

**Report for April 2008 J-NRUF – NPA 403, 418 & 780  
to the  
Canadian Steering Committee on Numbering (CSCN)**

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## **1. Purpose of NPA 403, 418 & 780 J-NRUF**

Section 8.1 of the Canadian NPA Relief Planning Guidelines states that the Canadian Numbering Administrator (CNA) will declare a Jeopardy Condition in one of the following two situations:

- a) where the Canadian Radio-television and Telecommunications Commission (CRTC) has not yet established a Relief Method and Date and the CNA projects an NPA will exhaust within 36 months; or,
- b) where the CRTC has established a Relief Method and Date and the CNA projects an NPA will exhaust prior to the Relief Date.

As a result of the above provisions the CNA has identified three NPAs that are in a Jeopardy Condition. A Jeopardy Condition was announced by the CNA for NPA 403 on October 26, 2006 based on the results of the July 2006 Relief Planning Numbering Resource Utilization Forecast (R-NRUF). After analysis of the January 2007 R-NRUF results for NPAs 780 and 418, the CNA declared Jeopardy Conditions on March 14 and March 23, 2007, respectively, for these two NPAs as well.

The CNA has prepared this report in accordance with the Canadian Numbering Resource Utilization Forecast Guideline (C-NRUF) (the Guideline) approved by the CRTC on 12 July 2004 in Telecom Decision CRTC 2004-45.

## **2. High Level Summary**

Telecommunications Service Providers (TSPs) continue to revise their forecasts based on the most recent marketing plans. The CNA has verified the input from various TSPs and the variance from previous inputs can be rationalized.

- The NPA 403 Projected Exhaust Date is now forecast for October 2008, which moves the Projected Exhaust Date in by three months from the January 2008 J-NRUF result of January 2009.
- The NPA 418 Projected Exhaust Date is now forecast for October 2008, which moves the Projected Exhaust Date in by one month from the January 2008 J-NRUF result of November 2008.
- The NPA 780 Projected Exhaust Date is now forecast for February 2009, which moves the Projected Exhaust Date in by one month from the January 2008 J-NRUF result of March 2009.

NPA 403 April 2008 <b>J-NRUF</b> Results													
Actual		Forecast											
Total quantity of existing CO Codes assigned & reserved as of		Total quantity of existing and future CO Codes forecast to be assigned and reserved plus unassignable CO Codes as of											
2008-01-01	2008-04-01	2008-05-01	2008-06-01	2008-07-01	2008-08-01	2008-09-01	2008-10-01	2009-01-01	2010-01-01	2011-01-01	2012-01-01	2013-01-01	2014-01-01
708	718	730	733	735	752	785	798	818	836	854	884	903	926
Projected Exhaust Date							Oct-08		In Jeopardy				

Projected Exhaust Date: October 2008

### Summary of Projected Exhaust Dates

NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
403	G – NRUF	15 April 2004	September 2009
403	R – NRUF	27 August 2004	October 2009
403	R – NRUF	14 April 2005	September 2011
403	R – NRUF	5 October 2005	July 2011
403	R – NRUF	7 April 2006	March 2011
403	R – NRUF	22 September 2006	October 2009
403	J – NRUF	14 March 2007	March 2009
403	J – NRUF	25 May 2007	December 2008
403	J – NRUF	31 August 2007	September 2008
403	J – NRUF	3 December 2007	December 2008
403	J – NRUF	25 March 2008	January 2009
403	J – NRUF	29 May 2008	October 2008

<b>NPA 418 April 2008 J-NRUF Results</b>													
<b>Actual</b>		<b>Forecast</b>											
<b>Total quantity of existing CO Codes assigned &amp; reserved as of</b>		<b>Total quantity of existing and future CO Codes forecast to be assigned and reserved plus unassignable CO Codes as of</b>											
<b>2008-01-01</b>	<b>2008-04-01</b>	<b>2008-05-01</b>	<b>2008-06-01</b>	<b>2008-07-01</b>	<b>2008-08-01</b>	<b>2008-09-01</b>	<b>2008-10-01</b>	<b>2009-01-01</b>	<b>2010-01-01</b>	<b>2011-01-01</b>	<b>2012-01-01</b>	<b>2013-01-01</b>	<b>2014-01-01</b>
<b>758</b>	<b>756</b>	<b>758</b>	<b>758</b>	<b>764</b>	<b>776</b>	<b>788</b>	<b>798</b>	<b>830</b>	<b>856</b>	<b>870</b>	<b>911</b>	<b>917</b>	<b>922</b>
<b>Projected Exhaust Date</b>							<b>Oct-08</b>		<b>In Jeopardy</b>				

Projected Exhaust Date: October 2008

**Summary of Projected Exhaust Dates**

<b>NPA</b>	<b>Type of C-NRUF</b>	<b>Date of Publication</b>	<b>Projected Exhaust Date</b>
418	G – NRUF	7 April 2006	December 2013
418	S – NRUF (WNP)	9 November 2006	March 2012
418	R – NRUF	23 March 2007	October 2008
418	J – NRUF	25 May 2007	October 2008
418	J – NRUF	31 August 2007	September 2008
418	J – NRUF	3 December 2007	August 2008
418	J – NRUF	25 March 2008	November 2008
418	J – NRUF	29 May 2008	October 2008

