**Report for January 2013 J-NRUF – NPA 306 & NPA 902**
**to the**
**Canadian Steering Committee on Numbering (CSCN)**

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## 1. Purpose of the J-NRUF

Section 8.1 of the Canadian NPA Relief Planning Guideline states:

> A Jeopardy Condition exists when any NRUF or other CO Code assignment data indicates that the projected demand for CO Codes will exceed the quantity of CO Codes available for assignment before the date that relief is scheduled to be implemented.

In addition, section 3, item 3 of the Canadian Numbering Resource Utilization Forecast (C-NRUF) Guideline states:

> When an NPA is declared by the CNA to be in a Jeopardy Condition, the CNA initiates a J-NRUF to obtain actual and forecast data to assist in the monitoring and management of the limited numbering resources available for assignment until relief is provided. The J-NRUF is normally conducted on a quarterly basis from the date that the Jeopardy Condition is declared by the CNA until three months of when relief is implemented.

After analysis of the January 2011 G-NRUF results, the CNA announced on 29 March 2011 that NPA 306 met the criteria identified in section 8.1 of the Canadian NPA Relief Planning Guideline and, consequently, NPA 306 was in a Jeopardy Condition.

On 24 May 2012, the CRTC issued Telecom Notice of Consultation CRTC 2012-309, in which it declared that a Jeopardy Condition also exists in NPA 902 which covers the geographic area of Nova Scotia and Prince Edward Island.

In accordance with section 8.2 of the Canadian NPA Relief Planning Guideline and section 3, item 3 of the Canadian Numbering Resource Utilization Forecast (C-NRUF) Guideline, the CNA is required to request a Jeopardy Numbering Resource Utilization Forecast (J-NRUF) once a Jeopardy Condition has been declared for a specific NPA.

The CNA has prepared this report in accordance with the Canadian Numbering Resource Utilization Forecast (C-NRUF) Guideline approved by the CRTC on 28 September 2012 in Telecom Decision CRTC 2012–524.

## 2. High Level Summary

Telecommunications Service Providers (TSPs) continue to revise their forecasts based on their most recent marketing plans. The CNA has verified the input from various TSPs and the variance from previous inputs can be rationalized.

- The NPA 306 Projected Exhaust Date (PED) with CO Code assignment restrictions included is May 2013, which is the same as the October 2012 J-NRUF result.

- The NPA 306 PED without the CO Code assignment restrictions is now March 2013, which has moved the PED out by one (1) month from the October 2012 J-NRUF result of February 2013.

- The NPA 902 PED with CO Code assignment restrictions included as directed by the CRTC in Telecom Notice of Consultation CRTC 2012-309 is October 2014, which has

moved the PED in by eight (8) months from the October 2012 J-NRUF result of June 2015.

- The NPA 902 PED without the CO Code assignment restrictions is December 2013, which has moved the PED in by seven (7) months from the October 2012 J-NRUF result of July 2014.

| NPA 306/639 - January 2013 V-1 Aggregate Results | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CO Code Conservation Measures are included in the JCP and/or directed by the CRTC | | | | | | | | | | | |
| | | | | | | | | | | | |
| Actual | Forecast | | | | | | | | | | |
| Total quantity of existing CO Codes forecast to be assigned & reserved as of | Total quantity of existing and future CO Codes forecast to be assigned & reserved as of | | | | | | | | | | |
| 2013-01-01 | 2013-02-01 | 2013-03-01 | 2013-04-01 | 2013-05-01 | 2013-06-01 | 2014-01-01 | 2015-01-01 | 2016-01-01 | 2017-01-01 | 2018-01-01 | 2019-01-01 |
| 750 | 764 | 770 | 810 | 814 | 861 | 905 | 915 | 926 | 937 | 948 | 958 |
| | | | | | | | | | | | |
| Projected Exhaust Date | | | | May 2013 | | | | | | | |
| | | | | | | | | | | | |
| NPA 306 is in a Jeopardy Condition. | | | | | | | | | | | |
| Note - Telecom Decision CRTC 2011-533 new NPA in-service date of 25 May 2013. | | | | | | | | | | | |
| Note - Additional Codes from March 2013 to May 2013 are from the 639 NPA | | | | | | | | | | | |

