



2022 ANNUAL REPORT

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1 DESCRIPTION OF THE NORTH AMERICAN NUMBERING PLAN AND THE NORTH AMERICAN NUMBERING PLAN ADMINISTRATOR

1.1 NANP History

The North American Numbering Plan (NANP) was developed by AT&T 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 consisting of a three-digit central office code (often referred to as a CO code, NXX or exchange) and a four-digit line number.

The NANP is an integrated numbering plan serving 20 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.

1.2 North American Numbering Plan Administration (NANPA)

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 NANP. In December 1999, the North American Numbering Plan Administrator (NANPA) transitioned from Lockheed Martin to Neustar. Neustar continued to serve as the NANPA through 2018 as a result of two competitive bidding processes.

Thousands-block number pooling, which permits service providers to request their numbers in blocks of one-thousand rather than through use of an entire CO code, was first implemented as a trial in the Illinois 847 NPA in June 1998. The process was backed by the Federal Communications Commission (FCC) in its Memorandum Opinion and Order on Reconsideration, CC Docket No. 96-98, FCC 98-224, known as “the Pennsylvania Order.” In the Pennsylvania Order, the FCC granted limited authority to continue the Illinois pooling trial and encouraged other states to seek delegated authority to implement other pooling trials. Shortly thereafter, New York implemented a pooling trial in the 212 NPA.

The FCC established the framework for national thousands-block pooling through a series of number resource optimization orders between 2000 and 2003.¹ By the beginning

¹ Report and Order and Further Notice of Proposed Rulemaking, CC Docket No. 99-200, FCC 00-104, March 31, 2000; Second Report and Order, Order on Reconsideration in CC Docket No. 96-98 and CC Docket No. 99-200, and Second Further Notice of Proposed Rulemaking in CC Docket No. 99-200, December 29, 2000; Third Report and Order and Second Order on Reconsideration in CC Docket No. 96-98 and CC Docket No. 99-200, December 28, 2001; Fourth Report and Order in CC Docket No. 99-200 and CC Docket No. 95-116, and Fourth Further Notice of Proposed Rulemaking in CC Docket No. 99-200, June 18, 2003.

of national pooling in March 2002, the Pooling Administrator (PA) was managing 22 state pooling trials in 83 NPAs. The FCC added Routing Number Administrator (RNA or p-ANI) functions to the pooling contract in 2007.

The FCC awarded the national pooling and RNA contract to Neustar who served in that capacity from June 15, 2001, through December 31, 2018. On October 5, 2018, the FCC awarded a one-year bridge contract (No. 273FCC19C0002) for NANPA, PA and Routing Number/p-ANI administrator services, to Somos, Inc. The NANPA and PA/RNA transitioned the NANP Administration System (NAS), Pooling Administration System (PAS), and Routing Number Administration System (RNAS), as well as personnel from both organizations, seamlessly to Somos, maintaining continuity of service. This contract expired on October 31, 2019. On November 1, 2019, the FCC extended the bridge contract for 6-months with two additional 3-month options. The FCC exercised a total of three extensions and the bridge contract expired on November 30, 2020.

On December 1, 2020, through a competitive bidding process, the FCC awarded to SomosGov, Inc., contract (No. 273FCC21C0003) which combined the NANPA, PA, and RNA into a single organization known as NANPA. That contract also includes the newly created Reassigned Numbers Database (RND) organization. This contract is for a base period of five-years with three additional one-year options.

Regulatory authorities in various NANP countries have named national administrators to oversee the numbering resources assigned by NANPA for use within their countries. The NANPA is the national administrator for the United States (U.S.) and its territories (Puerto Rico, American Samoa, Guam, Commonwealth of Northern Mariana Islands, U.S. Virgin Islands). The Canadian Numbering Administrator (CNA) is responsible for administration of telephone numbers and other telecommunications codes in Canada. 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 assists those regulatory authorities and national administrators to ensure that numbering resources are used according to FCC rules and Industry guidelines.

1.3 NANPA Neutrality

In accordance with FCC regulations², the NANPA is 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.

