2011 NANPA **ANNUAL REPORT**

To stakeholders of the North American Numbering Plan Administration

It is with great pleasure that Neustar, Inc. ("Neustar") presents the 2011 North American Numbering Plan Administration (NANPA) Annual Report. This annual report covers NANPA activities from January 1, 2011 through December 31, 2011.

The NANPA annual report focuses on the administration of the various numbering resources of the North American Numbering Plan (NANP). As with previous annual reports, it provides a picture of the state of the NANP at the end of 2011. It also provides a useful and comprehensive description of the numerous activities undertaken by NANPA during the year. The data included in this report comes from the NANPA website where you can locate the latest numbering information.

Neustar has served as the NANPA for fourteen years. Over this time frame, we have continually focused on NANPA's core responsibilities of administration of NANP resources, coordination of area code relief planning and the collection of utilization and forecast data from service providers. Our experience enables us to completely understand the critical nature of the services that NANPA provides the Federal Communications Commission, state regulatory commissions, the telecommunications industry and the general public. We remain committed to providing high quality, neutral, third-party administration of the NANP and maintaining the trust you have placed in us.

Feel free to contact any of the NANPA staff, or me, with any comments, suggestions or concerns. Thank you for the opportunity to serve as NANPA.

Sincerely,

John C. Manning
Sr. Director, NANPA
Neustar, Inc. (Neustar)

TABLE OF CONTENTS

THE NORTH AMERICAN NUMBERING PLAN

History

AT&T developed the North American Numbering Plan (NANP) in 1947 to simplify and facilitate direct dialing of long distance calls. NANP telephone numbers are ten-digit numbers consisting of a three-digit Numbering Plan Area (NPA) code, commonly called an area code, followed by a seven-digit local number.

The NANP is an integrated numbering plan serving twenty North American countries that share its resources. Regulatory authorities in each participating country have plenary authority over numbering resources, but all participating countries, implicitly or explicitly, share numbering resources cooperatively. This approach has been successful for more than sixty-five years.

North American Numbering Plan Administration

AT&T administered shared numbering resources such as area codes until divestiture of the Bell System in 1984, when these functions were transferred to Bellcore under the Plan of Reorganization. On October 9, 1997, the Federal Communications Commission (FCC), acting on a recommendation of the North American Numbering Council (NANC), named Lockheed Martin to serve as administrator of the North American Numbering Plan (NANPA). In December of 1999, NANPA was transitioned from Lockheed Martin to Neustar. In July 2003, the FCC selected Neustar through a competitive bid to serve as NANPA for another five year term. Neustar presently serves as the NANPA under a new contract with the FCC that continues through July 2012.

Regulatory authorities in various NANP countries have named national administrators to oversee the numbering resources assigned by NANPA for use within their countries. Neustar is the national administrator for the United States (U.S.) and its territories. SAIC Canada serves as the Canadian Numbering Administrator. In other participating countries, regulatory authorities either serve as the national administrator or delegate the responsibility to the dominant carrier. NANPA, in its overall coordinating role, consults with and provides assistance to those regulatory authorities and national administrators to ensure that numbering resources are used in the best interests of all participants in the NANP.

NANPA is not a policy-making entity. In making assignment decisions, NANPA follows regulatory directives and industry-developed guidelines. The NANC, via its Numbering Oversight Working Group (NOWG), provides continuous oversight of NANPA on behalf of the NANC and evaluates NANPA's performance each year.

NANPA has three core responsibilities: administration of NANP resources, coordination of area code relief planning and collection of utilization and forecast data from service providers.

NANPA Funding

The NANPA function is performed under an FCC contract on a fixed-price basis.

Costs associated with the administration of shared numbering resources are allocated to participating countries based on population and then further adjusted based on NANPA services used by each country. Participants pay only their share of the costs of the NANPA services they require. Regulatory authorities in each participating country determine how to recover these costs.

In the U.S., which pays most of the cost, NANPA is funded by the telecommunications industry under an arrangement specified in FCC rules (47 C.F.R. §52.17). Telecommunication carriers in the U.S. complete a Telecommunications Reporting Worksheet (FCC Form 499-A) which sets out the information needed to calculate the fee. Each telecommunication carrier's end user telecommunications revenue for the prior calendar year is multiplied by a contribution factor to obtain the fee payable. The minimum fee is $25.

NANPA Neutrality

In accordance with FCC regulations, the NANPA shall be a non-governmental entity that is impartial and not aligned with any particular telecommunications industry segment. Accordingly, while conducting its operations, the NANPA may not be an affiliate of any telecommunications service provider(s) as defined in the Telecommunications Act of 1996. "Affiliate" is a person who controls, is controlled by, or is under the direct or indirect common control with another person. Further, the NANPA and any affiliate thereof, may not issue a majority of its debt to, nor may it derive a majority of its revenues from, any telecommunications service provider. "Majority" shall mean greater than 50 percent, and "debt" shall mean stocks, bonds, securities, notes, loans, or any other instrument of indebtedness.

Notwithstanding the neutrality criteria set forth above, the NANPA may be determined to be or not to be subject to undue influence by parties with a vested interest in the outcome of numbering administration and activities. The NANC, as a federal advisory committee to the FCC, may conduct an evaluation to determine if the NANPA meets the undue influence criterion.

NANP ADMINISTRATION SYSTEM

The NANP Administration System (NAS) provides an automated system for processing number resource applications, collecting resource utilization and forecast data and issuing notifications to the industry on numbering matters. Introduced in 2004, NAS is the primary tool used by federal and state regulators, service providers, service provider consultants and the NANPA in the assignment and administration of the various NANP resources.

At the end of 2011, there were 1,400 registered NAS users. Over 1,300 users were service providers or their consultants. Sixty of the users represented federal and state regulatory users. Approximately 40 "Other" users were registered in the system. Along with the NAS registered users, there were 2,700 mailing list participants. Mailing list participants receive NANP notifications but do not have access to NAS.

In 2011, NANPA deployed two new NAS firewall servers, replacing existing equipment purchased in 2003. In addition, working in cooperation with the FCC, NANPA renewed NAS hardware and software annual maintenance agreements set to expire during the second half of 2011.

Ten NAS trouble tickets were opened and closed in 2011. Four of these tickets involved issues associated with Numbering Resource Utilization/Forecast (NRUF) reporting capabilities and the proper display of information. Two trouble tickets were related to a NAS user's inability to update their NAS profiles. One issue concerned the delivery of system-generated emails. Finally, one ticket involved an incorrect OCN being associated with a specific NPA-NXX assignment. For the remaining two tickets, it was determined in one instance the problem identified by the user was an issue within the user's corporate network. In the second instance, it was determined that NAS was operating properly. One ticket held over from 2010 involving the functionality associated with a URL contained within a NANP Notification System (NNS) notice was resolved in 2011.

Below is a discussion of the NAS functionality and how the system supports the assignment and administration of NANP resources.

NAS Central Office Code Administration

NAS mechanizes central office (CO) code administration by processing the following code requests: Part 1 (Central Office Code Assignment Request form), Months to Exhaust Worksheet (required when requesting additional central office codes in a rate center) and Part 4/Part 4-PA (Confirmation of Code In-Service forms). NAS issues a Part 3 (Central Office Code Administrator's Response/Confirmation form) and a Part 5 Form, used to confirm NANPA's receipt of a Part 4. NAS allows users to complete and submit these forms on-line, as well as stores and processes these forms.

NAS auto-populates specific fields within applications with information contained in the user's profile and provides drop-down menus for certain data required on the different forms such as Operating Company Numbers (OCNs), NPAs and rate center information. System checks ensure that all required fields are populated and that the information supplied is validated prior to submission. Supporting documentation associated with an application is provided to NANPA via fax or email. Such documentation includes evidence of certification and facility readiness for initial code applications, evidence of safety valve waiver approvals, relinquishment information for transfers and documentation necessary for expedited code activations, modifications and disconnects.

Once NAS validates the application content and accepts it for processing, the applicant receives confirmation via a tracking number, indicating that the code request was successfully submitted. NAS will also permit code applicants to search for previously-submitted forms.

NAS also supports an interface with the Pooling Administration System (PAS). This interface permits the service provider to submit the information needed for a central office code request (i.e., Part 1) in a pooling rate center into PAS. PAS forwards this data to NANPA via the NAS/PAS interface. This process includes the submission of the appropriate Months-to-Exhaust Form required with any central office code growth request. Once received by NAS, the Part 1 request appears in the work item list of the NANPA Code Administrator. When the Code Administrator processes the central office code application, NAS emails the Part 3 Administrator's Response/Confirmation to the applicant and the Pooling Administrator (PA) as well as sends it via the NAS/PAS interface to PAS. The Part 4 and Part 4A (submitted by the Pooling Administrator) are also sent via the interface.

Applying On-line for Other Numbering Resources

NAS allows on-line application submissions not only for central office codes, but also for other NANP resources such as NPAs, Carrier Identification Codes (CICs), 5YY-NXX codes, 9YY-NXX codes, NPA 456-NXX codes, 800–

NANP ADMINISTRATION SYSTEM

855 line numbers and 555 line numbers. In addition, NAS provides real-time reports on the assignment status of these numbering resources. These reports are accessible through the 'Reports' section of the NANPA website.

In 2011, NPA 566 was identified as the next 5YY NPA to relieve the 500, 533 and 544 NPAs. As a result, NAS was modified to accept NXX code applications for the 566 NPA and provide reports on all assigned 5YY NPA assignments. NANPA anticipates the first 566-NXX code codes will be assigned in 2012.

NANP Notification System

The NANP Notification System (NNS) provides a vehicle for NANPA to issue notifications when significant events occur. Notifications fall under two categories: Geographic and Non-Geographic Notifications. Geographic Notifications are those issued for documents that have been generated for specific states and/or NPAs. Non-Geographic Notifications are those that relate to the entire NANP and are not related to a specific state or NPA.

Geographic notifications available to the public include:

- New processes and changes in central office code administration that affect specific states and/or NPAs;
- NPAs going into or out of jeopardy status or other changes to the jeopardy status of an NPA;
- Announcements by state regulators of changes that affect NANP processing; and
- Data related to the status of resources associated with state conservation deliberations.

Non-geographic notifications available to the public include:

- Changes in Industry Numbering Committee (INC) administration guidelines;
- Updates on the NRUF Form 502 and associated job aids, as well as procedural changes (such as the introduction of new data fields);
- Changes to NANPA processes that will affect customers;
- NANPA Planning Letters and quarterly Newsletters;
- International activities impacting the NANP and NANP Administration;
- New and/or revised NPA and NANP exhaust projections;
- Scheduled system maintenance and system availability issues; and
- Client education, new forms and tools.

In addition to sending notices, NAS also has the capability to include attachments to the notices, allowing NANPA to send certain documentation (e.g., quarterly NANPA Newsletters) directly to users. NAS also permits users to search for specific notices based upon a particular time period. Notifications concerning NPA relief planning activity remain limited to only the service provider industry and appropriate regulatory agencies.

NANPA distributed 145 notifications in 2011. The chart below illustrates the quantity of notifications distributed by category. All notifications are retained in NAS.

Notification Category	Number of Notifications
NPA Relief Planning	76
Non-Geographic	26
Planning Letters	15
NRUF	7
Jeopardy	6
INC Guidelines	6
Code Administration	5
Newsletters	4
Other Geographic	0
Total	145

NAS NRUF

NRUF reporting is a semi-annual process whereby service providers submit utilization and forecast information to NANPA for use in the development of NPA and NANP exhaust projections. NANPA collects and stores this information and provides it to the FCC and state commissions. Service providers are required to report by February 1 and August 1 of each year. Service providers may submit updates and corrections to their submissions at any time during the current reporting cycle.

NAS permits service providers to submit their utilization and forecast data via email (i.e., Excel™ spreadsheet), Electronic File Transfer (EFT) using secure FTP, compact disk (CD) and on-line. With the on-line method, service providers log into NAS and enter the data requested in the various worksheets contained in the NRUF Form 502. In addition, as many service providers have the need to submit NRUF data between reporting cycles (e.g., update forecast information), NAS permits service providers to update or modify previously-submitted utilization and

NANP ADMINISTRATION SYSTEM

forecast data for the current reporting cycle. This on-line capability is also used for reporting utilization and forecast data for the non-geographic 5YY and 9YY NPAs.

In November 2010, NANPA implemented Change Order 18, which modified the NRUF Utilization Missing Report to display thousands-blocks (NPA-NXX-Xs) as well as central office codes (NPA-NXXs) for which NRUF utilization was not reported for the applicable NRUF cycle. In addition, the NRUF Donation Discrepancy Report was introduced. It identifies a specific thousands-block that is marked as "donated" on the NRUF submission but is shown as assigned in the PA assignment data to the same OCN that indicated the thousands-block was donated. In 2011, service providers and regulators were able to take full advantage of these two reports. For example, the number of discrepancies identified via the Donation Discrepancy Report decreased by over 60% from the February to August 2011 NRUF submission cycles. Further, NANPA increased the quantity of utilization data that state regulators could view and/or download to enhance their use of the NRUF reports.

Central office code and thousands-block assignments as of the last day of the NRUF cycle (June 30 for the NRUF due August 1 or December 31 for the NRUF due February 1) are used in creating the Utilization Missing Report and Donation Discrepancy Report.

NAS Reports

NAS provides a number of real-time reports concerning NANP resource assignment and availability, including NPAs, central office codes, CICs, 5YY NXXs, 9YY NXXs and 555 line numbers. These reports are available on the NANPA website.

In addition to resource availability, NAS permits both service providers and regulators access to numerous NRUF queries and reports. Information provided in these queries is driven by the user's NAS profile. Service providers only have access to their own information, while state regulators have access to utilization and forecast data for the area codes in their respective states.

In 2011, additional information was included on daily, weekly and monthly central office code reports provided to state regulators. Specifically, the state Part 1 and Part 3 reports were modified to provide information on the type of change associated with a change request (e.g., switch change, OCN change, and central office code effective date change). NAS distributed over 16,000 of these reports in 2011.

NAS User Registration

All users of NAS are required to register in the system. The user registration process allows a user to select from a variety of resource subscriptions depending on the user's needs.

There are different types of users of NAS, including service providers, service provider consultants who are authorized to request numbering resources on behalf of service providers, federal and state regulators and other individuals or entities with a valid interest in number administration matters. For each user type, specific NAS capabilities are available for use. These capabilities include the ability to 1) submit requests for central office codes (Central Office Code Administration), 2) access NRUF capabilities, 3) register for various geographic and non-geographic notifications, 4) submit applications for other NANP resources such as CICs, 5YY NXXs, 9YY NXXs, 456 NXXs, 800–855 line numbers and 555 line numbers and 5) submit Part 4 In-Service Confirmation forms (reclamation).

All registration requests are reviewed and validated prior to approval. Once NANPA approves the registration request, the user is issued a password. In 2011, NAS passwords were modified to no longer use a lower case "L" in order to avoid confusion with the number "1." Once registered in NAS, the user is able to update and modify their profile.

NAS has been engineered with numerous security features. NAS has specified time intervals within which a user must log into the system after their profile has been approved or system access will be denied. Users are required to update their NAS passwords every 180 days. Anytime a user contacts NANPA to re-enable their profile, the user will receive a new password that must be reset by the user within 14 calendar days of when the profile was enabled. If an existing NAS user fails to reset the password, the NAS profile will be suspended. NAS will continue to send NNS notices to the user whose profile is suspended, but no other NAS-generated work item-related emails will be sent to the user. Nor will the user have access to NAS. The user will receive weekly reminders to contact NANPA to reset the NAS password. If the user fails to contact NANPA within 90 days of the date the NAS account is suspended, the profile will automatically be disabled and the user will cease to receive NNS notices.

CODE ADMINISTRATION

Overview

Code administration includes receiving and processing applications for assignment, making and recording assignments, reclaiming resources that are not placed into service, updating information associated with assigned resources and keeping the industry informed as the supply of available resources approaches exhaust. The scope of code administration includes these numbering resources:

- Numbering plan area (NPA) codes (area codes);
- Central office (NXX) codes;
- PCS 5YY codes;
- 9YY-NXX codes;
- N11 codes;
- 555-XXXX line numbers;
- Carrier identification codes (CICs);
- International inbound NPA 456-NXX codes;
- 800 855-XXXX line numbers;
- ANI II digits (Automatic Number Identification Information Integers); and
- Vertical service codes.

Subsequent sections of this report discuss each of these resources in greater detail.

Resource Report – NPA Codes

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

NPA codes, often called "area codes," are the first three digits of the 10-digit NANP telephone number. NPA codes are in NXX format, where N is any digit from 2 through 9 and X is any digit from 0 through 9. Attachment 1 to this annual report provides an inventory of NPA codes.

Most NPA codes designate specific geographic areas; for example, NPA 208 serves Idaho and NPA 402 covers a portion of Nebraska. NPA codes used in this manner are called geographic NPA codes. As of December 31, 2011, 345 geographic NPA codes were in service. Of these, 295 serve the U.S. and its territories, 30 serve Canada, and the remaining 20 serve Bermuda and the Caribbean countries participating in the North American Numbering Plan. Attachments 2 and 3 to this annual report are tables of geographic NPA codes currently in use, sorted by location and numerically.

Other NPA codes designate special services such as toll-free calling rather than geographic areas. These codes are called non-geographic NPA codes. Normally, NPA codes ending in a repeating digit, called "easily recognizable codes," are used to identify toll-free or other special services. Currently, 13 such codes are in use. No new non-geographic NPAs went into service in 2011. Attachment 4 lists the non-geographic NPA codes currently in service.

Introduction of a new geographic NPA code follows a plan and schedule approved by regulatory authorities. The plan is summarized in one or more planning letters on the NANPA website. Once an NPA code is assigned for a geographic area or special service, an implementation period follows. The most visible implementation activities include preparing the network to accept the new NPA code, introducing any required changes to the dialing plan and informing the public about how the new code is to be used. The new code is said to be "in service" when it becomes generally dialable.

CODE ADMINISTRATION

2011 Activities

Four (4) new NPA codes were introduced in 2011, as shown in the table below.

Table 1: NPAs Introduced in 2011

NPA	Date In Service	Location	Overlay?	Parent NPA	Planning Letter Number(s)	NPA Overlay Complex
249	1/15/11	Ontario, Canada	Yes	705	414, 398R1, 398	705/249
539	4/1/11	Oklahoma	Yes	918	403	918/539
929	4/16/11	New York	Yes	718/347	402	718/347/917/929
721	9/30/11	Sint Maarten	No	None	429, 423, 418, 404, 396	None

Three (3) new NPAs were assigned this past year. NPA 437 was assigned as the relief area code for the Ontario, Canada NPA complex 416/647. NPA 236 was assigned to relieve the British Columbia, Canada 250/604/778 NPA complex. NPA 639 was assigned to relieve NPA 306 in Saskatchewan, Canada.

Five (5) area codes previously assigned to relieve existing geographic area codes in California were returned to the NPA inventory when NPA relief implementation was dismissed by the state regulatory authority. As such, these area codes will be retained as reserved, future NPAs unless otherwise directed by the state commission.

As of December 31, 2011, 31 previously-assigned NPA codes remained to be introduced, as shown in Table 2. The "status" column provides the key to understanding the table. A status of "pending" indicates that the regulatory authority has yet to determine an in-service date for the new code. Typically this means that the new NPA will not be introduced until additional numbers are needed. A status of "suspended" indicates that the regulatory authority has placed the plan for introducing the new code on hold and that the plan may be canceled or revised in the future. "Scheduled" means a specific in-service date has been identified for the new NPA.

CODE ADMINISTRATION

Table 2: NPAs planned but not yet introduced (as of December 31, 2011)

New NPA	Location	Country	Anticipated In Service Date	Parent NPA	Status	Planning Letter Number(s)
227	Maryland	US		301/240	Pending	
236	British Columbia	Canada	6/1/13	250/604/778	Scheduled	428
272	Pennsylvania	US		570	Pending	409
274	Wisconsin	US	2/22/14	920	Scheduled	417 385
283	Ohio	US		513	Suspended	316 286 264
327	Arkansas	US	5/18/13	870	Scheduled	400
365	Ontario	Canada	3/25/13	289/905	Scheduled	420
380	Ohio	US		614	Suspended	317 297 290
431	Manitoba	Canada	11/3/12	204	Scheduled	419
437	Toronto	Canada	3/25/13	416/647	Scheduled	426
447	Illinois	US		217	Pending	
464	Illinois	US		708	Pending	195
531	Nebraska	US		402	Scheduled	410 397 393
557	Missouri	US		314	Suspended	303 279 261
564	Washington	US		206, 253, 360, 425	Suspended	298 239 196
582	Pennsylvania	US		814	Pending	
639	Saskatchewan	Canada	5/25/13	306	Scheduled	431
659	Alabama	US		205	Pending	289 284
667	Maryland	US	3/24/12	410/443	Scheduled	427 299 266
669	California	US	11/20/12	408	Scheduled	430 206 149
679	Michigan	US		313	Pending	227 209
689	Florida	US		407	Suspended	325 323
730	Illinois	US		618	Pending	
737	Texas	US		512	Suspended	276 233
822	NANP area			800	Pending	214
833	NANP area			800	Pending	214
844	NANP area			800	Pending	214
873	Quebec	Canada	9/15/12	819	Scheduled	425 405
959	Connecticut	US		860	Pending	255 217
975	Missouri	US		816	Suspended	304 280 262
984	North Carolina	US	4/30/12	919	Scheduled	422 306 271

CODE ADMINISTRATION

Overlays

In an overlay, two or more NPA codes serve all or part of the same geographic area. The term "overlay complex" describes the list of NPA codes included in the overlay. All of the overlays in service today are full-service overlays; that is, numbers in the overlay NPA code(s) are not restricted to any specific service or services. Three (3) new overlays were introduced in 2011. Listed in Table 3 are the overlay complexes in service as of December 31, 2011.

Table 3: NPA Overlays

Location	Overlay Complex
Alabama	256/938
Alberta	403/780/587
British Columbia	250/604/778
California	310/424
California	714/657
California	760/442
California	818/747
Colorado	303/720
Connecticut	203/475
Dominican Republic	809/829/849
Florida	305/786
Florida	407/321
Florida	954/754
Georgia	404/770/678/470
Georgia	706/762
Illinois	312/773/872
Illinois	630/331
Illinois	815/779
Illinois	847/224
Maryland	301/240
Maryland	410/443
Massachusetts	508/774
Massachusetts	617/857
Massachusetts	781/339
Massachusetts	978/351
Michigan	248/947
Mississippi	601/769
New Jersey	201/551
New Jersey	732/848
New Jersey	973/862
New York	212/646/917
New York	718/347/917/929*
North Carolina	704/980
Ohio	330/234
Ohio	419/567
Oklahoma	918/539*
Ontario	705/249*
Ontario	613/343
Ontario	416/647
Ontario	519/226
Ontario	905/289
Oregon	503/971
Oregon	541/458
Pennsylvania	215/267
Pennsylvania	412/724/878
Pennsylvania	610/484
Puerto Rico	787/939
Quebec	418/581
Quebec	450/579
Quebec	514/438
Texas	214/469/972
Texas	713/281/832
Texas	817/682
Texas	903/430
Utah	801/385
Virginia	703/571
West Virginia	304/681
Wisconsin	715/534

**New in 2011*

Dialing Plans

Each NPA has a basic dialing plan, which indicates the dialing pattern to be used for various types of calls originating in that NPA. In the U.S., dialing plans vary from state to state and from NPA to NPA. Basic dialing plans for U.S. NPAs are listed in Attachment 5 to this annual report.

Key variables in determining a dialing pattern are 1) whether or not the call originates and terminates within the same NPA, 2) whether the call is a local or toll call and 3) whether the call requires special handling (e.g., credit card, third-party billing, or operator assistance). Dialing patterns in the U.S. have been largely standardized. Local calls originating and terminating

within the same NPA are usually dialed on a seven-digit basis, omitting the NPA code, except in overlay areas where the NPA code must be dialed. Toll calls originating in one NPA and terminating in another are usually dialed with a prefix "1" followed by the ten-digit number. Special handling calls are always dialed with a prefix "0" followed by the ten-digit number.

Most of the variations in basic dialing plans involve toll calls originating and terminating within the same NPA (home NPA toll calls) and local calls originating in one NPA and terminating in another NPA (foreign NPA local calls). In states where the prefix "1" is considered to be a toll indicator, home NPA toll calls are usually dialed as "1" followed by the ten-digit number, and foreign NPA local calls are dialed using the ten-digit number without a prefix. In states where the prefix "1" is used to indicate that a ten-digit number will follow, home NPA toll calls are dialed using just the seven-digit number and foreign NPA local calls are dialed as "1" followed by the ten-digit number.

Dialing patterns within an NPA also may vary according to service provider capabilities. In addition, in many areas where NPA boundaries split local calling areas, state regulatory commissions and service provider tariffs allow seven-digit dialing across NPA boundaries, including across state lines.

Resource Report – Central Office Codes

Contact: *Beth Sprague, 571–434–5513, beth.sprague@neustar.biz*

Central office (CO) codes, also known as prefixes, exchanges, or NXX codes, are digits 4 through 6 of the 10-digit telephone number. The following discussion addresses central office codes within geographic area codes.

NANPA administers all geographic central office codes in the U.S. and its territories. The Canadian Numbering Administrator performs this function in Canada. In the remaining NANP countries, regulatory authorities are playing an increasingly active role in central office code administration as competition emerges in these countries. Contact information for regulatory and administrative personnel can be found in Attachment 9 to this annual report.

Service providers obtain numbers for their customers by applying for and receiving central office code assignments. Each central office code contains 10,000 numbers, for use in the area the code serves. Central office code requests also come from service providers through the Pooling Administrator for 1) the assignment of a Location Routing Number (LRN), 2) to replenish the inventory pool or 3) to meet a service provider's need for 10,000 consecutive telephone numbers for a single customer. NANPA tracks over 147,500 assigned central office codes in the U.S. and its territories. NANPA processed nearly 13,800 requests in 2011 (compared with 12,100 in 2010) for central office code assignments, code returns or changes to existing assignments.

The FCC, in its Number Resource Optimization (NRO) order series, established detailed criteria for the assignment of initial and growth central office codes in the U.S. and its territories. The process of applying for a central office code assignment based on FCC rules and regulations is specified in guidelines developed by the industry. The latest version of the guidelines, entitled *Central Office Code (NXX) Assignment Guidelines, ATIS0300051,* can be found at the Alliance for Telecommunications Industry Solutions (ATIS) website at **http://www.atis.org/inc/incguides.asp.**

Central Office Code Activity

Central office (CO) code monthly application and assignment activities during 2011 are shown in Table 4.

The rows in the table should be interpreted as follows:

Assignments – Applications that resulted in the assignment of a new central office code.

Changes – Applications that resulted in a change to the information associated with a code assignment, for example, the OCN or switch.

Denials – Applications not meeting the criteria for assignment as prescribed by the FCC and embodied in the central office code assignment guidelines.

