

**Report for October 2011 J-NRUF – NPA 204, 306 & 819
to the
Canadian Steering Committee on Numbering (CSCN)**

**Published: December 20, 2011
Updated: January 4, 2012**

Issued by:
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1. Purpose of the J-NRUF

Section 8.1 of the Canadian NPA Relief Planning Guideline 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.

As a result of the provisions contained in section 8.1, the CNA announced on 5 May 2010 that NPA 204 was in a Jeopardy Condition based on the results of the January 2010 G-NRUF. Analysis of the results of the January 2011 G-NRUF showed that NPAs 306 and 819 also meet the criteria identified in section 8.1 and, consequently, on 29 March 2011 the CNA declared that these NPAs were also in a Jeopardy Condition.

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.

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 before relief is implemented.

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 29 September 2010 in Telecom Decision CRTC 2010-724.

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 204 Projected Exhaust Date (PED) with CO Code assignment restrictions included as directed by the CRTC in Telecom Notice of Consultation CRTC 2009-309 is now September 2012, which moved the PED in by one (1) month from the July 2011 J-NRUF result of October 2012.
- The NPA 204 PED without the CO Code assignment restrictions directed by the CRTC is now May 2012 which moved the PED out by three (3) months from the July 2011 J-NRUF result of February 2012.
- The NPA 306 PED with CO Code assignment restrictions included is now September 2013, which moved the PED in by two (2) months from the July 2011 J-NRUF result of November 2013.

- The NPA 306 PED without the CO Code assignment restrictions is now February 2013, which is the same as the July 2011 J-NRUF result of February 2013.
- The NPA 819 PED with CO Code assignment restrictions included is now October 2012, which is the same as the July 2011 J-NRUF result of October 2012.
- The NPA 819 PED without the CO Code assignment restrictions is now March 2012, which moved the PED in by seven (7) months from the July 2011 J-NRUF PED of October 2012.

NPA 204 October 2011 J-NRUF V-1 Aggregate Results																	
CO Code assignment restrictions are included in the JCP and/or directed by the CRTC																	
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															
		2011-01-01	2011-10-01	2011-11-01	2011-12-01	2012-01-01	2012-02-01	2012-03-01	2012-04-01	2012-05-01	2012-06-01	2012-07-01	2012-08-01	2012-09-01	2013-01-01	2014-01-01	2015-01-01
688	699	704	713	721	737	739	747	748	750	756	765	775	921	979	1012	1030	1047
Projected Exhaust Date										September 2012							
NPA 204 is in a Jeopardy Condition.																	
Note - Telecom Notice of Consultation CRTC 2009-309																	
Note - Relief Date 3 November 2012 - Telecom Decision CRTC 2010-526																	
Generally only a few companies adhered to the April 09 NOC requirements which has made the results somewhat inaccurate.																	

NPA 204 October 2011 J-NRUF V-2 Aggregate Results										
CO Code assignment restrictions are not included in the JCP and/or directed by the CRTC										
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								
		2011-01-01	2011-10-01	2012-01-01	2012-04-01	2012-07-01	2012-10-01	2013-01-01	2014-01-01	2015-01-01
689	700	765	791	805	825	928	985	1019	1038	1056
Projected Exhaust Date					May 2012					
NPA 204 is in a Jeopardy Condition.										
Note - Telecom Notice of Consultation CRTC 2009-309										
Note - Relief Date 3 November 2012 - Telecom Decision CRTC 2010-526										

Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 204 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 204 would be expected to exhaust.