| NPA 306/639 - January 2013 V-2 Aggregate Results | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CO Code Conservation Measures are not included in the JCP and/or directed by the CRTC | | | | | | | | | | | |
| | | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 2013-01-01 | 2013-02-01 | 2013-03-01 | 2013-04-01 | 2013-05-01 | 2013-06-01 | 2014-01-01 | 2015-01-01 | 2016-01-01 | 2017-01-01 | 2018-01-01 | 2019-01-01 |
| 750 | 783 | 789 | 821 | 825 | 872 | 905 | 915 | 926 | 937 | 948 | 958 |
| | | | | | | | | | | | |
| Projected Exhaust Date | February 2013 | | | | | | | | | | |
| | | | | | | | | | | | |
| NPA 306 is in a Jeopardy Condition. | | | | | | | | | | | |
| Note - Telecom Decision CRTC 2011-533 new NPA in-service date of 25 May 2013. | | | | | | | | | | | |

## Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 306 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 306 would be expected to exhaust.

| NRUF | Projected Exhaust Date |
|---|---|
| G-NRUF January 2010 | April 2018 |
| G-NRUF January 2011 | August 2013 |
| J-NRUF April 2011 | July 2013 |
| J-NRUF – V1 July 2011 (with code rationing taken into account by TSPs) | November 2013 |
| J-NRUF – V2 July 2011 (with code rationing not taken into account by TSPs) | February 2013 |
| J-NRUF - V1 October 2011 (with code rationing taken into account by TSPs) | September 2013 |
| J-NRUF - V2 October 2011 (with code rationing not taken into account by TSPs) | February 2013 |
| J-NRUF - V1 January 2012 (with code rationing taken into account by TSPs) | May 2013 |
| J-NRUF - V2 January 2012 (with code rationing not taken into account by TSPs) | January 2013 |
| J-NRUF - V1 April 2012 (with code rationing taken into account by TSPs) | May 2013 |

| NRUF | Projected Exhaust Date |
|---|---|
| J-NRUF - V2 April 2012 (with code rationing not taken into account by TSPs) | April 2013 |
| J-NRUF - V1 July 2012 (with code rationing taken into account by TSPs) | May 2013 |
| J-NRUF - V2 July 2012 (with code rationing not taken into account by TSPs) | January 2013 |
| J-NRUF - V1 October 2012 (with code rationing taken into account by TSPs) | May 2013 |
| J-NRUF - V2 October 2012 (with code rationing not taken into account by TSPs) | February 2013 |
| J-NRUF - V1 January 2013 (with code rationing taken into account by TSPs) | May 2013 |
| J-NRUF - V2 January 2013 (with code rationing not taken into account by TSPs) | February 2013 |

| NPA 782/902 - January 2013 J-NRUF V-1 Aggregate Results | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO Code Conservation Measures are included in the JCP and/or directed by the CRTC | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Actual | Forecast | | | | | | | | | | | |
| Total quantity of existing CO Codes forecast to be assigned & reserved as of | Total quantity of existing and future CO Codes forecast to be assigned & reserved as of | | | | | | | | | | | |
| 2013-01-01 | 2013-04-01 | 2013-07-01 | 2013-10-01 | 2014-01-01 | 2014-04-01 | 2014-07-01 | 2014-10-01 | 2015-01-01 | 2016-01-01 | 2017-01-01 | 2018-01-01 | 2019-01-01 |
| 707 | 734 | 753 | 755 | 772 | 775 | 783 | 800 | 868 | 883 | 891 | 916 | 923 |
| | | | | | | | | | | | | |
| Projected Exhaust Date | | | | | | October 2014 | | | | | | |
| | | | | | | | | | | | | |
| NPA 782/902 is in a Jeopardy Condition. | | | | | | | | | | | | |
| Based on Telecom Decision CRTC 2012-528 new NPA in-service date of 30 November 2014. | | | | | | | | | | | | |
| Note - Additional Codes from July 2014 to November 2014 are from the 782 NPA | | | | | | | | | | | | |

| NPA 782/902 - January 2013 J-NRUF V-2 Aggregate Results | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO Code Conservation Measures are not included in the JCP and/or directed by the CRTC | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Actual | Forecast | | | | | | | | | | | |
| Total quantity of existing CO Codes forecast to be assigned & reserved as of | Total quantity of existing and future CO Codes forecast to be assigned & reserved as of | | | | | | | | | | | |
| 2013-01-01 | 2013-04-01 | 2013-07-01 | 2013-10-01 | 2014-01-01 | 2014-04-01 | 2014-07-01 | 2014-10-01 | 2015-01-01 | 2016-01-01 | 2017-01-01 | 2018-01-01 | 2019-01-01 |
| 707 | 750 | 777 | 782 | 823 | 828 | 840 | 843 | 871 | 886 | 891 | 916 | 923 |
| | | | | | | | | | | | | |
| Projected Exhaust Date | | | December 2013 | | | | | | | | | |
| | | | | | | | | | | | | |
| NPA 782/902 is in a Jeopardy Condition. | | | | | | | | | | | | |
| Based on Telecom Decision CRTC 2012-528 new NPA in-service date of 30 November 2014. | | | | | | | | | | | | |

## Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 902 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 902 would be expected to exhaust.

| NRUF | Projected Exhaust Date |
|---|---|
| G-NRUF January 2010 | February 2018 |
| G-NRUF January 2011 | May 2017 |
| R-NRUF July 2011 | April 2017 |
| R-NRUF January 2012 | January 2016 |
| J-NRUF – V1 July 2012 (with restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | June 2015 |
| J-NRUF – V2 July 2012 (without restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | May 2014 |

| NRUF | Projected Exhaust Date |
|---|---|
| J-NRUF – V1 October 2012 (with restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | June 2015 |
| J-NRUF – V2 October 2012 (without restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | July 2014 |
| J-NRUF – V1 January 2013 (with restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | October 2014 |
| J-NRUF – V2 January 2013 (without restrictions) (adjusted per Telecom Notice of Consultation CRTC 2012-309 directive to set aside 7 CO Codes for initial code assignments for carriers already providing service, and 10 for initial code assignments for new entrants) | December 2013 |

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

| Due Date | NRUF Type | NRUF Format | NPAs |
|---|---|---|---|
| April 30 | J–NRUF | As determined by RPC | 782/902 |
| July 29 | J–NRUF | As determined by RPC | 782/902 |
| October 31 | J–NRUF | As determined by RPC | 782/902 |

## 4. J–NRUF Assumptions

The assumptions for the January 2013 J-NRUF for NPAs 306/639 and 782/902 are the same as were provided on 10 October 2012 to the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the January 2013 G-NRUF.

Two Projected Exhaust Dates (i.e., V1 and V2) were calculated using these assumptions and are shown in the results tables above.

## 5. Conclusion

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.

In accordance with the Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the January 2013 J-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 306/639 and 782/902 are realistic.

Based on this assessment, in the CNA's opinion, the January 2012 V-1 J-NRUF results appear to be as reasonable as possible. The Projected Exhaust Dates for NPAs 306 and 902 are generally realistic based on the information provided by those TSPs that submitted data.

## NPA 306 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 306 assigned and In-service as of 26 April 2013. It identifies 33 CO Codes that are unassignable prior to a Jeopardy Condition, 13 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.

| | | Quantity |
|---|---|---|
| **A** | **Total CO Codes in NPAs 306 (NXX format)** | **800** |
| | | |
| **B** | **CO Codes unassignable prior to a Jeopardy Condition** | |
| | N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911) | 8 |
| | Special Use Codes (555, 950 & 976) | 3 |
| | Home NPA Code(s) (306) | 1 |
| | Current Neighboring NPA Codes (204, 403, 431 – See Note 2) | 3 |
| | Future Geographic NPA Codes (437, 474, 568, 639, 851, 871, 879, 942 – See Note 3) | 8 |
| | Plant Test Codes (958 & 959) | 2 |
| | Special 7-digit Dialling Codes (610 & 810) | 2 |
| | CO Codes set aside for Initial Codes for New Entrants only (Telecom Notice of Consultation CRTC 2011-260) | 3 |
| | 9-1-1 Misdial Codes (912, 914 & 915) | 3 |
| | **Total B** | **33** |
| | | |
| **C** | **CO Codes assignable prior to a Jeopardy Condition (C=A-B)** | **767** |
| | | |
| **D** | **CO Codes unassignable prior to a Jeopardy Condition that become assignable in a Jeopardy Condition:** | |
| | 911 Misdial Codes (912, 914 & 915) | 3 |
| | Current Neighboring NPA Codes (assign CO Code 403 in the eastern portion of NPA 306 and assign CO Codes 204 and 431 in the western portion of NPA 306) | 3 |
| | Future Canadian Geographic NPA Codes (437, 474, 568, 851, 871, 879, 942 – See Note 3) | 7 |
| | **Total D** | **13** |
| | | |
| **E** | **CO Codes set aside for New Entrants recommended by RPC (912, 914, 915, 403, 204, 431, 437, 942)** | **8** |
| **F** | **CO Codes unassignable prior to a Jeopardy Condition that become assignable in a Jeopardy Condition (F=D-E)** | **5** |
| **G** | **Assignable CO Codes in a Jeopardy Condition (G=C+F)** | **772** |
| **H** | **Assigned CO Codes as of 26 April 2013** | **714** |
| **I** | **Net CO Codes available for assignment as of 26 April 2013 without a Jeopardy Condition (I=C-H)** | **53** |
| **J** | **Net CO Codes available for assignment as of 26 April 2013 in a Jeopardy Condition (J=F+I)** | **58** |

