet the objective of providing clear and consistent messages to consumers and users as established in this CAP.

Targeted Customer Communications

TSPs should identify and communicate directly with their customers who will be required to make major changes to their telecommunications equipment and systems to accommodate 10-digit local dialling and the new NPA. Targeted communications identifying the changes required should be sent to those customers well in advance of the start date for the 7- to 10-Digit Dialling Transition Period network announcements in order to provide those customers with sufficient time to make the necessary changes. Such targeted customers may include 9-1-1 Public Safety Answering Points (PSAPs), alarm companies, Internet Service Providers, paging companies, unified messaging service companies, apartment building owners, and hydro meter readers.

Other Means of Customer Communications

TSPs should use other means (e.g., customer messaging, direct customer contacts, Interactive Voice Response, etc.), as required, to reach their customers and provide appropriate information about the implementation of 10-digit local dialling and the new NPA.

Communications Themes and Key Messages:

The proposed theme for the CAP should be:

“A new area code is being added to the 902 area. Add-the-code and dial 10-digits for all local calls originating within area code 902 and the new area code 782.”

This theme should be reinforced with more detailed key messages in customer awareness activities:

- 1) To meet the growing demand for telecommunications services and numbers, new area code 782 will be gradually introduced in the 902 geographic area starting on **30 November 2014**. The new area code will co-exist within the same geographic region as area code 902. There will be no change to customers' existing 902 telephone numbers.
- 2) Adding a new area code to a calling region requires changes in local dialing. Starting **23 August 2014**, 10-digit dialling will be required for all local calls originating from the area code 902 and the new area code 782.
- 3) In order to prepare for this change, consumers and businesses will be required to reprogram their telephone functions, mobile phones, fax machines, modems, lifeline equipment and other communications equipment by adding their area code to all programmed numbers.
- 4) Customers may begin reprogramming their telecommunications equipment starting now. They should have it completed by **23 August 2014** when 7- to 10-Digit Dialling Transition network announcements will begin for local calls dialled using 7 digits originating within area code 902.
- 5) Special types of telecommunications service users with large volumes of reprogramming should contact their Telecommunications Service Provider to determine the date that they can start reprogramming their equipment.
- 6) Starting **23 August 2014**, local calls originating within area code 902 that are dialled using only 7 digits will generally receive a recorded announcement reminding callers to dial local calls using 10 digits consisting of the 3-digit area code and 7-digit telephone number. Calls will then be automatically completed. The recorded messages may prevent local data calls dialled using only 7 digits from being completed.
- 7) Starting **16 November 2014**, all local calls originating within area code 902 must be dialled using 10 digits consisting of the 3-digit area code and 7-digit telephone number. Local calls dialled using only 7 digits will be routed to a recorded announcement advising callers to dial local calls using 10 digits and the call will not be completed.
- 8) Local and long distance calling areas and prices will not change with the adoption of 10-digit dialling on local calls originating within area code 902.

Customers with telephone numbers in the new area code will get the same calling areas and prices as customers in the same Exchange Areas with telephone numbers in area code 902.

- 9) N11 service access codes such as emergency calls (911), directory assistance (411), repair (611) and relay service (711) will continue to be dialled using 3-digits.

Consumer Awareness Program Timeline

All TSPs who have or plan to have customers in the affected NPAs must implement their own consumer awareness program activities in accordance with this CAP and associated dates contained in the Relief Implementation Schedule.

It is the responsibility of each TSP to submit its individual consumer awareness program to the Commission and to provide progress reports to the CATF on its own consumer awareness program activities so that the CATF can submit its required Progress Reports. In the event that a TSP does not submit its individual progress report to the CATF, the CATF will note this discrepancy in its progress report.

ATTACHMENT 2

Network Implementation Plan (NIP)

Introduction

The Canadian NPA Relief Planning Guideline requires the RPC to create a Network Implementation Task Force (NITF) with a mandate to develop a Network Implementation Plan (NIP) for implementing relief and to submit such NIP to the CISC.

Accordingly, the RPC has established a Network Implementation Task Force (NITF) to develop and implement this NIP.