Cancellations – Applications canceled or withdrawn by the applicant. These applications are not counted in the total quantity of applications processed.

Canceled Disconnects – Applications requesting the return (disconnect) of an assigned code that were canceled after NANPA issued the Part 3 approving the return.

Disconnects – Applications requesting the return (disconnect) of an assigned code.

Reservations – Applications requesting and receiving a code reservation.

Total Processed – Total quantity of applications processed by NANPA.

Pooling Pass-Thru – Applications processed by NANPA that came through the Pooling Administrator.

CODE ADMINISTRATION

Table 4: 2011 Monthly CO Code Activity

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Assignments	152	243	300	184	251	225	253	279	304	238	289	171	2,889
Changes	379	813	1,158	1,064	1,265	965	677	1,133	614	324	503	441	9,336
Denials	90	61	85	91	112	41	106	58	91	78	81	47	941
Cancellations (Note 1)	9	54	29	20	10	15	4	10	4	7	5	9	176
Canceled Disconnects (Note 1)	0	0	1	2	1	2	2	0	0	4	0	0	12
Disconnects	35	22	22	32	272	18	41	24	10	27	25	88	616
Reservations	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Processed	656	1,139	1,565	1,371	1,900	1,249	1,077	1,494	1,019	667	898	747	13,782
Pooling Pass-Thru	489	718	1,038	914	1,040	797	686	1,040	785	571	754	609	9,441

Note 1 – Applications that are canceled are not included in the total quantity of applications processed.

The total quantity of applications processed in 2011 (13,782) was higher than in 2010. While the quantity of assignments was up approximately 100 codes, the number of CO code disconnects doubled in 2011 (from 310 to 616 returns). This was due in large part to a single entity returning over 260 codes. Further, the quantity of code change requests increased by over 1,000 applications.

NANPA assists the FCC in certain aspects of the Debt Collection Improvement Act of 1996. Specifically, NANPA withholds the assignment of numbering resources to an entity identified by the FCC as delinquent in their payments to the Commission. In 2011, seven (7) central office code assignment requests were denied by NANPA in compliance with this requirement.

Central Office Code Activity (Year over Year)

NANPA also tracks year over year assignment data to identify any trends in CO code assignment rates. Table 5 shows the total quantity of CO codes assigned over the last ten years. Also included is the net demand for the year, reflecting the total number of codes assigned less the number of codes returned.

Table 5: Year over Year CO Code Assignments

Year	Annual Gross CO Code Demand	Annual Net CO Code Demand	Difference
2002	7,178	3,574	(3,604)
2003	3,245	1,457	(1,788)
2004	3,128	2,144	(984)
2005	3,312	2,307	(1,005)
2006	4,079	3,413	(666)
2007	3,216	2,467	(749)
2008	2,946	2,162	(784)
2009	2,144	1,610	(534)
2010	2,795	2,484	(311)
2011	2,889	2,273	(616)

CODE ADMINISTRATION

Central Office Code Administration Quality Measurements

Central office code administration quality results for 2011 are summarized in Table 6. A detailed description of the quality measurements follows.

The table shows three primary measurements:

Application processing – NANPA is required to process central office code applications within seven (7) calendar days. The table shows the percentage of applications processed within 7 calendar days, the number of applications exceeding the 7 calendar day period and, for those applications requiring more than 7 calendar days, the "average number of days late." The results in the table show uniform, high quality processing.

Codes assigned without a code conflict or reject – A 'Code Conflict' occurs when a code assigned by NANPA cannot be placed into service due to a dialing conflict. A 'Code Reject' occurs when a code assigned by NANPA must be replaced because the code originally assigned cannot be placed into service.

Telephone calls – Code Administrators are required to respond telephone calls by no later than the end of the next business day. The table shows the percentage of telephone calls returned during the required period along with the "average days late" for calls returned outside of the required period.

Table 6: 2011 CO Code Administration Quality Results

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Percent of central office code applications processed in 7 calendar days	99.7%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Number of applications exceeding 7 calendar days	2	0	0	0	0	0	0	0	0	0	0	0
Average days late for applications exceeding 7 calendar days	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent of central office codes assigned without code reject or conflict	100%	100%	100%	100%	100%	100%	99.6%	100%	100%	100%	99.3%	100%
A. CO code rejects	0	0	0	0	0	0	1	0	0	0	2	0
B. CO code conflicts	0	0	0	0	0	0	0	0	0	0	0	0
Percent of administrator phone calls returned by end of next business day	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total number of administrator calls	45	50	47	50	52	45	54	59	35	25	30	30
Average days late for phone calls returned late	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CODE ADMINISTRATION

2011 Activities

Below is a summary of central office code administration activities in 2011.

Maximizing the Quantity of Available CO Codes – Throughout 2011, NANPA worked with various state regulators and service providers to maximize the quantity of available CO codes in preparation for area code relief. Examples include the following:

NANPA worked with the California Public Utilities Commission and various service providers to identify potential recoverable NXXs in advance of relief planning in the 408 NPA and in various other NPAs in California. In New Hampshire, over 40 abandoned codes in the 603 NPA were reclaimed as a result of NANPA working with the New Hampshire Public Service Commission staff and service providers to identify and remove ported telephone numbers prior to the return of the codes. NANPA investigated seven-digit, cross-NPA dialing arrangements in North Carolina and updated NAS to ensure it accurately reflected available resources in all 919 NPA rate centers.

In Maryland's 410/443 overlay complex, NANPA worked with service providers to identify CO codes that could be made available for assignment. This effort created a sufficient supply of CO codes to meet demand until the new 667 NPA became available.

Abandoned CO Codes – NANPA worked with the state regulators in identifying CO codes where the assigned service provider is no longer in business. In 2011, NANPA coordinated the recovery of 70 abandoned codes with regulators in ten different states.

Assignment of CO Codes for LRNs – NANPA assisted numerous service providers and state regulators in the transfer of a central office code from one service provider to another service provider in need of a code for a Location Routing Number (LRN). This effort included NANPA identifying individual codes with low utilization that did not serve as an LRN (as well as meeting the other conditions described in the Central Office Code (NXX) Assignment Guidelines, ATIS- 0300051) and coordinating between the involved service providers in transferring the identified code. Through this effort, the assignment of a CO code is avoided, thus delaying the exhaust of an area code.

Managing Jeopardies – When the supply of codes in a particular NPA is at risk of exhausting before a new area code or other relief measure can be introduced, NANPA declares "jeopardy" in that NPA. When jeopardy is declared, code allocations are initially set at 3 codes per month. The industry, with the assistance of NANPA Code Administration and NPA Relief Planning, develops local industry jeopardy procedure options at a meeting convened by NANPA. Once determined, local jeopardy procedures are posted on the NANPA website, **www.nanpa.com.**

At the end of 2011, six (6) NPAs were in jeopardy. Twelve (12) area codes in California were removed from the list of jeopardy NPAs. One NPA complex (Maryland 410/443) was placed in jeopardy in 2011. The remaining NPAs in jeopardy at the end of 2011 include NPA 305 (Florida), NPA 408 (California), NPA 570 (Pennsylvania) and NPAs 217 and 618 (Illinois).

Reclamation – Each central office code assignment has an associated "effective date" when the code will be placed in service. The assignment guidelines require that the code be placed in service no later than six months after the original effective date. The assignee confirms that the code is in service by submitting a Part 4 to NANPA. NANPA responds to the code applicant by sending the "Administrator's Response – Receipt of the Part 4." If a Part 4 has not been received by NANPA during the first five months following the original effective date, NANPA will send a reminder notice to the code assignee.

NANPA tracks code assignment effective dates and, if the Part 4 is not received within the six-month period following the effective date, the code is considered to be delinquent and NANPA notifies the appropriate regulatory authority. The FCC NRO orders delegated authority to the states to determine whether or not delinquent codes should be reclaimed. The FCC makes reclamation decisions for those states that decided not to participate in the process. The NANPA website provides detailed information about the reclamation process, including contact information for each participating state and the FCC.

To measure reclamation effectiveness, NANPA monitors the percentage of delinquent codes on which it begins the reclamation process, along with the number of codes recovered each month. The recovery of a code must be directed by the appropriate regulatory authority. NANPA also monitors the reclamation lists provided to the states/FCC to ensure there are no errors or discrepancies. Table 7 reflects the reclamation activity in 2011.

CODE ADMINISTRATION

Table 7: 2011 CO Code Reclamation Quality Results

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Percentage of applicable codes on which reclamation was started	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Number of codes for which a Part 4 was not rec'd 180 days after NANPA effective date (Note 1)	54	67	67	28	24	32	15	26	13	15	20	47
Number of codes on which reclamation started late	0	0	0	0	0	0	0	0	0	0	0	0
Codes recovered (Note 2)	0	2	2	0	0	0	0	0	0	0	46	1
Number of Reclamation Discrepancies Reported by State Commission(s) Regarding Monthly Reclamation List	0	0	0	0	0	0	0	0	0	1	0	0

Note 1: Quantity of codes for which NANPA did not receive a Part 4 in service confirmation 180 days after the original effective date.

Note 2: This measurement shows the number of codes recovered through the reclamation process (the state or FCC directed NANPA to reclaim the code).

Resource Report – 5YY-NXX Codes

Contact: *Nancy Fears, 830–632–5979, nancy.fears@neustar.biz*

NANPA assigns 5YY-NXX codes to carriers that provide personal communications service (PCS) to customers. The assignment guidelines, which are entitled *Personal Communications Service (PCS) 5YY NXX Code Assignment Guidelines, ATIS 0300052* and may be downloaded from the ATIS website **(http://www.atis.org/inc/incguides.asp),** define personal communications service as:

> ... a set of capabilities that allows some combination of personal mobility, terminal mobility, and service profile management. It enables each personal communication service user to participate in a user-defined set of subscribed services, and to initiate and/or receive calls on the basis of some combination of a personal number, terminal number, and a service profile across multiple networks at any terminal, fixed or mobile, irrespective of geographic location. Service is limited only by terminal and network capabilities and restrictions imposed by the personal communication service provider.

It should be noted that the 5YY resource is not portable; the NXX identifies the service provider.

There were three 5YY NPAs in-service in 2011: NPAs 500, 533 and 544. During 2011, NANPA assigned 757 new 5YY-NXX codes (yielding an average assignment rate of 63 codes per month). This compares with 717 5YY-NXX codes assigned in 2010.

At the end of 2011, a total of 2,312 5YY-NXX codes were assigned. Fifty (50) 5YY-NXX codes were reclaimed or returned in 2011 and 61 codes remained available for assignment. Twenty-seven 5YY-NXX codes are not available for assignment (5YY-555 and all 5YY-N11). Based on NRUF forecast data and assignment information, NANPA projects the need for multiple 5YY NXXs over the next few years. Consequently, in July 2011, the industry reserved 22 additional 5YY NPA codes to go along with the four NPAs (522, 566, 577, 588) already set-aside for relief of the 5YY resource: 521, 523, 524, 525, 526, 527, 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578 and 589.

In 2011, NANPA issued two planning letters addressing the status of the 5YY resource, its projected exhaust time frame and the announcement that the 566 NPA was the next 5YY NPA code.

CODE ADMINISTRATION

NANPA continues to provide information concerning assignments, updates and reclamations for inclusion in the Telcordia® LERG™ Routing Guide. NANPA also solicits trouble reporting contact information for 5YY-NXX assignments and forwards the information to the Next Generation Interconnection Interoperability Forum (NGIIF) as required.

Resource Report – 9YY-NXX Codes

Contact: *Nancy Fears, 830–632–5979, nancy.fears@neustar.biz*

9YY numbers are used for premium services, with the cost of each 9YY call billed to the calling party. NANPA assigns these numbers according to industry-developed assignment guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The guidelines are entitled *9YY NXX Code Assignment Guidelines, ATIS-0300060.*

During 2011, there were no new 900-NXX assignments and 23 codes were reclaimed or returned.

Forty-seven (47) 900-NXX codes were not available for assignment as of December 31, 2011. These include 900-N11 (8) and 39 codes reserved for Canadian use.

At the end of 2011, a total of 100 900-NXX assignments were in effect. The number of 900-NXX codes available for assignment was 653. With the quantity of available 900 NXX codes, exhaust of the 900 NPA is not an issue at this time.

NANPA continues to provide information about assignments, updates and reclamations for inclusion in the LERG Routing Guide. NANPA also solicits trouble reporting contact information for 900-NXX assignments and forwards the information to the NGIIF as required.

Resource Report – 555 Line Numbers

Contact: *Nancy Fears, 830–632–5979, nancy.fears@neustar.biz*

The intended use for 555 line numbers, in the format 555-XXXX, where X is any digit from 0 through 9, includes the provisioning of information services, but may grow to include a broad range of existing and future services as well. Assignment of 555 line numbers began in August 1994. NANPA assigns these numbers according to industry-developed assignment guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp**. The guidelines are entitled *555 NXX Assignment Guidelines, ATIS-0300048.*

During 2011, there were no new 555 national line numbers assigned by NANPA and 47 national line number assignments were reclaimed.

At the end of 2011, a total of 7,553 national assignments and 386 non-national line number assignments (291 actual line numbers, assigned to one or more assignees in one or more NPAs) were in effect. In addition, 116 line numbers remain in "dispute" status and 100 line numbers are reserved for the entertainment/advertising industries. At year end, 1,940 555 line numbers were available for assignment.

As of the end of 2011, 121 555 line number assignments have been identified by NANPA as "abandoned" (555 line numbers assigned to individuals or companies whose telephone and fax numbers are no longer in service and/or letters sent via courier service to these individuals or companies were returned to NANPA as undeliverable).

The current assignment trend indicates no concern for the exhaust of the 555 resource.

Resource Report – Carrier Identification Codes

Contact: *Nancy Fears, 830–632–5979, nancy.fears@neustar.biz*

Carrier Identification Codes (CICs) are four-digit codes used to route and bill telephone traffic. Typically, an entity acquires a CIC assignment by purchasing Feature Group B (FG B) or Feature Group D (FG D) access from an access service provider. NANPA also assigns FG D CICs to "switchless resellers" without the requirement to purchase direct FG D trunk access before applying for a CIC. Finally, billing and collection clearinghouses ("BC clearinghouses") are allowed to obtain FG D and "matching" FG B CICs without the requirement to purchase direct access. A "BC clearinghouse" is only allowed to apply for a CIC under circumstances when the use of an ABEC (Alternate Billing Exchange Code) is not permitted as an identifier and/or when the use of an ABEC has been determined as technically non-feasible.

In the U.S., all applicants apply to NANPA directly for CIC assignments (via NAS). If the applicant is a long distance carrier, the access provider must separately provide NANPA with a copy of the Access Service Request (ASR) to verify that FG D trunk access has been ordered. If the CIC applicant is a Local Exchange Carrier (LEC), incumbent LEC (ILEC) or competitive LEC (CLEC), a copy of the authorization from a state regulatory commission granting the applicant authority must separately be provided to NANPA in support of their CIC application. If the applicant is a switchless reseller, it must separately

provide NANPA with documentation that validates "switchless reseller" status. State regulatory commission certification is required unless the state does not issue switchless reseller certification. If the state does not issue such certification, a written statement by an officer of the applicant company will be accepted to verify "switchless reseller" status. In Canada, companies apply for CICs to the Canadian Numbering Administrator, who verifies that Canadian regulatory requirements have been met. The CNA then submits the application to NANPA via NAS on behalf of the applicant.

Industry-consensus guidelines for the administration of CICs may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The assignment guidelines encourage LECs providing FG B and/or FG D access service, particularly LECs with more than 30 CICs programmed in their switches, to submit Access Provider semi-annual CIC access/usage reports to NANPA for analysis.

Information contained in these reports serves as the basis for NANPA's reclamation of CICs in an ongoing effort to avoid exhaust of the resource. If no access provider reports access/usage for a given CIC, NANPA initiates reclamation procedures. All CIC assignees, including switchless resellers and "BC clearinghouses", are expected to submit semi-annual Entity Access/ Usage reports to NANPA. These reports demonstrate whether access or usage has been established as well as document that assigned CICs are being used in accordance with the CIC Assignment Guidelines. To initiate reclamation, a letter (sent via certified mail or by courier service for delivery verification purposes) advises the assignee of record that trunk access/usage must be established with an access provider within 60 days from the date of the letter, or, alternatively, the assignee of record must have the access service provider supply NANPA with verification that trunk access/usage was previously established (this allows a reporting error to be detected before reclamation of a CIC is finalized). At the end of the 60-day period, if the requisite information regarding trunk access/usage has not been provided, the CIC is reclaimed. In some cases, the Post Office or courier service returns NANPA's reclamation letter as "undeliverable." In these cases, NANPA advises the Industry Numbering Committee (INC) of the inability to contact the assignee, that no trunk access/usage is being reported and that the CIC will be reclaimed and made available for reassignment following the idle period required by the guidelines (12 months), unless the INC directs otherwise.

Maintaining accurate assignment records and entity contact information is an ongoing challenge for NANPA due to abandoned CICs and the high volume of mergers, acquisitions, asset purchases and bankruptcies that occur in the telecommunications industry. Obtaining documentation on and verification of these activities is often difficult, but crucial to the integrity of information contained in the CIC assignment databases.

FG D CIC Activity

During 2011, NANPA assigned 59 new FG D CICs, yielding an average assignment rate of 4.9 codes per month. US/Canadian switchless resellers received 10 of these assignments. Just as important, NANPA continued its concerted effort in 2011 to investigate and reclaim FG D CICs that were "abandoned" (assigned to a company no longer in business and/or not in service). Our efforts resulted in the return/reclamation of 36 FG D CICs.

223 codes from the entire FG D CIC resource are not available for assignment. These include CICs 9000–9199, which are available to all carriers for intranetwork use only. Also included are CICs 0000 and 5000, used exclusively for testing, 0911 and twenty CICs in the formats X411 and 411X, which have been marked unassignable at the direction of the FCC.

At the end of 2011, 2,038 FG D CICs were assigned in total, leaving 7,739 FG D CICs available for assignment. Based on the 2011 average monthly assignment rate, the projected exhaust for the FG D CIC resource is over 100 years. It should be noted that reclaimed/returned FG D CIC assignments are not factored into this projection and that this projection is based on current circumstances; i.e., the FCC limit of 2 FG D CICs per "entity."

At the end of 2011, NANPA identified 199 FG D CICs as "abandoned" (CICs assigned to companies no longer in business, or CICs assigned to companies that have sold assets to other entities, or companies that have been acquired by other entities through mergers/ acquisitions). These CICs are now listed in NANPA's records with no valid contact information. The assignee of these CICs and/or the companies that have acquired the CIC assignee company(ies) have failed to adhere to the CIC Assignment Guidelines by providing NANPA with legal documentation of the activities described in this paragraph. NANPA has been unable to reclaim these "abandoned" CICs since activity (FG D access and/or usage) appeared on access providers' 2011 semi-annual CIC reports.

CODE ADMINISTRATION

Table 8: Monthly FG D assignments, denials and reclamations

Month	Assigned	Reclaimed/Returned Codes	Applications Denied	Applications Withdrawn
January	8	1	2	2
February	5	7	0	2
March	13	4	1	4
April	4	5	0	3
May	4	4	1	0
June	1	0	0	0
July	1	1	0	0
August	10	8	5	0
September	6	2	3	0
October	1	1	1	0
November	3	2	3	2
December	3	1	1	0
Total	**59**	**36**	**17**	**13**

FG B CIC Activity

During 2011, 4 FG B CICs were assigned by NANPA and 1 FG B CIC was returned or reclaimed. At the end of 2011, 275 FG B CICs were assigned in total. The potential exhaust of the FG B CIC resource is not a concern based on the current rate of assignment.

As of the end of 2011, NANPA had identified 58 FG B CICs as "abandoned" (CICs assigned to companies no longer in business, or CICs assigned to companies that have sold assets to other entities, or companies that have been acquired by other entities through mergers/acquisitions). These CICs are now listed in NANPA's records with no valid contact information. The assignee of these CICs and/or the companies that have acquired the CIC assignee company(ies) have failed to adhere to the CIC Assignment Guidelines by providing NANPA with legal documentation of the activities described in this paragraph. NANPA has been unable to reclaim these "abandoned" CICs since activity (FG B usage and/or access) appeared on access providers' 2011 semi-annual CIC reports.

Table 9: Monthly FG B assignments, denials and reclamations

Month	Assigned	Reclaimed/Returned Codes	Applications Denied	Applications Withdrawn
January	0	0	0	0
February	0	1	0	0
March	1	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	0	0	0	0
December	3	0	0	0
Total	**4**	**1**	**0**	**0**

CODE ADMINISTRATION

Resource Report – N11 Codes

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

N11 codes, listed with their descriptions in the table below, are the only valid three-digit telephone numbers in the NANP.

The FCC administers N11 codes in the U.S., pursuant to the Telecommunications Act of 1996. The Canadian Radio-television and Telecommunications Commission (CRTC) administers N11 codes in Canada. It should be noted that 411 and 611, although long used for the purposes indicated in the table below, have not been formally assigned by the FCC in the U.S. at this time.

There was no N11 assignment activity in 2011.

Table 10: N11 Code Assignments

N11 Code	Description
211	Community information and referral services
311	Non-emergency police and other governmental services (U.S.)
411	Local directory assistance
511	Traffic and transportation information (U.S.); Provision of Weather and Traveler Information Services (Canada)
611	Repair service
711	Telecommunications relay service (TRS)
811	Access to One Call Services to Protect Pipeline and Utilities from Excavation Damage (U.S.); Non-Urgent Health Teletriage Services (Canada)
911	Emergency

Resource Report – 456-NXX Codes

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

The purpose of NPA 456 and its associated NXXs is to enable the routing of inbound international calls for carrier-specific services, particular to that service provider's network, to and between countries served by the NANP. NANPA assigns 456-NXX codes to carriers under industry-developed guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The guidelines are entitled *International Inbound NPA (INT/NPA/NXX) Assignment Guidelines, ATIS-0300049.*

No 456-NXX assignments were requested during 2011. A complete list of 456-NXX assignments may be found on the NANPA website, **www.nanpa.com.**

Resource Report – 800–855 Numbers

Contact: *Nancy Fears, 830–632–5979, nancy.fears@neustar.biz*

800–855 numbers are used only for the purpose of accessing public services on the Public Switched Telephone Network (PSTN) intended for the deaf, hard of hearing or speech impaired. NANPA assigns these numbers in accordance with industry-developed guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The guidelines are entitled *800–855 Number Assignment Guidelines, ATIS-0300047.*

There were seven (7) 800–855 number assignments made in 2011. A complete list of 800–855 assignments may be found on the NANPA website, **www.nanpa.com.**

Resource Report – Automatic Number Identification "II" digits

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

Automatic Number Identification (ANI) Information Integers ("II") digits are digit pairs sent with the originating telephone number. The digit pair identifies the type of originating station; e.g., plain old telephone service (POTS) or hotel/motel. NANPA assigns these numbers in accordance with industry-developed guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The guidelines are entitled *Automatic Number Identification (ANI) Information Digits Codes, ATIS-0300064.*

Requests for the assignment of ANI II digits are referred to the INC for consideration. If the INC approves the request, NANPA makes the assignment. A complete list of ANI II assignments may be found on the NANPA website, **www.nanpa.com.**

No ANI II digit assignments were made in 2011.

Resource Report – Vertical Service Codes

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

Vertical Service Codes (VSCs) are customer-dialed codes in the *XX or *2XX dialing format for touch-tone and the 11XX or 112XX dialing format for rotary phones. They are used to provide customer access to features and services (e.g., call forwarding, automatic callback, etc.) provided by network service providers such as local exchange carriers, interexchange carriers or commercial mobile radio service (CMRS) providers. NANPA assigns VSCs in accordance with industry-developed guidelines that may be found on the ATIS website at **http://www.atis.org/inc/incguides.asp.** The guidelines are entitled *Vertical Service Code Assignment Guidelines, ATIS-0300058.*

No new VSCs assignments were made in 2011. A complete listing of assigned VSCs is available on the NANPA website, **www.nanpa.com.**

NPA RELIEF PLANNING OVERVIEW

Contacts:
Wayne Milby, 804–795–5919, wayne.milby@neustar.biz
Joe Cocke, 805–520–1945, joe.cocke@neustar.biz
Tom Foley, 571–434–5726, thomas.foley@neustar.biz

NPA relief planning precedes the introduction of new geographic area codes. The relief planning process is described in detail in the document entitled *NPA Code Relief Planning and Notification Guidelines, ATIS-0300061,* which can be found on the ATIS website at **www.atis.org/inc/incguides.asp.**

NANPA plays a key role in NPA relief planning. At least 36 months before the anticipated exhaust of an NPA in the U.S. or its territories, NANPA's relief planners notify the local industry and state regulatory commission of the impending exhaust and convene a preliminary planning meeting to discuss local dialing arrangements, communities of interest and other pertinent issues to identify viable methods of relief. Using input from this meeting, relief planners prepare and distribute an initial planning document (IPD) for consideration that outlines several alternative relief plans. NANPA then facilitates an industry meeting (more than one if necessary) to consider the options presented in the IPD and any others that may be proposed. NANPA next prepares a petition explaining the options considered and describes the recommended relief option(s) if the industry has reached consensus to do so. The relief planner submits the petition on behalf of the industry to the state regulatory commission for approval.

The respective state commission reviews the proposed plan and often conducts public hearings and invites public comment. When that occurs, the relief planner actively participates and may be called upon to testify relating to various aspects of the proposed relief plan. After the state commission has approved a plan, which may not be one of the options considered by the industry, NANPA requests assignment of the NPA relief code to implement the plan, and then convenes and facilitates the first industry implementation meeting. Using decisions made at the initial implementation meeting, the relief planner then prepares and publishes a planning letter on the NANPA website. The planning letter announces the method of relief selected, the identity of the new area code, the schedule for relief, the new dialing plan, the test number for the new area code and, in the case of a split, a list of the prefixes moving to the new area code and those remaining in the area code that is receiving relief.

NANPA's relief planners interface closely with Central Office Code Administrators and Pooling Administrators. Relief planners schedule and facilitate jeopardy conference calls and are closely involved in decisions about the timing of relief activities involving central office codes.

In 2011, NANPA initiated no new NPA relief planning projects. NANPA did file two NPA relief petitions with the appropriate state public service commission (California and Tennessee). NANPA conducted four initial or follow-up NPA implementation meetings (California, North Carolina, Arkansas and Maryland) as well as facilitated two pending petition review meetings for a petition not yet filed with the state regulatory commission (Indiana). NANPA assisted the industry in the development of implementation schedules for the introduction of new area codes in North Carolina, Maryland and California. NANPA also responded to state requests to provide area code maps of identified relief options, conducted four (4) jeopardy review meetings and participated in 14 state-sponsored hearings and technical workshops concerning area code relief (Pennsylvania and California).