NRUF	Projected Exhaust Date
G-NRUF January 2008	December 2021
G-NRUF January 2009	September 2010
J-NRUF April 2009	January 2011
J-NRUF April 2009 adjusted by CNA for code rationing per CRTC TNC 2009-309 (28 May 2009)	March 2015
J-NRUF July 2009 (with code rationing taken into account by TSPs)	October 2016
R-NRUF January 2010 (with code rationing taken into account by TSPs)	May 2013
J-NRUF July 2010 (with code rationing taken into account by TSPs)	April 2013
J-NRUF October 2010 (with code rationing taken into account by TSPs)	November 2012
J-NRUF - V1 January 2011 (with code rationing taken into account by TSPs)	September 2012
J-NRUF - V2 January 2011 (with code rationing not taken into account by TSPs)	December 2011
J-NRUF - V1 April 2011 (with code rationing taken into account by TSPs)	October 2012
J-NRUF - V2 April 2011 (with code rationing not taken into account by TSPs)	November 2011
J-NRUF - V1 July 2011 (with code rationing taken into account by TSPs)	October 2012
J-NRUF - V2 July 2011 (with code rationing not taken into account by TSPs)	February 2012
J-NRUF - V1 October 2011 (with code rationing taken into account by TSPs)	September 2012
J-NRUF - V2 October 2011 (with code rationing not taken into account by TSPs)	May 2012

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NPA 306 October 2011 J-NRUF V-1 Results												
CO Code assignment restrictions are included in the JCP and/or directed by the CRTC												
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										
		2011-01-01	2011-10-01	2012-01-01	2012-04-01	2012-07-01	2012-10-01	2013-01-01	2013-04-01	2013-07-01	2014-01-01	2015-01-01
731	726	741	752	759	765	778	786	791	825	847	853	859
Projected Exhaust Date								September 2013				
NPA 306 is in a Jeopardy Condition.												
Note- Telecom Notice of Consultation CRTC 2011-260												
Note- Relief Date 25 May 2013 - Telecom Decision CRTC 2011-533												

NPA 306 October 2011 J-NRUF V-2 Results												
CO Code assignment restrictions are not included in the JCP and/or directed by the CRTC												
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										
		2011-01-01	2011-10-01	2012-01-01	2012-04-01	2012-07-01	2012-10-01	2013-01-01	2013-04-01	2013-07-01	2014-01-01	2015-01-01
731	726	748	762	770	776	789	797	803	817	858	864	867
Projected Exhaust Date								February 2013				
NPA 306 is in a Jeopardy Condition.												
Note - Telecom Notice of Consultation CRTC 2011-260												
Note- Relief Date 25 May 2013 - Telecom Decision CRTC 2011-533												

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 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

NPA 819 October 2011 J-NRUF V-1 Aggregate Results																	
CO Code assignment restrictions are included in the JCP and/or directed by the CRTC																	
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															
		2011-01-01	2011-10-01	2011-11-01	2011-12-01	2012-01-01	2012-02-01	2012-03-01	2012-04-01	2012-05-01	2012-06-01	2012-07-01	2012-08-01	2012-09-01	2013-01-01	2014-01-01	2015-01-01
712	726	732	736	743	751	755	761	763	766	779	780	784	850	879	886	905	919
Projected Exhaust Date												October 2012					
NPA 819 is in a Jeopardy Condition.																	
Note - Telecom Decision CRTC 2011-432 Relief Date advanced to 15 September 2012																	

NPA 819 October 2011 J-NRUF V-2 Aggregate Results																	
CO Code assignment restrictions are not included in the JCP and/or directed by the CRTC																	
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															
		2011-01-01	2011-10-01	2011-11-01	2011-12-01	2012-01-01	2012-02-01	2012-03-01	2012-04-01	2012-05-01	2012-06-01	2012-07-01	2012-08-01	2012-09-01	2013-01-01	2014-01-01	2015-01-01
742	756	760	763	771	792	796	801	803	806	819	820	825	878	904	909	926	940
Projected Exhaust Date									March 2012								
NPA 819 is in a Jeopardy Condition.																	
Note - Telecom Decision CRTC 2011-432 Relief Date advanced to 15 September 2012																	

Summary of Projected Exhaust Dates

As indicated in the following table, forecasts for NPA 819 were used to determine Projected Exhaust Dates, i.e. the dates when CO Codes in NPA 819 would be expected to exhaust.

