

**Report for July 2010 J-NRUF – NPAs 204 & 705  
to the  
Canadian Steering Committee on Numbering (CSCN)**

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## 1. Purpose of the J-NRUF

On December 15, 2009 the CNA requested a Relief Planning Number Resource Utilization Forecast (R-NRUF) from all current and prospective Code Holders in NPA 204. Analysis of those results showed that the Projected Exhaust Date for NPA 204 had moved in by three years and five months to early May 2013, from the July 2009 J-NRUF result of October 2016.

Section 8.1 of the Canadian NPA Relief Planning Guideline 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.

A Jeopardy Condition exists when the forecasted and/or actual demand for CO Codes will exceed the known supply during the planning/ implementation interval for relief before the Relief Plan can be implemented.

At the time the NPA 204 R-NRUF results were released, the May 2013 Projected Exhaust Date was within the 36 month window specified in item a) above and Planning Document had not yet been sent to the CRTC for a Decision on the Relief Method and Relief Date. Consequently, the CNA again declared a Jeopardy Condition for NPA 204.

In Telecom Notice of Consultation CRTC 2009-179, *Establishment of a CISC ad hoc committee for area code relief planning for area code 705 in Northern Ontario*, issued by the Commission on 6 April 2009, paragraph 7 stated: "In developing its recommendations, the 705 RPC is directed to set aside, at a minimum, 7 central office codes for initial code assignments and 10 central office codes for initial code assignments for new entrants only."

The CNA immediately set aside 17 CO Codes in accordance with the Telecom Notice of Consultation.

On May 13, 2009, after analysis of the Revised 2009 General Numbering Resource Utilization Forecast (G-NRUF) for NPA 705, the CNA announced that NPA 705 was in a Jeopardy Condition.

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 March 2010 in Telecom Decision CRTC 2010-152.

## 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 204 Projected Exhaust Date is now forecast for April 2013.
- The NPA 705 Projected Exhaust Date is now forecast for February 2012.

NPA 204 July 30, 2010 J-NRUF Results														
Actual		Forecast												
Total quantity of existing CO Codes assigned & reserved plus unassignable CO Codes as of		Total quantity of existing CO Codes assigned & reserved plus unassignable CO Codes as of												
		2010-01-01	2010-07-01	2010-10-01	2011-01-01	2011-04-01	2011-07-01	2011-10-01	2012-01-01	2012-04-01	2012-07-01	2012-10-01	2013-01-01	2014-01-01
644	688	700	714	728	733	739	762	764	770	782	791	883	918	945
Projected Exhaust Date				April 2013										
<p><b>NPA 204 is in Jeopardy Condition.</b>  <b>Note - Telecom Decision CRTC 2010-526</b></p>														
<p><b>New Overlay NPA 431 In-service 3 November 2012.</b></p>														

### Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 204 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 204 would be expected to exhaust.

NRUF	Projected Exhaust Date
G-NRUF January 2008	December 2021
G-NRUF January 2009	September 2010
J-NRUF April 2009	January 2011
J-NRUF April 2009 adjusted by CNA for code rationing per CRTC TNC 2009-309 (28 May 2009)	March 2015
J-NRUF July 2009 (with code rationing taken into account by TSPs)	October 2016
R-NRUF January 2010 (with code rationing taken into account by TSPs)	May 2013
J-NRUF July 2010 (with code rationing taken into account by TSPs)	April 2013

NPA 705 July 30, 2010 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 & reserved plus unassignable Codes as of:							
2010-01-01	2010-07-01	2010-10-01	2011-01-01	2011-04-01	2012-01-01	2013-01-01	2014-01-01	2015-01-01	2016-01-01
679	688	715	737	763	793	872	908	965	1025
Projected Exhaust Date					February 2012				
<p><b>NPA 705 is in Jeopardy Condition.</b></p> <p>Note - Telecom Notice of Consultation CRTC 2009-179</p> <p>In Calculating the PED the CNA has assumed that the 7 Initial Code become assignable in a Jeopardy Condition</p>									
New Overlay NPA 249 In-service 19 March 2011.									

### Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 705 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in 705 would be expected to exhaust.

Source	Projected Exhaust Date
G-NRUF January 2007	December 2013
R-NRUF July 2007	May 2015
R-NRUF January 2008	September 2014
R-NRUF July 2008	February 2015
R-NRUF January 2009	October 2012
R-NRUF January 2009 updated with Telecom Notice of Consultation CRTC 2009-179 and CRTC Staff Opinion regarding unforecasted demand	June 2012
J-NRUF July 2009	October 2011
J-NRUF October 2009	October 2011
J-NRUF January 2010	October 2011

Source	Projected Exhaust Date
J-NRUF April 2010	October 2011
J-NRUF July 2010	February 2012

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

Due Date	NRUF Type	NRUF Format	NPA's
29 October 2010	J – NRUF	Format 3 – proposed by CNA	204
29 October 2010	J – NRUF	Format 3 – proposed by CNA	705

### 4. J–NRUF Assumptions

The assumptions used for the July 2010 J-NRUF for NPAs 204 and 705 are the assumptions that were provided on 20 October 2009 to the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the January 2010 G-NRUF.

Two Projected Exhaust Dates were calculated using the assumptions shown in the results tables above.

### 5. Conclusion

In accordance with the Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the July 2010 J-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 204 and 705 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.

Based on this assessment, in the CNA's opinion, the July 2010 J-NRUF results appear as reasonable as possible. The Projected Exhaust Dates for NPAs 204 and 705 are generally realistic based on the information provided by those TSPs that submitted data.