NANPA relief planners facilitated 12 meetings, conducted entirely by conference calls. They shadowed 25 industry NPA relief implementation meetings. To keep the industry informed, NANPA issued 76 notifications using the NNS, which included publishing monthly reports concerning the projected exhaust of two area codes in Pennsylvania. NANPA also created and published seven (7) planning letters describing the details of ongoing geographic area code relief projects.

In 2011, NANPA communicated with every state concerning number administration and NPA relief planning, to include face-to-face meetings with ten (10) state regulatory authorities. NANPA also assisted the newest NANP-member country by meeting with representatives from the Sint Maarten regulatory authority and telecommunications service providers in preparation for Sint Maarten joining the NANP.

Relief planning quality measurements

Industry guidelines prescribe time limitations for the completion of many NPA relief planning activities. To quantify the timeliness of its relief planning work, NANPA has established objectives for the completion of many additional activities, as shown in Table 11. In 2011, NANPA completed 100% of the 26 tracked activities on schedule.

NPA RELIEF PLANNING OVERVIEW

Table 11: Relief planning timeliness

Performance Measurement	Events in 2011	Completed on time	% on time completion
Initiated NPA relief planning within 36 months of NPA exhaust.	0	0	N/A
Distributed initial industry meeting notice within 8 weeks of relief meeting date.	1	1	100%
Distributed IPD within 4 weeks of relief meeting date.	0	0	N/A
Distributed meeting minutes within 2 weeks or date set at the meeting.	12	12	100%
Held minutes review by date set at the meeting.	1	1	100%
Filed relief-related petitions by date set at the meeting.	1	1	100%
Requested relief NPA assignment within 1 week of regulatory approval.	0	0	N/A
Issued press release within 2 weeks after relief NPA code assignment.	0	0	N/A
Held implementation meeting within 45 days after relief NPA code assignment.	0	0	N/A
Held jeopardy meeting within 30 calendar days after jeopardy declaration.	1	1	100%
Posted planning letter or notice of industry meeting on website within 3 weeks after implementation meeting.	2	2	100%
Posted planning letter on website within 10 business days after regulatory change.	8	8	100%
Distribute IPD 4 weeks after date jeopardy was declared, if relief planning has not been initiated.	0	0	N/A
Hold industry relief planning meeting 8 weeks after date jeopardy was declared, if relief planning has not been initiated.	0	0	N/A
Totals	**26**	**26**	**100%**

Relief planners also measured the promptness of their responses to voicemail and email messages. Results showed that NANPA relief planners responded to 100% of client voicemails and email messages by no later than the end of the next business day.

Customer Survey Feedback

In 2011, NANPA routinely conducted surveys to measure the quality of conference calls where most of the industry's issues are discussed and resolved.

During a one-month sampling period in each quarter, meeting participants rated NANPA's performance in ten areas (using the same rating scale described previously), such as timely notification, audio quality, facilitation skills and meeting preparation. The survey covered five conference calls, including topics such as area code jeopardy, minutes review, and regulatory filing review and implementation meetings. The participants on the sampled conference calls responded to the survey and rated their overall satisfaction with NANPA's conduct of the calls an average of 4.89 out of a maximum of 5.00 (See Table 12). The 2011 ratings for the questions asked in the survey were consistent with previous year ratings, with average score for all questions on all the calls of 4.87 out of 5.00.

NPA RELIEF PLANNING OVERVIEW

Table 12: NPA Relief Planning conference call satisfaction survey

Question	2011	2010
Overall satisfaction with NANPA's conduct of the conference call?	4.89	4.88
NANPA conducted the conference call in an impartial manner?	4.96	4.88
NANPA provided adequate notice of the conference call?	4.93	4.87
Adequate opportunity to express opinions during the call?	4.95	4.86
NANPA was well prepared for the meeting?	4.95	4.89
NANPA was an effective facilitator on the call?	4.85	4.84
Quality of documents and information was satisfactory?	4.85	4.86
Information provided prior to the call was sufficient?	4.88	4.88
Easily able to obtain documents?	4.68	4.79
The conference call facilities (e.g., sound quality) were satisfactory?	4.73	4.76

Relief Planning Process

NANPA's relief planners use the following practices to ensure an efficient and effective relief planning process:

- A "pre-planning" conference call precedes preparation of each IPD, allowing those with useful local knowledge to contribute to the development of better relief options. Rate center lists are now distributed much earlier in the relief planning process, allowing the industry and state regulatory commissions more time to study this information prior to relief planning meetings.
- All meetings are conducted by conference call to reduce travel costs and increase participation, except in unusual circumstances and/or at the specific request of the industry. In 2011, NANPA introduced the use of an on-line meeting capability with certain relief planning meetings, allowing the participants to view relevant documentation and where appropriate, make real-time updates.
- At the beginning of each conference call, the NANPA relief planner explains the manner in which the consensus process will be applied in a uniform, impartial manner in the event participants choose to leave the call unannounced.
- To expedite the meeting process, participants are notified in meeting announcements that they are responsible for downloading and reviewing the documents to be discussed prior to the meeting. NANPA does not distribute documents while conference calls are in progress.
- NANPA facilitates industry meetings to review and modify the quantity of codes set aside for number pooling when an NPA is in jeopardy. Per industry guidelines, NANPA re-opens jeopardy procedures in order to permit the industry to determine via consensus if modifications to those procedures are needed.
- NANPA includes historical relief planning information in NPA jeopardy meeting announcements, providing attendees access to important background information that will be of assistance during the meeting.
- NANPA shadows industry NPA relief implementation subcommittee meetings to stay informed on the progress of the implementation as well as to gather and share knowledge gained via these activities with other similar relief efforts.
- NANPA publishes monthly reports on the status of NPA relief projects. In addition, during the NPA relief planning process, a state regulator or the industry may specify further action that NANPA is required to undertake based on a related event or trigger point expected to occur sometime in the future. NANPA provides a report that lists these events and associated activities.

NUMBERING RESOURCE UTILIZATION/FORECAST

Contact: *Al Cipparone, 571–434–5789, al.cipparone@neustar.biz*

The collection of utilization and forecast data, known as Numbering Resource Utilization/Forecast (NRUF) Reporting, has been in effect since 2000. Per the FCC, NANPA is charged with collecting and reporting this data. Service providers are required to report utilization and forecast data twice a year. Utilization data includes the quantity of assigned, intermediate, aging, administrative and reserved numbers. Forecast data typically is comprised of a five-year forecast of the quantity of thousands-blocks and/or codes by rate center. The FCC also requires access to disaggregated NRUF data by state regulatory commissions for heightened reporting enforcement, including the responsibility to withhold numbering resources from service providers that fail to file utilization and forecast reports.

NANPA collects, sorts and stores NRUF data submitted by service providers. Data may be submitted via NAS, email (i.e. Excel™ workbook), Electronic File Transfer (EFT), compact disk or paper. In 2011, NANPA processed 15,600 NRUF submissions, the third highest number of submissions since NRUF was initiated ten years ago. NANPA processed these submissions and provided a confirmation of receipt, to include any identified errors, within seven calendar days. In addition to processing submissions, the NRUF administrators also responded to over 2,000 telephone calls and email inquiries.

In November 2010, NANPA enhanced the Utilization Missing Report (UMR) available in NAS by including both thousands-blocks (NPA-NXX-X) as well as central office codes. Using data obtained from the Pooling Administrator, the system compares thousands-block assignment data with the utilization data collected from service providers during the semi-annual NRUF reporting process. Through this comparison, NANPA can identify the assigned thousands-blocks for which no utilization data was provided and contact the service provider to which the thousands-block is assigned to request that it submit appropriate utilization information.

The Donation Discrepancy Report (DDR) was also added to NAS in 2010. This new report identifies a specific thousands-block marked as “donated” on the NRUF submission but is shown as assigned in the Pooling Administrator assignment data to the same Operating Company Number (OCN) that indicated the thousands-block was donated. Service providers use this report to identify discrepancies between their resource inventory and that of the Pooling Administrator so that appropriate steps can be taken to resolve these differences.

A concerted effort was made in 2011 to educate the service providers and state regulators about the UMR and DDR. NANPA created and distributed industry-wide notifications encouraging service providers to review these two reports and take appropriate steps to immediately address any missing utilization or discrepancies. On April 1, 2011, NANPA completed a one-time update to the thousands-block assignment data used for the UMR and DDR, which permitted any corrections recorded by the Pooling Administrator to the block assignment data in the first quarter of 2011 to be appropriately reflected in these reports. In addition, NRUF filing tips, to include a reminder to file on all assigned codes/blocks regardless of the effective date, for rural carriers to use the U1/U3 for pooling areas and the availability of the DDR were also distributed. A list of Frequently Asked Questions concerning the UMR and DDR appeared in the 1Q11 NANPA Newsletter. Finally, to assist state regulators with the review of these reports, NANPA increased the viewable/downloadable size of NRUF utilization data for state regulators from ten-thousand to sixty-thousand lines of data.

In conjunction with the reports noted above, NANPA conducted NAS NRUF training sessions for service providers and state regulators. Sessions were held with service providers to review the overall NRUF reporting process. Included in this review was an examination of the Utilization Missing Report and the Donation Discrepancy Report and the steps they could take to address the data contained in the reports. Over 70 individuals representing 60 service providers participated. A separate training session was conducted for state regulators in which NANPA provided an overview of its process for contacting service providers with missing utilization data in order to obtain the missing information. The training incorporated the use of an on-line meeting capability to allow participants to follow a demonstration of various NAS NRUF capabilities. Applicable training documentation updated in support of the educational efforts included the NRUF On-Line User Guide, Geographic Job Aid and Non-Geographic Job Aid.

NUMBERING RESOURCE UTILIZATION/FORECAST

Table 13: Summary of the volume of NRUF submissions and associated items for 2011

Qualitative Measurements	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Form 502 Email Submissions	2,419	646	497	165	132	74	2,256	690	206	72	55	64
Form 502 FTP Submissions	940	186	65	16	18	20	507	644	25	12	7	3
Form 502 Web Submissions	1,153	582	534	211	237	166	1,150	541	326	156	320	509
Total Submissions	4,512	1,414	1,096	392	387	260	3,913	1,875	557	240	382	576
Error Notifications Sent	583	238	151	25	21	19	410	387	61	23	13	15
Missing Utilization Notifications Sent	0	228	353	0	0	0	0	330	0	0	0	0
Anomalous Notifications Sent	0	31	301	19	0	0	0	81	224	39	0	0
Confirmation Notifications Sent	2,710	594	409	152	131	75	2,314	933	170	60	49	67
Phone Calls/ Emails Received	243	305	393	99	53	59	223	303	145	99	47	49
State Reports Created	0	0	33	1	1	0	0	1	31	2	0	0
Job Aids Created/Revised	0	0	0	0	2	0	0	0	2	0	0	0

2011 NRUF Exhaust Forecasts

Contact: *Tom Foley, 571–434–5726, thomas.foley@neustar.biz*

One of the primary uses for NRUF data is to support forecasts of the exhaust date for each NPA as well as the exhaust date for the entire NANP. Detailed projections can be found in Attachments 6 and 7 to this annual report. The methodology used to produce the 2011 NPA exhaust projections was similar to the methodology NANPA has used in the past several years to project area code exhaust and had previously been reviewed with the North American Numbering Council and the FCC. In reporting the NPA exhaust projections, NANPA provides the previously-projected NPA exhaust time frames in order to view the changes that have occurred over time.

NANPA projects NPA and NANP exhaust on a semi-annual basis. Exhaust projections are available at the end of April and October. Throughout the year, NANPA monitors central office code assignment rates in all area codes and will adjust the projected NPA exhaust date if necessary. In 2011, NANPA issued revised NPA exhaust dates for the California 408 NPA and Pennsylvania 814 NPA. Events that may impact the projected exhaust date include a significant change in CO code demand, the assignment or return of a large quantity of CO codes or the implementation of central office code rationing.

OTHER NANPA SERVICES

NANPA is required to offer specific services as enterprise services. Enterprise services are additional services that may be provided for a specific fee by NANPA.

AOCN Enterprise Service

Contact: *Heidi Wayman, 571–434–5765, heidi.wayman@neustar.biz*

Upon request, NANPA will enter data for a service provider's assigned central office codes and thousands-blocks into the database used by the industry to configure the network for the proper routing and rating of calls. This is an enterprise service; i.e., a service for which NANPA is permitted to charge a fee and a contract between the service provider and NANPA is required. NANPA currently provides this service for over 230 service providers.

Although NANPA is required to provide this service, service providers are not required to select NANPA. The service provider may select another company to enter this information or may elect to enter the data themselves.

Providers of this data entry service are identified by numbers, called Administrative Operating Company Numbers (AOCNs). Over time, the company providing the data input service has come to be called the service provider's "AOCN."

AOCN Quality Measurements

NANPA's AOCN primary service objective is to complete data entry within five business days of receiving a request. NANPA's performance in 2011, shown in Table 14, reflects outstanding service, ensuring that service providers' routing data is input into the appropriate databases to enable the proper routing of calls.

Table 14: 2011 AOCN Quality Results

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Percentage of AOCN inputs completed in 5 days	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Percentage of AOCN phone calls returned by the end of the next business day	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total number of AOCN calls	45	50	47	50	52	45	54	59	35	25	30	30

Entry of Paper Submissions of Resource Applications

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

NANPA will enter paper submissions (faxed, scanned or mailed copies) of resource applications into the NAS on behalf of the applicant. This includes the application form as well as the in-service confirmation forms (e.g., for central office code administration, the Part 1 and Part 3 forms). In 2011, NANPA processed no paper resource applications.

Entry of Paper NRUF Submissions

NANPA will enter paper submissions (faxed, scanned or mailed copies) of the NRUF Form 502 into NAS on behalf of the service provider. Normally, respondents submit data through email, FTP or on-line via NAS. For a fee, NANPA will accept and input data submitted by mail, scan or by fax. In 2011, no service provider used this service.

NANPA Testimony in State Regulatory Hearings

NANPA will prepare, file and present oral and written testimony at no charge. Should the state require a NANPA witness(es) to attend the hearing in person, NANPA will require the state to reimburse it for associated expenses (e.g., travel, lodging, meals, local transportation, etc.) for the witness(es) and legal counsel. If the state requires local counsel to represent NANPA at state regulatory hearings, these costs will be passed along to the state. In 2011, no state used this service.

OTHER NANPA SERVICES

Customized Reports

Contact: *Tom Foley, 571–434–5726, thomas.foley@neustar.biz*

NANPA offers customized reports for publicly-available NPA, central office code and other resource assignment data. Specifically, NANPA can create and provide publicly-available data in different formats to accommodate requests to cull data and provide customized reports for a fee that is reasonable and based on its costs. NANPA negotiates a reasonable price with each requestor. Pricing will depend upon report development time and effort, frequency, delivery mechanism and other variables. In 2011, NANPA created no customized reports.

Financial Results

Ernst & Young audits NANPA's statements of revenues and direct expenditures associated with NANPA's enterprise services. The audit is conducted in accordance with auditing standards generally accepted in the United States and the standards applicable to financial audits in Government Auditing Standards. The statements of revenues and direct expenditures are prepared for the purpose of complying with the July 2009 NANPA Technical Requirements Document.

AOCN Enterprise Services	2009	2010
Revenues	$419,925	$399,589
Direct Expenditures	$373,845	$400,859

INC Participation

Contact: *Beth Sprague, 571–434–5513, beth.sprague@neustar.biz*

NANPA was an active participant in the Industry Numbering Committee (INC) during 2011, introducing five (5) new issues and submitting 16 contributions, as shown in Tables 15 and 16. In 2011, NANPA provided the INC with written communications concerning the approval for reclamations, updates on NANPA resources and updates on NANPA's interactions with regulatory authorities.

Table 15: NANPA INC Issues Introduced in 2011 and Supporting Contributions

Issue #	Contribution	Issue Statement
707	RAM 019	Need to remove all abandoned code records from NPAC prior to transfer
708	RAM 020 and 020R1	Inclusion of a definition of Trunk Access in the Carrier Identification Code (CIC) Assignment Guidelines
712	RAM 023* and 023R1*	Update TBPAG Section 4.4 (l and m)
726**		Clarification in Identifying Possible Relief Alternatives
727	RAM 046	Effective Date Changes Not Allowed More Than 6 months After Application Date

** Indicates additional INC participants sponsored the issue and/or contribution.*
*** Issue statement contained suggested text changes to the guidelines.*

OTHER NANPA SERVICES

Table 16: NANPA 2011 Contributions to Other Issues

Issue	Contribution Number	Contribution Title
Issue 690 – Update Toll Free Resource Exhaust Relief Planning Guidelines	NARP 014* and 014R1*	Edits to NRUF, NPA Relief, NPA Allocation, PCS/5YY and 9YY Guidelines
Issue 692 – Update the 5YY requirements for resources	RAM 015 and 015R1	Edits to the PCS 5YY Code Assignment Guidelines to include a refresh of Section 8.0 – Code Conservation
Issue 692 – Update the 5YY requirements for resources	RAM 031	5YY Guideline Edits to the reclamation process
Issue 692 – Update the 5YY requirements for resources	RAM 037	Review Sections 4.8, 4.8.1, 4.8.2 and 4.8.3 of the Non-Geographic 5XX-NXX Code Assignment Guidelines
Issue 692 – Update the 5YY requirements for resources	RAM 039	Update the 5YY Requirements for Resources to Project 5XX Resource Exhaust
Issue 692 – Update the 5YY requirements for resources	RAM 045	No codes set aside as test codes
Issue 695 – Update the Vertical Service Code (VSC) Guidelines	NARP 013	Edits to the VSC Guidelines
Issue 699 – Review and update the acceptable forms of proof of facilities readiness	RAM 013* and 013R1*	Re-name and update the Pre-planning checklist to Business Plan/Pre-planning Checklist
Issue 701 – Add information to guidelines regarding NPA implementation steps for new NANP entrant	NARP 003*, 003R1* and 003R2*	Edits to Section 10.3 of the NPA Allocation Plan and Assignment Guidelines
Issue 702 – Update Service Description for Use of 5YY Resources	NARP 004 and 004R1	Edits to PCS 5YY NXX Code Assignment Guidelines to include proof of certification
Issue 713 – Update CFR references and similar citations in the COCAG and other INC Guidelines	DMM 207* and 207R1*	Edits to NRUF, NPA Relief, NPA Allocations, PCS/5YY and 900 Guidelines
Issue 715 – Update TBPAG For Retrieving a Block Donated/ Returned in Error	RAM 036*	Edits to TBPAG to clarify steps for retrieving blocks donated in error vs. blocks returned to error

** Indicates additional INC participants sponsored the issue and/or contribution.*

The INC has organized its subtending committees into three (3) standing subcommittees: Resource Assignment and Management Subcommittee (RAM), Number and Addressing Resource Planning Subcommittee (NARP) and the Document Management/Maintenance (DMM) Subcommittee.

OTHER NANPA SERVICES

NANPA Website

Contact: *John Manning, 571–434–5770, john.manning@neustar.biz*

The NANPA website, **www.nanpa.com,** is the primary public source of numbering information. It provides a complete description of the different services offered by NANPA. These services include resource administration, area code relief planning, NRUF data collection and analysis and enterprise services. All of the various numbering resources administered by NANPA, including a description of their use and links to their associated administration guidelines, can be easily accessed via the website. Area code maps, planning letters, newsletters and other NANPA publications are readily available. The NANPA website is also the gateway into NAS.

Popular on the website are the numerous downloadable reports on the various resources NANPA administers. Many of the reports are available real-time, providing the most up-to-date source on resource availability. Some of the most frequently accessed reports include the following:

- The Central Office Code Availability and Utilization Reports provide up-to-date lists of all central office codes generally available or unavailable for assignment by geographic area code. The data is also available by NPA in a downloadable format (text and Excel™).
- The Central Office Code Assignment Activity Records provide the quantity of central office codes assigned and returned for each geographic area code on a monthly basis.
- The Part 3 Disconnect report provides a daily listing of central office codes with a pending disconnect date.
- The Central Office Code Activity Status Report provides the total number of new applications processed by NANPA by month for each state, including assignments, denials and return requests.
- Downloadable reports containing assignment information for CICs, 555 line numbers and 5YY and 9YY resources.
- Geographic Area Codes sorted by number and location.
- Planned area codes not yet in service as well as area codes introduced since 1995.
- The NPA Relief Activity Status Report provides information on all active and pending NPA relief projects in the United States.
- The NPA Relief Planning Triggers Report identifies specific actions to be initiated based on a related event or trigger point expected to occur sometime in the future.

Throughout the website, there are various documents available to assist the user. As an example, for NRUF, the following documentation is available: NAS NRUF On-Line User Guide, Geographic and Non-Geographic NRUF Job Aids, Rate Center Abbreviation List and a listing of common NRUF errors and corrections. Similar types of documents are available for Central Office Code Administration and NPA relief planning. Attachment 8 provides a listing of where important numbering documents and other information is available on the internet.

The home page of the website offers links to recent information or activity, under the "What's New" section. Also included is a section called "NANPA Fast Track," containing links to the most visited pages on the website. Included under the "NANPA Fast Track" section is a capability that allows the user to search for information about a specific NPA. Information that can be found includes if and/or when the area code was assigned, the location of the NPA, the in-service date where applicable, the NPA that it relieved, the time zone associated with the area code, the NPA dialing plan and other valuable data. The NPA database may also be downloaded from the NANPA website.

The website also provides the ability for interested parties to submit questions related to numbering issues and receive responses. Many such questions are received by NANPA daily. In 2011, NANPA received nearly 480 inquiries via its feedback mechanism. Inquiries range from the general public requesting information on dialing plans and companies seeking the latest information concerning the assignment of area codes and prefixes to how to establish telecommunications businesses and obtain numbering resources. Responding to these questions is a valuable service provided by NANPA to the general public.

Numerous enhancements were made to the website in 2011:

- Introduction of a new report called "Central Office Codes Requiring Special Handling" to the Central Office Code Reports. This report provides a list of NPA-NXX codes that require special handling due to unique circumstances (e.g., grandfathered codes, codes impacted by a state regulatory directive, defined assignment practices).
- Provided a link to a new document entitled *"Getting Started with CIC Assignments"* on the NANPA home page under "NANPA Fast Track." This document provides a summary of the CIC resource assignment process.

OTHER NANPA SERVICES

- Revised the "Reports" page to permit a single-page access to various reports and other documentation available on the NANPA website. Specifically, the NRUF Reports page was revised to include links to the NRUF Form 502, Form 502 instructions, NRUF Job Aids and other NRUF documents available on the website. The Central Office Code Reports page was updated with links to reclamation procedures and contact list as well as to jeopardy procedures and CO code administrator contacts.
- Created a new report page entitled *"Area Code Relief Planning Reports,"* which contains reports and information involving NPA relief planning activities.
- Added a new page under "Area Code Maps" to include information and an area code map for NANP-member countries, including Bermuda, Caribbean nations and US territories that participate in the NANP. This information includes the Country/ Territory name, associated NPA(s), location information and major cities.
- Included appropriate references on the website to reflect Sint Maarten joining the NANP in September 2011.

NANPA Newsletters

NANPA publishes quarterly newsletters and posts them on the NANPA website. These newsletters provide up-to-date information on resource assignments and trends, area code relief planning activities, notifications concerning NRUF submission requirements and other general number administration information. In 2011, articles addressed frequently-asked questions about Change Order 18 (introduced major changes to NRUF reports), an overview of the NPA relief planning process and an introduction to the on-line meeting capability for area code relief planning activities. Also included was a review of the acceptable documentation for proof of readiness when requesting an initial central office code, the identification of an effective date for inclusion on a central office code application, NRUF forecasting tips and a summary of the new "Reports" pages available on the NANPA website.

Support for NANP Countries other than the U.S.

The NANP is unique among the world's numbering plans in that it serves 20 independent countries. These countries include the United States and its territories, Canada, Bermuda, Anguilla, Antigua and Barbuda, the Bahamas, Barbados, the British Virgin Islands, the Cayman Islands, Dominica, the Dominican Republic, Grenada, Jamaica, Montserrat, Sint Maarten, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, and Turks and Caicos Islands.

One of NANPA's most important roles is to coordinate the assignment of numbering resources that must be shared equitably by all of the participating countries. Area codes are, of course, the primary shared resource, but there are others. For example, entities in Canada, Anguilla, Bermuda and the Dominican Republic use CICs. Canadian entities offer 900 services and thus share the supply of 9YY-NXX codes. NANPA may interface with other countries' national numbering administrators during the resource request and assignment process. Normally, the national administrator receives the requests, ensures that their country's regulatory requirements are met, and forwards the requests to NANPA. NANPA verifies that industry requirements are met and assigns the resources if appropriate to do so.

Sint Maarten was approved to join the NANP and was assigned the 721 area code in 2009. In 2011, NANPA assisted this newest NANP-member country by working directly with the Sint Maarten regulatory authorities in preparation for their entry into the NANP. On September 30, 2011, Sint Maarten officially joined the NANP. After implementation, NANPA continued its support of this transition by working with service providers to identify routing issues associated with the new 721 NPA code.

Support to the FCC, State Commissions and the NANC

In order to ensure the proper and efficient administration of NANP resources, NANPA communicates regularly with the FCC, state regulatory authorities and the North American Numbering Council (NANC) in support of their needs for numbering information.

Ongoing communications between NANPA and the FCC are necessary to ensure proper administration and management of NANP resources. Under the FCC contract, NANPA provided numerous reports and other documentation required by the contract. These reports consisted of monthly reports on central office code assignments, assignment of other NANP resources such as 5YY-NXX codes, area code relief planning projects, NAS performance and NANPA staffing. NANPA provided the FCC with service provider-specific utilization and forecast data submitted by carriers via the NRUF reporting process. NANPA reviews with the FCC issues concerning authorized access to numbering resources. As necessary, NANPA will meet with the FCC to discuss numbering in general and highlight those activities impacting number resource use and optimization.

OTHER NANPA SERVICES

Over the past 12 months, Neustar operated under a six-month contract extension issued in January 2011 to perform the NANPA function. In July 2011, the NANPA contract was extended by the FCC for another six months, covering the time period of July 2011 – January 2012. During 2011, NANPA worked closely with the FCC to renew appropriate NAS hardware and software maintenance agreements set to expire in the second half of 2011. Further, NANPA secured FCC approval to replace the two existing NAS firewall servers that were purchased in 2003. NANPA also submitted to the FCC proposed changes to NAS in response to modifications to industry guidelines and system requirements.

NANPA continued to support state regulatory authorities by providing them with the number utilization data collected via semi-annual NRUF reporting and assisted state regulators in following up with the appropriate service providers with regard to this data. This included providing real-time access to NRUF data via NAS, with various reports and queries available to search and analyze the data, as well as refresher training on the NRUF reporting capabilities available to them in the system.