NPA 780 April 2008 J-NRUF Results									
Actual		Forecast							
Total quantity of existing CO Codes assigned & reserved as of		Total quantity of existing and future CO Codes forecast to be assigned and reserved plus unassignable CO Codes as of							
2008-01-01	2008-04-01	2008-07-01	2008-10-01	2009-01-01	2010-01-01	2011-01-01	2012-01-01	2013-01-01	2014-01-01
703	712	729	746	792	833	855	872	892	901
Projected Exhaust Date				Feb-09		In Jeopardy			

Projected Exhaust Date: February 2009

### Summary of Projected Exhaust Dates

NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
780	G – NRUF	14 April 2004	November 2011
780	R – NRUF	1 September 2004	January 2012
780	R – NRUF	14 April 2005	January 2015
780	R – NRUF	5 October 2005	January 2014
780	R – NRUF	7 April 2006	February 2013
780	R – NRUF	22 September 2006	November 2010
780	S – NRUF (WNP)	9 November 2006	November 2010
780	R – NRUF	23 March 2007	October 2009
780	J – NRUF	25 May 2007	November 2009
780	J – NRUF	31 August 2007	August 2009
780	J – NRUF	3 December 2007	November 2008
780	J – NRUF	25 March 2008	March 2009
780	J – NRUF	29 May 2008	February 2009

### 3. Schedule of Future NRUF Activities This Year

Due Date	NRUF Type	NRUF Format	NPAs
30 July 2008	J – NRUF	Format 3 – proposed by CNA	403, 418 & 780

### 4. J-NRUF Assumptions

The assumptions used for the April 2008 J-NRUF for NPAs 403, 418 and 780 are the assumptions that were provided on 23 October 2007 to the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the 2008 G-NRUF.

## **5. Conclusion**

In accordance with the Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the April 2008 J-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 403, 418 and 780 are realistic.

The CNA notes that the Canadian telecommunications environment continues to go through a period of significant change due to competition in local exchange and wireless markets, as well as the introduction of wireless number portability. The assignment of CO Codes to Competitive Local Exchange Carriers (CLECs) in Local Interconnection Regions (LIRs) continues to elevate demand for CO Codes in relatively sparsely populated areas. Due to these factors, there is some latitude for determining what is reasonable and realistic. It should also be noted that the impact of Industry Canada's spectrum auction has only been partially included in the projected demand since most of the potential bidders have not submitted a J-NRUF. Additionally, the effect of the new spectrum will not be experienced until 2009 and later.

Accordingly, based on this assessment, in the CNA's opinion, the April 2008 J-NRUF results appear as reasonable as possible. The Projected Exhaust Dates for NPAs 403, 418 and 780 are generally realistic based on the information provided by those TSPs that submitted data.

### NPA 403 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 403 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 403 assigned and in-service as at 2008-06-13. It identifies 42 CO Codes that are unassignable prior to a Jeopardy Condition, 19 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.

<b>A</b>	Total CO Codes In an NPA (NXX format)	<b>800</b>
<b>B</b>	<b>CO Codes unassignable prior to a Jeopardy Condition:</b>	
	N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911)	8
	Special Use Codes (555, 950 & 976)	3
	Protected Codes	0
	Home NPA(s) (403 & 587)	2
	Current Neighbouring NPAs (780 - see Note 1 for others)	1
	Future Canadian Geographic NPAs (see Note 2)	18
	Plant Test Codes (958 & 959)	2
	Special 7-digit Dialling Codes (610 & 810)	2
	911 Misdial Codes (914 & 915)	2
	CO Codes set aside for assignment to Future New Entrants after Relief	4
	Subtotal	<b>42</b>
<b>C</b>	Assignable CO Codes prior to Jeopardy (C=A-B)	<b>758</b>
<b>D</b>	<b>CO Codes unassignable prior to Jeopardy that become assignable in a Jeopardy Condition:</b>	
	Future Canadian Geographic NPAs - assign 354, 365, 367, 428, 437, 460, 468, 474, 487, 584, 639, 672, 683, 753, 871, 879 & 942; do not assign 825 (recommended future AB NPA)	17
	911 Misdial Codes (914 & 915)	2
	Current neighbouring US NPA 406 is available outside Coutts EAS Exchange Areas in NPA 403	0
	Subtotal	<b>19</b>
<b>E</b>	Assignable CO Codes in a Jeopardy Condition (E=C+D)	<b>777</b>
<b>F</b>	Assigned – being recovered CO Codes as of 2008-06-13	<b>704</b>
<b>G</b>	<b>Net CO Codes available for assignment as of 2008-06-13 without Jeopardy Condition (G=C-F)</b>	<b>54</b>
<b>H</b>	<b>Net CO Codes available for assignment as of 2008-06-13 in a Jeopardy Condition (H=E-F)</b>	<b>73</b>

Note 1: Current neighbouring Canadian NPAs other than 780 are already assigned as CO Codes in NPA 403 (i.e. NPAs 250 & 306); current neighbouring US NPA 406 is available outside Coutts EAS Exchange Areas in NPA 403.