1.4 Description of the NANPA

NANPA is not a policy-making entity. In reaching assignment decisions, NANPA follows regulatory

² 47 C.F.R. § 52.12

directives and Industry-developed guidelines.³ The FCC and NANC provide continuous oversight of NANPA and evaluates NANPA’s performance each year.

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

The NANPA performs the day-to-day number resource assignment and administrative activities with a long-term focus, which includes maintaining the NAS, PAS and RNAS to support all day-to-day and long-term resource assignment functions.

Some functions of the NANPA include:

- Managing geographic and non-geographic resource administration, including:
 - Receiving and processing applications for CO code and thousands-block assignments
 - Reclaiming CO codes and thousands-blocks that are not placed into service
 - Updating information associated with assigned CO codes and thousands-blocks and keeping the industry informed as the supply of available CO codes approach exhaust
 - Other Resource Administration including 5XX-NXX, 900-NXX, N11, Carrier Identification Codes (CICs), ANI II (Automatic Number Identification Information Integers digits), and Vertical Service Codes (VSCs)
- NPA relief planning, including:
 - Initiating NPA relief planning 36 months prior to forecasted exhaust, when possible, and developing an Industry consensus plan for introducing a new area code
 - Filing proposed relief plans on behalf of the Industry with appropriate state regulatory authorities for their review and approval
 - Initiating the first meeting of the Industry to begin implementation of the approved NPA relief plan
 - Monitoring CO code assignments and its impact on area code exhaust between cycles, releasing updated exhaust projections (aka “Delta NRUFs”) or declaring a jeopardy condition to preserve enough CO code inventory to last until a new NPA can be implemented
 - Working with state regulators on an ongoing basis before and during NPA relief
- Numbering Resource Utilization/Forecast (NRUF) Report processing, including:
 - Handling the semi-annual reporting of utilization and forecast data by all service providers during the reporting cycles of February 1 (July 1 - Dec. 31) and August 1 (Jan. 1 - June 30)
 - Processing NRUF submissions and responding with confirmation or error notifications (sent within 7 calendar days of submission)
 - Initiating an email notification identifying the errors upon submission of a Form 502
 - Sending missing utilization notifications to service providers that submitted an NRUF but failed to report utilization on assigned CO codes and/or thousands-blocks

³ All references to Industry guidelines can be located at the Alliance for Telecommunications Industry Solutions (ATIS) website at https://access.atis.org/apps/group_public/documents.php?view= .

- Sending anomalous notifications to service providers who have numbering resources assigned and have not filed an NRUF for the current reporting cycle
- Managing p-ANI/Routing Number resource administration (RNA), including:
 - Managing and assigning non-dialable p-ANIs, which are used to support the routing of wireless and VoIP 9-1-1 calls, from the 211 and 511 NXXs
 - Performing the day-to-day p-ANI assignment and administrative activities with a long-term focus
 - Providing processes for a standardized application of all administrative p-ANI guidelines
 - Maintaining and planning for adequate p-ANI inventory

The RND Administrator submits a separate Annual Report to the FCC. For questions about NANPA functions or the contents of the *2022 NANPA Annual Report*, please contact Florence Weber, Vice President-NANPA, by email at fweber@nanpa.com or by phone at 925-420-0340.

2 NANPA 2022 PERFORMANCE HIGHLIGHTS

2.1 Overall 2022 Nanpa Performance Summary:

The North American Numbering Plan Administrator (NANPA) continued to provide outstanding contract performance for the reporting period for the year.⁴

2.1.1 Numbering Resources (Geographic) Performance Measurements:

Following are highlights of 2022 geographic resources processing. For further details, see Section 4.

2022 GEOGRAPHIC RESOURCE PROCESSING AT-A-GLANCE
Assigned 5,408 CO codes
Issued 22,795 Part 3s
Of the 22,795 applications processed, 18,061 CO Code Applications were passed through to NAS from PAS
Issued 212,091 Part 3As, with 2022 being the second highest total ever
Met 99.9999% of geographic resource processing measurements
Opened 4,893 codes for pool replenishment
Managed jeopardy procedures in 15 NPAs