This NIP addresses the introduction of 10-digit local dialling in NPA 902 as well as the introduction of new NPA 782 in the NPA 902 area.

The NIP identifies key milestones and establishes completion dates as agreed to by the RPC. It is the responsibility of all Telecommunications Service Providers (TSPs) operating or intending to operate in the area served by NPA 902 to file their individual network implementation plans with the Commission in accordance with the Relief Implementation Schedule. TSPs must implement those programs in accordance with this industry NIP and submit progress reports to the NITF and RPC for inclusion in the Progress and Final Reports to be filed by the RPC with the Commission.

All TSPs are required to report any major relief plan concerns as they are identified, along with proposed solutions, and to address consumer concerns reported directly to the Commission.

The RPC requested that the NITF develop a NIP in accordance the Canadian NPA Relief Planning Guideline that incorporates the following:

- 1) Develop and agree on a NIP schedule
- 2) Co-ordinate and schedule progress reports with the CATF
- 3) Identify and address NIP issues
- 4) Network implementation objectives
- 5) Co-ordinate equipment modifications with special types of telecommunications users (e.g., alarm companies, apartment building owners, meter readers, lifeline services)
- 6) Network changes
- 7) Intercarrier network and technical interfaces (e.g., test plan and test numbers, 9-1-1 impacts if any)
- 8) Develop standard network switch announcements, if recommended, to be reviewed with the CATF (e.g., 7- to 10-Digit Dialling Transition Period announcement and mandatory dialling announcement) for all Exchange Areas and NPAs affected by the Decision
- 9) Recommend phase-in and phase-out periods for standard network announcements (if applicable)
- 10) Recommend mandatory 10-digit local dialling date
- 11) Recommend earliest effective date for activation of new CO Codes in the new NPA

Where network announcements are recommended or utilized, to facilitate troubleshooting (e.g. in cases where a call receives more than one transition announcement before completing) it is recommended that the name of the Carrier providing the announcement should be included at the end of the announcement.

Network Implementation Objectives

The objectives of this NIP are as follows:

- 1) Implement the standard network announcements for the 7- to 10-Digit Dialling Transition Period and for mandatory 10-digit local dialling in accordance with the CRTC Decision, RIP and Relief Implementation Schedule.
- 2) Make all network and interconnection modifications to implement 10-digit dialling for all local calls originating within NPA 902.
- 3) Implement all necessary network modifications for the introduction of new NPA Code 782 in the NPA 902 area.
- 4) Lay the foundation for seamless addition of new NPAs in the future through successful transition to local 10-digit dialling.

TSP Coordination with Special Types of Telecommunications Users

All TSPs are requested to co-ordinate their network and service modifications with special types of telecommunications users (e.g., 9-1-1 Public Safety Answering Points (PSAPs), alarm companies, lifeline services, internet service providers, paging companies, owners of Customer Premises Equipment, unified messaging service companies, governments, apartment building owners, meter readers). This is necessary in order to ensure a smooth and timely transition to 10-digit local dialling in the affected NPAs, and the introduction of the new NPA.

Test Codes, Numbers & Plans

All TSPs are required to modify their networks, systems, databases, and operator services and directory assistance databases, to accommodate 10-digit local dialling and the new NPA as per the Relief Implementation Schedule.

Test plans, if required, should be arranged on a bilateral basis between interconnecting TSPs in accordance with bilateral agreements.

In preparation for the start of inter-carrier testing, all TSPs are expected to complete modifications to their networks, systems, databases, and Operator Services and Directory Assistance databases, as necessary and per the Relief Implementation Schedule to facilitate inter-carrier testing.

Test numbers in the new NPA will permit all carriers and other entities to test their equipment and ensure that the proper network changes have been made to route calls to each carrier operating in the new NPA. The test numbers shall permit TSPs and users to test their equipment both with and without having to incur toll charges.

