

**October 2021 NPA 204/431, 249/705, 343/613, 403/587/780/825 & 819/873 J-NRUF
Report to the
Canadian Steering Committee on Numbering (CSCN)**

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1. Purpose of the J-NRUF

Section 9.1 of *Canadian NPA Relief Planning Guideline*, Version 7.0 dated 29 January 2019 defines the scenarios under which an exhausting NPA is in a Jeopardy Condition.

In accordance with the *Canadian Numbering Resource Utilization Forecast (C-NRUF) Guideline*, Version 5.1 (the C-NRUF Guideline), approved by the Canadian Radio-television and Telecommunications Commission (CRTC) in Telecom Decision CRTC 2015-166 dated 29 April 2015:

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.

Based on the July 2021 R-NRUF results published on 19 August 2021, the Canadian Numbering Administrator (CNA) concluded that a Jeopardy Condition existed in NPAs 204/431, 249/705, 343/613, 403/587/780/825 and 819/873 which cover the respective geographic areas of Alberta, Manitoba, North-Central and Eastern Ontario and North and Western Quebec.

On 1 March 2021 CRTC staff directed the CNA to:

- enforce the *Canadian NPA Relief Planning Guideline, Appendix F – Jeopardy Contingency Plan (JCP)* in NPA 343/613;
- freeze central office code assignments per the January 2021 R-NRUF submissions; and
- conduct area code complex 343/613 Jeopardy-Numbering Resource Utilization Forecasts (J-NRUFs) at the area code level of detail.

On 11 March 2021 CRTC staff directed the CNA to:

- enforce the *Canadian NPA Relief Planning Guideline, Appendix F – Jeopardy Contingency Plan (JCP)* in NPA 249/705;
- freeze central office code assignments per the January 2021 R-NRUF submissions; and
- conduct area code complex 249/705 Jeopardy-Numbering Resource Utilization Forecasts (J-NRUFs) at the area code level of detail.

On 17 September 2021 CRTC staff agreed with the CNA's request that future CO Code assignments should be limited to quantities based on the

July 2021 R-NRUF submissions for the area code complexes 204/431, 403/587/780/825 and 819/873.

The Jeopardy Contingency Plans dictate that the CNA request two versions (two separate worksheets – Form 1 and Form 2) of the J-NRUF input from all current and prospective CO Code Holders quarterly until three (3) months before relief is provided. The NPA 249/705 and 343/613 forecasted quantities in Form 1 should be the same as or lower than the January 2021 R-NRUF input previously submitted and 204/431, 403/587/780/825 and 819/873 forecasted quantities in Form 1 should be the same as or lower than the July 2021 R-NRUF input previously submitted. CO Code Holder forecasts may reflect an increase in demand in the period after the Relief Date. Form 2 will reflect the actual demand required by the CO Code Holder's current business plan and will be provided for information purposes only.

In accordance with the CRTC staff directions, the CNA conducted a J-NRUF in October 2021.

The CNA has prepared this J-NRUF report in accordance with the C-NRUF Guideline.

2. High Level Summary

The CNA has rationalized the October 2021 NPA 204/431, 249/705, 343/613, 403/587/780/825 and 819/873 J-NRUF inputs from various Telecommunications Service Providers (TSPs) and the variance from previous inputs appears reasonable.

NPA 204/431

The October 2021 NPA 204/431 J-NRUF Form 1 Projected Exhaust Date (PED) has moved out 2 months to December 2023, due to the CRTC staff directed J-NRUF restrictions.

NPA 204/431 October 2021 J-NRUF Form 1 Results												
Forecast quantities cannot exceed July 2021 R-NRUF												
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										
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2022-07-01	2022-10-01	2023-01-01	2023-04-01	2023-07-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1259	1291	1392	1407	1434	1450	1497	1529	1539	1633	1700	1753	1808
Projected Exhaust Date						Dec-23						

NPA 204/431 October 2021 J-NRUF Form 2 Results												
Forecast quantities are not limited to July 2021 R-NRUF												
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										
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2022-07-01	2022-10-01	2023-01-01	2023-04-01	2023-07-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1259	1291	1395	1411	1451	1467	1567	1595	1629	1701	1769	1822	1872
Projected Exhaust Date						May-23						

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

NPA 204/431 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
204/431	G-NRUF January 2020	24 March 2020	January 2025
204/431	R-NRUF July 2020	22 July 2020	June 2024

NPA 204/431 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
204/431	R-NRUF January 2021	17 November 2021	April 2024
204/431	R-NRUF July 2021	19 August 2021	October 2023
204/431	J-NRUF October 2021	17 November 2021	December 2023

NPA 249/705

The October 2021 NPA 249/705 J-NRUF Form 1 Projected Exhaust Date (PED) has remained May 2023, due to the CRTC staff directed J-NRUF restrictions.

