

**Report for July 2008 R-NRUF – NPAs 450, 613, 705 & 289/905  
to the  
Canadian Steering Committee on Numbering (CSCN)**

**Published: November 14, 2008**

Issued by:  
Canadian Numbering Administrator  
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## **1. Purpose of R-NRUF**

The purpose of the General Numbering Resource Utilization Forecast (G-NRUF) is to provide an annual forecast to aid in projecting Numbering Plan Area (NPA) and North American Numbering Plan (NANP) exhaust. The G-NRUF requires current and prospective Code Holders to submit actual and forecasted annual data regarding their current and prospective future use of Central Office (CO) Codes to the Canadian Numbering Administrator (CNA) on an annual basis.

In accordance with the Canadian Numbering Resource Utilization Forecast (C-NRUF) Guideline (the Guideline), approved by the Canadian Radio-television and Telecommunications Commission (CRTC) in Telecom Decision CRTC 2004-45:

When an NPA is entering the timeframe for NPA Relief Planning (e.g., about 6 years before the Projected Exhaust Date), an initial R-NRUF is conducted to obtain actual and forecast annual data at the Exchange Area level of detail. The purpose of the initial R-NRUF is to validate the Projected Exhaust Date for an exhausting NPA, and to provide the CNA with detailed information to be used to identify a potential Relief Date and to prepare the Initial Planning Document as outlined in the Canadian NPA Relief Planning Guidelines.

On 25 March 2008, the CNA released the aggregate results of the 2008 G-NRUF for all geographic Canadian NPAs. The 2008 G-NRUF results indicated that NPAs 289/905 would exhaust in August 2014, NPA 450 would exhaust in October 2014, NPA 613 would exhaust in August 2011, and NPA 705 would exhaust in September 2014. On 27 June 2008 the CNA requested R-NRUFs from the Current and Prospective Canadian Central Office Code Holders in each of these NPAs, as all were within the 6-year relief planning window.

## **2. High Level Summary**

The results from the July 2008 R-NRUF are different from the January 2008 G-NRUF results due to various Telecommunications Service Providers (TSPs) submitting a set of data to the CNA that is different from the January 2008 G-NRUF data. The CNA has verified the input from various TSPs and the variance from previous input can be rationalized.

Specific changes are listed below:

- NPA 289/905 Projected Exhaust Date is now forecast for August 2024, which moves the Projected Exhaust Date out by ten (10) years from the January 2008 G-NRUF result of August 2014.
- NPA 450 Projected Exhaust Date is now forecast for September 2012, which moves the Projected Exhaust Date in by two (2) years and one (1) month from the January 2008 R-NRUF result of October 2014.
- NPA 613 Projected Exhaust Date is now forecast for October 2011, which moves the Projected Exhaust Date out two (2) months from the January 2008 R-NRUF result of August 2011.
- NPA 705 Projected Exhaust Date is now forecast for February 2015, which moves the Projected Exhaust Date out by five (5) months from the January 2008 R-NRUF result of September 2014.

**NPA 289/905**

NPA 289 / 905 July 2008 R-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	2008-07-01	2009-01-01	2010-01-01	2011-01-01	2012-01-01	2013-01-01	2014-01-01
1101	1116	1195	1234	1256	1273	1302	1324
Projected Exhaust Date		August 2024					

NRUF data, including the most recent results, is summarized in the following chart.

<b>NPA 289/905</b>			
<b>Summary of Projected Exhaust Dates</b>			
<b>NPA</b>	<b>Type of C-NRUF</b>	<b>Date of Publication</b>	<b>Projected Exhaust Date</b>
289/905	2008 G – NRUF	25 March 2008	August 2014
289/905	July 2008 R – NRUF	16 October 2008	August 2024

**NPA 450**

<b>NPA 450 July 2008 R-NRUF Results</b>							
<b>Actual</b>		<b>Forecast</b>					
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	2008-07-01	2009-01-01	2010-01-01	2011-01-01	2012-01-01	2013-01-01	2014-01-01
630	664	719	748	781	791	838	849
Projected Exhaust Date		<b>September 2012</b>					

NRUF data, including the most recent results, is summarized in the following chart.