Each Carrier may establish two test numbers in a test CO Code (NXX) for the new NPA to facilitate testing of network and billing system functionality. Routing of calls to the new NPA can be verified by dialling the new NPA-NXX-8378 (TEST) numbers which shall not

provide answer supervision and therefore shall not result in a billed call to the “calling” party. Billing of calls to the new NPA can be verified by dialling the new NPA-NXX-2455 (BILL) numbers which shall provide answer supervision and therefore shall result in a billed call to the “originating” network.

The following carriers have agreed to provide test numbers in the new NPA as follows:

- Bell Aliant
- Eastlink
- TELUS
- Others to be determined

Other carriers may request and receive test CO Codes and numbers for publication in the Test Plan, in accordance with the timeframe contained in the Relief Implementation Schedule.

The test numbers must be activated in all networks by the date in the Relief Implementation Schedule and remain active until at least one month after the Relief Date.

The test CO Codes used for the test numbers must be returned to the CNA in accordance with the Relief Implementation Schedule. The CNA shall initiate CO Code reclamation in accordance with the Canadian Central Office (NXX) Code Assignment Guideline for all CO Codes allocated for testing purposes in the event that such CO Codes are not returned by the above carriers to the CNA in accordance with the Relief Implementation Schedule.

The standard network announcements for the test numbers must be as follows:

"You have successfully completed a call to the 782 Area Code Billing Test Number at [CARRIER NAME] in Nova Scotia/Prince Edward Island, Canada."

and

"You have successfully completed a call to the 782 Area Code Routing Test Number at [CARRIER NAME] in Nova Scotia/Prince Edward Island, Canada."

In accordance with the Canadian Central Office Code (NXX) Assignment Guideline, TSPs may request other test CO Codes in the new NPA for test purposes within their own networks during the relief implementation timeframe.

Mandatory 10-Digit Local Dialling Start Date

The mandatory 10-digit local dialling start date is **16 November 2014**.

All TSPs must phase-in the mandatory 10-digit dialling announcement over a 7 calendar day period commencing on the mandatory 10-digit dialling start date of

16 November 2014 (which is coincident with the phase-out of the 7- to 10-Digit Dialling Transition Period announcement) and ending on **23 November 2014**.

Date for CO Code Activation in the New NPA (Relief Date)

The Effective Date for the introduction of the new NPA is **30 November 2014**, which is the earliest date that a CO Code from the new NPA can be activated in the PSTN. This date is the Relief Date. The new area code will co-exist within the same geographic region as area code 902. There will be no change to customers' existing 902 telephone numbers.

The 7 calendar day delay between the end of the phase-in of the 10-digit mandatory dialling announcement and the Relief Date (i.e., from **23 November 2014** to **30 November 2014**) is necessary to address any network routing, dialling or other issues that may arise.

7- to 10-Digit Local Dialling Transition Period

The start date for the 7- to 10-Digit Dialling Transition Period network announcements is **23 August 2014**.

TSPs are permitted to phase-in the 7- to 10-Digit Dialling Transition Period network announcement over a 7 calendar day period commencing on the start date for the 7- to 10-Digit Dialling Transition Period (i.e., from **23 August 2014** to **30 August 2014**).

Based on the CRTC's determinations in Telecom Regulatory Policy CRTC 2009-156, section 13, regarding dialling plan changes, the RPC notes that the Commission has retained the general obligation for all relevant Telecommunications Service Providers (TSPs) to inform all customers about dialling plan changes but that TSPs may determine the appropriate methods to inform their customers. In situations where TSPs have network limitations in providing recorded announcements with call completion, and the provision of such announcements and call completion would be prohibitively expensive (e.g., for companies in small and/or remote locations served by legacy technology), such TSPs may determine the appropriate methods for informing their customers (e.g., bill messages and inserts, customer letters, e-mail messages, media advertising, web sites, etc.).

7- to 10-Digit Local Dialling Transition Period Announcement

The RPC recommends the use of the following standard network announcement text by all TSPs.

"The local number you have dialled must be preceded by its area code.
Your call will now proceed."

Commencing on the start date for the permissive dialling period, each TSP must implement its own network announcements where necessary for all 7-digit dialled calls originated by its own customers on its network.