NPA 249/705 - October 2021 J-NRUF Form 1 Aggregate Results								
Forecast quantities cannot exceed January 2021 R-NRUF								
Actual								
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						
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1216	1228	1377	1472	1533	1741	1838	1981	2058
Projected Exhaust Date (PED) - May 2023								

NPA 249/705 - October 2021 J-NRUF Form 2 Aggregate Results								
Forecast quantities are not limited to January 2021 R-NRUF								
Actual								
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						
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1216	1228	1389	1488	1560	1773	1873	2016	2094
Projected Exhaust Date (PED) - Mar 2023								

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

NPA 249/705 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
249/705	G-NRUF January 2018	20 March 2018	February 2024
249/705	R-NRUF July 2018	27 July 2018	July 2025
249/705	R-NRUF January 2019	26 March 2019	July 2025
249/705	R-NRUF July 2019	20 September 2019	March 2026
249/705	R-NRUF January 2020	24 March 2020	April 2026
249/705	R-NRUF July 2020	22 July 2020	May 2025
249/705	R-NRUF January 2021	23 February 2021	April 2023
249/705	J-NRUF April 2021	28 April 2021	April 2023
249/705	J-NRUF July 2021	19 August 2021	May 2023
249/705	J-NRUF October 2021	17 November 2021	May 2023

NPA 343/613

The October 2021 NPA 343/613 J-NRUF Form 1 PED has moved out 1 month to December 2022, due to the CRTC staff directed J-NRUF restrictions.

NPA 343/613 - October 2021 J-NRUF Form 1 Aggregate Results							
Forecast quantities cannot exceed January 2021 R-NRUF							
Actual							
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					
2021-01-01	2021-10-01	2022-01-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1295	1324	1467	1635	1745	1851	1946	2014
Projected Exhaust Date (PED) - December 2022							

NPA 343/613 - October 2021 J-NRUF Form 2 Aggregate Results							
Forecast quantities are not limited to January 2021 R-NRUF							
Actual							
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					
2021-01-01	2021-10-01	2022-01-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1295	1324	1653	1775	1882	1988	2047	2103
Projected Exhaust Date (PED) - November 2022							

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

NPA 343/613 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
343/613	G-NRUF January 2017	29 March 2017	April 2025
343/613	G-NRUF January 2018	20 March 2018	February 2024
343/613	R-NRUF July 2018	27 July 2018	August 2022
343/613	R-NRUF January 2019	26 March 2019	December 2023
343/613	R-NRUF July 2019	20 September 2019	September 2025
343/613	R-NRUF January 2020	24 March 2020	June 2025
343/613	R-NRUF July 2020	22 July 2020	February 2024
343/613	R-NRUF January 2021	23 February 2021	October 2022
343/613	J-NRUF April 2021	28 April 2021	October 2022
343/613	J-NRUF July 2021	19 August 2021	November 2022
343/613	J-NRUF October 2021	17 November 2021	December 2022

NPA 403/587/780/825

The October 2021 NPA 403/587/780/825 J-NRUF Form 1 PED has moved out 5 months to December 2022, due to the CRTc staff directed J-NRUF restrictions.

NPA 403/587/780/825 - October 2021 J-NRUF Form 1 Aggregate Results								
Forecast quantities cannot exceed July 2021 R-NRUF								
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						
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
2904	2962	3045	3094	3236	3379	3496	3597	3702
Projected Exhaust Date - December 2022								

NPA 403/587/780/825 - October 2021 J-NRUF Form 2 Aggregate Results								
Forecast quantities are not limited to July 2021 R-NRUF								
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						
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2023-01-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
2903	2961	3119	3188	3353	3495	3618	3736	3841
Projected Exhaust Date - April 2022								

