Report for July 2014 R-NRUF – 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 20 June 2014 the CNA requested July 2014 R-NRUFs from current and prospective Canadian CO Code (NXX) Holders in those NPAs.

2. High Level Summary

The results from the July 2014 R-NRUF are different from the January 2014 R-NRUF results due to various Telecommunications Service Providers (TSPs) submitting a set of data to the CNA that is different from the January 2014

R-NRUF 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 September 2017, which moves the Projected Exhaust Date in by eight (8) months from the January 2014 R-NRUF result of May 2018.

- NPA 403/587/780 Projected Exhaust Date is now forecast for December 2016, which moves the Projected Exhaust Date in only by one (1) month from the January 2014 R-NRUF result of January 2017.

NPA 226/519

NPA 226/519/548 - July 2014 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					
2014-01-01	2014-07-01	2015-01-01	2016-01-01	2017-01-01	2018-01-01	2019-01-01	2020-01-01
1175	1213	1378	1453	1544	1619	1675	1733
Projected Exhaust Date				September 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

NPA 403/587/780

NPA 403/587/780/825 - July 2014 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					
2014-01-01	2014-07-01	2015-01-01	2016-01-01	2017-01-01	2018-01-01	2019-01-01	2020-01-01
2009	2055	2214	2328	2406	2502	2596	2672
Projected Exhaust Date		December 2016					
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

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

Due Date	NRUF Type	NRUF Format	NPAs
N/A			

4. R–NRUF Assumptions

The assumptions used for the July 2014 R-NRUF for NPAs 226/519/548 and 403/587/780/825 are the assumptions that were provided on 9 October 2013 to the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the January 2014 G-NRUF.

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

The CNA started contacting companies on 30 July 2014 to remind them of the 4 August 2014 due date. Some R-NRUF submissions were a few days late due to 4 August being a public holiday and some people were taking summer vacations.

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 2014 R-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 226/519/548 and 403/587/780/825 are realistic.

Numbering resource requirements for some Carriers in both the wireless and CLEC services have been volatile over the last few years resulting in only moderately accurate short term and long term NRUF submissions. LTE/4G and CLEC growth has been responsible for a good part of the demand however there is also the issue of machine-to-machine market demand. With machine-to-machine’s potential to touch so many areas of life, including health care, transportation, security and energy, the potential for increased demand in CO Codes is not easy to quantify. In the CNA's opinion the July 2014 R-NRUF results for NPAs 226/519/548 and 403/587/780/825 are as reasonable as they can be and, therefore, the Projected Exhaust Dates for the NPAs are generally realistic, based on the information provided by those current and prospective CO Code Holders that submitted data.