All TSPs are expected to provision appropriate capacity on their network announcement systems to provide these announcements for a reasonable quantity of call traffic. This is

necessary in order to provide callers with appropriate instruction about the new dial plan and to ensure a smooth transition to mandatory 10-digit local dialling prior to the introduction of the new NPA. However, it is recognized that in peak calling periods the quantity of calls dialled using 7 digits may exceed the network announcement capacity available. In such circumstances, TSPs should process excess peak period calls without the 7- to 10-digit dialling announcements in order to protect the network and ensure customers are not adversely affected.

Equipment used by local exchange carriers to provide service in some exchanges, typically those serving small communities, is generally able to provide both 7- and 10-digit local dialling (10-digit permissive dialling), and can route calls to a network announcement, e.g. when 10-digit dialling is mandatory, or an NPA has changed; however, such equipment may not be able to connect a call following a network announcement (i.e., cut-through), as is usually required during transition to 10-digit local dialling. Investments that would be required to upgrade or replace network elements to provide transition announcements in some communities could be significant relative to their size, and such investments would provide a capability that would only be used for a short time, i.e. during the dialling transition period.

Carriers seeking relief from providing network announcements may implement alternate communications to inform their customers of the 10-digit dialling requirement (e.g., network announcements on 7-digit dialled calls, bill messages and inserts, customer letters, e-mail messages, media advertising, web sites, etc.).

9-1-1 Service

The introduction of 10-digit local dialling is not expected to have any impact on the dialling of the 9-1-1 abbreviated dialling number nor the routing of emergency calls to the appropriate Public Service Answering Point (PSAP).

The introduction of the new NPA may have an impact on 9-1-1 service, trunking and systems.

TSPs who intend to provide service using CO Codes in the new NPA or to port numbers into their switch from the new NPA, shall establish 9-1-1 trunking and associated interconnection arrangements as per existing interconnection agreements. TSPs that provide 9-1-1 networking services to any PSAP shall establish 9-1-1 trunking and associated interconnection arrangements as per existing interconnection agreements. These arrangements shall be made prior to the Relief Date upon request of TSPs, and provided that these arrangements are in accordance with the timelines, terms and conditions set out in existing interconnection agreements.

The existing procedure for implementing new TSP trunk groups for 9-1-1 traffic should be used, such as testing with other TSPs' 9-1-1 Control Centers. All TSP related changes that impact 9-1-1 must be completed in accordance with the Relief Implementation Schedule.

Payphone Service Providers

It is the responsibility of each Payphone Service Provider to update any system associated with the operation of their payphones in order to accommodate the new NPA

and mandatory local 10-digit dialling. As well, each Payphone Service Provider must update any written instructions affixed to their payphones to advise customers that 10-digit dialling is required for local calls.

The RPC recommended that Commission staff notify Payphone Service Providers of the implementation of relief for this NPA, the new overlay NPA, and 10-digit local dialling.

International Gateway Service Providers

International Gateway Service Providers are responsible to implement changes to their network in order to accommodate the new NPA.

The RPC recommended that Commission staff notify Canadian International Gateway Service Providers of the implementation of the new NPA.

Intra Carrier Network and Customer Interface

All TSPs must make and test the necessary internal system, network and customer interface changes as per the Relief Implementation Schedule in order to accommodate 10-digit local dialling and the introduction of the new NPA.

All TSPs are required to implement the necessary network changes to route traffic to/from the new NPA. Switch translations must be updated and modified in all TSPs' networks in order to process calls to/from the new NPA.

By the start of the inter-carrier testing period, Carriers must use 10-digit signalling for all local traffic they send to other Carriers, and must be able to receive 10-digit signalling on local traffic they receive from other carriers. In the event that Carriers have network equipment limitations that cannot accommodate 10-digit signalling, alternative arrangements may be negotiated with interconnecting carriers to route calls using only 7-digit signalling, where feasible.

Each TSP is responsible for determining the impact of 10-digit local dialling and the new NPA on its network, systems and operations including the products and services it provides to its own customers. Each TSP is responsible for making all necessary modifications to ensure service will be maintained during and after the relief implementation period for its own customers. Furthermore, TSPs shall notify all of their customers of the introduction of the new NPA and 10-digit local dialling in accordance with the Consumer Awareness Program (CAP) (see Attachment 1 to the Relief Implementation Plan).