**NPA 204 CO Code Inventory Chart**

The following chart and the instructions it contains will apply in NPA 204 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 204 assigned and In-Service as of 13 September 2010. For an Overlay option it identifies 26 CO Codes that are unassignable prior to a Jeopardy Condition, 6 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>Quantity</b>
<b>A</b>	<b>Total CO Codes in an NPA (NXX format)</b>	<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 Code(s)	0
	Home NPA Code (204)	1
	Current Neighbouring NPA Codes (306 and 807 - see Note 1)	2
	Future Canadian Geographic NPA Codes (273, 387, 431, 460, 584, 879) - this quantity reduces to 5 if code 584 is made assignable as recommended in Note 4 (see Notes 2 & 4)	6
	Plant Test Codes (959 – see Note 3)	1
	Special 7-digit Dialling Codes (610 & 810)	2
	911 Misdial Codes (912, 914 & 915)	3
	Subtotal	26
<b>C</b>	<b>CO Codes assignable prior to a Jeopardy Condition (C=A-B)</b>	<b>774</b>
<b>D</b>	<b>CO Codes unassignable prior to a Jeopardy Condition that became assignable in a Jeopardy Condition:</b>	
	Future Canadian Geographic NPA Codes - this quantity reduces to zero if 584 is made assignable prior to Jeopardy as recommended in Note 4	1
	Current Neighbouring NPA Codes (assign CO Code 306, in the Eastern portion of NPA 204 and assign CO Code 807 in the western portion of NPA 204)	2
	911 Misdial Codes (912, 914 & 915)	3
	Subtotal	6
<b>E</b>	<b>Assignable CO Codes in a Jeopardy Condition (E=C+D)</b>	<b>780</b>
<b>F</b>	<b>Assigned CO Codes as of 13 September 2010</b>	<b>657</b>
<b>G</b>	<b>Net CO Codes available for assignment as of 13 September 2010 without a Jeopardy Condition (G=C-F)</b>	<b>117</b>
<b>H</b>	<b>Net CO Codes available for assignment as of 13 September 2010 in a Jeopardy Condition (H=E-F)</b>	<b>123</b>

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### Notes:

1. The CO Code corresponding to neighbouring NPA Code 867 is already assigned in NPA 204.
2. 26 of the CO Codes corresponding to the 32 Future Canadian Geographic NPA Codes are already assigned in NPA 204.
3. CO Code 958, a Plant Test Code in all other Canadian NPAs, was assigned and is in-service in NPA 204.
4. The 6 CO Codes corresponding to the Future Canadian Geographic NPA Codes that are currently unavailable for assignment in NPA 204 are: 273, 387, 431, 460, 584 & 879; one of these cannot become assignable even in a Jeopardy Condition as it would correspond to the new NPA, therefore must remain unassignable as a CO Code. Per the RPC's recommendations that 431 be the relief NPA for NPA 204, and that 273, 387, 460 and 879 remain unassignable as they may be suitable for relief of adjacent NPAs, only CO Code 584 would be available.

**NPA 705 CO Code Inventory Chart**

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 705 assigned and In-Service as of 13 September 2010. It identifies 54 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>Overlay</b>
<b>A</b>	<b>Total CO Codes in an NPA (NXX format)</b>	<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)	2
	Protected Code(s)	0
	Home NPA Code(s) (705, 249)	2
	Current Neighbouring NPA Codes (226, 289, 343, 519, 613, 807, 819, 873, 905)	9
	Future Canadian Geographic NPA Codes (354, 460, 468, 537, 548, 584, 683, 825, 851, 871 - see Note 1)	10
	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 Initial Code assignments after relief via an overlay	7
	CO Codes set aside for Initial Code assignments for New Entrants only after relief via an overlay	10
	Subtotal	<b>54</b>
<b>C</b>	<b>CO Codes assignable prior to a Jeopardy Condition (C=A-B)</b>	<b>746</b>
<b>D</b>	<b>CO Codes unassignable prior to a Jeopardy Condition that became assignable in a Jeopardy Condition:</b>	
	Future Canadian Geographic NPA Codes (Note 2)	9
	Current Neighbouring NPA Codes (Note 3)	0
	911 Misdial Codes (912, 914 & 915)	3
	CO Codes set aside for Initial Code assignments after relief via an overlay	7
	Subtotal	<b>19</b>
<b>E</b>	<b>Assignable CO Codes in a Jeopardy Condition (E=C+D)</b>	<b>765</b>
<b>F</b>	<b>Assigned CO Codes as of 13 September 2010</b>	<b>638</b>
<b>G</b>	<b>Net CO Codes available for assignment as of 13 September 2010 without a Jeopardy Condition (G=C-F)</b>	<b>108</b>
<b>H</b>	<b>Net CO Codes available for assignment as of 13 September 2010 in a Jeopardy Condition (H=E-F)</b>	<b>127</b>

**Notes:**

1. 21 CO Codes corresponding to the 33 Future Canadian Geographic NPA Codes (excluding 579 assigned for future relief of NPA 450) are already assigned in NPA 705, leaving 12 that are unassignable.
2. The following 9 CO Codes corresponding to the Future Canadian Geographic NPA Codes are currently unavailable for assignment in NPA 705: 354, 460, 468, 537, 548, 584, 683, 851 and 871. The following 9 Future Canadian Geographic NPA Codes should be made available for assignment in NPA 705 in a Jeopardy Condition: 468, 354, 460, 537, 548, 584, 683, 851 and 871.
3. In an extreme Jeopardy Condition (i.e., if the Projected Exhaust Date advances such that it occurs before the Relief Date), the 8 CO Codes corresponding to current Neighbouring NPA Codes (226, 289, 343, 519, 613, 807, 819 & 905) may be made assignable in certain portions of NPA 705 with CRTC staff approval.