2.1.1.1 CO Code Information:

Table 2-1
2022 CO Code Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications processed	22,795
Quantity of applications not processed in 7 calendar days	0
Quantity of CO codes assignments made	5,408
Quantity of change requests to CO codes	15,069
Quantity of CO codes returned	644
Quantity of CO codes reclaimed	1
Quantity of CO code reservation requests	0
Quantity of CO code requests suspended	493
Quantity of CO code requests withdrawn	49
Quantity of CO code requests denied	1,132

⁴ Details in the summaries contained herein and reported to the NAOWG on a monthly basis

2.1.1.2 Thousands-Block Pooling Information:

Table 2-2
2022 Thousands-Block Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications (Part 3As) processed	212,091
Quantity of applications not processed in 7 calendar days	3
Quantity of thousands-block assignments made	62,933
Quantity of change requests to existing thousands-blocks	83,636
Quantity of requests to cancel or withdraw	2,286
Quantity of thousands-block disconnect requests	21,938
Quantity of thousands-block cancel disconnect requests	27
Quantity of thousands-block requests denied	4,825
Quantity of thousands-block requests suspended	36,426
Quantity of thousand-block reservation requests	20
Quantity of thousand-blocks reclaimed	15
Quantity of new blocks on reclamation list	943
Total Quantity of blocks on reclamation list	3,838
Quantity of rate center status changes	280
Quantity of RCs with < 6 months inventory based on forecast	16,972
Quantity of RCs < 6 months inventory based on forecast and zero blocks	7,361
Quantity of RCs with blocks in pending status	9,910
Quantity of codes opened for pool replenishment	4,893

2.1.1.3 Managing Jeopardy NPAs:

JEOPARDY	
Number of NPAs in Jeopardy as of January 1, 2022	10
Number of NPAs declared to be in Jeopardy in 2022	5
Number of Jeopardies Rescinded in 2022	9
Number of NPAs in Jeopardy as of December 31, 2022	6

2.1.1.4 p-ANI Information:

NANPA met 100% of p-ANI performance measurements. For further details on p-ANI performance, see Section 7.

Table 2-3
2022 P-ANI Resources Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications processed	9,307
Quantity of approved applications processed	9,250
Quantity of suspended applications processed	0

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of withdrawn applications processed	6
Quantity of denied applications processed	51
Quantity of applications not processed within 5 business days	0
Percentage of applications not processed within 5 business days	0
Quantity of p-ANIs requested	38,225
Quantity of p-ANIs assigned	38,101
Quantity of change requests	50
Quantity of p-ANIs returned	6,665
Quantity of requests to cancel	1

2.1.2 Numbering Resources (Non-Geographic) Performance Measurements:

NANPA met 100% of Non-Geographic processing performance measurements. For further details on non-geographic resource performance, see Section 6.

Table 2-4
2022 Non-Geographic Resources Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
CIC applications processed within 10 business days (%)	100%
5XX applications processed within 14 calendar days (%)	100%
900 applications processed within 10 business days (%)	N/A
VSC applications processed within 10 business days (%)	N/A
Assignments	
CICs	10
5XX	1,555
900	0
VSC	0
Changes	
CICs	39
5XX	75
900	0
VSC	0
Denials	
CICs	14
5XX	2
900	1
VSC	0
Reclamations - Returns	
CICs	4

PERFORMANCE MEASUREMENTS	TOTAL
5XX	80
900	5
VSC	0
Withdrawn	
CICs	2
5XX	0
900	0
VSC	0
Total Processed	1,787

2.1.3 NRUF Performance Measurements:

NANPA met 100% of NRUF performance measurements in 2022. For further details on NRUF performance, see Section 8.

Table 2-5
2022 NRUF Quantitative Measurements

QUANTITATIVE MEASUREMENTS	TOTAL
Form 502 Email Submissions	6,111
Form 502 FTP Submissions	2,299
Form 502 Web Submissions	3,962
Error Notifications Sent	1,629
Missing Utilization Notifications Sent	639
Anomalous Notifications Sent	555
Confirmation Notifications Sent	6,768
State Reports Created	34

Table 2-6
2022 NRUF Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Percentage of Form 502 Processed w/in 7 days	100%
Number of Form 502 Processed after 7 days	0
Percentage of Missing Utilization Sent w/in 45 days	100%
Number of Missing Utilization Not Sent w/in 45 days	0
Percentage of Anomalous Notifications Sent w/in 90 days	100%
Number of Anomalous Notifications Not Sent w/in 90 days	0

2.1.4 NPA Relief Planning Performance Measurements:

NANPA met 100% of NPA relief performance measurements. For further details on NPA Relief performance, see Section 9.

