

**Report for December 2008 J-NRUF – NPA 450
to the
Canadian Steering Committee on Numbering (CSCN)**

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SAIC Canada

Suresh Khare
1516 – 60 Queen St.
Ottawa, ON

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1. Purpose of NPA 450 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.

The July 2008 R-NRUF indicated that the Projected Exhaust Date had moved in to September 2012. Since that time, new R-NRUF forecasts were received from current or prospective CO Code Holders in NPA 450, causing the Projected Exhaust Date to move in further.

On 4 November 2008, the Canadian Radio-television Telecommunications Commission (CRTC) issued Telecom Public Notice CRTC 2008-17, *Establishment of a CISC ad hoc committee for area code relief planning in Quebec area code 450*, in which it established the CISC ad hoc Relief Planning Committee (RPC) for NPA 450. The Public Notice directed the RPC to set aside, at a minimum, 7 CO Codes for initial code assignments and 10 CO Codes for initial code assignments for new entrants only. Subsequent discussions between CRTC staff and the CNA authorized the CNA to retain the 7 CO Codes for initial code assignments in the assignment pool. The CNA then updated the R-NRUF forecast for NPA 450 to include the 10 CO Codes for initial code assignments for new entrants only and the revised R-NRUF forecasts.

The updated November 2008 R-NRUF forecast, in conjunction with Telecom Public Notice CRTC 2008-17 and the CRTC Staff Opinion regarding assignment of the 7 CO Codes set aside for initial code assignments in a Jeopardy Condition, indicated that the Projected Exhaust Date had moved in to December 2010.

As a result of the above provisions on 10 November 2008 the CNA declared that NPA 450 is in 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 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 450 Projected Exhaust Date is now forecast for November 2010.

NPA 450 December 31, 2008 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													
2008-01-01	2008-11-01	2009-01-01	2009-04-01	2009-07-01	2009-10-01	2010-01-01	2010-04-01	2010-07-01	2010-10-01	2011-01-01	2011-04-01	2012-01-01	2013-01-01	2014-01-01	2015-01-01
661	681	699	737	753	756	767	774	778	783	815	819	828	834	847	857
Projected Exhaust Date		November 2010													
<p>NPA 450 is in a Jeopardy Condition.</p> <p>Note - CRTC staff (Bill Mason) advised that the 7 CO Codes set aside for initial code assignments in Telecom Public Notice CRTC 2008-17 become assignable in a Jeopardy Condition.</p> <p>In accordance with the current Guidelines and Telecom Public Notice CRTC 2008-17.</p>															

NPA 450 December 31, 2008 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													
2008-01-01	2008-11-01	2009-01-01	2009-04-01	2009-07-01	2009-10-01	2010-01-01	2010-04-01	2010-07-01	2010-10-01	2011-01-01	2011-04-01	2012-01-01	2013-01-01	2014-01-01	2015-01-01
661	682	682	720	736	739	750	757	761	766	798	802	811	817	830	840
Projected Exhaust Date		February 2011													
<p>NPA 450 is in a Jeopardy Condition.</p> <p>Note - CRTC staff (Bill Mason) advised that the 7 CO Codes set aside for initial code assignments in Telecom Public Notice CRTC 2008-17 become assignable in a Jeopardy Condition.</p> <p>Assumes that the 17 CO Code corresponding to the Future NPA Codes are available for assignment.</p> <p>In accordance with the proposed recommendations in the NPA 450 Planning Document.</p>															

Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 450 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 450 would be expected to exhaust.

Source	Projected Exhaust Date
G-NRUF January 2007	September 2013
R-NRUF January 2008	October 2014
R-NRUF July 2008	September 2012.
Updated November R-NRUF Forecast in conjunction with Telecom Public Notice CRTC 2008-17 and CRTC Staff Opinion regarding Jeopardy Condition	December 2010
J-NRUF December 31, 2008 (assumes the 7 CO Codes for Initial Code Assignment are available for assignment; however the 17 CO Codes that are the same as the Future Geographic NPA Codes listed below are not available for assignment)	November 2010*
J-NRUF December 31, 2008 (assumes the 7 CO Codes for Initial Code Assignment and the 17 CO Codes that are the same as the Future Geographic NPA Codes listed below are available for assignment)	February 2011**

The CO Codes corresponding to future Canadian Geographic NPAs in NPA 450 are 249, 257, 273, 354, 365, 367, 382, 387, 428, 487, 579, 639, 683, 851, 871, 873, 879, & 942.

