July 2015 R-NRUF Report – NPAs 226/519/548 and 403/587/780/825 to the Canadian Steering Committee on Numbering (CSCN)

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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 forecast 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 2012-524 dated 28 September 2012:

> When an NPA is entering the timeframe for NPA Relief Planning (e.g., within or about 72 months 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 Guideline. Typically, the initial R-NRUF will utilize Format 2 in Appendix A. In general, the CNA will conduct the initial R-NRUF when needed; however, the CNA should attempt to choose dates for the initial and subsequent R-NRUFs that will coincide with the annual G-NRUF and mid-year R/S-NRUF dates (e.g., as of January 1 and July 1 each year).
>
> Subsequent R-NRUFs will be conducted semi-annually in order to monitor CO Code forecast changes prior to implementing relief. These R-NRUFs shall be conducted until three months of when relief is implemented, or until they are replaced by S-NRUFs or J-NRUFs.

Based on the January 2012 NRUF results, the CNA determined that NPAs 226/519 and 403/587/780 were within the 6-year window for NPA relief planning. On 22 June 2015 the CNA requested July 2015 R-NRUFs from current and prospective Canadian CO Code (NXX) Holders in those NPAs.

2. High Level Summary

The results from the July 2015 R-NRUF are slightly different from the January 2015 R-NRUF results due to various Telecommunications Service Providers

(TSPs) submitting updated data. The CNA has verified the input from various TSPs and the variance from previous inputs can be rationalized.

Specific changes are listed below:

- NPA 226/519 Projected Exhaust Date is now forecast for May 2017, which moves the Projected Exhaust Date in by seven (7) months from the January 2015 R-NRUF result of December 2017.

- NPA 403/587/780 Projected Exhaust Date is May 2017, which is the same as the January 2015 R-NRUF results.

NPA 226/519

NPA 226/519/548 - July 2015 R-NRUF Aggregate 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 as of					
2015-01-01	2015-07-01	2016-01-01	2017-01-01	2018-01-01	2019-01-01	2020-01-01	2021-01-01
1271	1295	1462	1554	1693	1755	1840	1915
Projected Exhaust Date				May 2017			
NPA 548 In-service date is 4 June 2016 per Telecom Decision CRTC 2014-338							

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

NPA 226/519 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
226/519	January 2011 G-NRUF	5 April 2011	September 2022
226/519	January 2012 G-NRUF	10 April 2012	November 2017
226/519	July 2012 R-NRUF	5 October 2012	January 2017
226/519	January 2013 R-NRUF	10 April 2013	October 2017
226/519	July 2013 R-NRUF	4 October 2013	September 2015
226/519	January 2014 R-NRUF	2 April 2014	May 2018
226/519	July 2014 R-NRUF	3 October 2014	September 2017
226/519	January 2015 R-NRUF	7 April 2015	December 2017
226/519	July 2015 R-NRUF	4 September 2015	May 2017

NPA 403/587/780

NPA 403/587/780/825 - July 2015 R-NRUF Aggregate 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 as of					
2015-01-01	2015-07-01	2016-01-01	2017-01-01	2018-01-01	2019-01-01	2020-01-01	2021-01-01
2102	2142	2281	2358	2495	2524	2595	2682
Projected Exhaust Date			May 2017				
NPA 825 In-service date is 9 April 2016 per Telecom Decision CRTC 2013-574							

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

NPA 403/587/780 Summary of Projected Exhaust Dates			
NPA	**Type of C-NRUF**	**Date of Publication**	**Projected Exhaust Date**
403/587/780	January 2011 G-NRUF	5 April 2012	August 2020
403/587/780	January 2012 G-NRUF	10 April 2012	June 2018
403/587/780	July 2012 R-NRUF	5 October 2012	June 2017
403/587/780	January 2013 R-NRUF	10 April 2013	August 2017
403/587/780	July 2013 R-NRUF	4 October 2013	July 2016
403/587/780	January 2014 R-NRUF	2 April 2014	January 2017
403/587/780	July 2014 R-NRUF	3 October 2014	December 2016
403/587/780	January 2015 R-NRUF	7 April 2015	May 2017
403/587/780	July 2015 R-NRUF	4 September 2015	May 2017

3. Schedule of Future R- NRUF Activities in this Year

Due Date	NRUF Type	NRUF Format	NPAs

4. R–NRUF Assumptions

The assumptions used for the January 2015 R-NRUF for NPAs 226/519/548 and 403/587/780/825 are the assumptions that were provided on 21 October 2014 to

the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the January 2015 G-NRUF.

5. Summary of Challenges Encountered During the R-NRUF Process

The CNA started contacting companies on 27 July 2015 to remind them of the 4 August 2015 due date. Some R-NRUF submissions were a few days late.

6. Conclusion

In accordance with Section 4 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 2015 R-NRUF results are reasonable.

Numbering resource requirements for some Carriers in both the wireless and LEC services have been volatile over the last few years resulting in only moderately accurate short term and long term NRUF submissions. Emerging technology growth has been responsible for a good part of the demand. With the introduction of the Non-Geographic Code Assignment Guideline, this should alleviate some of the issues associated with Machine-to-Machine demand but it is difficult to quantify at this point.

At this time based on the data and supporting justifications provided by the various TSPs the July 2015 R-NRUF results for NPAs 226/519/548 and 403/587/780/825 are as realistic as they can be.