Table 2-7
2022 NPA Relief Planning Performance Measurements

PERFORMANCE MEASUREMENTS	EVENTS	%MET
1. Initiate relief 36 mo. prior to exhaust or max 8 weeks after new forecast if < 36 mos.	12	100%
2. 3-week initial meeting notification	6	100%
3. 4-week IPD distribution prior to meeting	6	100%
4. 2-week distribution of meeting minutes	41	100%
5. Minutes review 3-weeks after meeting	5	100%
6. 6-week filing of industry relief plan	12	100%
7. NPA assignment request 1 week after regulatory approval	13	100%
8. Issue press release within 2 weeks after NPA assignment	1	N/A
9. Hold initial implementation meeting within 45 calendar days after NPA assignment	18	100%
10. Post PL on website 3 weeks after the initial implementation meeting	18	100%
11. Post PL or notice of industry meeting on website 10 business days after date of regulatory changes to previously issued PL for NPA relief	3	100%
12. Hold jeopardy meeting no later than 3 weeks after jeopardy declaration	5	100%
13. Distribute meeting minutes within 15 business days of jeopardy meeting.	6	100%
14. Distribute IPD 4 weeks after date jeopardy was declared, if relief planning has not been initiated	3	100%
15. Hold industry relief planning meeting 8 weeks after date jeopardy was declared, if relief planning has not been initiated	3	100%
Totals	152	100%
Average days PMs missed	0	0

2.1.5 Status of NPA Codes:

Table 2-8
Status OF NPA Codes as of December 31, 2022

	December 31, 2022
Possible Combinations	800
NPAs not Available for Assignment ⁵	11
Assignable NPAs	789
Currently Assigned	468
In Service	445

⁵ 11 NPAs not available for assignment: 8 (N11 codes), 2 (555 and 950) and 1 (988).

December 31, 2022	
Geographic	418
Non-Geographic ⁶	27
Awaiting Implementation ⁷	23
Currently Unassigned	321
General Purpose	270
Reserved ⁸	224
Available	46
ERCs	51
Reserved ⁹	15
Available	36

2.2 OTHER PERFORMANCE METRICS (TRD Sections 11.11, 11.12, 13.3.1, 13.3.2 and 13.3.3):

2.2.1 SYSTEMS PERFORMANCE MEASUREMENTS:

NAS, PAS and RNAS met systems performance measurements. For further details on systems performance, see Section 10.

Table 2-9
2022 Systems Performance Measurements

SYSTEMS	2022 AVAILABILITY AVERAGE
Percentage NANP Administration System Scheduled (NAS) uptime	100%
Percentage Pooling Administration System Scheduled (PAS) uptime	100%
Percentage Routing Number Administration Scheduled (RNAS) uptime	100%

Table 2-10
2022 Systems Maintenance

⁶ In-service non-geographic NPAs include 500, 521, 522, 523, 524, 525, 526, 527, 528, 529, 533, 544, 566, 577, 588, 600, 622, 700, 710, 800, 833, 844, 855, 866, 877, 888, and 900.

⁷ NPA awaiting implementation is one toll-free NPA (822). Remaining 22 NPAs are geographic NPAs and are listed in Table 3-4.

⁸ 18 reserved 5XX resources included in General Purpose (532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558).

⁹ Reserved ERCs include five Canadian NPAs (633, 644, 655, 677 and 688).

SYSTEM	MAINTENANCE DATES	DOWNTIME
NAS	April 28, December 8	None
PAS	April 28, August 25, December 8	None
RNAS	April 28, December 8	None

2.2.2 Trouble Tickets:

- Opened no trouble tickets.

2.2.3 Communications:

- Total Phone Calls: 945
- Help Desk Calls: 1,215
- Total: 2,160

2.2.4 Change Orders:

- NANPA submitted one NAS change order on December 19, 2022. For further details, see Section 10.2.4 of this report.