NANPA continued to supply state regulators with Part 1 and Part 3 reports, which provided a listing on a daily, weekly or monthly basis of all Part 1s and Part 3s processed by NANPA for their respective area codes. These reports, which include the Pooling Administration System tracking number as well as the application type (e.g., LRN request, pool replenishment, dedicated customer), were enhanced in 2011 to include additional information on the type of change associated with a change request (e.g., switch, OCN, effective date).

NANPA worked closely with state regulators to address specific issues or concerns associated with individual service provider requests for resources. Further, as NPA exhaust approached, NANPA ensured the state regulators were kept informed of the latest exhaust projections and provided updated information concerning NPA relief alternatives, to include refreshing the projected lives of proposed relief alternatives. NANPA representatives and state commissions discussed specific activity and issues associated with active, pending or planned NPA relief projects. For instance, in 2011, NANPA participated in public input hearings concerning the 814 area code in Pennsylvania and the 408 NPA in California, presenting the NPA relief alternatives and answering questions from the public. NANPA met with state representatives participating in the NANC to assist in their understanding of NANPA's role in the industry. NANPA provided guidance to numerous state regulators on issues such as the scheduling of public meetings on NPA relief options and providing notification to the industry, obtaining maps containing county, city and rate center boundaries, participating in state technical meetings and workshops discussing NPA implementation and responding to state commission inquiries and data requests. NANPA also participated in ten (10) face-to-face meetings with state public service commission staffs to address specific concerns pertaining to current resource administration practices and possible modifications to industry procedures. A concerted effort was made in 2011 to reach out to all the state commission staffs to ensure open and effective communication with the NANPA.

NANPA continued to participate in conference calls with the state commission staffs and provide updates on its activities and solicit input on any numbering-related matter. This opportunity was used to review internal processes and to ensure a complete understanding of the responsibilities of NANPA, service providers and the state regulators.

NANPA provided monthly reports to the NANC throughout 2011. These reports highlighted central office code assignment activity, NPA relief planning activity, status reports on other NANP resources administered by NANPA as well as NAS performance. NANPA also provided the results of the semi-annual NPA and NANP exhaust analysis and notified the NANC of the potential exhaust of the specific NPA resources.

NANPA worked closely with the NANC's subtending organizations as well. NANPA participated in monthly meetings with the Numbering Oversight Working Group (NOWG), providing reports on performance measurements, NAS updates, a review of relevant numbering activities and NANPA performance improvement efforts. In 2011, NANPA continued the use of its Monthly Operational Report to provide a repository of various NANPA activities and events occurring throughout the year. NANPA also continued to manage the NANC-Chair web page, used for posting NANC and subtending working group documentation.

ATTACHMENT 1 – AREA CODE INVENTORY

NPA codes are in NXX format, where N is any digit 2–9 and X is any digit 0–9, yielding 8*10*10 = 800 combinations. Of these, 119 are not assignable or have been set aside by the Industry Numbering Committee (INC) for special purposes. These 119 codes are listed below.

N11 (8)	Abbreviated dialing
N9X (80)	Reserved for use during expansion of the NANP
37X and 96X (20)	Reserved by the INC for future use where contiguous blocks of codes are required
555 and 950 (2)	Not used as NPA codes to avoid possible confusion
880–887 and 889 (9)	Set aside for next series of toll-free codes.

Subtracting 119 from 800 leaves 681 assignable NPA codes. Of these, 389 have been assigned. Of these 389, 358 are in service and 31 are awaiting introduction. Of the 358 NPA codes in service, 345 are geographic and 13 are non-geographic.

Of the 681 assignable NPA codes, 292 are currently unassigned. Of these codes, 47 are easily recognizable codes (ERCs) currently allocated for non-geographic use, and 245 are general-purpose codes. Of these 245, 177 are reserved[1], leaving 68 available, unreserved, general-purpose codes.

Of the 47 unassigned ERCs, 10 are reserved[2], leaving 37 available.

Future geographic NPA codes are listed below.

NPA	NPA	NPA	NPA
220	389	576	782
221	421	583	789
223	427	584	820
232	428	624	821
235	429	625	824
238	436	627	825
247	439	628	826
257	445	634	835
258	448	640	837
259	449	642	838
261	451	645	839
263	453	652	840
271	457	656	841
273	460	658	851
278	461	665	852
279	463	672	854
280	468	676	861
286	471	680	871
287	472	683	875
324	474	685	879
326	476	686	921
328	481	726	923
329	483	728	924
332	485	729	926
341	486	735	927
346	487	739	930
353	489	742	934
354	521	743	935
357	535	745	942
359	536	746	945
362	537	748	946
363	546	749	948
364	548	750	953
367	550	752	957
368	558	753	981
369	560	756	982
382	565	761	986
384	568	764	987
387	572	768	—

1. These codes have been designated for the relief of NPAs that NRUF predicts will exhaust in the next 10 years. Also included are additional NPA codes reserved for use in Canada at the request of the CRTC as well as 22 NPAs reserved for future PCS expansion (521, 523, 524, 525, 526, 527, 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578 and 589).

2. These include the 4 codes reserved for future PCS expansion (522, 566, 577 and 588) and 6 of the codes reserved for Canada (622, 633, 644, 655, 677 and 688). Canada has also reserved 699, which is counted as an expansion code.

ATTACHMENT 2 – GEOGRAPHIC NPAs SORTED BY LOCATION

Country	Location	NPA
Anguilla	Anguilla	264
Antigua & Barbuda	Antigua & Barbuda	268
Bahamas	Bahamas	242
Barbados	Barbados	246
Bermuda	Bermuda	441
British Virgin Islands	British Virgin Islands	284
Canada	Alberta	403
Canada	Alberta	587
Canada	Alberta	780
Canada	British Columbia	250
Canada	British Columbia	604
Canada	British Columbia	778
Canada	Canada	600
Canada	Manitoba	204
Canada	New Brunswick	506
Canada	Newfoundland	709
Canada	Nova Scotia, Prince Edward Island	902
Canada	Ontario	226
Canada	Ontario	249
Canada	Ontario	289
Canada	Ontario	343
Canada	Ontario	416
Canada	Ontario	519
Canada	Ontario	613
Canada	Ontario	647
Canada	Ontario	705
Canada	Ontario	807
Canada	Ontario	905
Canada	Quebec	418
Canada	Quebec	438
Canada	Quebec	450
Canada	Quebec	514
Canada	Quebec	579
Canada	Quebec	581
Canada	Quebec	819
Canada	Saskatchewan	306
Canada	Yukon, NW Terr., Nunavut	867

Country	Location	NPA
Cayman Islands	Cayman Islands	345
Dominica	Dominica	767
Dominican Republic	Dominican Republic	809
Dominican Republic	Dominican Republic	829
Dominican Republic	Dominican Republic	849
Grenada	Grenada	473
Jamaica	Jamaica	876
Montserrat	Montserrat	664
Sint Maarten	Sint Maarten	721
St. Kitts & Nevis	St. Kitts & Nevis	869
St. Lucia	St. Lucia	758
St. Vincent & Grenadines	St. Vincent & Grenadines	784
Trinidad & Tobago	Trinidad & Tobago	868
Turks & Caicos Islands	Turks & Caicos Islands	649
US	AK	907
US	AL	205
US	AL	251
US	AL	256
US	AL	334
US	AL	938
US	American Samoa	684
US	AR	479
US	AR	501
US	AR	870
US	AZ	480
US	AZ	520
US	AZ	602
US	AZ	623
US	AZ	928
US	CA	209
US	CA	213
US	CA	310
US	CA	323
US	CA	408
US	CA	415
US	CA	424
US	CA	442

GEOGRAPHIC NPAs SORTED BY LOCATION

Country	Location	NPA
US	CA	510
US	CA	530
US	CA	559
US	CA	562
US	CA	619
US	CA	626
US	CA	650
US	CA	657
US	CA	661
US	CA	707
US	CA	714
US	CA	747
US	CA	760
US	CA	805
US	CA	818
US	CA	831
US	CA	858
US	CA	909
US	CA	916
US	CA	925
US	CA	949
US	CA	951
US	CNMI	670
US	CO	303
US	CO	719
US	CO	720
US	CO	970
US	CT	203
US	CT	475
US	CT	860
US	DC	202
US	DE	302
US	FL	239
US	FL	305
US	FL	321
US	FL	352
US	FL	386
US	FL	407
US	FL	561

Country	Location	NPA
US	FL	727
US	FL	754
US	FL	772
US	FL	786
US	FL	813
US	FL	850
US	FL	863
US	FL	904
US	FL	941
US	FL	954
US	GA	229
US	GA	404
US	GA	470
US	GA	478
US	GA	678
US	GA	706
US	GA	762
US	GA	770
US	GA	912
US	Guam	671
US	HI	808
US	IA	319
US	IA	515
US	IA	563
US	IA	641
US	IA	712
US	ID	208
US	IL	217
US	IL	224
US	IL	309
US	IL	312
US	IL	331
US	IL	618
US	IL	630
US	IL	708
US	IL	773
US	IL	779
US	IL	815
US	IL	847

GEOGRAPHIC NPAs SORTED BY LOCATION

Country	Location	NPA
US	IL	872
US	IN	219
US	IN	260
US	IN	317
US	IN	574
US	IN	765
US	IN	812
US	KS	316
US	KS	620
US	KS	785
US	KS	913
US	KY	270
US	KY	502
US	KY	606
US	KY	859
US	LA	225
US	LA	318
US	LA	337
US	LA	504
US	LA	985
US	MA	339
US	MA	351
US	MA	413
US	MA	508
US	MA	617
US	MA	774
US	MA	781
US	MA	857
US	MA	978
US	MD	240
US	MD	301
US	MD	410
US	MD	443
US	ME	207
US	MI	231
US	MI	248
US	MI	269
US	MI	313
US	MI	517

Country	Location	NPA
US	MI	586
US	MI	616
US	MI	734
US	MI	810
US	MI	906
US	MI	947
US	MI	989
US	MN	218
US	MN	320
US	MN	507
US	MN	612
US	MN	651
US	MN	763
US	MN	952
US	MO	314
US	MO	417
US	MO	573
US	MO	636
US	MO	660
US	MO	816
US	MS	228
US	MS	601
US	MS	662
US	MS	769
US	MT	406
US	NC	252
US	NC	336
US	NC	704
US	NC	828
US	NC	910
US	NC	919
US	NC	980
US	ND	701
US	NE	308
US	NE	402
US	NH	603
US	NJ	201
US	NJ	551
US	NJ	609

GEOGRAPHIC NPAs SORTED BY LOCATION

Country	Location	NPA
US	NJ	732
US	NJ	848
US	NJ	856
US	NJ	862
US	NJ	908
US	NJ	973
US	NM	505
US	NM	575
US	NV	702
US	NV	775
US	NY	212
US	NY	315
US	NY	347
US	NY	516
US	NY	518
US	NY	585
US	NY	607
US	NY	631
US	NY	646
US	NY	716
US	NY	718
US	NY	845
US	NY	914
US	NY	917
US	NY	929
US	OH	216
US	OH	234
US	OH	330
US	OH	419
US	OH	440
US	OH	513
US	OH	567
US	OH	614
US	OH	740
US	OH	937
US	OK	405
US	OK	539
US	OK	580
US	OK	918

Country	Location	NPA
US	OR	458
US	OR	503
US	OR	541
US	OR	971
US	PA	215
US	PA	267
US	PA	412
US	PA	484
US	PA	570
US	PA	610
US	PA	717
US	PA	724
US	PA	814
US	PA	878
US	Puerto Rico	787
US	Puerto Rico	939
US	RI	401
US	SC	803
US	SC	843
US	SC	864
US	SD	605
US	TN	423
US	TN	615
US	TN	731
US	TN	865
US	TN	901
US	TN	931
US	TX	210
US	TX	214
US	TX	254
US	TX	281
US	TX	325
US	TX	361
US	TX	409
US	TX	430
US	TX	432
US	TX	469
US	TX	512
US	TX	682

GEOGRAPHIC NPAs SORTED BY LOCATION

Country	Location	NPA
US	TX	713
US	TX	806
US	TX	817
US	TX	830
US	TX	832
US	TX	903
US	TX	915
US	TX	936
US	TX	940
US	TX	956
US	TX	972
US	TX	979
US	US	710
US	US Virgin Islands	340
US	UT	385
US	UT	435
US	UT	801
US	VA	276
US	VA	434
US	VA	540
US	VA	571
US	VA	703
US	VA	757
US	VA	804
US	VT	802
US	WA	206
US	WA	253
US	WA	360
US	WA	425
US	WA	509
US	WI	262
US	WI	414
US	WI	534
US	WI	608
US	WI	715
US	WI	920
US	WV	304
US	WV	681
US	WY	307

Note: All geographic NPAs were in service as of December 31, 2011.

ATTACHMENT 3 – GEOGRAPHIC NPAs SORTED NUMERICALLY

NPA	Country	Location
201	US	NJ
202	US	DC
203	US	CT
204	Canada	Manitoba
205	US	AL
206	US	WA
207	US	ME
208	US	ID
209	US	CA
210	US	TX
212	US	NY
213	US	CA
214	US	TX
215	US	PA
216	US	OH
217	US	IL
218	US	MN
219	US	IN
224	US	IL
225	US	LA
226	Canada	Ontario
228	US	MS
229	US	GA
231	US	MI
234	US	OH
239	US	FL
240	US	MD
242	Bahamas	Bahamas
246	Barbados	Barbados
248	US	MI
249	Canada	Ontario
250	Canada	British Columbia
251	US	AL
252	US	NC
253	US	WA
254	US	TX
256	US	AL
260	US	IN
262	US	WI

NPA	Country	Location
264	Anguilla	Anguilla
267	US	PA
268	Antigua & Barbuda	Antigua & Barbuda
269	US	MI
270	US	KY
276	US	VA
281	US	TX
284	British Virgin Islands	British Virgin Islands
289	Canada	Ontario
301	US	MD
302	US	DE
303	US	CO
304	US	WV
305	US	FL
306	Canada	Saskatchewan
307	US	WY
308	US	NE
309	US	IL
310	US	CA
312	US	IL
313	US	MI
314	US	MO
315	US	NY
316	US	KS
317	US	IN
318	US	LA
319	US	IA
320	US	MN
321	US	FL
323	US	CA
325	US	TX
330	US	OH
331	US	IL
334	US	AL
336	US	NC
337	US	LA
339	US	MA
340	US	US Virgin Islands
343	Canada	Ontario

GEOGRAPHIC NPAs SORTED NUMERICALLY

NPA	Country	Location
345	Cayman Islands	Cayman Islands
347	US	NY
351	US	MA
352	US	FL
360	US	WA
361	US	TX
385	US	UT
386	US	FL
401	US	RI
402	US	NE
403	Canada	Alberta
404	US	GA
405	US	OK
406	US	MT
407	US	FL
408	US	CA
409	US	TX
410	US	MD
412	US	PA
413	US	MA
414	US	WI
415	US	CA
416	Canada	Ontario
417	US	MO
418	Canada	Quebec
419	US	OH
423	US	TN
424	US	CA
425	US	WA
430	US	TX
432	US	TX
434	US	VA
435	US	UT
438	Canada	Quebec
440	US	OH
441	Bermuda	Bermuda
442	US	CA
443	US	MD
450	Canada	Quebec
458	US	OR
469	US	TX
470	US	GA
473	Grenada	Grenada
475	US	CT
478	US	GA
479	US	AR
480	US	AZ
484	US	PA
501	US	AR
502	US	KY
503	US	OR
504	US	LA
505	US	NM
506	Canada	New Brunswick
507	US	MN
508	US	MA
509	US	WA
510	US	CA
512	US	TX
513	US	OH
514	Canada	Quebec
515	US	IA
516	US	NY
517	US	MI
518	US	NY
519	Canada	Ontario
520	US	AZ
530	US	CA
534	US	WI
539	US	OK
540	US	VA
541	US	OR
551	US	NJ
559	US	CA
561	US	FL
562	US	CA
563	US	IA
567	US	OH

GEOGRAPHIC NPAs SORTED NUMERICALLY

NPA	Country	Location
570	US	PA
571	US	VA
573	US	MO
574	US	IN
575	US	NM
579	Canada	Quebec
580	US	OK
581	Canada	Quebec
586	US	MI
587	Canada	Alberta
601	US	MS
602	US	AZ
603	US	NH
604	Canada	British Columbia
605	US	SD
606	US	KY
607	US	NY
608	US	WI
609	US	NJ
610	US	PA
612	US	MN
613	Canada	Ontario
614	US	OH
615	US	TN
616	US	MI
617	US	MA
618	US	IL
619	US	CA
620	US	KS
623	US	AZ
626	US	CA
630	US	IL
631	US	NY
636	US	MO
641	US	IA
646	US	NY
647	Canada	Ontario
649	Turks & Caicos Islands	Turks & Caicos Islands

NPA	Country	Location
650	US	CA
651	US	MN
657	US	CA
661	US	CA
662	US	MS
664	Montserrat	Montserrat
670	US	CNMI
671	US	Guam
678	US	GA
681	US	WV
682	US	TX
684	US	American Samoa
701	US	ND
702	US	NV
703	US	VA
704	US	NC
705	Canada	Ontario
706	US	GA
707	US	CA
708	US	IL
709	Canada	Newfoundland
710	US	US
712	US	IA
713	US	TX
714	US	CA
715	US	WI
716	US	NY
717	US	PA
718	US	NY
719	US	CO
720	US	CO
721	Sint Maarten	Sint Maarten
724	US	PA
727	US	FL
731	US	TN
732	US	NJ
734	US	MI
740	US	OH
747	US	CA

GEOGRAPHIC NPAs SORTED NUMERICALLY

NPA	Country	Location
754	US	FL
757	US	VA
758	St. Lucia	St. Lucia
760	US	CA
762	US	GA
763	US	MN
765	US	IN
767	Dominica	Dominica
769	US	MS
770	US	GA
772	US	FL
773	US	IL
774	US	MA
775	US	NV
778	Canada	British Columbia
779	US	IL
780	Canada	Alberta
781	US	MA
784	St. Vincent & Grenadines	St. Vincent & Grenadines
785	US	KS
786	US	FL
787	US	Puerto Rico
801	US	UT
802	US	VT
803	US	SC
804	US	VA
805	US	CA
806	US	TX
807	Canada	Ontario
808	US	HI
809	Dominican Republic	Dominican Republic
810	US	MI
812	US	IN
813	US	FL
814	US	PA
815	US	IL
816	US	MO
817	US	TX

NPA	Country	Location
818	US	CA
819	Canada	Quebec
828	US	NC
829	Dominican Republic	Dominican Republic
830	US	TX
831	US	CA
832	US	TX
843	US	SC
845	US	NY
847	US	IL
848	US	NJ
849	Dominican Republic	Dominican Republic
850	US	FL
856	US	NJ
857	US	MA
858	US	CA
859	US	KY
860	US	CT
862	US	NJ
863	US	FL
864	US	SC
865	US	TN
867	Canada	Yukon, NW Terr., Nunavut
868	Trinidad & Tobago	Trinidad & Tobago
869	St. Kitts & Nevis	St. Kitts & Nevis
870	US	AR
872	US	IL
876	Jamaica	Jamaica
878	US	PA
901	US	TN
902	Canada	Nova Scotia, Prince Edward Island
903	US	TX
904	US	FL
905	Canada	Ontario
906	US	MI
907	US	AK
908	US	NJ

GEOGRAPHIC NPAs SORTED NUMERICALLY

NPA	Country	Location
909	US	CA
910	US	NC
912	US	GA
913	US	KS
914	US	NY
915	US	TX
916	US	CA
917	US	NY
918	US	OK
919	US	NC
920	US	WI
925	US	CA
928	US	AZ
929	US	NY
931	US	TN
936	US	TX
937	US	OH
938	US	AL
939	US	Puerto Rico
940	US	TX
941	US	FL
947	US	MI
949	US	CA
951	US	CA
952	US	MN
954	US	FL
956	US	TX
970	US	CO
971	US	OR
972	US	TX
973	US	NJ
978	US	MA
979	US	TX
980	US	NC
985	US	LA
989	US	MI

Note: All geographic NPAs were in service as of December 31, 2011.

ATTACHMENT 4 – NON-GEOGRAPHIC NPAs IN SERVICE

The table below lists the non-geographic NPAs in service as of December 31, 2011, along with the service for which each is used.

NPA	Service
456	Inbound International
500	Personal Communications Service
533	Personal Communications Service
544	Personal Communications Service
600	Canadian Services
700	Interexchange Carrier Services
710	US Government
800	Toll-Free
855	Toll-Free
866	Toll-Free
877	Toll-Free
888	Toll-Free
900	Premium Services

NPA code 456 allows callers to select a carrier for international calls terminating in a NANP country. Carriers implement this service by activating 456 numbers in each country of origin.

500, 533 and 544 numbers are intended to be used for personal communications services. Personal communications service is defined as a set of capabilities that allows some combination of personal mobility, terminal mobility and service profile management. NPA codes 522, 566, 577, 588, 521, 523, 524, 525, 526, 527, 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578 and 589 have been reserved as Personal Communications Services codes and will be assigned as needed.

NPA code 600 is used within Canada and assigned to Canadian telecommunications service providers for the provision of non-geographic services.

NPA code 700 was assigned in 1983 for use by all interexchange carriers. Each carrier has the use of all 7.92 million numbers in the 700 NPA. When a call is made to a 700 number, the local exchange carrier passes the call to the caller's interexchange carrier, selected either through presubscription or override. Note that 700 numbers, unlike other NANP numbers, may terminate in different ways, depending on how the interexchange carrier has allocated the numbers.

NPA code 710 was assigned in 1983 to the U.S. Government for emergency services. The 710 NPA is treated as non-geographic with per-call compensation provided by the National Communications System (NCS).

NPA codes 800, 888, 877, 866 and 855 are used as toll free codes. NPA codes 844, 833 and 822 have been assigned for use as toll free codes and will be introduced as needed.

900 numbers are used for premium services, with the cost of each 900 call billed to the calling party.