NRUF	Projected Exhaust Date
G-NRUF January 2009	February 2015
G-NRUF January 2010	March 2014

NRUF	Projected Exhaust Date
R-NRUF July 2010 (adjusted per Telecom Notice of Consultation CRTC 2010-94 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 2013
R-NRUF January 2011 (adjusted per Telecom Notice of Consultation CRTC 2010-94 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)	September 2012
J - NRUF April 2010 (adjusted per Telecom Notice of Consultation CRTC 2010-94 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 2012
J-NRUF – V1 July 2011 (with restrictions) (adjusted per Telecom Notice of Consultation CRTC 2010-94 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 2012
J-NRUF – V2 April 2010 (without restrictions) (adjusted per Telecom Notice of Consultation CRTC 2010-94 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 2012
J-NRUF – V1 October 2011 (with restrictions) (adjusted per Telecom Notice of Consultation CRTC 2010-94 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 2012
J-NRUF – V2 October 2010 (without restrictions) (adjusted per Telecom Notice of Consultation CRTC 2010-94 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)	March 2012

3. Schedule of Future J- NRUF Activities This Year

Due Date	NRUF Type	NRUF Format	NPAs
N/A			

4. J-NRUF Assumptions

The assumptions for the October 2011 J-NRUF for NPAs 204, 306 and 819 are the same as were provided on 26 October 2010 to the CNA by the Canadian Steering Committee on Numbering (CSCN) for conducting the January 2011 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

In accordance with the Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the October 2011 J-NRUF results are reasonable and the Projected Exhaust Dates for NPAs 204, 306 and 819 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.

Based on this assessment, in the CNA's opinion, the October 2011 **V-1** J-NRUF results appear to be as reasonable as possible. The Projected Exhaust Dates for NPAs 204, 306 and 819 are generally realistic based on the information provided by those TSPs that submitted data.

NPA 204 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 204 in a Jeopardy Condition.

The chart showed 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 204 assigned and In-service as of 20 December 2011. For an Overlay option it identifies 25 CO Codes that are unassignable prior to a Jeopardy Condition, 5 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 an NPA (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
	Protected Code(s)	0
	Home NPA Code (204, 431)	2
	Current Neighboring NPA Codes (306 - see Note 1)	1
	Future Canadian Geographic NPA Codes (273, 387, 460, 584, 879) - this quantity reduces to 4 if code 584 is made assignable as recommended in Note 4 (see Notes 2 & 4)	5
	Plant Test Codes (959 – see Note 3)	1
	Special 7-digit Dialling Codes (610 & 810)	2
	911 Misdial Codes (912, 914 & 915)	3
	Total B	25
C	CO Codes assignable prior to a Jeopardy Condition (C=A-B)	775
D	CO Codes unassignable prior to a Jeopardy Condition that became assignable in a Jeopardy Condition:	
	Future Canadian Geographic NPA Codes - this quantity reduces to zero if 584 is made assignable prior to Jeopardy as recommended in Note 4	1
	Current Neighbouring NPA Codes (assign CO Code 306 in the eastern portion of NPA 204)	1
	911 Misdial Codes (912, 914 & 915)	3
	Total D	5
E	Assignable CO Codes in a Jeopardy Condition (E=C+D)	780
F	Assigned CO Codes as of 20 December 2011	681
G	Net CO Codes available for assignment as of 20 December 2011 without a Jeopardy Condition (G=C-F)	94
H	Net CO Codes available for assignment as of 20 December 2011 in a Jeopardy Condition (H=E-F)	99

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Notes:

1. The CO Code corresponding to neighbouring NPA Code 867 is already assigned in NPA 204.
2. 26 of the CO Codes corresponding to the 32 Future Canadian Geographic NPA Codes are already assigned in NPA 204.
3. CO Code 958, a Plant Test Code in all other Canadian NPAs, was assigned and is in-service in NPA 204.
4. The 5 CO Codes corresponding to the Future Canadian Geographic NPA Codes that are currently unavailable for assignment in NPA 204 are 273, 387, 460, 584 & 879. Per Telecom Decision CRTC 2010-526, the relief NPA for NPA 204 should be 431, and CO Codes 273, 387, 460 and 879 should remain unassignable as they may be suitable for relief of adjacent NPAs; only CO Code 584 would be available for assignment.