* **In accordance with the current Guidelines and Telecom Public Notice CRTC 2008-17.**

** **In accordance with the recommendations in the NPA 450 Planning Document.**

3. Schedule of Future NRUF Activities This Year

Due Date	NRUF Type	NRUF Format	NPAs
30 April 2009	J – NRUF	Format 3 – proposed by CNA	450
31 July 2009	J – NRUF	Format 3 – proposed by CNA	450
30 October 2009	J – NRUF	Format 3 – proposed by CNA	450

4. J-NRUF Assumptions

The assumptions used for the December 2008 J-NRUF for NPAs 450 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.

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 December 2008 J-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 450 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 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 December 2008 J-NRUF results appear as reasonable as possible. The Projected Exhaust Dates for NPA 450 are generally realistic based on the information provided by those TSPs that submitted data.

NPA 450 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 450 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 450 assigned and In-Service as of 23 February 2009. For an Overlay option it identifies 53 CO Codes that are unassignable prior to a Jeopardy Condition, 25 of which become assignable in a Jeopardy Condition. For a Split option it identifies 46 CO Codes that are unassignable prior to a Jeopardy Condition, 18 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.

		Overlay	Split
A	Total CO Codes in an NPA (NXX format)	800	800
B	CO Codes unassignable prior to a Jeopardy Condition		
	N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911)	8	8
	Special Use Codes (555 & 950)	2	2
	Protected Code(s)	0	0
	Home NPA Code(s) (450)	1	1
	Current Neighbouring NPA Codes (514, 819, 343) (CO Codes 438 & 613 are assigned in NPA 450)	3	3
	Future Canadian Geographic NPA Codes (Note 1)	18	18
	Plant Test Codes (958 & 959)	2	2
	Special 7-digit Dialling Codes (610 & 810)	2	2
	CO Codes set aside for New Entrants only before the Relief Date	N/A	10
	CO Codes set aside for Initial Code assignments after relief via an overlay	7	N/A
	CO Codes set aside for Initial Code assignments for New Entrants only after relief via an overlay	10	N/A
	Subtotal	53	46
C	CO Codes assignable prior to a Jeopardy Condition (C=A-B)	747	754
D	CO Codes unassignable prior to a Jeopardy Condition that became assignable in a Jeopardy Condition:		
	Future Canadian Geographic NPA Codes (Note 2)	17	17
	Current Neighbouring NPA Codes (assign 343 in the North Eastern portion of NPA 450 as far as possible from the Rivière-Beaudette EAS)	1	1
	CO Codes set aside for Initial Code assignments after relief via an overlay	7	N/A
	Subtotal	25	18
E	Assignable CO Codes in a Jeopardy Condition (E=C+D)	772	772
F	Assigned CO Codes as of 23 February 2009	646	646
G	Net CO Codes available for assignment as of 23 February 2009 without a Jeopardy Condition (G=C-F)	101	108

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		Overlay	Split
H	Net CO Codes available for assignment as of 23 February 2009 in a Jeopardy Condition (H=E-F)	126	126

Notes:

1. 16 out of a total of 34 Future Canadian Geographic NPA Codes are already assigned in NPA 450.
2. The following 18 Future Canadian Geographic NPA Codes are currently unavailable for assignment as CO Codes in NPA 450: 249, 257, 273, 354, 365, 367, 382, 387, 428, 487, 579, 639, 683, 851, 871, 873, 879, and 972. The following 17 Future Canadian Geographic NPA Codes should be made available for assignment as CO Codes in this NPA 450 in and after a Jeopardy Condition: 249, 257, 273, 354, 365, 367, 382, 387, 428, 487, 639, 683, 851, 871, 873, 879, and 972. (See Note 3 for disposition of NPA 579.)
3. The following 1 Future Canadian Geographic NPA should NOT be assigned as a CO Code in NPA 450 and the new NPA: 579. NPA 579 is the only NPA that is not assigned as a CO Code in any of the neighbouring NPAs and is therefore the best choice for an immediate distributed overlay or a future distributed overlay following a boundary extension overlay.