ATTACHMENT 5 – DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
AK	907	7D	1+10D	1+10D	1+10D	
AL	205	7D	1+10D	10D	1+10D	
AL	251	7D	1+10D	10D	1+10D	1
AL	256	10D	1+10D	10D	1+10D	
AL	334	7D	1+10D	10D	1+10D	
AL	938	10D	1+10D	10D	1+10D	
AR	479	7D	1+10D	10D	1+10D	
AR	501	7D	1+10D	10D	1+10D	
AR	870	7D	1+10D	10D	1+10D	
AS	684	7D	NA	NA	1+10D	
AZ	480	7D	1+10D	10D	1+10D	
AZ	520	7D	1+10D	10D	1+10D	
AZ	602	7D	1+10D	10D	1+10D	
AZ	623	7D	1+10D	10D	1+10D	
AZ	928	7D	1+10D	10D	1+10D	
CA	209	7D	7D	1+10D	1+10D	
CA	213	7D	7D	1+10D	1+10D	
CA	310	1+10D	1+10D	1+10D	1+10D	
CA	323	7D	7D	1+10D	1+10D	
CA	408	7D	7D	1+10D	1+10D	
CA	415	7D	7D	1+10D	1+10D	
CA	424	1+10D	1+10D	1+10D	1+10D	
CA	442	1+10D	1+10D	1+10D	1+10D	
CA	510	7D	7D	1+10D	1+10D	
CA	530	7D	7D	1+10D	1+10D	
CA	559	7D	7D	1+10D	1+10D	
CA	562	7D	7D	1+10D	1+10D	
CA	619	7D	7D	1+10D	1+10D	
CA	626	7D	7D	1+10D	1+10D	
CA	650	7D	7D	1+10D	1+10D	
CA	657	1+10D	1+10D	1+10D	1+10D	
CA	707	7D	7D	1+10D	1+10D	
CA	714	1+10D	1+10D	1+10D	1+10D	
CA	747	1+10D	1+10D	1+10D	1+10D	
CA	760	1+10D	1+10D	1+10D	1+10D	
CA	805	7D	7D	1+10D	1+10D	
CA	818	1+10D	1+10D	1+10D	1+10D	
CA	831	7D	7D	1+10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
CA	858	7D	7D	1+10D	1+10D	
CA	909	7D	7D	1+10D	1+10D	
CA	916	7D	7D	1+10D	1+10D	
CA	925	7D	7D	1+10D	1+10D	
CA	949	7D	7D	1+10D	1+10D	
CA	951	7D	7D	1+10D	1+10D	
CNMI	670	7D	1+10D	NA	1+10D	
CO	303	10D	1+10D	10D	1+10D	
CO	719	7D	1+10D	10D	1+10D	
CO	720	10D	1+10D	10D	1+10D	
CO	970	7D	1+10D	10D	1+10D	
CT	203	10D	1+10D	10D	1+10D	
CT	475	10D	1+10D	10D	1+10D	
CT	860	10D	1+10D	10D	1+10D	
DC	202	7D	NA	10D	1+10D	
DE	302	7D	1+10D	10D	1+10D	
FL	239	7D	1+10D	10D	1+10D	
FL	305	10D	1+10D	10D	1+10D	2
FL	321	10D	1+10D	10D	1+10D	3
FL	352	7D	1+10D	10D	1+10D	
FL	386	7D	1+10D	10D	1+10D	
FL	407	10D	1+10D	10D	1+10D	
FL	561	7D	1+10D	10D	1+10D	4
FL	727	7D	1+10D	10D	1+10D	
FL	754	10D	1+10D	10D	1+10D	
FL	772	7D	1+10D	10D	1+10D	5
FL	786	10D	1+10D	10D	1+10D	
FL	813	7D	1+10D	10D	1+10D	
FL	850	7D	1+10D	10D	1+10D	
FL	863	7D	1+10D	10D	1+10D	
FL	904	7D	1+10D	10D	1+10D	
FL	941	7D	1+10D	10D	1+10D	
FL	954	10D	1+10D	10D	1+10D	
GA	229	7D	1+10D	10D	1+10D	
GA	404	10D	1+10D	10D	1+10D	
GA	470	10D	1+10D	10D	1+10D	
GA	478	7D	1+10D	10D	1+10D	
GA	678	10D	1+10D	10D	1+10D	
GA	706	10D	1+10D	10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
GA	762	10D	1+10D	10D	1+10D	
GA	770	10D	1+10D	10D	1+10D	
GA	912	7D	1+10D	10D	1+10D	
GU	671	7D	1+10D	NA	1+10D	
HI	808	7D	1+10D	NA	1+10D	
IA	319	7D	1+10D	10D	1+10D	
IA	515	7D	1+10D	10D	1+10D	
IA	563	7D	1+10D	10D	1+10D	
IA	641	7D	1+10D	10D	1+10D	
IA	712	7D	1+10D	10D	1+10D	
ID	208	7D	1+10D	7D	1+10D	
IL	217	7D	1+10D	1+10D	1+10D	
IL	224	1+10D	1+10D	1+10D	1+10D	
IL	309	7D	1+10D	1+10D	1+10D	
IL	312	1+10D	1+10D	1+10D	1+10D	
IL	331	1+10D	1+10D	1+10D	1+10D	
IL	618	7D	1+10D	1+10D	1+10D	
IL	630	1+10D	1+10D	1+10D	1+10D	
IL	708	7D	1+10D	1+10D	1+10D	
IL	773	1+10D	1+10D	1+10D	1+10D	
IL	779	1+10D	1+10D	1+10D	1+10D	
IL	815	1+10D	1+10D	1+10D	1+10D	
IL	847	1+10D	1+10D	1+10D	1+10D	
IL	872	1+10D	1+10D	1+10D	1+10D	
IN	219	7D	1+10D	10D	1+10D	
IN	260	7D	1+10D	10D	1+10D	
IN	317	7D	1+10D	10D	1+10D	
IN	574	7D	1+10D	10D	1+10D	
IN	765	7D	1+10D	10D	1+10D	
IN	812	7D	1+10D	10D	1+10D	
KS	316	7D	1+10D	10D	1+10D	
KS	620	7D	1+10D	10D	1+10D	
KS	785	7D	1+10D	10D	1+10D	
KS	913	7D	1+10D	10D	1+10D	
KY	270	7D	1+10D	7D	1+10D	
KY	502	7D	1+10D	7D	1+10D	
KY	606	7D	1+10D	10D	1+10D	6
KY	859	7D	1+10D	10D	1+10D	6
LA	225	7D	1+10D	10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
LA	318	7D	1+10D	10D	1+10D	
LA	337	7D	1+10D	10D	1+10D	
LA	504	7D	1+10D	10D	1+10D	
LA	985	7D	1+10D	10D	1+10D	
MA	339	10D	1+10D	10D	1+10D	
MA	351	10D	1+10D	10D	1+10D	
MA	413	7D	1+10D	10D	1+10D	
MA	508	10D	1+10D	10D	1+10D	
MA	617	10D	1+10D	10D	1+10D	
MA	774	10D	1+10D	10D	1+10D	
MA	781	10D	1+10D	10D	1+10D	
MA	857	10D	1+10D	10D	1+10D	
MA	978	10D	1+10D	10D	1+10D	
MD	240	10D	1+10D	10D	1+10D	
MD	301	10D	1+10D	10D	1+10D	
MD	410	10D	1+10D	10D	1+10D	
MD	443	10D	1+10D	10D	1+10D	
ME	207	7D	7D	1+10D	1+10D	
MI	231	7D	1+10D	10D	1+10D	
MI	248	10D	1+10D	10D	1+10D	
MI	269	7D	1+10D	10D	1+10D	
MI	313	7D	1+10D	10D	1+10D	
MI	517	7D	1+10D	10D	1+10D	
MI	586	7D	1+10D	10D	1+10D	
MI	616	7D	1+10D	10D	1+10D	
MI	734	7D	1+10D	10D	1+10D	
MI	810	7D	1+10D	10D	1+10D	
MI	906	7D	1+10D	10D	1+10D	
MI	947	10D	1+10D	10D	1+10D	
MI	989	7D	1+10D	10D	1+10D	
MN	218	7D	1+10D	7D	1+10D	
MN	320	7D	1+10D	7D	1+10D	
MN	507	7D	1+10D	7D	1+10D	
MN	612	7D	1+10D	10D	1+10D	
MN	651	7D	1+10D	10D	1+10D	
MN	763	7D	1+10D	10D	1+10D	
MN	952	7D	1+10D	10D	1+10D	
MO	314	7D	1+10D	10D	1+10D	
MO	417	7D	1+10D	10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
MO	573	7D	1+10D	10D	1+10D	
MO	636	7D	1+10D	10D	1+10D	
MO	660	7D	1+10D	10D	1+10D	
MO	816	7D	1+10D	10D	1+10D	
MS	228	7D	1+10D	10D	1+10D	
MS	601	10D	1+10D	10D	1+10D	
MS	662	7D	1+10D	10D	1+10D	
MS	769	10D	1+10D	10D	1+10D	
MT	406	7D	1+10D	7D	1+10D	
NC	252	7D	1+10D	10D	1+10D	
NC	336	7D	1+10D	10D	1+10D	
NC	704	10D	1+10D	10D	1+10D	
NC	828	7D	1+10D	10D	1+10D	
NC	910	7D	1+10D	10D	1+10D	
NC	919	7D	1+10D	10D	1+10D	
NC	980	10D	1+10D	10D	1+10D	
ND	701	7D	1+10D	7D	1+10D	
NE	308	7D	1+10D	7D	1+10D	
NE	402	10D	1+10D	10D	1+10D	
NH	603	7D	7D	1+10D	1+10D	
NJ	201	10D	10D	1+10D	1+10D	7
NJ	551	10D	10D	1+10D	1+10D	7
NJ	609	7D	7D	1+10D	1+10D	
NJ	732	10D	10D	1+10D	1+10D	8
NJ	848	10D	10D	1+10D	1+10D	8
NJ	856	7D	7D	1+10D	1+10D	
NJ	862	10D	10D	1+10D	1+10D	9
NJ	908	7D	7D	1+10D	1+10D	
NJ	973	10D	10D	1+10D	1+10D	9
NM	505	7D	1+10D	10D	1+10D	
NM	575	7D	1+10D	10D	1+10D	
NV	702	7D	1+10D	10D	1+10D	
NV	775	7D	1+10D	10D	1+10D	
NY	212	1+10D	1+10D	1+10D	1+10D	
NY	315	7D	7D	1+10D	1+10D	
NY	347	1+10D	1+10D	1+10D	1+10D	
NY	516	7D	7D	1+10D	1+10D	
NY	518	7D	7D	1+10D	1+10D	
NY	585	7D	7D	1+10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
NY	607	7D	7D	1+10D	1+10D	
NY	631	7D	7D	1+10D	1+10D	
NY	646	1+10D	1+10D	1+10D	1+10D	
NY	716	7D	7D	1+10D	1+10D	
NY	718	1+10D	1+10D	1+10D	1+10D	
NY	845	7D	7D	1+10D	1+10D	
NY	914	7D	7D	1+10D	1+10D	
NY	917	1+10D	1+10D	1+10D	1+10D	
NY	929	1+10D	1+10D	1+10D	1+10D	
OH	216	7D	1+10D	10D	1+10D	10
OH	234	10D	1+10D	10D	1+10D	10
OH	330	10D	1+10D	10D	1+10D	10
OH	419	10D	1+10D	10D	1+10D	10
OH	440	7D	1+10D	10D	1+10D	10
OH	513	7D	1+10D	10D	1+10D	10
OH	567	10D	1+10D	10D	1+10D	10
OH	614	7D	1+10D	10D	1+10D	10
OH	740	7D	1+10D	10D	1+10D	10
OH	937	7D	1+10D	10D	1+10D	10
OK	405	7D	1+10D	7D	1+10D	
OK	539	10D	1+10D	10D	1+10D	
OK	580	7D	1+10D	7D	1+10D	
OK	918	10D	1+10D	10D	1+10D	
OR	458	10D	1+10D	10D	1+10D	
OR	503	10D	1+10D	10D	1+10D	
OR	541	10D	1+10D	10D	1+10D	
OR	971	10D	1+10D	10D	1+10D	
PA	215	10D	10D	(see note)	1+10D	11
PA	267	10D	10D	(see note)	1+10D	11
PA	412	10D	10D	(see note)	(see note)	12
PA	484	10D	10D	(see note)	1+10D	11
PA	570	7D	7D	1+10D	1+10D	
PA	610	10D	10D	(see note)	1+10D	11
PA	717	7D	7D	1+10D	1+10D	
PA	724	10D	10D	(see note)	(see note)	12
PA	814	7D	7D	1+10D	1+10D	
PA	878	10D	10D	(see note)	(see note)	12
Puerto Rico	787	10D	1+10D	10D	1+10D	
Puerto Rico	939	10D	1+10D	10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
RI	401	7D	7D	1+10D	1+10D	
SC	803	7D	1+10D	10D	1+10D	
SC	843	7D	1+10D	10D	1+10D	
SC	864	7D	1+10D	10D	1+10D	
SD	605	7D	1+10D	7D	1+10D	
TN	423	7D	1+10D	10D	1+10D	
TN	615	7D	1+10D	7D	1+10D	
TN	731	7D	1+10D	10D	1+10D	13
TN	865	7D	1+10D	10D	1+10D	
TN	901	7D	1+10D	10D	1+10D	
TN	931	7D	1+10D	7D	1+10D	
TX	210	7D	1+10D	10D	1+10D	
TX	214	10D	1+10D	10D	1+10D	
TX	254	7D	1+10D	10D	1+10D	
TX	281	10D	1+10D	10D	1+10D	
TX	325	7D	1+10D	10D	1+10D	
TX	361	7D	1+10D	10D	1+10D	
TX	409	7D	1+10D	10D	1+10D	
TX	430	10D	1+10D	10D	1+10D	
TX	432	7D	1+10D	10D	1+10D	
TX	469	10D	1+10D	10D	1+10D	
TX	512	7D	1+10D	10D	1+10D	
TX	682	10D	1+10D	10D	1+10D	
TX	713	10D	1+10D	10D	1+10D	
TX	806	7D	1+10D	10D	1+10D	
TX	817	10D	1+10D	10D	1+10D	
TX	830	7D	1+10D	10D	1+10D	
TX	832	10D	1+10D	10D	1+10D	
TX	903	10D	1+10D	10D	1+10D	
TX	915	7D	1+10D	10D	1+10D	
TX	936	7D	1+10D	10D	1+10D	
TX	940	7D	1+10D	10D	1+10D	
TX	956	7D	1+10D	10D	1+10D	
TX	972	10D	1+10D	10D	1+10D	
TX	979	7D	1+10D	10D	1+10D	
USVI	340	7D	1+10D	NA	1+10D	
UT	385	10D	1+10D	10D	1+10D	
UT	435	7D	1+10D	7D	1+10D	
UT	801	10D	1+10D	10D	1+10D	

DIALING PLANS

Location	NPA	Home NPA Local Calls	Home NPA Toll Calls	Foreign NPA Local Calls	Foreign NPA Toll Calls	Notes
VA	276	7D	1+10D	10D	1+10D	
VA	434	7D	1+10D	10D	1+10D	
VA	540	7D	1+10D	10D	1+10D	
VA	571	10D	1+10D	10D	1+10D	
VA	703	10D	1+10D	10D	1+10D	
VA	757	7D	1+10D	10D	1+10D	
VA	804	7D	1+10D	10D	1+10D	
VT	802	7D	1+10D	1+10D	1+10D	
WA	206	7D	1+10D	10D	1+10D	
WA	253	7D	1+10D	10D	1+10D	
WA	360	7D	1+10D	10D	1+10D	
WA	425	7D	1+10D	10D	1+10D	
WA	509	7D	1+10D	10D	1+10D	
WI	262	7D	1+10D	1+10D	1+10D	
WI	414	7D	1+10D	1+10D	1+10D	
WI	534	10D	1+10D	1+10D	1+10D	
WI	608	7D	1+10D	1+10D	1+10D	
WI	715	10D	1+10D	1+10D	1+10D	
WI	920	7D	1+10D	1+10D	1+10D	
WV	304	10D	1+10D	10D	1+10D	
WV	681	10D	1+10D	10D	1+10D	
WY	307	7D	1+10D	7D	1+10D	

Notes:

1. Other dialing plans may apply at the discretion of the local service provider.
2. The Florida Keys retained 7D local dialing.
3. Home NPA local calls are 7D in Brevard County.
4. See Planning Letter 291 for local dialing into the 954-754 NPAs.
5. All Extended Calling Service (ECS) calls directed to a presubscribed carrier will be dialed as 1+10D (PL 311).
6. Some cross-boundary 7D local dialing exists.
7. Calls between the 551 and 201 NPAs may be dialed as 10D.
8. Calls between the 732 and 848 NPAs may be dialed as 10D.
9. Calls between the 973 and 862 NPAs can be dialed as 10D.
10. Carriers must provide permissive 1+10D dialing for Foreign NPA Local Calls in areas where they provide optional Extended Area Service (EAS).
11. All calls within and between the 215, 267, 484, and 610 NPAs can be dialed as 10D or 1+10D. Calls to other NPAs must be dialed as 1+10D.
12. All calls within and between NPAs 412, 724, and 878 can be dialed as 10D or 1+10D. Calls to other NPAs must be dialed as 1+10D.
13. Note that some local calls may require dialing 10D or 1+10D depending on area and service provider.

ATTACHMENT 6 – 2011 NRUF AND NPA EXHAUST ANALYSIS

NANPA projects NPA exhaust on a semi-annual basis. These projections were produced in April and October 2011. The tables below show the current quarter/year in which each NPA is projected to exhaust, based on analysis performed in October 2011. The table also provides forecasted NPA exhaust information from previous exhaust projections developed by NANPA. The current forecast is based on NRUF data as it existed on October 1, 2011 for the US and January 1, 2011 for Canada, except where noted. Forecasts marked "R" are based on rationed assignment limits. The change between the current and previous forecasts is given in quarters. A positive number indicates that the exhaust date has moved out to a later date. A negative number indicates that the exhaust is now projected to occur sooner than previously expected.

NPA Exhaust Forecasts Sorted by Area Code

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
New Jersey	201/551	2049		2Q	2049		2Q	2049		2Q	2049		1Q	2043		1Q	2042		1Q	N/C	
District of Columbia	202	2019		1Q	2020		4Q	2018		4Q	2019		4Q	2019		3Q	2020		1Q	-7Q	b
Connecticut	203/475																2010		2Q		o
Canada	204	2012		4Q	2012		3Q				2013		2Q	2016		4Q	2011		1Q	+1Q	c
Alabama	205	2017		2Q	2015		4Q	2014		4Q	2014		1Q	2013		3Q	2013		1Q	+6Q	a
Washington	206	2025		1Q	2025		1Q	2025		1Q	2023		3Q	2021		2Q	2020		4Q	N/C	
Maine	207	2018		3Q	2019		1Q	2016		3Q	2016		1Q	2015		2Q	2014		4Q	-2Q	
Idaho	208	2018		3Q	2018		4Q	2015		3Q	2015		1Q	2014		1Q	2013		2Q	-1Q	
California	209	2026		2Q	2023		2Q	2023		2Q	2023		1Q	2022		4Q	2022		3Q	+12Q	a
Texas	210	2017		1Q	2017		3Q	2018		2Q	2018		2Q	2017		2Q	2016		3Q	-2Q	
New York	212/646	2018		3Q	2017		4Q	2016		2Q	2016		2Q	2015		2Q	2014		4Q	+3Q	a
California	213	2047		1Q	2047		1Q	2047		1Q	2046		4Q	2038		3Q	2038		1Q	N/C	
Texas	214/972/469	2021		2Q	2021		3Q	2021		3Q	2021		2Q	2019		3Q	2018		3Q	-1Q	
Pennsylvania	215/267	2018		3Q	2019		3Q	2015		4Q	2015		2Q	2014		3Q	2014		3Q	-4Q	b
Ohio	216	2039		2Q	2039		2Q	2039		2Q	2039		1Q	2032		4Q	2032		3Q	N/C	
Illinois	217	2015		3Q	2015		2Q	2013		3Q	2013		2Q	2012		4Q	2012		2Q	+1Q	
Minnesota	218	2021		1Q	2021		1Q	2018		2Q	2017		4Q	2017		2Q	2017		1Q	N/C	
Indiana	219	2032		2Q	2032		2Q	2032		2Q	2031		3Q	2031		2Q	2030		3Q	N/C	
Louisiana	225	2031		3Q	2031		3Q	2031		3Q	2031		2Q	2029		4Q	2029		3Q	N/C	
Mississippi	228	2046		1Q	2046		1Q	2046		1Q	2045		3Q	2042		1Q	2039		3Q	N/C	
Georgia	229	2023		1Q	2021		2Q	2018		4Q	2018		4Q	2015		2Q	2014		2Q	+7Q	a
Michigan	231	2032		1Q	2032		1Q	2032		1Q	2031		4Q	2031		4Q	2030		3Q	N/C	
Florida	239	2031		2Q	2031		2Q	2031		2Q	2030		3Q	2030		4Q	2029		3Q	N/C	
Michigan	248/947	2042		2Q	2042		2Q	2042		2Q	2040		2Q	2037		3Q	2036		1Q	N/C	
Canada	250/778/604	2014		3Q	2014		3Q				2016		3Q	2019		4Q	2019		4Q	N/C	c
Alabama	251	2033		4Q	2033		4Q	2033		4Q	2033		4Q	2029		2Q	2029		2Q	N/C	
North Carolina	252	2025		2Q	2022		2Q	2022		2Q	2020		4Q	2019		2Q	2019		1Q	+12Q	a
Washington	253	2031		4Q	2031		4Q	2031		4Q	2030		4Q	2029		4Q	2028		3Q	N/C	
Texas	254	2029		1Q	2024		1Q	2024		1Q	2023		4Q	2022		4Q	2022		2Q	+20Q	a
Alabama	256/938	2036		1Q	2036		1Q	2036		1Q	2035		2Q	2012	R	1Q	2011	R	3Q	N/C	
Indiana	260	2035		2Q	2035		2Q	2035		2Q	2034		4Q	2034		4Q	2032		3Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Wisconsin	262	2026		2Q	2026		2Q	2026		1Q	2026		1Q	2026		1Q	2024		4Q	N/C	
Michigan	269	2028		3Q	2028		3Q	2028		3Q	2028		2Q	2028		2Q	2028		1Q	N/C	
Kentucky	270	2015		1Q	2015		1Q	2014		3Q	2014		1Q	2012		4Q	2012	R	2Q	N/C	
Virginia	276													2050		3Q	2050		2Q		o
Canada	289/905	2014		2Q	2015		2Q				2014		1Q	2016		4Q	2028		3Q	-4Q	c
Maryland	301/240	2023		3Q	2022		1Q	2022		1Q	2021		4Q	2021		2Q	2022		3Q	+6Q	a
Delaware	302	2026		2Q	2026		2Q	2026		2Q	2026		2Q	2025		3Q	2025		2Q	N/C	
Colorado	303/720	2024		2Q	2021		2Q	2021		2Q	2025		3Q	2025		4Q	2025		2Q	+12Q	a
West Virginia	304/681	2036		1Q	2036		1Q	2036		1Q	2035		4Q	2035		2Q	2035		1Q	N/C	
Florida	305/786	2024		1Q	2024		2Q	2024		2Q	2023		4Q	2023		4Q	2022		4Q	-1Q	h
Florida	305A	2019		1Q	2018		2Q	2017		2Q	2016		3Q	2015		3Q	2012		4Q	+3Q	a, h
Canada	306	2013		4Q	2013		2Q				2018		2Q	2022		4Q	2022		4Q	-2Q	c
Wyoming	307	2029		3Q	2029		3Q	2029		3Q	2028		4Q	2026		3Q	2026		1Q	N/C	
Nebraska	308	2036		3Q	2036		3Q	2036		3Q	2035		2Q	2033		2Q	2033		2Q	N/C	
Illinois	309	2022		4Q	2021		3Q	2017		4Q	2017		1Q	2016		1Q	2015		2Q	+5Q	a
California	310/424	2041		3Q	2041		3Q	2041		3Q	2029		1Q	2026		3Q	2025		3Q	N/C	
Illinois	312/773/872	2030		1Q	2030		1Q	2030		1Q	2029		3Q	2029		2Q				N/C	m
Michigan	313	2025		4Q	2023		3Q	2020		1Q	2019		3Q	2019		3Q	2018		4Q	+9Q	a
Missouri	314	2023		3Q	2021		1Q	2021		1Q	2020		3Q	2019		2Q	2018		1Q	+10Q	a
New York	315	2015		2Q	2015		1Q	2013		4Q	2013		4Q	2013		4Q	2013		1Q	+1Q	
Kansas	316	2046		3Q	2046		3Q	2046		3Q	2040		4Q	2040		2Q	2037		4Q	N/C	
Indiana	317	2017		1Q	2018		2Q	2017		1Q	2017		1Q	2015		4Q	2015		1Q	-5Q	b
Louisiana	318	2023		3Q	2023		2Q	2018		1Q	2017		3Q	2017		2Q	2016		4Q	+1Q	
Iowa	319	2027		1Q	2023		1Q	2023		1Q	2022		3Q	2021		2Q	2020		2Q	+16Q	a
Minnesota	320	2027		1Q	2027		1Q	2027		1Q	2026		2Q	2025		1Q	2024		3Q	N/C	
Florida	321A	2033		2Q	2033		2Q	2033		2Q	2032		3Q	2032		1Q	2031		3Q	N/C	g
California	323	2018		2Q	2017		3Q	2015		1Q	2014		4Q	2013		4Q	2013		1Q	+3Q	
Texas	325	2035		3Q	2035		3Q	2035		3Q	2035		2Q	2033		3Q	2031		4Q	N/C	
Ohio	330/234	2032		2Q	2032		2Q	2032		2Q	2032		1Q	2031		4Q	2031		2Q	N/C	
Alabama	334	2019		1Q	2017		2Q	2016		2Q	2015		4Q	2015		1Q	2014		2Q	+7Q	a
North Carolina	336	2015		4Q	2015		4Q	2014		4Q	2014		3Q	2014		2Q	2014		2Q	N/C	
Louisiana	337	2027		2Q	2022		1Q	2022		1Q	2021		3Q	2019		4Q	2018		3Q	+21Q	a
Virgin Islands	340																2131		4Q		o
Florida	352	2021		2Q	2021		4Q	2021		4Q	2021		2Q	2021		2Q	2020		4Q	-2Q	
Washington	360	2017		1Q	2017		1Q	2014		1Q	2013		3Q	2012		4Q	2012		2Q	N/C	
Texas	361	2026		2Q	2022		2Q	2022		2Q	2021		1Q	2018		4Q	2017		4Q	+16Q	a
Florida	386	2033		1Q	2033		1Q	2033		1Q	2032		3Q	2029		4Q	2029		3Q	N/C	
Rhode Island	401	2026		2Q	2023		3Q	2023		3Q	2022		3Q	2021		3Q	2021		1Q	+11Q	a
Nebraska	402/531										2011		4Q	2011		3Q	2011		2Q		
Canada	403/587/780	2020		3Q	2020		3Q				2020		1Q	2022		3Q	2022		3Q	N/C	c
Georgia	404	2013		1Q	2015		2Q	2015		1Q	2015		1Q	2015		2Q	2014		3Q	-9Q	b
Oklahoma	405	2020		4Q	2018		2Q	2017		4Q	2017		2Q	2017		2Q	2016		2Q	+10Q	a