NPA 306 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 306 in a Jeopardy Condition.

The chart showed 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 20 December 2011. For an Overlay option 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 20 December 2011	702
I	Net CO Codes available for assignment as of 20 December 2011 without a Jeopardy Condition (I=C-H)	65
J	Net CO Codes available for assignment as of 20 December 2011 in a Jeopardy Condition (J=F+I)	70

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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 819 CO Code Inventory Chart

The following chart and the instructions it contains will apply in NPA 819 in a Jeopardy Condition.

The chart showed 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 819 assigned and In-service as of 20 December 2011. It identifies 54 CO Codes that are unassignable prior to a Jeopardy Condition, 19 of which become assignable in a Jeopardy Condition. The CO Codes that become assignable in a Jeopardy Condition shall be made available for assignment only when all other available CO Codes have been assigned, and should be made available in the same order as listed in the chart.

		Quantity
A	Total CO Codes in an NPA (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)	2
	Protected Code(s)	0
	Home NPA Code(s) (819)	1
	Current Neighboring NPA Codes (249, 343, 418, 579, 450, 613, 581, 705, 709)	9
	Current Neighboring US NPA Codes (none listed per Section 3.7f of the Canadian Central Office Code (NXX) Assignment Guideline)	0
	Future Canadian Geographic NPA Codes (257, 273, 368, 387, 431, 468, 487, 584, 742, 851, 871, 873, 942 - see Note 1)	13
	Plant Test Codes (958 & 959)	2
	Special 7-digit Dialling Codes (610 & 810)	2
	CO Codes set aside for Initial Code assignments for Carriers already providing service in NPA 819 after relief via an overlay	7
	CO Codes set aside for Initial Code assignments for New Entrants only after relief via an overlay	10
	Total B	54
C	CO Codes assignable prior to a Jeopardy Condition (C=A-B)	746
D	CO Codes unassignable prior to a Jeopardy Condition that became assignable in a Jeopardy Condition:	
	Future Canadian Geographic NPA Codes (Note 2)	12
	Current Neighboring NPA Codes (249, 343, 418, 450, 579, 613, 581, 705, 709 - Note 3)	0
	CO Codes set aside for Initial Code assignments for carriers already providing service in NPA 819 after relief via an overlay (available subject to CRTC staff approval)	7
	Total D	19
E	Assignable CO Codes in a Jeopardy Condition (E=C+D)	765
F	Assigned CO Codes as of 20 December 2011	689
G	Net CO Codes available for assignment as of 20 December 2011 without a Jeopardy Condition (G=C-F)	57
H	Net CO Codes available for assignment as of 20 December 2011 in a Jeopardy Condition (H=E-F)	76

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Notes:

1. 19 of the CO Codes corresponding to the 32 Future Canadian Geographic NPA Codes are already assigned or available for assignment in NPA 819.
2. The following 13 CO Codes corresponding to the Future Canadian Geographic NPA Codes are currently unavailable for assignment in NPA 819: 257, 273, 368, 387, 431, 468, 487, 584, 742, 851, 871, 873, and 942. One of these CO Codes should not become assignable as it will correspond to the New NPA that will be needed immediately or in the future for NPA relief, therefore only 12 become assignable in a Jeopardy Condition.
3. In an extreme Jeopardy Condition (i.e., when the Projected Exhaust Date is earlier than the Relief Date), the 9 CO Codes corresponding to current Neighboring NPA Codes may be made assignable in certain portions of NPA 819 with CRTC staff approval.