2.2.5 Ad Hoc Reports:

- NANPA provided 186 Ad Hoc Reports
 - 18 FCC reports
 - 62 service provider reports
 - 62 state reports
 - 44 other reports

2.3 NPA RELIEF PLANNING:

2022 NPA RELIEF PLANNING AT-A-GLANCE
Managed a total of 38 active NPA relief projects in 2022 compared to 30 in 2021
Initiated 14 NPA relief projects in 2022 compared to nine in 2021
Assigned 13 new geographic NPAs in 2022 compared to seven in 2021
Completed implementation for 10 NPAs in 2022 compared to seven in 2021
Made 35 regulatory filings in 2022 compared to 22 in 2021
Published 21 Planning Letters compared to eight in 2021
Attended 115 Industry NPA relief committee meetings, compared to 77 in 2021
Declared a jeopardy condition in five NPAs compared to nine in 2021
Managed jeopardy procedures in 15 NPAs compared to 13 NPAs in 2021
Posted the new exhaust projections to the website on April 21 and October 21.

2.3.1 NPA Relief Planning Highlights:

- Managed 38 active relief projects in 2022
- There were 14 NPA relief projects initiated, five NPA relief projects with filings pending at the state, and 31 relief projects in the implementation process
- Implemented 10 new NPAs in service

- Completed 35 regulatory submissions, 13 of which were petitions, applications, or notifications of the need for relief
- Facilitated a total of 46 Industry meetings, via a web meeting, compared to 38 Industry meetings facilitated in 2021
- Attended 115 Industry NPA relief committee meetings, providing status updates as needed
- Provided slide and scripts for state commission NPA relief meetings webcasts
- Attended state commission hearings and public meetings

2.3.2 NPA Exhaust Analysis:

2.3.2.1 NPA Exhaust Projections:

- NANPA completed two cycles of 2022 NPA exhaust projections in April and October
- Upon approval by the FCC, the new exhaust projections were posted to the NANPA website on April 21 and October 21

2.3.2.2 Delta NRUF NPA Exhaust Projections:

- NANPA issued Delta NRUF projected NPA exhaust projections seven times in 2022 for a total of 31 NPAs

2.4 REGULATORY:

- Provided 17 state-specific numbering educational presentations, conducting approximately 90-minute meetings with regulatory staff
- Facilitated an overview of NANPA responsibilities for the Florida Public Service Commission on March 29

2.5 INDUSTRY SUPPORT:

- Participated in 210 Industry meetings either in-person or by conference call.
- Industry Meetings:
 - Industry Numbering Committee (INC):
 - Submitted 14 new issues and 14 new contributions at INC
 - Common Interest Group on Rating and Routing (CIGRR):
 - Submitted four new issues at CIGRR
 - Attended meetings of the North American Numbering Council (NANC), Next Generation Interconnection Interoperability Forum (NGIIF), Number Portability Industry Forum (NPIF), Emergency Services Interconnection Forum (ESIF), and Telecom Management and Operations Committee (TMOC) as well as NPA Relief Industry committee meetings
- Made 280 changes to rate center information in 55 NPAs and 40 states
- Met monthly with the Number Administration Oversight Working Group (NAOWG):
 - Noted a total of 167 significant NANPA customer focus items
 - Provided ad hoc reports as requested
- Assisted service providers and state regulators with finding and completing CO codes transfers for LRN codes:
 - Of the 111 requests to seek a possible transfer of CO codes, NANPA is aware of approximately 70 CO codes that were saved from being assigned

- Continued sending NANPA and RNA Tips-of-the-Quarter
- Received no formal complaints relating to NANPA

2.6 REPORTING:

- Produced a total of 912 reports for the FCC, state regulators, the North American Numbering Council (NANC), North American Numbering Plan Administration (NANPA), service providers, and other.
- Submitted all 223 required Contract Data Requirements List (CDRL) and Technical Requirements Document (TRD) reports on time and if required, posted it to the website.
 - Out of the 223 reports, 186 were ad hoc reports that were produced within three business days of NANPA receiving the request.