<b>NPA 450</b>			
<b>Summary of Projected Exhaust Dates</b>			
<b>NPA</b>	<b>Type of C-NRUF</b>	<b>Date of Publication</b>	<b>Projected Exhaust Date</b>
450	2007 G – NRUF	5 April 2007	September 2013
450	July 2007 R – NRUF	3 October 2007	November 2013
450	January 2008 R – NRUF	25 March 2008	October 2014
450	July 2008 R – NRUF	16 October 2008	September 2012

**NPA 613**

<b>NPA 613 July 2008 R-NRUF Results</b>							
<b>Actual</b>		<b>Forecast</b>					
<b>Total quantity of existing CO Codes assigned &amp; reserved plus unassignable CO Codes as of</b>		<b>Total quantity of existing CO Codes assigned &amp; reserved plus unassignable CO Codes as of</b>					
<b>2008-01-01</b>	<b>2008-07-01</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>658</b>	<b>674</b>	731	761	813	835	836	859
<b>Projected Exhaust Date</b>		<b>October 2011</b>					

NRUF data, including the most recent results, is summarized in the following chart:

<b>NPA 613 Summary of Projected Exhaust Dates</b>			
<b>NPA</b>	<b>Type of C-NRUF</b>	<b>Date of Publication</b>	<b>Projected Exhaust Date</b>
613	2006 G – NRUF	7 April 2006	May 2014
613	August 2006 S – NRUF (WNP)	9 November 2006	June 2013
613	January 2007 R – NRUF	5 April 2007	December 2013
613	July 2007 R – NRUF	3 October 2007	September 2011
613	January 2008 R – NRUF	25 March 2008	August 2011
613	July 2008 R – NRUF	16 October 2008	October 2011

**NPA 705**

NPA 705 July 2008 R-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	2008-07-01	2009-01-01	2010-01-01	2011-01-01	2012-01-01	2013-01-01	2014-01-01
577	578	637	670	680	730	761	770
Projected Exhaust Date		February 2015					

NRUF data, including the most recent results, is summarized in the following chart.

NPA 705 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
705	2007 G - NRUF	5 April 2007	December 2013
705	July 2007 R – NRUF	3 October 2007	May 2015
705	January 2008 R – NRUF	25 March 2008	September 2014
705	July 2008 R – NRUF	16 October 2008	February 2015

**3. Schedule of Future R- NRUF Activities in Next Year**

Due Date	NRUF Type	NRUF Format	NPAs
6 February 2009	R – NRUF	Format 2 – proposed by CNA	450, 613 & 705
10 August 2009	R – NRUF	Format 2 – proposed by CNA	450, 613 & 705

## **4. R–NRUF Assumptions**

The assumptions used for the July 2008 R-NRUF for NPAs 289/905, 450, 613 and 705 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. Summary of Challenges Encountered During the R-NRUF Process**

Some TSPs continue to remain unaware of the significance and schedule for completing R-NRUFs. The CNA started contacting companies on August 4, 2008 to remind them of the August 11, 2008 due date. Due to the summer vacation one company did not submit an R-NRUF until August 25, 2008.

## **6. Conclusion**

In accordance with Section 4, Item 6 f) and h) of the Canadian Numbering Resource Utilization Forecast (C–NRUF) Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the July 2008 R-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 289/905, 450, 613 and 705 are realistic.

As identified in previous reports, there continues to be some potential for volatility in demand for numbering resources as a result of the current expansion process for LNP to encompass wireless services and Telecom Decision CRTC 2004-46, "Trunking arrangements for the interchange of traffic and the point of interconnection between local exchange carriers", which allows for the consolidation of Exchange Areas to form larger local interconnection regions (LIRs). Due to these uncertainties, 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 successful bidders have not submitted an R-NRUF. Additionally, the effect of introducing the new spectrum will continue affect the NRUF through 2009 and later. Based on this assessment, in the CNA's opinion, the July 2008 R-NRUF results for NPAs 289/905, 450, 613, and 705 appear reasonable and the Projected Exhaust Dates for the NPAs are generally realistic based on the information provided by those TSPs that submitted data.