**Notes:**

1. 21 of the 29 CO Codes corresponding to Future Canadian Geographic NPA Codes are already assigned, in-service, or available for assignment in NPA 306 leaving 8 CO Codes as currently unavailable for assignment.
2. CO Codes 406, 587, 780 and 867 are already assigned as CO Codes in NPA 306. CO Codes 701 and 926 are available for assignment outside the North Portal EAS.
3. CO Codes for New Entrants recommended by the RPC should be assigned from the pool in the following order: 912, 914, 915, 403, 204, 431, 437 and 942.
4. CO Codes 474, 568, 851, 871, 879 are available for assignment as a last resort in NPA 306.
5. CO Code 639 should remain unassignable as it is the Relief NPA.

## NPA 902 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 902 assigned and In-service as of 26 April 2013. It identifies 41 CO Codes that are unassignable prior to a Jeopardy Condition, 11 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.

| | | Quantity |
|---|---|---|
| **A** | **Total CO Codes in NPAs 902 (NXX format)** | **800** |
| | | |
| **B** | **CO Codes unassignable prior to a Jeopardy Condition** | |
| | N11 Service Codes (211, 311, 411, 511, 611, 711, 811, 911) | 8 |
| | Special Use Codes (555, 950 & 976) | 3 |
| | Home NPA Code(s) (902) | 1 |
| | Current Neighbouring NPA Codes (506) | 1 |
| | Future Geographic NPA Codes (263, 782, 851, 942) | 4 |
| | Plant Test Codes (958 & 959) | 2 |
| | Special 7-digit Dialling Codes (310, 610 & 810) | 2 |
| | CO Codes set aside for Initial Codes for New Entrants only (for assignment after relief via an overlay [or before if a split]) | 10 |
| | CO Codes set aside for Initial Codes for carriers already providing service (for assignment after relief via an overlay [or before if a split]) | 7 |
| | 9-1-1 Misdial Codes (912, 914 & 915) | 3 |
| | **Total B** | **41** |
| | | |
| **C** | **CO Codes assignable prior to a Jeopardy Condition (C=A-B)** | **759** |
| | | |
| **D** | **CO Codes unassignable prior to a Jeopardy Condition that become assignable in a Jeopardy Condition:** | |
| | Future Canadian Geographic NPA Codes (263, 851, 942) | 3 |
| | Current Neighbouring NPA Codes (assign CO Code 506 in the Eastern portion of NPA 902) | 1 |
| | CO Codes set aside for Initial Code assignments after relief via an overlay (available subject to CRTC staff approval) | 4 |
| | 911 Misdial Codes (912, 914 & 915) | 3 |
| | **Total D** | **11** |
| | | |
| **E** | **Assignable CO Codes in a Jeopardy Condition (E=C+D)** | **770** |
| **F** | **Assigned CO Codes as of 26 April 2013** | **672** |
| **G** | **Net CO Codes available for assignment as of 26 April 2013 without a Jeopardy Condition (G=C-F)** | **87** |
| **H** | **Net CO Codes available for assignment as of 26 April 2013 in a Jeopardy Condition (H=E-F)** | **98** |

**Notes:**

1. 23 of the 26 CO Codes corresponding to Future Canadian Geographic NPA Codes are already assigned, in-service, or available for assignment in NPA 902 leaving 3 CO Codes as currently unavailable for assignment.
2. CO Codes 263, 782, 851 and 942 are unavailable for assignment in NPA 902. CO Code 782 cannot become assignable even in a Jeopardy Condition as it would correspond to the new NPA, therefore must remain unassignable as a CO Code. CO Codes 263, 851 and 942 should become available for assignment in a Jeopardy Condition.