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Montana	406	2018		2Q	2017		1Q	2016		2Q	2015		4Q	2015		1Q	2013		4Q	+5Q	a
Florida	407/321	2015		1Q	2016		3Q	2013		4Q	2013		2Q	2013		1Q	2012		2Q	-6Q	b, g
California	408	2012		3Q	2013		1Q	2012		4Q	2012		4Q	2012		4Q	2012		2Q	N/C	k
Texas	409	2033		4Q	2033		4Q	2033		4Q	2034		1Q	2031		3Q	2029		4Q	N/C	
Maryland	410/443	2012		2Q	2012		2Q	2012		2Q	2012		1Q	2011		4Q	2011		3Q	N/C	
Pennsylvania	412/878/724	2028		2Q	2028		2Q	2028		2Q	2027		3Q	2026		3Q	2026		2Q	N/C	
Massachusetts	413	2025		3Q	2025		3Q	2025		3Q	2024		4Q	2024		3Q	2024		1Q	N/C	
Wisconsin	414	2034		1Q	2034		1Q	2034		1Q	2033		1Q	2033		1Q	2032		3Q	N/C	
California	415	2015		3Q	2019		3Q	2017		2Q	2016		4Q	2016		3Q	2016		1Q	-16Q	b
Canada	416/647	2014		2Q	2015		2Q				2015		3Q	2021		4Q	2021		4Q	-4Q	c
Missouri	417	2025		1Q	2022		3Q	2017		4Q	2017		2Q	2015		3Q	2013		2Q	+10Q	a
Canada	418/581	2033		1Q	2033		1Q													N/C	c, d
Ohio	419/567	2026		3Q	2026		3Q	2026		3Q	2025		4Q	2025		3Q	2024		3Q	N/C	
Tennessee	423	2017		3Q	2018		4Q	2018		4Q	2018		1Q	2018		1Q	2017		3Q	-5Q	b
Washington	425	2032		3Q	2032		3Q	2032		3Q	2031		4Q	2031		3Q	2030		4Q	N/C	
Texas	432	2038		4Q	2038		4Q	2038		4Q	2037		4Q	2037		1Q	2036		3Q	N/C	
Virginia	434	2037		1Q	2037		1Q	2037		1Q	2036		2Q	2035		4Q	2036		3Q	N/C	
Utah	435	2033		3Q	2033		3Q	2033		3Q	2033		2Q	2031		2Q	2030		3Q	N/C	
Ohio	440	2025		2Q	2021		3Q	2021		3Q	2020		4Q	2020		2Q	2019		3Q	+15Q	a
Canada	450/579										2010		4Q	2010		4Q	2010		4Q		c, d
Georgia	478	2031		3Q	2031		3Q	2031		3Q	2031		1Q	2030		4Q	2030		2Q	N/C	
Arkansas	479	2032		4Q	2032		4Q	2032		4Q	2032		2Q	2030		4Q	2029		1Q	N/C	
Arizona	480	2022		4Q	2022		2Q	2022		2Q	2023		4Q	2023		1Q	2022		1Q	+2Q	
Arkansas	501	2027		1Q	2027		1Q	2027		1Q	2026		3Q	2026		1Q	2025		3Q	N/C	
Kentucky	502	2027		3Q	2023		4Q	2023		4Q	2023		2Q	2022		2Q	2021		1Q	+15Q	a
Oregon	503/971	2035		2Q	2035		2Q	2035		2Q	2034		2Q	2034		2Q	2034		2Q	N/C	
Louisiana	504	2030		2Q	2030		2Q	2030		2Q	2029		4Q	2028		1Q	2027		4Q	N/C	
New Mexico	505	2026		2Q	2023		4Q	2023		4Q	2023		3Q	2023		2Q	2023		1Q	+10Q	a
Canada	506																				c, d
Minnesota	507	2017		4Q	2017		3Q	2015		3Q	2016		1Q	2015		3Q	2015		1Q	+1Q	
Massachusetts	508/774	2025		1Q	2021		1Q	2021		1Q	2020		3Q	2020		3Q	2020		1Q	+16Q	a
Washington	509	2022		4Q	2020		3Q	2017		2Q	2016		4Q	2016		1Q	2015		1Q	+9Q	a
California	510	2022		2Q	2019		4Q	2016		4Q	2015	R	1Q	2014	R	4Q	2014	R	2Q	+10Q	a
Texas	512	2014		2Q	2015		3Q	2014		2Q	2014		2Q	2014		1Q	2012		3Q	-5Q	b
Ohio	513	2026		3Q	2026		3Q	2020		2Q	2020		1Q	2020		1Q	2018		3Q	N/C	
Canada	514/438	2023		2Q	2023		2Q				2029		3Q							N/C	c
Iowa	515	2025		4Q	2025		4Q	2025		4Q	2025		4Q	2024		3Q	2024		1Q	N/C	
New York	516	2027		1Q	2022		4Q	2018		4Q	2018		3Q	2018		2Q	2017		3Q	+17Q	a
Michigan	517	2026		1Q	2021		1Q	2021		1Q	2020		3Q	2020		2Q	2019		4Q	+20Q	a
New York	518	2018		3Q	2020		1Q	2016		4Q	2016		1Q	2015		3Q	2015		1Q	-6Q	b
Canada	519/226	2022		3Q	2022		3Q				2021		2Q	2019		2Q	2019		2Q	N/C	c
Arizona	520	2029		3Q	2029		3Q	2029		3Q	2029		1Q	2027		3Q	2027		2Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
California	530	2023		3Q	2022		3Q	2018		1Q	2017		4Q	2017		2Q	2016		4Q	+4Q	a
Virginia	540	2022		1Q	2018		2Q	2017		3Q	2017		1Q	2016		4Q	2017		3Q	+15Q	a
Oregon	541/458	2033		3Q	2033		3Q	2033		3Q	2032		4Q	2031		1Q	2010		2Q	N/C	
California	559	2025		3Q	2025		3Q	2019		2Q	2019	R	1Q	2018	R	4Q	2018	R	2Q	N/C	
Florida	561	2024		3Q	2022		4Q	2022		4Q	2022		2Q	2022		1Q	2021		3Q	+7Q	a
California	562	2027		2Q	2027		2Q	2027		2Q	2026		3Q	2023		4Q	2023		2Q	N/C	
Iowa	563	2036		1Q	2036		1Q	2036		1Q	2035		4Q	2034		1Q	2031		1Q	N/C	
Pennsylvania	570	2013		3Q	2013		3Q	2012		3Q	2011		3Q	2011		3Q	2011		3Q	N/C	
Missouri	573	2024		3Q	2022		1Q	2018		1Q	2017		2Q	2016		3Q	2015		2Q	+10Q	a
Indiana	574	2036		4Q	2036		4Q	2036		4Q	2036		1Q	2035		4Q	2035		2Q	N/C	
New Mexico	575	2028		2Q	2028		2Q	2028		2Q	2027		4Q	2027		3Q	2027		3Q	N/C	
Oklahoma	580	2025		2Q	2020		2Q	2017		2Q	2016		3Q	2015		2Q	2014		4Q	+20Q	a
New York	585	2027		4Q	2024		2Q	2024		2Q	2024		1Q	2023		2Q	2022		4Q	+14Q	a
Michigan	586	2032		4Q	2032		4Q	2032		4Q	2031		3Q	2031		3Q	2031		3Q	N/C	
Mississippi	601/769	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2034		2Q	2033		4Q	N/C	
Arizona	602	2025		3Q	2025		3Q	2025		3Q	2024		4Q	2023		2Q	2021		4Q	N/C	
New Hampshire	603	2016		3Q	2015		1Q	2013		2Q	2012		3Q	2012		2Q	2011		4Q	+6Q	a
South Dakota	605	2022		3Q	2021		1Q	2019		4Q	2019		3Q	2018		4Q	2018		1Q	+6Q	a
Kentucky	606	2028		4Q	2023		4Q	2023		4Q	2023		1Q	2021		2Q	2020		4Q	+20Q	a
New York	607	2029		2Q	2029		2Q	2029		2Q	2028		4Q	2026		1Q	2025		4Q	N/C	
Wisconsin	608	2025		1Q	2025		1Q	2019		4Q	2019		3Q	2018		4Q	2017		4Q	N/C	
New Jersey	609	2015		1Q	2016		4Q	2014		3Q	2014		2Q	2013		4Q	2013		3Q	-7Q	b
Pennsylvania	610/484	2019		1Q	2018		4Q	2014		4Q	2014		2Q	2013		4Q	2013		3Q	+1Q	
Minnesota	612	2035		3Q	2035		3Q	2035		3Q	2035		2Q	2031		3Q	2029		3Q	N/C	
Canada	613/343	2034		1Q	2034		1Q				2011		1Q							N/C	c, d
Ohio	614	2023		1Q	2022		1Q	2019		2Q	2018		4Q	2018		1Q	2017		1Q	+4Q	
Tennessee	615	2016		3Q	2015		3Q	2013		4Q	2013		4Q	2013		4Q	2013		4Q	+4Q	
Michigan	616	2027		3Q	2027		3Q	2027		3Q	2027		3Q	2027		2Q	2026		4Q	N/C	
Massachusetts	617/857	2032		3Q	2032		3Q	2032		3Q	2032		1Q	2031		4Q	2031		3Q	N/C	
Illinois	618	2016		3Q	2017		1Q	2014		2Q	2014		1Q	2013		2Q	2012		4Q	-2Q	
California	619	2022		2Q	2019		2Q	2017		2Q	2016		4Q	2016		2Q	2015		4Q	+12Q	a
Kansas	620	2026		3Q	2026		3Q	2019		4Q	2018		1Q	2017		2Q	2015		4Q	N/C	
Arizona	623	2042		4Q	2042		4Q	2042		4Q	2042		3Q	2040		1Q	2039		3Q	N/C	
California	626	2027		4Q	2021		2Q	2021		2Q	2020	R	4Q	2020	R	2Q	2019	R	4Q	+26Q	a
Illinois	630/331	2036		4Q	2036		4Q	2036		4Q	2036		3Q	2036		2Q	2035		2Q	N/C	
New York	631	2019		2Q	2019		3Q	2015		2Q	2014		4Q	2014		2Q	2014		1Q	-1Q	
Missouri	636	2034		4Q	2034		4Q	2034		4Q	2034		2Q	2032		2Q	2030		3Q	N/C	
Iowa	641	2025		3Q	2025		3Q	2025		3Q	2024		1Q	2023		2Q	2021		2Q	N/C	
California	650	2028		1Q	2023		1Q	2023		1Q	2022		3Q	2022		1Q	2021		4Q	+20Q	a
Minnesota	651	2031		4Q	2031		4Q	2031		4Q	2031		2Q	2030		1Q	2028		3Q	N/C	
Missouri	660	2028		3Q	2024		1Q	2024		1Q	2022		2Q	2020		4Q	2019		3Q	+18Q	a
California	661	2029		3Q	2024		3Q	2024		3Q	2024		2Q	2023		1Q	2022		4Q	+20Q	a

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Mississippi	662	2016		1Q	2017		3Q	2014		2Q	2013		4Q	2013		3Q	2012		4Q	-6Q	b
CNMI	670																2322		3Q		o
Guam	671																2202		4Q		o
American Samoa	684																2076		3Q		o
North Dakota	701	2018		2Q	2017		3Q	2016		1Q	2015		1Q	2014		3Q	2013		4Q	+3Q	a
Nevada	702	2015		2Q	2015		2Q	2015		3Q	2015		1Q	2014		4Q	2014		1Q	N/C	
Virginia	703/571	2028		3Q	2024		4Q	2024		4Q	2024		2Q	2024		1Q	2023		4Q	+15Q	a
North Carolina	704/980	2028		4Q	2028		4Q	2028		4Q	2028		2Q	2027		1Q	2026		3Q	N/C	
Canada	705/249	2027		4Q	2027		4Q				2011		4Q	2011		4Q	2012		4Q	N/C	c
Georgia	706/762	2028		4Q	2028		4Q	2028		4Q	2028		2Q	2028		2Q	2027		2Q	N/C	
California	707	2024		4Q	2022		1Q	2017		4Q	2017		3Q	2017		1Q	2016		3Q	+11Q	a
Illinois	708	2015		1Q	2015		1Q	2014		3Q	2014		1Q	2013		4Q	2013		2Q	N/C	
Canada	709													2030		3Q	2030		3Q		c, d
Iowa	712	2028		4Q	2023		4Q	2023		4Q	2022		4Q	2022		3Q	2021		3Q	+20Q	a
Texas	713/281/832	2015		1Q	2015		3Q	2014		4Q	2014		3Q	2014		1Q	2013		3Q	-2Q	
California	714/657	2039		4Q	2039		4Q	2039		4Q	2039		3Q	2039		2Q	2038		4Q	N/C	
Wisconsin	715/534	2039		2Q	2039		2Q	2039		2Q	2039		2Q	2011		4Q	2011		3Q	N/C	
New York	716	2025		1Q	2021		3Q	2019		3Q	2019		2Q	2018		3Q	2018		2Q	+14Q	a
Pennsylvania	717	2016		4Q	2015		2Q	2013		3Q	2012		4Q	2012		3Q	2012		3Q	+6Q	a
New York	718/347/929	2020		2Q	2011		3Q	2011		3Q	2012		2Q	2012		2Q	2011		4Q	+35Q	f
Colorado	719	2025		1Q	2025		1Q	2025		1Q	2024		3Q	2023		3Q	2023		1Q	N/C	
Florida	727	2033		3Q	2033		3Q	2033		3Q	2033		1Q	2029		3Q	2027		4Q	N/C	
Tennessee	731	2034		1Q	2034		1Q	2034		1Q	2033		3Q	2030		3Q	2027		4Q	N/C	
New Jersey	732/848	2033		4Q	2033		4Q	2033		4Q	2032		3Q	2032		1Q	2031		2Q	N/C	
Michigan	734	2025		1Q	2021		2Q	2021		2Q	2020		4Q	2020		2Q	2020		1Q	+15Q	a
Ohio	740	2016		2Q	2015		1Q	2013		3Q	2013		1Q	2012		3Q	2012		1Q	+5Q	a
Virginia	757	2019		2Q	2019		2Q	2016		3Q	2016		1Q	2015		3Q	2015		3Q	N/C	
California	760/442	2038		1Q	2038		1Q	2038		1Q	2037		4Q	2037		3Q	2009		4Q	N/C	
Minnesota	763	2032		4Q	2032		4Q	2032		4Q	2031		3Q	2031		3Q	2031		1Q	N/C	
Indiana	765	2026		2Q	2026		2Q	2018		3Q	2018		2Q	2017		4Q	2017		1Q	N/C	
Georgia	770/678/470	2026		4Q	2026		4Q	2026		4Q	2026		3Q	2025		4Q	2025		1Q	N/C	
Florida	772	2040		1Q	2040		1Q	2040		1Q	2039		4Q	2037		4Q	2037		2Q	N/C	
Nevada	775	2029		1Q	2029		1Q	2029		1Q	2028		4Q	2027		2Q	2026		4Q	N/C	
Massachusetts	781/339	2037		3Q	2037		3Q	2037		3Q	2036		4Q	2035		2Q	2034		4Q	N/C	
Kansas	785	2023		2Q	2020		3Q	2017		1Q	2016		1Q	2015		2Q	2014		1Q	+11Q	a
Puerto Rico	787/939	2028		2Q	2028		2Q	2028		2Q	2027		3Q	2027		3Q	2027		1Q	N/C	
Utah	801/385	2037		2Q	2037		2Q	2037		2Q	2035		4Q	2034		4Q	2034		4Q	N/C	
Vermont	802	2025		2Q	2025		2Q	2020		1Q	2019		3Q	2018		3Q	2018		3Q	N/C	
South Carolina	803	2016		2Q	2018		4Q	2014		4Q	2014		2Q	2014		2Q	2013		4Q	-10Q	b
Virginia	804	2026		1Q	2026		1Q	2020		1Q	2019		3Q	2019		2Q	2019		2Q	N/C	
California	805	2020		3Q	2018		3Q	2015		3Q	2014		4Q	2014		4Q	2014		3Q	+8Q	a
Texas	806	2019		1Q	2018		2Q	2017		4Q	2017		3Q	2017		4Q	2017		2Q	+3Q	a

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Canada	807																				c,d
Hawaii	808	2026		4Q	2026		4Q	2026		4Q	2024		4Q	2023		4Q	2023		2Q	N/C	
Michigan	810	2028		3Q	2028		3Q	2028		3Q	2028		2Q	2027		4Q	2027		2Q	N/C	
Indiana	812	2015		2Q	2015		2Q	2014		2Q	2013		3Q	2013		1Q	2012		3Q	N/C	
Florida	813	2023		2Q	2024		2Q	2019		4Q	2019		3Q	2018		4Q	2018		2Q	-4Q	b
Pennsylvania	814	2016		1Q	2015		1Q	2013		1Q	2012		2Q	2012		1Q	2012		3Q	+4Q	a
Illinois	815/779	2036		2Q	2036		2Q	2036		2Q	2036		1Q	2036		3Q	2035		2Q	N/C	
Missouri	816	2026		2Q	2026		2Q	2020		3Q	2020		1Q	2019		2Q	2018		3Q	N/C	
Texas	817/682	2037		2Q	2037		2Q	2037		2Q	2035		4Q	2034		3Q	2033		1Q	N/C	
California	818/747	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2034		1Q	2032		4Q	N/C	
Canada	819	2012		4Q	2013		3Q				2014		1Q	2015		1Q	2015		1Q	-3Q	c
North Carolina	828	2026		4Q	2026		4Q	2020		1Q	2019		2Q	2018		2Q	2017		3Q	N/C	
Texas	830	2028		3Q	2024		4Q	2024		4Q	2023		1Q	2022		1Q	2021		1Q	+15Q	a
California	831	2037		1Q	2037		1Q	2037		1Q	2036		3Q	2036		2Q	2035		4Q	N/C	
South Carolina	843	2015		4Q	2015		2Q	2013		3Q	2013		1Q	2012		2Q	2011		3Q	+2Q	
New York	845	2023		1Q	2023		4Q	2018		3Q	2018		1Q	2017		2Q	2017		1Q	-3Q	b
Illinois	847/224	2026		2Q	2023		4Q	2023		4Q	2023		2Q	2022		4Q	2022		3Q	+10Q	a
Florida	850	2017		3Q	2017		3Q	2014		4Q	2014		3Q	2014		2Q	2013		3Q	N/C	
New Jersey	856	2027		4Q	2023		1Q	2023		1Q	2022		3Q	2022		2Q	2021		3Q	+19Q	a
California	858	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2031		1Q	2030		3Q	N/C	
Kentucky	859	2029		2Q	2029		2Q	2029		2Q	2027		3Q	2025		1Q	2023		4Q	N/C	
Connecticut	860	2014		4Q	2012		4Q	2012		3Q	2012		2Q	2012		1Q	2011		2Q	+8Q	a
Florida	863	2033		4Q	2033		4Q	2033		4Q	2033		1Q	2031		2Q	2029		3Q	N/C	
South Carolina	864	2026		2Q	2023		2Q	2018		2Q	2017		4Q	2017		2Q	2016		2Q	+12Q	a
Tennessee	865	2028		4Q	2028		4Q	2028		4Q	2028		3Q	2027		4Q	2027		2Q	N/C	
Canada	867																				c, d
Arkansas	870	2015		2Q	2017		3Q	2015		1Q	2014		1Q	2013		3Q	2011		4Q	-9Q	b
Tennessee	901	2026		1Q	2026		1Q	2026		1Q	2025		3Q	2025		2Q	2025		1Q	N/C	
Canada	902	2017		2Q	2017		2Q				2018		1Q	2019		2Q	2019		2Q	N/C	c
Texas	903/430	2028		1Q	2028		1Q	2028		1Q	2027		1Q	2026		2Q	2025		4Q	N/C	
Florida	904	2024		2Q	2021		2Q	2021		2Q	2020		3Q	2019		4Q	2018		3Q	+12Q	a
Michigan	906	2044		2Q	2044		2Q	2044		2Q	2043		4Q	2040		3Q	2038		4Q	N/C	
Alaska	907	2024		3Q	2019		1Q	2016		4Q	2015		3Q	2015		1Q	2013		3Q	+22Q	a
New Jersey	908	2026		4Q	2021		4Q	2021		4Q	2019		4Q	2019		1Q	2018		1Q	+20Q	a
California	909	2021		1Q	2021		1Q	2017		3Q	2016		4Q	2016		1Q	2015		3Q	N/C	
North Carolina	910	2018		1Q	2018		3Q	2015		3Q	2015		1Q	2015		1Q	2014		3Q	-2Q	
Georgia	912	2024		1Q	2021		2Q	2021		2Q	2020		2Q	2019		4Q	2019		2Q	+11Q	a
Kansas	913	2035		2Q	2035		2Q	2035		2Q	2034		3Q	2033		2Q	2031		4Q	N/C	
New York	914	2028		3Q	2028		3Q	2020		4Q	2019		4Q	2019		3Q	2018		3Q	N/C	
Texas	915	2035		4Q	2035		4Q	2035		4Q	2035		3Q	2033		2Q	2032		1Q	N/C	
California	916	2024		1Q	2020		2Q	2017		2Q	2016		4Q	2016		3Q	2016		1Q	+15Q	a
New York	917																				e

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Oklahoma	918/539										2012		4Q	2012		2Q	2011		4Q		o
North Carolina	919/984	2043		3Q	2043		3Q	2043		3Q	2041		3Q	2041		3Q	2041		1Q	N/C	
Wisconsin	920	2016		2Q	2014		2Q	2014		2Q	2013		4Q	2013		3Q	2012		4Q	+8Q	a
California	925	2027		3Q	2027		3Q	2027		3Q	2025		3Q	2025		1Q	2024		1Q	N/C	
Arizona	928	2025		4Q	2025		4Q	2025		4Q	2024		4Q	2024		4Q	2023		2Q	N/C	
Tennessee	931	2025		1Q	2025		1Q	2025		1Q	2024		4Q	2024		3Q	2024		1Q	N/C	
Texas	936	2037		2Q	2037		2Q	2037		2Q	2036		3Q	2036		3Q	2036		1Q	N/C	
Ohio	937	2021		2Q	2020		3Q	2015		4Q	2015		3Q	2014		4Q	2013		4Q	+3Q	a
Texas	940	2033		1Q	2033		1Q	2033		1Q	2032		3Q	2031		4Q	2030		3Q	N/C	
Florida	941	2031		2Q	2031		2Q	2031		2Q	2030		4Q	2030		3Q	2029		3Q	N/C	
California	949	2034		2Q	2034		2Q	2034		2Q	2034		1Q	2031		4Q	2031		3Q	N/C	
California	951	2025		4Q	2025		4Q	2025		4Q	2025		3Q	2024		1Q	2023		3Q	N/C	
Minnesota	952	2035		3Q	2035		3Q	2035		3Q	2035		1Q	2032		1Q	2031		3Q	N/C	
Florida	954/754	2036		1Q	2036		1Q	2036		1Q	2035		3Q	2035		2Q	2034		4Q	N/C	
Texas	956	2022		3Q	2022		2Q	2020		1Q	2019		3Q	2018		3Q	2017		3Q	+1Q	
Colorado	970	2024		3Q	2022		1Q	2018		1Q	2017		3Q	2016		4Q	2016		2Q	+10Q	a
New Jersey	973/862	2025		3Q	2025		3Q	2025		3Q	2025		1Q	2024		4Q	2024		1Q	N/C	
Massachusetts	978/351	2036		2Q	2036		2Q	2036		2Q	2035		4Q	2035		3Q	2034		4Q	N/C	
Texas	979	2034		2Q	2034		2Q	2034		2Q	2033		4Q	2033		4Q	2032		1Q	N/C	
Louisiana	985	2037		4Q	2037		4Q	2037		4Q	2037		3Q	2035		1Q	2032		4Q	N/C	
Michigan	989	2025		1Q	2021		1Q	2017		2Q	2016		3Q	2015		3Q	2014		4Q	+16Q	a