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

NPA 403/587/780/825 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
403/587/780/825	G-NRUF January 2017	29 March 2017	March 2022
403/587/780/825	R-NRUF July 2017	25 September 2017	January 2023
403/587/780/825	G-NRUF January 2018	20 March 2018	September 2022
403/587/780/825	R-NRUF July 2018	27 July 2018	March 2022
403/587/780/825	R-NRUF January 2019	26 March 2019	June 2022
403/587/780/825	R-NRUF July 2019	20 September 2019	February 2022
403/587/780/825	R-NRUF January 2020	24 March 2020	December 2022
403/587/780/825	R-NRUF July 2020	22 July 2020	December 2022
403/587/780/825	R-NRUF January 2021	23 February 2021	January 2023
403/587/780/825	R-NRUF July 2021	19 August 2021	July 2022
403/587/780/825	J-NRUF October 2021	17 November 2021	December 2022

NPA 819/873

The October 2021 NPA 819/873 J-NRUF Form 1 PED has moved out 4 months to September 2023, due to the CRTC staff directed J-NRUF restrictions.

NPA 819/873 October 2021 J-NRUF Form 1 Results											
Forecast quantities cannot exceed July 2021 R-NRUF											
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									
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2022-07-01	2022-10-01	2023-01-01	2023-04-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1259	1291	1392	1407	1434	1450	1497	1529	1539	1633	1700	1753
Projected Exhaust Date						Sep-23					

NPA 819/873 October 2021 J-NRUF Form 2 Results											
Forecast quantities are not limited to July 2021 R-NRUF											
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									
2021-01-01	2021-10-01	2022-01-01	2022-04-01	2022-07-01	2022-10-01	2023-01-01	2023-04-01	2024-01-01	2025-01-01	2026-01-01	2027-01-01
1294	1368	1440	1475	1511	1547	1579	1654	1753	1843	1945	2014
Projected Exhaust Date						Feb-23					

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

NPA 819/873 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
819/873	G-NRUF January 2019	26 March 2019	October 2025
819/873	R-NRUF July 2019	20 September 2019	March 2025

NPA 819/873 Summary of Projected Exhaust Dates			
NPA	Type of C-NRUF	Date of Publication	Projected Exhaust Date
819/873	R-NRUF January 2020	24 March 2020	July 2025
819/873	R-NRUF July 2020	22 July 2020	December 2023
819/873	R-NRUF January 2021	23 February 2021	July 2023
819/873	R-NRUF July 2021	19 August 2021	May 2023
819/873	J-NRUF October 2021	17 November 2021	September 2023

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

Due Date	NRUF Type	NRUF Format	NPA
N/A	N/A	N/A	N/A

4. J-NRUF Assumptions

The assumptions used for the October 2021 NPA 204/431, 249/705, 343/613, 403/587/780/825 and 819/873 J-NRUF are the assumptions directed by CRTC staff on 1 and 11 March 2021 to the CNA.

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

Most TSPs continue to rely on the CNA to remind them of the due date. The CNA started contacting companies on 7 October 2021. Despite this initiative, some J-NRUF submissions were late and incorrect.

Most CO Code Holders were confused about the difference between the Form 1 and Form 2 J-NRUF worksheets and had to be reminded to complete Form 2.

6. Conclusion

In accordance with Section 4, Item 6h) of the C-NRUF Guideline, the CNA has conducted assessments, sought clarification and/or explanation from various TSPs to reconcile 2021 growth with current and historical forecasts to determine whether the October 2021 J-NRUF results are reasonable.

The NPA 204/431 October 2021 Form 1 (with Assignment Restrictions) PED of December 2023 and Form 2 (without Assignment Restrictions) PED of May 2023 are realistic.

The NPA 249/705 October 2021 Form 1 (with Assignment Restrictions) PED of May 2023 and Form 2 (without Assignment Restrictions) PED of March 2023 are realistic.

The NPA 343/613 October 2021 Form 1 (with Assignment Restrictions) PED of December 2022 and Form 2 (without Assignment Restrictions) PED of November 2022 are realistic.

The NPA 403/587/780/825 October 2021 Form 1 (with Assignment Restrictions) PED of December 2022 and Form 2 (without Assignment Restrictions) PED of April 2022 are realistic.

The NPA 819/873 October 2021 Form 1 (with Assignment Restrictions) PED of September 2023 and Form 2 (without Assignment Restrictions) PED of February 2023 are realistic.