2.7 OTHER NANPA PERFORMANCE ACTIVITIES:

- **Reclamation:**
 - **CO Codes:**
 - There was a total of 355 CO Codes on the reclamation list, with 74 of those being new
 - NANPA reclaimed one CO Code
 - **Thousands-Blocks:**
 - There was a total of 3,838 thousands-blocks on the reclamation list, with 943 being new
 - NANPA reclaimed 15 thousands-blocks
- **Support for Interconnected VoIP Providers:**
 - Continued to support the authorized interconnected VoIP (iVoIP) providers
 - Continued daily monitoring of the FCC website for any new iVoIP applications, docket filings, public notices, or orders
 - Continued to notify the states whenever there is a filing, notice, order and LRN or multiple code requests
 - Continued responding to iVoIP providers and state regulatory staff inquiries on application processing requirements, proper supporting documentation, 30-day notification letters and adherence to state-specific requirements
- **Seeking Voluntary Disconnects (initiated by NANPA):**
 - NANPA attempted to secure voluntary thousands-block disconnects for 77 rate centers being changed from Excluded to an Optional status
 - NANPA was able to obtain disconnects for 14 of those rate centers which potentially saved 14 CO codes from being opened
- **Seeking Voluntary Disconnects (initiated by service providers):**
 - NANPA was asked by the carriers to request voluntary thousands-block disconnects in 101 Optional pooling rate centers that did not have any available thousands-blocks
 - NANPA received disconnects for 51 of the rate centers which potentially saved 51 CO codes from being opened

- **Abandoned Codes/Thousands-blocks (initiated by NANPA):**
 - There were 153 companies identified in 42 states with abandoned CO codes and/or thousands-blocks
 - CO codes:
 - 105 were transferred to new code holders
 - 298 were disconnected and made available
 - Thousands-blocks:
 - 138 were transferred to a new thousands-block holder
 - 532 were disconnected and made available

- **Implementation of 10-digit local dialing for the three-digit 988 abbreviated code for the 988 Suicide and Crisis Lifeline:**

During 2022, NANPA:

- Facilitated four virtual meetings in 2022 on January 31, March 10, May 12, and July 7, which were attended by Industry members and state regulators
- Updated the *Progress by State/Area Code* spreadsheet provided on the website for milestones where service providers are required to report completion on a weekly basis
- Sent courtesy reminders on milestone reporting deadlines and the need to program mandatory 10-digit (or 1+10-digit) local dialing no later than July 15, 2022
- Provided milestone compliance reports for 25 NPAs to regulators in seven states when requested
- Made 643 CO codes available for assignment in the 82 NPAs where CO codes were unavailable due to possible NPA-related dialing conflicts

3 DESCRIPTION AND STATUS OF NUMBERING PLAN AREAS (NPAs)

3.1 Resource Report—Numbering Plan Areas (NPAs)

Numbering Plan Areas (NPAs), also known as “area codes,” are the first three digits of the 10-digit telephone number. NPAs are in NXX format, where N is any digit from 2 through 9 and X is any digit from 0 through 9.

Most NPAs designate specific geographic areas; for example, the 207 NPA serves the entire state of Maine while the 509 NPA covers a portion of the state of Washington. NPAs used in this manner are called geographic NPA codes.

As shown in Table 3-1, there were 418 geographic NPA codes in service as of December 31, 2022. Of these, 347 serve the U.S. and its territories, 50 serve Canada, and the remaining 21 serve Bermuda and the Caribbean countries participating in the NANP.

Table 3-1
Status of NPA Codes as of December 31, 2022

Possible Combinations	800
NPAs not Available for Assignment ¹⁰	11
Assignable NPAs	789
Currently Assigned	468
In Service	445
Geographic	418
Non-Geographic ¹¹	27
Awaiting Implementation ¹²	23
Currently Unassigned	321
General Purpose	270
Reserved ¹³	224
Available	46
ERCs	51
Reserved ¹⁴	15
Available	36

¹⁰ 11 NPAs not available for assignment: 8 (N11 codes), 2 (555 and 950) and 1 (988).

¹¹ In-service non-geographic NPAs include 500, 521, 522, 523, 524, 525, 526, 527, 528, 529, 533, 544, 566, 577, 588, 600, 622, 700, 710, 800, 833, 844, 855, 866, 877, 888, and 900.