2011 NRUF AND NPA EXHAUST ANALYSIS

NPA exhaust forecasts sorted by location

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Alabama	205	2017		2Q	2015		4Q	2014		4Q	2014		1Q	2013		3Q	2013		1Q	+6Q	a
Alabama	251	2033		4Q	2033		4Q	2033		4Q	2033		4Q	2029		2Q	2029		2Q	N/C	
Alabama	256/938	2036		1Q	2036		1Q	2036		1Q	2035		2Q	2012	R	1Q	2011	R	3Q	N/C	
Alabama	334	2019		1Q	2017		2Q	2016		2Q	2015		4Q	2015		1Q	2014		2Q	+7Q	a
Alaska	907	2024		3Q	2019		1Q	2016		4Q	2015		3Q	2015		1Q	2013		3Q	+22Q	a
American Samoa	684																2076		3Q		o
Arizona	480	2022		4Q	2022		2Q	2022		2Q	2023		4Q	2023		1Q	2022		1Q	+2Q	
Arizona	520	2029		3Q	2029		3Q	2029		3Q	2029		1Q	2027		3Q	2027		2Q	N/C	
Arizona	602	2025		3Q	2025		3Q	2025		3Q	2024		4Q	2023		2Q	2021		4Q	N/C	
Arizona	623	2042		4Q	2042		4Q	2042		4Q	2042		3Q	2040		1Q	2039		3Q	N/C	
Arizona	928	2025		4Q	2025		4Q	2025		4Q	2024		4Q	2024		4Q	2023		2Q	N/C	
Arkansas	479	2032		4Q	2032		4Q	2032		4Q	2032		2Q	2030		4Q	2029		1Q	N/C	
Arkansas	501	2027		1Q	2027		1Q	2027		1Q	2026		3Q	2026		1Q	2025		3Q	N/C	
Arkansas	870	2015		2Q	2017		3Q	2015		1Q	2014		1Q	2013		3Q	2011		4Q	-9Q	b
California	209	2026		2Q	2023		2Q	2023		2Q	2023		1Q	2022		4Q	2022		3Q	+12Q	a
California	213	2047		1Q	2047		1Q	2047		1Q	2046		4Q	2038		3Q	2038		1Q	N/C	
California	310/424	2041		3Q	2041		3Q	2041		3Q	2029		1Q	2026		3Q	2025		3Q	N/C	
California	323	2018		2Q	2017		3Q	2015		1Q	2014		4Q	2013		4Q	2013		1Q	+3Q	
California	408	2012		3Q	2013		1Q	2012		4Q	2012		4Q	2012		4Q	2012		2Q	N/C	k
California	415	2015		3Q	2019		3Q	2017		2Q	2016		4Q	2016		3Q	2016		1Q	-16Q	b
California	510	2022		2Q	2019		4Q	2016		4Q	2015	R	1Q	2014	R	4Q	2014	R	2Q	+10Q	a
California	530	2023		3Q	2022		3Q	2018		1Q	2017		4Q	2017		2Q	2016		4Q	+4Q	a
California	559	2025		3Q	2025		3Q	2019		2Q	2019	R	1Q	2018	R	4Q	2018	R	2Q	N/C	
California	562	2027		2Q	2027		2Q	2027		2Q	2026		3Q	2023		4Q	2023		2Q	N/C	
California	619	2022		2Q	2019		2Q	2017		2Q	2016		4Q	2016		2Q	2015		4Q	+12Q	a
California	626	2027		4Q	2021		2Q	2021		2Q	2020	R	4Q	2020	R	2Q	2019	R	4Q	+26Q	a
California	650	2028		1Q	2023		1Q	2023		1Q	2022		3Q	2022		1Q	2021		4Q	+20Q	a
California	661	2029		3Q	2024		3Q	2024		3Q	2024		2Q	2023		1Q	2022		4Q	+20Q	a
California	707	2024		4Q	2022		1Q	2017		4Q	2017		3Q	2017		1Q	2016		3Q	+11Q	a
California	714/657	2039		4Q	2039		4Q	2039		4Q	2039		3Q	2039		2Q	2038		4Q	N/C	
California	760/442	2038		1Q	2038		1Q	2038		1Q	2037		4Q	2037		3Q	2009		4Q	N/C	
California	805	2020		3Q	2018		3Q	2015		3Q	2014		4Q	2014		4Q	2014		3Q	+8Q	a
California	818/747	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2034		1Q	2032		4Q	N/C	
California	831	2037		1Q	2037		1Q	2037		1Q	2036		3Q	2036		2Q	2035		4Q	N/C	
California	858	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2031		1Q	2030		3Q	N/C	
California	909	2021		1Q	2021		1Q	2017		3Q	2016		4Q	2016		1Q	2015		3Q	N/C	
California	916	2024		1Q	2020		2Q	2017		2Q	2016		4Q	2016		3Q	2016		1Q	+15Q	a
California	925	2027		3Q	2027		3Q	2027		3Q	2025		3Q	2025		1Q	2024		1Q	N/C	
California	949	2034		2Q	2034		2Q	2034		2Q	2034		1Q	2031		4Q	2031		3Q	N/C	
California	951	2025		4Q	2025		4Q	2025		4Q	2025		3Q	2024		1Q	2023		3Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Canada	204	2012		4Q	2012		3Q				2013		2Q	2016		4Q	2011		1Q	+1Q	c
Canada	250/778/604	2014		3Q	2014		3Q				2016		3Q	2019		4Q	2019		4Q	N/C	c
Canada	289/905	2014		2Q	2015		2Q				2014		1Q	2016		4Q	2028		3Q	-4Q	c
Canada	306	2013		4Q	2013		2Q				2018		2Q	2022		4Q	2022		4Q	-2Q	c
Canada	403/587/780	2020		3Q	2020		3Q				2020		1Q	2022		3Q	2022		3Q	N/C	c
Canada	416/647	2014		2Q	2015		2Q				2015		3Q	2021		4Q	2021		4Q	-4Q	c
Canada	418/581	2033		1Q	2033		1Q													N/C	c, d
Canada	450/579										2010		4Q	2010		4Q	2010		4Q		c, d
Canada	506																				c, d
Canada	514/438	2023		2Q	2023		2Q				2029		3Q							N/C	c
Canada	519/226	2022		3Q	2022		3Q				2021		2Q	2019		2Q	2019		2Q	N/C	c
Canada	613/343	2034		1Q	2034		1Q				2011		1Q							N/C	c, d
Canada	705/249	2027		4Q	2027		4Q				2011		4Q	2011		4Q	2012		4Q	N/C	c
Canada	709													2030		3Q	2030		3Q		c, d
Canada	807																				c, d
Canada	819	2012		4Q	2013		3Q				2014		1Q	2015		1Q	2015		1Q	-3Q	c
Canada	867																				c, d
Canada	902	2017		2Q	2017		2Q				2018		1Q	2019		2Q	2019		2Q	N/C	c
CNMI	670																2322		3Q		o
Colorado	303/720	2024		2Q	2021		2Q	2021		2Q	2025		3Q	2025		4Q	2025		2Q	+12Q	a
Colorado	719	2025		1Q	2025		1Q	2025		1Q	2024		3Q	2023		3Q	2023		1Q	N/C	
Colorado	970	2024		3Q	2022		1Q	2018		1Q	2017		3Q	2016		4Q	2016		2Q	+10Q	a
Connecticut	203/475																2010		2Q		o
Connecticut	860	2014		4Q	2012		4Q	2012		3Q	2012		2Q	2012		1Q	2011		2Q	+8Q	a
Delaware	302	2026		2Q	2026		2Q	2026		2Q	2026		2Q	2025		3Q	2025		2Q	N/C	
District of Columbia	202	2019		1Q	2020		4Q	2018		4Q	2019		4Q	2019		3Q	2020		1Q	-7Q	b
Florida	239	2031		2Q	2031		2Q	2031		2Q	2030		3Q	2030		4Q	2029		3Q	N/C	
Florida	305/786	2024		1Q	2024		2Q	2024		2Q	2023		4Q	2023		4Q	2022		4Q	-1Q	h
Florida	305A	2019		1Q	2018		2Q	2017		2Q	2016		3Q	2015		3Q	2012		4Q	+3Q	a, h
Florida	321A	2033		2Q	2033		2Q	2033		2Q	2032		3Q	2032		1Q	2031		3Q	N/C	g
Florida	352	2021		2Q	2021		4Q	2021		4Q	2021		2Q	2021		2Q	2020		4Q	-2Q	
Florida	386	2033		1Q	2033		1Q	2033		1Q	2032		3Q	2029		4Q	2029		3Q	N/C	
Florida	407/321	2015		1Q	2016		3Q	2013		4Q	2013		2Q	2013		1Q	2012		2Q	-6Q	b, g
Florida	561	2024		3Q	2022		4Q	2022		4Q	2022		2Q	2022		1Q	2021		3Q	+7Q	a
Florida	727	2033		3Q	2033		3Q	2033		3Q	2033		1Q	2029		3Q	2027		4Q	N/C	
Florida	772	2040		1Q	2040		1Q	2040		1Q	2039		4Q	2037		4Q	2037		2Q	N/C	
Florida	813	2023		2Q	2024		2Q	2019		4Q	2019		3Q	2018		4Q	2018		2Q	-4Q	b
Florida	850	2017		3Q	2017		3Q	2014		4Q	2014		3Q	2014		2Q	2013		3Q	N/C	
Florida	863	2033		4Q	2033		4Q	2033		4Q	2033		1Q	2031		2Q	2029		3Q	N/C	
Florida	904	2024		2Q	2021		2Q	2021		2Q	2020		3Q	2019		4Q	2018		3Q	+12Q	a
Florida	941	2031		2Q	2031		2Q	2031		2Q	2030		4Q	2030		3Q	2029		3Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Florida	954/754	2036		1Q	2036		1Q	2036		1Q	2035		3Q	2035		2Q	2034		4Q	N/C	
Georgia	229	2023		1Q	2021		2Q	2018		4Q	2018		4Q	2015		2Q	2014		2Q	+7Q	a
Georgia	404	2013		1Q	2015		2Q	2015		1Q	2015		1Q	2015		2Q	2014		3Q	-9Q	b
Georgia	478	2031		3Q	2031		3Q	2031		3Q	2031		1Q	2030		4Q	2030		2Q	N/C	
Georgia	706/762	2028		4Q	2028		4Q	2028		4Q	2028		2Q	2028		2Q	2027		2Q	N/C	
Georgia	770/678/470	2026		4Q	2026		4Q	2026		4Q	2026		3Q	2025		4Q	2025		1Q	N/C	
Georgia	912	2024		1Q	2021		2Q	2021		2Q	2020		2Q	2019		4Q	2019		2Q	+11Q	a
Guam	671																2202		4Q		o
Hawaii	808	2026		4Q	2026		4Q	2026		4Q	2024		4Q	2023		4Q	2023		2Q	N/C	
Idaho	208	2018		3Q	2018		4Q	2015		3Q	2015		1Q	2014		1Q	2013		2Q	-1Q	
Illinois	217	2015		3Q	2015		2Q	2013		3Q	2013		2Q	2012		4Q	2012		2Q	+1Q	
Illinois	309	2022		4Q	2021		3Q	2017		4Q	2017		1Q	2016		1Q	2015		2Q	+5Q	a
Illinois	312/773/872	2030		1Q	2030		1Q	2030		1Q	2029		3Q	2029		2Q				N/C	m
Illinois	618	2016		3Q	2017		1Q	2014		2Q	2014		1Q	2013		2Q	2012		4Q	-2Q	
Illinois	630/331	2036		4Q	2036		4Q	2036		4Q	2036		3Q	2036		2Q	2035		2Q	N/C	
Illinois	708	2015		1Q	2015		1Q	2014		3Q	2014		1Q	2013		4Q	2013		2Q	N/C	
Illinois	815/779	2036		2Q	2036		2Q	2036		2Q	2036		1Q	2036		3Q	2035		2Q	N/C	
Illinois	847/224	2026		2Q	2023		4Q	2023		4Q	2023		2Q	2022		4Q	2022		3Q	+10Q	a
Indiana	219	2032		2Q	2032		2Q	2032		2Q	2031		3Q	2031		2Q	2030		3Q	N/C	
Indiana	260	2035		2Q	2035		2Q	2035		2Q	2034		4Q	2034		4Q	2032		3Q	N/C	
Indiana	317	2017		1Q	2018		2Q	2017		1Q	2017		1Q	2015		4Q	2015		1Q	-5Q	b
Indiana	574	2036		4Q	2036		4Q	2036		4Q	2036		1Q	2035		4Q	2035		2Q	N/C	
Indiana	765	2026		2Q	2026		2Q	2018		3Q	2018		2Q	2017		4Q	2017		1Q	N/C	
Indiana	812	2015		2Q	2015		2Q	2014		2Q	2013		3Q	2013		1Q	2012		3Q	N/C	
Iowa	319	2027		1Q	2023		1Q	2023		1Q	2022		3Q	2021		2Q	2020		2Q	+16Q	a
Iowa	515	2025		4Q	2025		4Q	2025		4Q	2025		4Q	2024		3Q	2024		1Q	N/C	
Iowa	563	2036		1Q	2036		1Q	2036		1Q	2035		4Q	2034		1Q	2031		1Q	N/C	
Iowa	641	2025		3Q	2025		3Q	2025		3Q	2024		1Q	2023		2Q	2021		2Q	N/C	
Iowa	712	2028		4Q	2023		4Q	2023		4Q	2022		4Q	2022		3Q	2021		3Q	+20Q	a
Kansas	316	2046		3Q	2046		3Q	2046		3Q	2040		4Q	2040		2Q	2037		4Q	N/C	
Kansas	620	2026		3Q	2026		3Q	2019		4Q	2018		1Q	2017		2Q	2015		4Q	N/C	
Kansas	785	2023		2Q	2020		3Q	2017		1Q	2016		1Q	2015		2Q	2014		1Q	+11Q	a
Kansas	913	2035		2Q	2035		2Q	2035		2Q	2034		3Q	2033		2Q	2031		4Q	N/C	
Kentucky	270	2015		1Q	2015		1Q	2014		3Q	2014		1Q	2012		4Q	2012	R	2Q	N/C	
Kentucky	502	2027		3Q	2023		4Q	2023		4Q	2023		2Q	2022		2Q	2021		1Q	+15Q	a
Kentucky	606	2028		4Q	2023		4Q	2023		4Q	2023		1Q	2021		2Q	2020		4Q	+20Q	a
Kentucky	859	2029		2Q	2029		2Q	2029		2Q	2027		3Q	2025		1Q	2023		4Q	N/C	
Louisiana	225	2031		3Q	2031		3Q	2031		3Q	2031		2Q	2029		4Q	2029		3Q	N/C	
Louisiana	318	2023		3Q	2023		2Q	2018		1Q	2017		3Q	2017		2Q	2016		4Q	+1Q	
Louisiana	337	2027		2Q	2022		1Q	2022		1Q	2021		3Q	2019		4Q	2018		3Q	+21Q	a
Louisiana	504	2030		2Q	2030		2Q	2030		2Q	2029		4Q	2028		1Q	2027		4Q	N/C	
Louisiana	985	2037		4Q	2037		4Q	2037		4Q	2037		3Q	2035		1Q	2032		4Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Maine	207	2018		3Q	2019		1Q	2016		3Q	2016		1Q	2015		2Q	2014		4Q	-2Q	
Maryland	301/240	2023		3Q	2022		1Q	2022		1Q	2021		4Q	2021		2Q	2022		3Q	+6Q	a
Maryland	410/443	2012		2Q	2012		2Q	2012		2Q	2012		1Q	2011		4Q	2011		3Q	N/C	
Massachusetts	413	2025		3Q	2025		3Q	2025		3Q	2024		4Q	2024		3Q	2024		1Q	N/C	
Massachusetts	508/774	2025		1Q	2021		1Q	2021		1Q	2020		3Q	2020		3Q	2020		1Q	+16Q	a
Massachusetts	617/857	2032		3Q	2032		3Q	2032		3Q	2032		1Q	2031		4Q	2031		3Q	N/C	
Massachusetts	781/339	2037		3Q	2037		3Q	2037		3Q	2036		4Q	2035		2Q	2034		4Q	N/C	
Massachusetts	978/351	2036		2Q	2036		2Q	2036		2Q	2035		4Q	2035		3Q	2034		4Q	N/C	
Michigan	231	2032		1Q	2032		1Q	2032		1Q	2031		4Q	2031		4Q	2030		3Q	N/C	
Michigan	248/947	2042		2Q	2042		2Q	2042		2Q	2040		2Q	2037		3Q	2036		1Q	N/C	
Michigan	269	2028		3Q	2028		3Q	2028		3Q	2028		2Q	2028		2Q	2028		1Q	N/C	
Michigan	313	2025		4Q	2023		3Q	2020		1Q	2019		3Q	2019		3Q	2018		4Q	+9Q	a
Michigan	517	2026		1Q	2021		1Q	2021		1Q	2020		3Q	2020		2Q	2019		4Q	+20Q	a
Michigan	586	2032		4Q	2032		4Q	2032		4Q	2031		3Q	2031		3Q	2031		3Q	N/C	
Michigan	616	2027		3Q	2027		3Q	2027		3Q	2027		3Q	2027		2Q	2026		4Q	N/C	
Michigan	734	2025		1Q	2021		2Q	2021		2Q	2020		4Q	2020		2Q	2020		1Q	+15Q	a
Michigan	810	2028		3Q	2028		3Q	2028		3Q	2028		2Q	2027		4Q	2027		2Q	N/C	
Michigan	906	2044		2Q	2044		2Q	2044		2Q	2043		4Q	2040		3Q	2038		4Q	N/C	
Michigan	989	2025		1Q	2021		1Q	2017		2Q	2016		3Q	2015		3Q	2014		4Q	+16Q	a
Minnesota	218	2021		1Q	2021		1Q	2018		2Q	2017		4Q	2017		2Q	2017		1Q	N/C	
Minnesota	320	2027		1Q	2027		1Q	2027		1Q	2026		2Q	2025		1Q	2024		3Q	N/C	
Minnesota	507	2017		4Q	2017		3Q	2015		3Q	2016		1Q	2015		3Q	2015		1Q	+1Q	
Minnesota	612	2035		3Q	2035		3Q	2035		3Q	2035		2Q	2031		3Q	2029		3Q	N/C	
Minnesota	651	2031		4Q	2031		4Q	2031		4Q	2031		2Q	2030		1Q	2028		3Q	N/C	
Minnesota	763	2032		4Q	2032		4Q	2032		4Q	2031		3Q	2031		3Q	2031		1Q	N/C	
Minnesota	952	2035		3Q	2035		3Q	2035		3Q	2035		1Q	2032		1Q	2031		3Q	N/C	
Mississippi	228	2046		1Q	2046		1Q	2046		1Q	2045		3Q	2042		1Q	2039		3Q	N/C	
Mississippi	601/769	2034		4Q	2034		4Q	2034		4Q	2034		3Q	2034		2Q	2033		4Q	N/C	
Mississippi	662	2016		1Q	2017		3Q	2014		2Q	2013		4Q	2013		3Q	2012		4Q	-6Q	b
Missouri	314	2023		3Q	2021		1Q	2021		1Q	2020		3Q	2019		2Q	2018		1Q	+10Q	a
Missouri	417	2025		1Q	2022		3Q	2017		4Q	2017		2Q	2015		3Q	2013		2Q	+10Q	a
Missouri	573	2024		3Q	2022		1Q	2018		1Q	2017		2Q	2016		3Q	2015		2Q	+10Q	a
Missouri	636	2034		4Q	2034		4Q	2034		4Q	2034		2Q	2032		2Q	2030		3Q	N/C	
Missouri	660	2028		3Q	2024		1Q	2024		1Q	2022		2Q	2020		4Q	2019		3Q	+18Q	a
Missouri	816	2026		2Q	2026		2Q	2020		3Q	2020		1Q	2019		2Q	2018		3Q	N/C	
Montana	406	2018		2Q	2017		1Q	2016		2Q	2015		4Q	2015		1Q	2013		4Q	+5Q	a
Nebraska	308	2036		3Q	2036		3Q	2036		3Q	2035		2Q	2033		2Q	2033		2Q	N/C	
Nebraska	402/531										2011		4Q	2011		3Q	2011		2Q		
Nevada	702	2015		2Q	2015		2Q	2015		3Q	2015		1Q	2014		4Q	2014		1Q	N/C	
Nevada	775	2029		1Q	2029		1Q	2029		1Q	2028		4Q	2027		2Q	2026		4Q	N/C	
New Hampshire	603	2016		3Q	2015		1Q	2013		2Q	2012		3Q	2012		2Q	2011		4Q	+6Q	a

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
New Jersey	201/551	2049		2Q	2049		2Q	2049		2Q	2049		1Q	2043		1Q	2042		1Q	N/C	
New Jersey	609	2015		1Q	2016		4Q	2014		3Q	2014		2Q	2013		4Q	2013		3Q	-7Q	b
New Jersey	732/848	2033		4Q	2033		4Q	2033		4Q	2032		3Q	2032		1Q	2031		2Q	N/C	
New Jersey	856	2027		4Q	2023		1Q	2023		1Q	2022		3Q	2022		2Q	2021		3Q	+19Q	a
New Jersey	908	2026		4Q	2021		4Q	2021		4Q	2019		4Q	2019		1Q	2018		1Q	+20Q	a
New Jersey	973/862	2025		3Q	2025		3Q	2025		3Q	2025		1Q	2024		4Q	2024		1Q	N/C	
New Mexico	505	2026		2Q	2023		4Q	2023		4Q	2023		3Q	2023		2Q	2023		1Q	+10Q	a
New Mexico	575	2028		2Q	2028		2Q	2028		2Q	2027		4Q	2027		3Q	2027		3Q	N/C	
New York	212/646	2018		3Q	2017		4Q	2016		2Q	2016		2Q	2015		2Q	2014		4Q	+3Q	a
New York	315	2015		2Q	2015		1Q	2013		4Q	2013		4Q	2013		4Q	2013		1Q	+1Q	
New York	516	2027		1Q	2022		4Q	2018		4Q	2018		3Q	2018		2Q	2017		3Q	+17Q	a
New York	518	2018		3Q	2020		1Q	2016		4Q	2016		1Q	2015		3Q	2015		1Q	-6Q	b
New York	585	2027		4Q	2024		2Q	2024		2Q	2024		1Q	2023		2Q	2022		4Q	+14Q	a
New York	607	2029		2Q	2029		2Q	2029		2Q	2028		4Q	2026		1Q	2025		4Q	N/C	
New York	631	2019		2Q	2019		3Q	2015		2Q	2014		4Q	2014		2Q	2014		1Q	-1Q	
New York	716	2025		1Q	2021		3Q	2019		3Q	2019		2Q	2018		3Q	2018		2Q	+14Q	a
New York	718/347/929	2020		2Q	2011		3Q	2011		3Q	2012		2Q	2012		2Q	2011		4Q	+35Q	f
New York	845	2023		1Q	2023		4Q	2018		3Q	2018		1Q	2017		2Q	2017		1Q	-3Q	b
New York	914	2028		3Q	2028		3Q	2020		4Q	2019		4Q	2019		3Q	2018		3Q	N/C	
New York	917																				e
North Carolina	252	2025		2Q	2022		2Q	2022		2Q	2020		4Q	2019		2Q	2019		1Q	+12Q	a
North Carolina	336	2015		4Q	2015		4Q	2014		4Q	2014		3Q	2014		2Q	2014		2Q	N/C	
North Carolina	704/980	2028		4Q	2028		4Q	2028		4Q	2028		2Q	2027		1Q	2026		3Q	N/C	
North Carolina	828	2026		4Q	2026		4Q	2020		1Q	2019		2Q	2018		2Q	2017		3Q	N/C	
North Carolina	919/984	2043		3Q	2043		3Q	2043		3Q	2041		3Q	2041		3Q	2041		1Q	N/C	
North Carolina	910	2018		1Q	2018		3Q	2015		3Q	2015		1Q	2015		1Q	2014		3Q	-2Q	
North Dakota	701	2018		2Q	2017		3Q	2016		1Q	2015		1Q	2014		3Q	2013		4Q	+3Q	a
Ohio	216	2039		2Q	2039		2Q	2039		2Q	2039		1Q	2032		4Q	2032		3Q	N/C	
Ohio	330/234	2032		2Q	2032		2Q	2032		2Q	2032		1Q	2031		4Q	2031		2Q	N/C	
Ohio	419/567	2026		3Q	2026		3Q	2026		3Q	2025		4Q	2025		3Q	2024		3Q	N/C	
Ohio	440	2025		2Q	2021		3Q	2021		3Q	2020		4Q	2020		2Q	2019		3Q	+15Q	a
Ohio	513	2026		3Q	2026		3Q	2020		2Q	2020		1Q	2020		1Q	2018		3Q	N/C	
Ohio	614	2023		1Q	2022		1Q	2019		2Q	2018		4Q	2018		1Q	2017		1Q	+4Q	
Ohio	740	2016		2Q	2015		1Q	2013		3Q	2013		1Q	2012		3Q	2012		1Q	+5Q	a
Ohio	937	2021		2Q	2020		3Q	2015		4Q	2015		3Q	2014		4Q	2013		4Q	+3Q	a
Oklahoma	405	2020		4Q	2018		2Q	2017		4Q	2017		2Q	2017		2Q	2016		2Q	+10Q	a
Oklahoma	580	2025		2Q	2020		2Q	2017		2Q	2016		3Q	2015		2Q	2014		4Q	+20Q	a
Oklahoma	918/539										2012		4Q	2012		2Q	2011		4Q		o
Oregon	503/971	2035		2Q	2035		2Q	2035		2Q	2034		2Q	2034		2Q	2034		2Q	N/C	
Oregon	541/458	2033		3Q	2033		3Q	2033		3Q	2032		4Q	2031		1Q	2010		2Q	N/C	
Pennsylvania	215/267	2018		3Q	2019		3Q	2015		4Q	2015		2Q	2014		3Q	2014		3Q	-4Q	b

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Pennsylvania	412/878/724	2028		2Q	2028		2Q	2028		2Q	2027		3Q	2026		3Q	2026		2Q	N/C	
Pennsylvania	570	2013		3Q	2013		3Q	2012		3Q	2011		3Q	2011		3Q	2011		3Q	N/C	
Pennsylvania	610/484	2019		1Q	2018		4Q	2014		4Q	2014		2Q	2013		4Q	2013		3Q	+1Q	
Pennsylvania	717	2016		4Q	2015		2Q	2013		3Q	2012		4Q	2012		3Q	2012		3Q	+6Q	a
Pennsylvania	814	2016		1Q	2015		1Q	2013		1Q	2012		2Q	2012		1Q	2012		3Q	+4Q	a
Puerto Rico	787/939	2028		2Q	2028		2Q	2028		2Q	2027		3Q	2027		3Q	2027		1Q	N/C	
Rhode Island	401	2026		2Q	2023		3Q	2023		3Q	2022		3Q	2021		3Q	2021		1Q	+11Q	a
South Carolina	803	2016		2Q	2018		4Q	2014		4Q	2014		2Q	2014		2Q	2013		4Q	-10Q	b
South Carolina	843	2015		4Q	2015		2Q	2013		3Q	2013		1Q	2012		2Q	2011		3Q	+2Q	
South Carolina	864	2026		2Q	2023		2Q	2018		2Q	2017		4Q	2017		2Q	2016		2Q	+12Q	a
South Dakota	605	2022		3Q	2021		1Q	2019		4Q	2019		3Q	2018		4Q	2018		1Q	+6Q	a
Tennessee	423	2017		3Q	2018		4Q	2018		4Q	2018		1Q	2018		1Q	2017		3Q	-5Q	b
Tennessee	615	2016		3Q	2015		3Q	2013		4Q	2013		4Q	2013		4Q	2013		4Q	+4Q	
Tennessee	731	2034		1Q	2034		1Q	2034		1Q	2033		3Q	2030		3Q	2027		4Q	N/C	
Tennessee	865	2028		4Q	2028		4Q	2028		4Q	2028		3Q	2027		4Q	2027		2Q	N/C	
Tennessee	901	2026		1Q	2026		1Q	2026		1Q	2025		3Q	2025		2Q	2025		1Q	N/C	
Tennessee	931	2025		1Q	2025		1Q	2025		1Q	2024		4Q	2024		3Q	2024		1Q	N/C	
Texas	210	2017		1Q	2017		3Q	2018		2Q	2018		2Q	2017		2Q	2016		3Q	-2Q	
Texas	214/972/469	2021		2Q	2021		3Q	2021		3Q	2021		2Q	2019		3Q	2018		3Q	-1Q	
Texas	254	2029		1Q	2024		1Q	2024		1Q	2023		4Q	2022		4Q	2022		2Q	+20Q	a
Texas	325	2035		3Q	2035		3Q	2035		3Q	2035		2Q	2033		3Q	2031		4Q	N/C	
Texas	361	2026		2Q	2022		2Q	2022		2Q	2021		1Q	2018		4Q	2017		4Q	+16Q	a
Texas	409	2033		4Q	2033		4Q	2033		4Q	2034		1Q	2031		3Q	2029		4Q	N/C	
Texas	432	2038		4Q	2038		4Q	2038		4Q	2037		4Q	2037		1Q	2036		3Q	N/C	
Texas	512	2014		2Q	2015		3Q	2014		2Q	2014		2Q	2014		1Q	2012		3Q	-5Q	b
Texas	713/281/832	2015		1Q	2015		3Q	2014		4Q	2014		3Q	2014		1Q	2013		3Q	-2Q	
Texas	806	2019		1Q	2018		2Q	2017		4Q	2017		3Q	2017		4Q	2017		2Q	+3Q	a
Texas	817/682	2037		2Q	2037		2Q	2037		2Q	2035		4Q	2034		3Q	2033		1Q	N/C	
Texas	830	2028		3Q	2024		4Q	2024		4Q	2023		1Q	2022		1Q	2021		1Q	+15Q	a
Texas	903/430	2028		1Q	2028		1Q	2028		1Q	2027		1Q	2026		2Q	2025		4Q	N/C	
Texas	915	2035		4Q	2035		4Q	2035		4Q	2035		3Q	2033		2Q	2032		1Q	N/C	
Texas	936	2037		2Q	2037		2Q	2037		2Q	2036		3Q	2036		3Q	2036		1Q	N/C	
Texas	940	2033		1Q	2033		1Q	2033		1Q	2032		3Q	2031		4Q	2030		3Q	N/C	
Texas	956	2022		3Q	2022		2Q	2020		1Q	2019		3Q	2018		3Q	2017		3Q	+1Q	
Texas	979	2034		2Q	2034		2Q	2034		2Q	2033		4Q	2033		4Q	2032		1Q	N/C	
Utah	435	2033		3Q	2033		3Q	2033		3Q	2033		2Q	2031		2Q	2030		3Q	N/C	
Utah	801/385	2037		2Q	2037		2Q	2037		2Q	2035		4Q	2034		4Q	2034		4Q	N/C	
Vermont	802	2025		2Q	2025		2Q	2020		1Q	2019		3Q	2018		3Q	2018		3Q	N/C	
Virgin Islands	340																2131		4Q		o
Virginia	276													2050		3Q	2050		2Q		o
Virginia	434	2037		1Q	2037		1Q	2037		1Q	2036		2Q	2035		4Q	2036		3Q	N/C	

2011 NRUF AND NPA EXHAUST ANALYSIS

LOCATION	NPA	2011.2 FCST			2011.1 FCST			2010.2 FCST			2010.1 FCST			2009.2 FCST			2009.1 FCST			Change	Notes
		Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	Year	R	Qtr	2011.1 to 2011.2	
Virginia	540	2022		1Q	2018		2Q	2017		3Q	2017		1Q	2016		4Q	2017		3Q	+15Q	a
Virginia	757	2019		2Q	2019		2Q	2016		3Q	2016		1Q	2015		3Q	2015		3Q	N/C	
Virginia	703/571	2028		3Q	2024		4Q	2024		4Q	2024		2Q	2024		1Q	2023		4Q	+15Q	a
Virginia	804	2026		1Q	2026		1Q	2020		1Q	2019		3Q	2019		2Q	2019		2Q	N/C	
Washington	206	2025		1Q	2025		1Q	2025		1Q	2023		3Q	2021		2Q	2020		4Q	N/C	
Washington	253	2031		4Q	2031		4Q	2031		4Q	2030		4Q	2029		4Q	2028		3Q	N/C	
Washington	360	2017		1Q	2017		1Q	2014		1Q	2013		3Q	2012		4Q	2012		2Q	N/C	
Washington	425	2032		3Q	2032		3Q	2032		3Q	2031		4Q	2031		3Q	2030		4Q	N/C	
Washington	509	2022		4Q	2020		3Q	2017		2Q	2016		4Q	2016		1Q	2015		1Q	+9Q	a
West Virginia	304/681	2036		1Q	2036		1Q	2036		1Q	2035		4Q	2035		2Q	2035		1Q	N/C	
Wisconsin	262	2026		2Q	2026		2Q	2026		2Q	2026		1Q	2026		1Q	2024		4Q	N/C	
Wisconsin	414	2034		1Q	2034		1Q	2034		1Q	2033		1Q	2033		1Q	2032		3Q	N/C	
Wisconsin	608	2025		1Q	2025		1Q	2019		4Q	2019		3Q	2018		4Q	2017		4Q	N/C	
Wisconsin	715/534	2039		2Q	2039		2Q	2039		2Q	2039		2Q	2011		4Q	2011		3Q	N/C	
Wisconsin	920	2016		2Q	2014		2Q	2014		2Q	2013		4Q	2013		3Q	2012		4Q	+8Q	a
Wyoming	307	2029		3Q	2029		3Q	2029		3Q	2028		4Q	2026		3Q	2026		1Q	N/C	

Notes:

a. Reduced historical and projected demand.

b. Increased historical and projected demand.

c. Forecast based upon information provided by the Canadian Numbering Administration (CNA). The CNA normally provides only one projection per year. Change is from last forecast provided.

d. Canadian NPA. With an exhaust date beyond 2033, there is no exhaust date provided.

e. NPA is at exhaust. No codes available except for returns.

f. New NPA added.

g. Area Code 321A includes only Brevard County Florida; 407/321 includes the Counties around Orlando in Central Florida

h. Area Code 305A includes only the Keys area of Florida; Area Code 305/786 is the Miami-Dade area of Florida.

i. "Intentionally left blank."

j. "Intentionally left blank."

k. Reflects Delta NRUF forecast.

l. The "R" refers to the forecast projection made at the published ration level alone.

m. New NPA overlay complex in Illinois; 872 overlays 312 and 773; 773 and 312 are not overlaying each other.

n. "Intentionally left blank."

o. Exhaust beyond 40 years.