Note 2: 18 out of a total 35 Future Canadian Geographic NPAs are already assigned as CO Codes in NPA 403.

### NPA 418 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 418 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 418 assigned and in-service as at 2008-06-13. It identifies 36 CO Codes that are unassignable prior to a Jeopardy Condition, 16 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.

<b>A</b>	Total CO Codes In an NPA (NXX format)	<b>800</b>
<b>B</b>	<b>CO Codes unassignable prior to a Jeopardy Condition:</b>	
	N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911)	8
	Special Use Codes (555, 950 & 976)	2
	Protected Codes	0
	Home NPA(s) (418 & 581)	2
	Current Neighbouring NPAs (506, 709, 819)	3
	Future Canadian Geographic NPAs (see Note 1)	11
	Plant Test Codes (958 & 959)	2
	Special 7-digit Dialling Codes (610 & 810)	2
	911 Misdial Codes (912, 914 & 915)	3
	CO Codes set aside for assignment to Future New Entrants after Relief	3
	Subtotal	<b>36</b>
<b>C</b>	Assignable CO Codes prior to Jeopardy (C=A-B)	<b>764</b>
<b>D</b>	<b>CO Codes unassignable prior to Jeopardy that become assignable in a Jeopardy Condition:</b>	
	Future Canadian Geographic NPAs - assign 273, 367, 437, 460, 468, 474, 537, 579, 753, 942; do not assign 431 (potential future NF NPA)	10
	911 Misdial Codes (912, 914 & 915)	3
	Current Neighbouring NPAs (assign 506 in NPA 418 north of St Lawrence only, 709 in western portion of NPA 418 only, and 819 in eastern portion only)	3
	Subtotal	<b>16</b>
<b>E</b>	Assignable CO Codes in a Jeopardy Condition (E=C+D)	<b>780</b>
<b>F</b>	Assigned – being recovered CO Codes as of 2008-06-13	<b>738</b>
<b>G</b>	<b>Net CO Codes available for assignment as of 2008-06-13 without Jeopardy Condition (G=C-F)</b>	<b>26</b>
<b>H</b>	<b>Net CO Codes available for assignment as of 2008-06-13 in a Jeopardy Condition (H=E-F)</b>	<b>42</b>

Note 1: 25 out of a total 35 Future Canadian Geographic NPAs are already assigned as CO Codes in NPA 418.

**NPA 780 CO Code Inventory Chart**

The following chart and the instructions it contains will apply in NPA 780 in a Jeopardy Condition.

The following chart 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 780 assigned and in-service as at 2008-06-13. It identifies 40 CO Codes that are unassignable prior to a Jeopardy Condition, 13 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.

<b>A</b>	Total CO Codes In an NPA (NXX format)	<b>800</b>
<b>B</b>	<b>CO Codes unassignable prior to a Jeopardy Condition:</b>	
	N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911)	8
	Special Use Codes (555, 950 & 976)	3
	Protected Codes	0
	Home NPA(s) (587 & 780)	2
	Current Neighbouring NPA (250, 403, 306 & 867)	4
	Future Canadian Geographic NPAs (see Note 1)	14
	Plant Test Codes (958 & 959)	2
	Special 7-digit Dialling Codes (610 & 810)	2
	911 Misdial Codes (912)	1
	CO Codes set aside for assignment to Future New Entrants after Relief	4
	Subtotal	<b>40</b>
<b>C</b>	Assignable CO Codes prior to Jeopardy (C=A-B)	<b>760</b>
<b>D</b>	<b>CO Codes unassignable prior to Jeopardy that become assignable in a Jeopardy Condition:</b>	
	Future Canadian Geographic NPAs - assign 249, 257, 263, 273, 343, 368, 382, 537, 548, 579, 851, & 873; do not assign 236 (recommended future BC NPA) or 825 (recommended future AB NPA)	12
	911 Misdial Codes (912)	1
	Current Neighbouring NPAs	0
	Subtotal	<b>13</b>
<b>E</b>	Assignable CO Codes in a Jeopardy Condition (E=C+D)	<b>773</b>
<b>F</b>	Assigned CO Codes as of 2008-06-13	<b>692</b>
<b>G</b>	<b>Net CO Codes available for assignment as of 2008-06-13 without Jeopardy Condition (G=C-F)</b>	<b>68</b>
<b>H</b>	<b>Net CO Codes available for assignment as of 2008-06-13 in a Jeopardy Condition (H=E-F)</b>	<b>81</b>

Note 1: 22 out of a total 35 Future Canadian Geographic NPAs are already assigned as CO Codes in NPA 780