Standard Network Switch Announcements

All carriers should try to implement the following standard network announcements, where necessary, in accordance with the dates contained in the Relief Implementation Schedule. Commencing on the mandatory 10-digit local dialling date identified in the Relief Implementation Schedule, TSPs must not complete 7-digit dialled calls to telephone numbers with the exception of numbers in CO Codes approved by the Commission that can be dialled using 7-digits (e.g., 310-XXXX). Appropriate 10-digit routing between networks and network announcements must be implemented by each TSP.

Mandatory 10-Digit Dialling Announcement

The RPC recommends the use of the following standard network announcement text by all TSPs.

"The local number you have dialled must be preceded by its area code. This call cannot be completed as dialled. Please hang up and redial using the area code."

The mandatory 10-digit dialling announcement should be retained on all networks for a minimum period of 3 months per the Relief Implementation Schedule.

After the mandatory 10-digit dialling announcement period ends, each carrier's standard announcement should be used for all calls dialled using 7 digits.

"Your call cannot be completed as dialled. Please check the number and try your call again."

Network Implementation Plan Timeline & Progress Reports

All TSPs who have or plan to have customers in the affected NPAs must implement their own network implementation plan activities in accordance with this NIP and associated dates contained in the Relief Implementation Schedule.

It is the responsibility of each TSP to provide progress reports to the NITF on its own network implementation plan activities so that the NITF can submit its required Progress Reports to the RPC. In the event that a TSP does not submit its individual progress report to the NITF, the NITF will note this discrepancy in its Progress Report. If a TSP does not submit its Progress Report to the NITF, it must submit it directly to the CRTC.

Dial Plan Changes

Currently the dialling for local calls within NPA 902 and across its boundaries is as follows:

- 7-digit dialling for local calls within NPA 902;
- in addition to providing 7-digit dialling for local calls within NPA 902, most TSPs permit 10-digit dialling, or 10- and 11-digit dialling;
- 10-digit local calling between NPA 902 and adjacent Canadian NPA 506 between Amherst, Nova Scotia and Sackville, New Brunswick; and

- no local calling between NPA 902 and other adjacent NPAs.

NPA relief will have the following impacts on dialling for local calls originated in the NPA 902 area:

- All existing 7-digit dialling will be eliminated and 10-digit local dialling will become mandatory.

After NPA relief, dialling for local calls will be as follows:

Type of Relief	Local calls originating in NPA 902 and new NPA			Local calls between NPA 506 (Sackville) and NPA 902 &/or new NPA (Amherst)
	Within NPA 902	Within new NPA	Between NPA 902 and new NPA	
Overlay	7-digit dialling eliminated and mandatory 10-digit dialling introduced In Relief Option 7, Prince Edward Island customers may be able to retain 7-digit local dialling.			Mandatory 10-digit dialling already exists

Long distance dialling will continue to be 1+10 digits. No local calling will become long-distance, and no long-distance calling will become local as a result of NPA relief.

ATTACHMENT 3

Individual Telecommunications Service Provider Responsibilities

Each Telecommunications Service Provider (TSP) is responsible to make the necessary changes in their information and operation support systems as well as for the operation, maintenance, control, and administration of its network and to serve its customers. Accordingly, no activities have been identified in the Relief Implementation Plan (RIP) for the coordination of these functions between different TSPs. Such "internal" systems include, but are not limited to, the following functions:

- Operations Support
- Products & Services
- Marketing & Sales
- Carrier Services
- Network Planning & Provisioning
- Network Operations
- Service Assurance
- Billing
- Financial Systems
- Customer Care & Customer Services (e.g., Business Offices)
- Operator Services
- Directories
- Direct Marketing Centers
- Quality Control
- Service Provisioning & Activation
- Repair Services
- Human Resources/Logistics
- Corporate Information Databases
- Customer Provided Equipment Reprogramming, Upgrades and Testing