ATTACHMENT 7 – 2011 NANP EXHAUST ANALYSIS

Introduction

NANPA projects the exhaust of the NANP based upon the utilization and forecast data submitted by carriers via the NRUF process. The following assumptions were used in this exhaust analysis.

October 2011 NANP Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the October 2011 NANP exhaust projection prepared by NANPA. These are the same assumptions used in previous NANP exhaust studies.

1. The NANP exhaust study uses as its basis the CO code demand, which includes service provider and Pooling Administrator forecasts, historical CO code assignments and other NPA-specific information, calculated for each respective NPA. The monthly CO code demand as calculated in the NPA exhaust analysis is straight-lined to determine demand outside the five-year time frame included in NRUF submissions.
2. For NPAs in rationing, NANPA compared the actual CO code demand over the past year(s) with the rationed amount. In addition, NANPA compared the forecasted CO code demand provided by service providers and/or the Pooling Administrator to the rationed amount. Based upon this analysis, NANPA identified an average annual CO code demand rate for the NPA.
3. A new NPA will be required when the number of assigned and unavailable CO codes reaches 800.
4. It is assumed that each new NPA will require the same number of unassignable codes as the current NPA. It appears that most of the unassignable codes in the existing NPAs are duplicated in the new NPA. There are also times when additional codes in the new NPA are marked unassignable.
5. No assumptions were made with regard to the relief method implemented (i.e., NPA split vs. overlay). However, it was assumed that the selected relief method did not require the duplication or protection of central office codes other than those identified in number 4 above.
6. The CO code demand for an exhausting NPA will be continued after NPA relief. By doing so, the demand for both the existing and new NPAs will be taken into account for the geographic area covered by the original NPA.
7. The total quantity of available NPA codes will be 669 NPAs. This figure is derived as follows: 800 NPAs less NPAs reserved for NANP expansion (80), N11 codes (8), 555 and 950 NPAs (2), toll-free NPAs (9)[1] and non-geographic NPAs (32)[2].
8. To account for the variability of demand, a sensitivity analysis was performed to the CO code demand (i.e., demand will be increased and decreased by increments of 10%) to understand the impact on NANP exhaust.

Results based on Assumptions

As recognized in previous NANP exhaust analyses, the model is sensitive to the yearly CO code demand rate. Using the monthly CO code demand for each NPA as calculated in the October 2011 NPA Exhaust Analysis, and straight-lining this demand beyond the five-year time frame included in NRUF submissions, creates an average yearly demand rate of 5,000 CO codes. This yearly demand rate was compared with demand rates in 2004 through 2010.

Year	Annual Gross CO Code Demand	Annual Net CO Code Demand
2004	3,100	2,100
2005	3,300	2,300
2006	4,100	3,400
2007	3,200	2,900
2008	2,900	2,200
2009	2,100	1,600
2010	2,800	2,500

To project NANP exhaust, an average annual demand of 5,000 CO codes[3] was used. Although this number is higher than the gross CO code demand in previous years, it accounts for any possible increase in CO code demand that may occur over the remaining years of the NANP life.

Model Based on Projected Demand

Using an average CO code demand rate of 5,000 codes assigned per year, the projected NANP exhaust date is beyond 2041, assuming the quantity of NPAs available remains 669[4].

Sensitivity Analysis

Due to the results of the base model, the only sensitivity analysis performed was an increase in the average annual CO code demand on the results. For comparison purposes, NANPA performed a sensitivity analysis using an average annual demand of 5,500 CO codes, which represented a 10% increase in the base model demand. This resulted in a projected exhaust beyond 2041.

1. NPAs 880, 881, 882, 883, 884, 885, 886, 887 and 889.
2. These include the 26 codes reserved for future PCS expansion (522, 566, 577, 588, 521, 523, 524, 525, 526, 527, 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578 and 589) and 6 of the codes reserved for Canada (622, 633, 644, 655, 677 and 688).
3. The base model used in the April 2011 study used an average demand rate of 5,000 codes.
4. The base model used in the April 2011 NANP Exhaust study projected an exhaust date beyond 2041, with a total of 685 NPAs available. The reduction in available NPAs is due to the reservation of an additional 22 NPAs for 5YY PCS.

ATTACHMENT 8 – WHERE TO FIND NUMBERING INFORMATION

Many key numbering documents are available through the Internet. Here are some useful sites.

www.nanpa.com
This is the official NANPA website. Its contents include:

- Assignment listings for NANP numbering resources, including area codes, CICs, N11 codes, and vertical service codes.
- Relief planning information for the U.S. and its territories, including a status chart, planning letters, and press releases.
- Central office code assignment information for the U.S. and its territories.
- Contact information for numbering resources.
- Information for NRUF submissions.
- Area code maps.

www.cnac.ca
This is the Canadian Numbering Administrator's site. This site is the master reference for Canadian numbering assignment information and includes information similar to that provided by www.nanpa.com for the U.S. and its territories.

www.nationalpooling.com
This is the National Thousands-Block Pooling Administration's site. Information concerning thousands-assignments and availability can be found here.

www.npac.com
This is the site for the Number Portability Administration Center or NPAC. The NPAC facilitates local number portability, the ability to change your service provider while retaining your telephone number.

- **www.npac.com/the-npac/portable-open-codes** – provides a listing of central office codes open in the NPAC.

www.fcc.gov
Sections of the FCC's website of particular interest are:

- **www.fcc.gov/wcb –** the home page of the Wireline Competition Bureau. Orders related to numbering topics, including the Number Resource Optimization (NRO) orders, can be found here.
- **www.fcc.gov/wcb/cpd/Nanc –** the home page for the North American Numbering Council (NANC), a federal advisory committee of the FCC that provides analysis and recommendations to the FCC on numbering issues. This site contains their charter, meeting minutes and membership lists.
- **apps.fcc.gov/cgb/form499/499a.cfm –** provides an address and telephone number for each provider and identifies whether the provider offers local, wireless or toll services. The listed providers are those filing FCC Form 499-A, Telecommunications Reporting Worksheets.

www.crtc.gc.ca
This is the site for the Canadian Radio-television and Telecommunications Commission, the Canadian regulator.

www.nanc-chair.org
This is the home page for the Chair of the NANC. It contains presentations and reports provided to the NANC on issues currently being addressed by the Council. Also included is documentation from the various NANC working groups and issue management groups.

www.atis.org
This is the Alliance for Telecommunications Industry Solutions (ATIS) site. It has several sections of interest for numbering. Of particular interest is the Industry Numbering Committee (INC). All finalized INC documents are available for download, including assignment guidelines for numbering resources.

www.itu.int
This is the home page of the International Telecommunications Union in Geneva, Switzerland, the group that sets international standards for telephone numbers. Although much of the information on the site is available to ITU members only, some documents are available to all, including a list of assigned country codes.

www.naruc.org
This is the home page of the National Association of Regulatory Utility Commissioners. NARUC and its committees frequently take positions on numbering issues. Links to all of the state commissions' websites can be found at this site.

- **www.naruc.org/commissions.cfm –** provides links to state regulatory commission websites.

www.sms800.com
This site contains information about the 800 Service Management System (SMS/800) which is the central administration system for the management of Toll Free Services.

WHERE TO FIND NUMBERING INFORMATION

www.nationalpani.com
This is the site of the permanent Routing Number Administration (RNA) for the pseudo Automatic Number Identification (p-ANI) codes used for routing emergency calls for Voice over Internet Protocol (VoIP) services.

www.mbiadmin.com
This is the home page for the USA and Puerto Rico wireless number resource administrator for Mobile Identification Numbers (MIN), called the MIN Block Identifier (MBI). MBI Administration was created in 2002 when the MIN was separated from the Mobile Directory Number (MDN) and became a new number resource to support nationwide roaming, wireless number portability and number pooling.

www.neca.org
This is the site of the National Exchange Carriers Association (NECA). NECA administers the FCC's "access charge" plan. (Access charges are the fees long distance companies pay to access the local phone network to complete calls.)

ATTACHMENT 9 – CONTACTS IN THE COUNTRIES PARTICIPATING IN THE NORTH AMERICAN NUMBERING PLAN

Country	Contact for Formal Letters and Policy Issues	Contact for Day-to-Day Regulatory Numbering Issues	Contact for Central Office Code Administration
Anguilla	Hon. Evan Gumbs Minister of Infrastructure, Communications, Utilities and Housing Post Office Box 60 Coronation Avenue The Valley, Anguilla West Indies Phone: 264–497–2442 Fax: 264–497–5695	Larry Franklin Permanent Secretary MICUH Coronation Avenue PO Box 60 The Valley, Anguilla British West Indies Phone: 264–497–2651 Fax: 264–497–3651 larryf@gov.ai	Bill Withers Public Utilities Commission The Valley, Anguilla Phone: 264–497–7374 Fax: 264–497–2782 bill.withers@gov.ai
Antigua and Barbuda	Hon. Dr. Edmund Mansoor Minister of State – Information, Broadcasting & Telecommunications Coolidge Business Complex, Sir George Walter Highway St. John's, Antigua, West Indies Phone: 268–562–1868 Fax: 268–562–1872	Clement Samuel Telecommunications Officer Ministry of Information, Broadcasting and Telecommunications Telecommunications Division 4th floor State Insurance Business Center Thames and Long Street St. John's, Antigua, West Indies Phone: 268–562–1868 Fax: 268–562–1872 telecom@antigua.gov.ag	
Bahamas	Kathleen Smith Director of Policy & Regulations Utilities Regulation and Competition Authority (URCA) UBS Annex Building East Bay Street P.O Box N 4860 Nassau, Bahamas Phone: 242–393–0234 Fax: 242–393–0153 info@urcabahamas.bs		Donavan Dorsett Senior Case Officer Utilities Regulation and Competition Authority (URCA) UBS Annex Building East Bay Street P.O Box N 4860 Nassau, Bahamas Phone: 242–393–0234 Fax: 242–393–0153 ddorsett@urcabahamas.bs
Barbados	Valerie Browne Permanent Secretary Energy & Telecommunications Ministry of Finance and Investment, Telecommunications and Energy Trinity Business Centre Country Road St Michael Barbados. BB11081 Phone: 246–434–2501 Fax: 246–429–7489 Vbrowne@energy.gov.bb	Reginald Bourne The Chief Telecommunications Officer Telecoms Unit Trinity Business Centre Country Road, St. Michael, Barbados. BB11081 Phone: 246–434–2502 Fax: 246–626–0960 Reginald.bourne@telecoms.gov.bb	
Bermuda	Dr. Derrick Binns Permanent Secretary Ministry of Environment Planning and Infrastructure, P.O. Box HM101, HMAX Hamilton, Bermuda Phone: 441–297–7590 Fax: 441–292–2349 dsbinns@gov.bm	Hiram Edwards Assistant Director of Telecommunications P.O. Box HM101, HMAX Hamilton, Bermuda Phone: 441–298–7444 Fax: 441–295–1462 hedwards@gov.bm	

CONTACTS IN THE COUNTRIES PARTICIPATING IN THE NORTH AMERICAN NUMBERING PLAN

Country	Contact for Formal Letters and Policy Issues	Contact for Day-to-Day Regulatory Numbering Issues	Contact for Central Office Code Administration
British Virgin Islands	Hon. Mark Vanterpool. Minister of Communications and Works 33 Admin Drive Wickhams Cay I Road Town, Tortola British Virgin Islands Phone: 284–468–3701 x2183 Fax: 284–494–3873	Telecommunications Officer, Telecommunications Regulatory Commission P.O. Box 4401 Road Town, Tortola, BVI Phone: 284-468-4165 Fax: 284–494–6786 contact@trc.vg	
Canada	John Traversy Secretary General Canadian Radio-television and Telecommunications Commission Ottawa, Ontario Canada K1A 0N2 Phone: 866–781–1911 Fax: 819–994–0218	Bill Mason Manager Numbering Administration Canadian Radio-television and Telecommunications Commission Les Terrasses de la Chaudière Central Building 1 Promenade du Portage Gatineau, Quebec J8X 4B1 (by mail to: Ottawa, ON, Canada K1A 0N2) Phone: 819–953–8882 bill.mason@crtc.gc.ca	Glenn Pilley Director Canadian Numbering Administrator SAIC Canada 1516-60 Queen Street Ottawa, Ontario Canada K1P 5Y7 Phone: 613–683–3289 Fax: 613–563–9293 pilleyg@saiccanada.com
Cayman Islands	David Archbold Managing Director Information and Communications Technology Authority P.O. Box 2502 GT George Town, Grand Cayman Cayman Islands Phone: 345–946–4282 Fax: 345–945–8284 david.archbold@icta.ky	Dr. Russell Richardson Head of Licensing & Compliance Information and Communications Technology Authority P.O. Box 2502 GT George Town, Grand Cayman Cayman Islands Phone: 345–946–4282 Fax: 345–945–8284 russell.richardson@icta.ky	Dr. Russell Richardson Head of Licensing & Compliance Information and Communications Technology Authority P.O. Box 2502 GT George Town, Grand Cayman Cayman Islands Phone: 345–946–4282 Fax: 345–945–8284 russell.richardson@icta.ky
Dominica	Hon. Ambrose George Minister of Information, Telecommunications and Constituency Empowerment 3rd Floor, Government Headquarters, Kennedy Avenue, Roseau Phone: 767–266–3294 Fax: 767–448–0182 information@dominica.gov.dm	Craig Nesty Executive Director National Telecommunications Regulatory Commission 42-2 Kennedy Avenue P.O. Box 649 Roseau, Commonwealth of Dominica Phone: 767–440–0627 Fax: 767–440–0835 director@ntrcdom.org	Craig Nesty Executive Director National Telecommunications Regulatory Commission 42-2 Kennedy Avenue P.O. Box 649 Roseau, Commonwealth of Dominica Phone: 767–440–0627 Fax: 767–440–0835 director@ntrcdom.org
Dominican Republic	David Perez Minister of State President Santo Domingo Dominican Republic Phone: 829–473–8553 Fax: 829–732–3877 dperez@indotel.gob.do	Salvador Ricourt Manager Technical Management Phone: 829–473–8503 Fax: 829–732–7189 sricourt@indotel.gob.do	Jose Perez Engineer Concessions and Licenses Department Phone: 829–473–8504 jperez@indotel.gob.do

CONTACTS IN THE COUNTRIES PARTICIPATING IN THE NORTH AMERICAN NUMBERING PLAN

Country	Contact for Formal Letters and Policy Issues	Contact for Day-to-Day Regulatory Numbering Issues	Contact for Central Office Code Administration
Grenada	Hon. Sen. Denneth Modeste Minister of Works, Physical Development & Public Utilities Ministerial Complex, Botanical Gardens Tanteen, St. George's, Grenada Phone: 473–440–2271 Fax: 473–440–4122 ministryofworks@gov.gd	Aldwyn Ferguson Coordinator of Telecommunications National Telecommunications Regulatory Commission P.O. Box 854 St. George's Grenada Phone: 473–435–6872 Fax: 473–435–2132 gntrc@ectel.int	Aldwyn Ferguson Coordinator of Telecommunications National Telecommunications Regulatory Commission P.O. Box 854 St. George's Grenada Phone: 473–435–6872 Fax: 473–435–2132 gntrc@ectel.int
Jamaica	Maurice Charvis Deputy Director General Office of Utilities Regulation 3rd Floor, PCJ Resource Centre 36 Trafalgar Road Kingston 10 Jamaica Phone: 876–968–6053 Fax: 876–929–3635 mcharvis@our.org.jm	Curtis Robinson Manager – Numbering Administration and Technical Support Office of Utilities Regulation 3rd Floor, PCJ Resource Centre 36 Trafalgar Road Kingston 10 Jamaica Phone: 876–968–6053 Fax: 876–929–3635 crobinson@our.org.jm	Curtis Robinson Manager – Numbering Administration and Technical Support Office of Utilities Regulation 3rd Floor, PCJ Resource Centre 36 Trafalgar Road Kingston 10 Jamaica Phone: 876–968–6053 Fax: 876–929–3635 crobinson@our.org.jm
Montserrat	Hon. Charles Kirnon Minister of Communications, Works and Labor P.O. Box 344 Woodlands Montserrat West Indies Phone: 664–491–2521/2522 Fax: 664–491–6659 kirnonc@gov.ms / mcw@gov.ms		
St. Kitts and Nevis	Hon. Dr. Earl Asim Martin Minister of Public Works, Utilities, Tranports and Posts Saint Kitts and Nevis Phone: 869–466–7032 Fax: 869–465–5501		
St. Lucia	Hon. Guy Joseph Ministry of Communications, Works, Transport and Public Utilities Union St. Lucia West Indies Phone: 758–468–4300 Fax: 758–453–2769 Min_com@gosl.gov.lc	Alvin Augustin Manager of Technical Services National Telecommunications Regulatory Commission No. 35 Chisel Street P.O. Box GM690 Castries, St. Lucia West Indies Phone: 758–458–2035 Fax: 758–453–2553 aaugustin@ectel.int	Elicious Cyril Director National Telecommunications Regulatory Commission No. 35 Chisel Street P.O. Box GM690 Castries, St. Lucia West Indies Phone: 758–458–2035 Fax: 758–453–2553 ecyril@ectel.int

CONTACTS IN THE COUNTRIES PARTICIPATING IN THE NORTH AMERICAN NUMBERING PLAN

Country	Contact for Formal Letters and Policy Issues	Contact for Day-to-Day Regulatory Numbering Issues	Contact for Central Office Code Administration
Sint Maarten	Giovanni King Chief Operating Officer Bureau Telecommunications and Post St. Maarten Sparrow Road 1–D Harbour View Philipsburg St. Maarten, Dutch Caribbean Phone: 721–542–4699 Fax: 721–542–4817 Mobile: 721–520–4697 Giovanni.King@sxmregulator.com	Giovanni King Chief Operating Officer Bureau Telecommunications and Post St. Maarten Sparrow Road 1–D Harbour View Philipsburg St. Maarten, Dutch Caribbean Phone: 721–542–4699 Fax: 721–542–4817 Mobile: 721–520–4697 Giovanni.King@sxmregulator.com	Giovanni King Chief Operating Officer Bureau Telecommunications and Post St. Maarten Sparrow Road 1–D Harbour View Philipsburg St. Maarten, Dutch Caribbean Phone: 721–542–4699 Fax: 721–542–4817 Mobile: 721–520–4697 Giovanni.King@sxmregulator.com
St. Vincent and the Grenadines	Apollo Knights Director/Secretary National Telecommunications Regulatory Commission P.O. Box 2368 Upper Bay Street Kingstown, St. Vincent and the Grenadines Telephone number: 784–457–2279 Fax number: 784–457–2834 ntrc@ntrc.vc	Apollo Knights Director/Secretary National Telecommunications Regulatory Commission P.O. Box 2368 Upper Bay Street Kingstown, St. Vincent and the Grenadines Telephone number: 784–457–2279 Fax number: 784–457–2834 ntrc@ntrc.vc	Apollo Knights Director/Secretary National Telecommunications Regulatory Commission P.O. Box 2368 Upper Bay Street Kingstown, St. Vincent and the Grenadines Telephone number: 784–457–2279 Fax number: 784–457–2834 ntrc@ntrc.vc
Trinidad and Tobago	Cris Seecheran Executive Director (Ag) Telecommunications Authority of Trinidad and Tobago #5 Eighth Avenue Extension, Off Twelfth Street Barataria, Republic of Trinidad and Tobago Phone: 868–675–8288 Fax: 868–674–1055 Info@tatt.org.tt	Kirk Sookram Resource Planning and Management Engineer Telecommunications Authority of Trinidad and Tobago #5 Eighth Avenue Extension, Off Twelfth Street Barataria, Republic of Trinidad and Tobago Phone: 868–675–8288 Fax: 868–674–1055 Info@tatt.org.tt	Kirk Sookram Resource Planning and Management Engineer Telecommunications Authority of Trinidad and Tobago #5 Eighth Avenue Extension, Off Twelfth Street Barataria, Republic of Trinidad and Tobago Phone: 868–675–8288 Fax: 868–674–1055 Info@tatt.org.tt
Turks and Caicos Islands	Arthur Been Permanent Secretary of Tourism, Trade and Communications Government Square Grand Turk, Turks and Caicos Islands British West Indies Phone: 649–946–1738 Fax: 649–946–1498 abeen@gov.tc	John Williams Director General Telecommunications Commission PO Box 203 Providenciales Turks & Caicos Islands Phone: 649–946–1900 Fax: 649–946–1119 johnwilliams@tcitelecommission.tc	John Williams Director General Telecommunications Commission PO Box 203 Providenciales Turks & Caicos Islands Phone: 649–946–1900 Fax: 649–946–1119 johnwilliams@tcitelecommission.tc
United States	Sharon Gillett Chief, Wireline Competition Bureau Federal Communications Commission 445 12th St., SW Washington, DC 20554 Phone: 202–418–1500 Fax: 202–418–2825		Beth Sprague Regional Director NANPA Code Administration Neustar, Inc. 21575 Ridgetop Circle Sterling, VA 20166 Phone: 571–434–5513 Fax: 571–434–5502 beth.sprague@neustar.biz

ATTACHMENT 10 – LIST OF ACRONYMS

ABEC – Alternate Billing Exchange Code

AOCN – Administrative Operating Company Number

ANI – Automatic Number Identification

ASR – Access Service Request

ATIS – Alliance for Telecommunications Industry Solutions

CIC – Carrier Identification Code

CLEC – Competitive Local Exchange Carrier

CD – Compact Disk

CO – Central Office

CMRS – Commercial Mobile Radio Service

CRTC – Canadian Radio-television and Telecommunications Commission

DDR – Donation Discrepancy Report

EFT – Electronic File Transfer

ESQK – Emergency Service Query Key

FCC – Federal Communications Commission

FG B – Feature Group B

FG D – Feature Group D

FRN – FCC Registration Number

FTP – File Transfer Protocol

ILEC – Incumbent Local Exchange Carrier

INC – Industry Numbering Committee

IPD – Initial Planning Document

MTE – Months-to-Exhaust

LEC – Local Exchange Carrier

NANC – North American Numbering Council

NANP – North American Numbering Plan

NANPA – North American Numbering Plan Administration

NAS – NANP Administration System

NNS – NANP Notification System

NOWG – Numbering Oversight Working Group

NPA – Numbering Plan Area

NPAC – Number Portability Administration Center

NRO – Number Resource Optimization

NRUF – Numbering Resource Utilization/Forecast

OCN – Operating Company Number

p-ANI – Pseudo Automated Number Identification

PA – Pooling Administrator

PAS – Pooling Administration System

POTS – Plain Old Telephone Service

PCS – Personal Communications Service

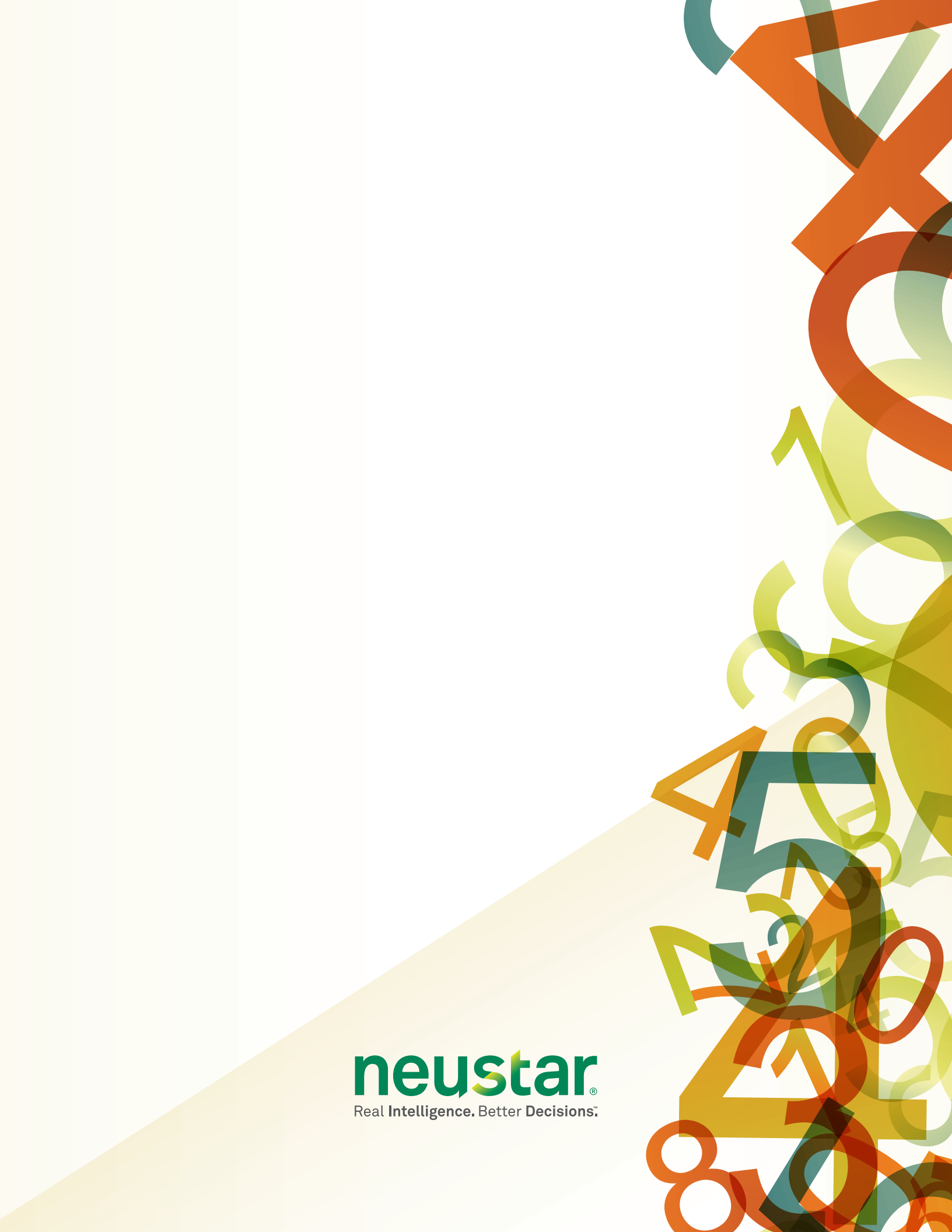
PSTN – Public Switched Telephone Network

TN – Telephone Number

UMR – Utilization Missing Report

VoIP – Voice over Internet Protocol

VSC – Vertical Service Code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