¹² NPA awaiting implementation is one toll-free NPA (822). Remaining 22 NPAs are geographic NPAs and are listed in Table 3-4.

¹³ 18 reserved 5XX resources included in General Purpose (532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558).

¹⁴ Reserved ERCs include five Canadian NPAs (633, 644, 655, 677 and 688).

Attachments 1 and 2 comprise tables of geographic NPA codes currently in use, sorted by location, NPA, overlay complex and local dialing plan.

Other NPAs designate special services such as toll-free calling rather than geographic areas and are known as non-geographic NPA codes. Information relating to Non-Geographic Resources can be found in Section 6. Attachment 3 lists the non-geographic NPAs currently in service.

Introduction of a new geographic NPA follows a specific plan and schedule approved by regulatory authorities. The plan is summarized in one or more *Planning Letters* available on the NANPA website. Once an NPA is assigned for a geographic area, an implementation period follows. The most visible implementation activities include preparing the network to accept the new NPA, introducing any required changes to the dialing plan, and informing the public about the new NPA. The new NPA is considered to be “in service” when it becomes dialable.

3.1.1 2022 NPA Activities

As shown in Table 3-2 below, there were a total of 19 new NPAs put into service in 2022. Of these, 17 are geographic NPA overlays (10 in the U.S. and 7 in Canada) and two are non-geographic NPAs.¹⁵

Table 3-2
NPAs Introduced in 2022

NPA	IN-SERVICE DATE	LOCATION	PARENT NPA	PLANNING LETTER (PL) NUMBER	NPA OVERLAY COMPLEX
464	1/21/2022	ILLINOIS	708	562	464/708
656	2/22/2022	FLORIDA	813	552	656/813
528	3/2/2022	NON-GEOGRAPHIC	N/A	585	N/A
943	3/15/2022	GEORGIA	404	559	404/470/678/770/943
753	3/26/2022	CANADA, ONTARIO	613	574	343/613/753
368	4/23/2022	CANADA, ALBERTA	403	560	368/403/587/780/825
948	5/9/2022	VIRGINIA	757	546	757/948
826	6/14/2022	VIRGINIA	540	545	540/826
983	6/17/2022	COLORADO	303	563	303/720/983
683	6/18/2022	CANADA, ONTARIO	705	570	249/683/705
557	8/12/2022	MISSOURI	314	567	314/557
835	9/2/2022	PENNSYLVANIA	610	578	484/610/835
529	9/16/2022	NON-GEOGRAPHIC	N/A	602	N/A
472	10/7/2022	NORTH CAROLINA	910	569	472/910
263	10/22/2022	CANADA, QUEBEC	514	572	263/438/514
354	10/22/2022	CANADA, QUEBEC	450	590	354/450/579
468	10/22/2022	CANADA, QUEBEC	819	575	468/819/873
584	10/29/2022	CANADA, MANITOBA	204	584	204/431/584
350	11/28/2022	CALIFORNIA	209	594	209/350

¹⁵ While a new NPA may be placed into service, Industry practice in the U.S. is to not assign CO codes from the new NPA until all CO codes from underlying NPAs have been assigned.

There were 13 new geographic overlay NPAs assigned in the U.S. this past year, as shown in the Table 3-3 below:

**Table 3-3
NPAs Assigned in 2022**

NPA	ASSIGNMENT DATE	LOCATION	OVERLAY ?	PARENT NPA	PLANNING LETTER NUMBER	NPA OVERLAY COMPLEX
728	1/5/2022	FLORIDA	Yes	561	582	561/728
363	1/21/2022	NEW YORK	Yes	516	581	363/516
645	2/24/2022	FLORIDA	Yes	305	588	305/645/786
329	4/15/2022	NEW YORK	Yes	845	591	329/845
235	5/2/2022	MISSOURI	Yes	573	596	235/573
350	5/19/2022	CALIFORNIA	Yes	209	594	209/350
324	6/3/2022	FLORIDA	Yes	904	598	324/904
369	6/23/2022	CALIFORNIA	Yes	707	599	369/707
353	9/20/2022	WISCONSIN	Yes	608	605	353/608
821	10/4/2022	SOUTH CAROLINA	Yes	864	606	821/864
624	10/13/2022	NEW YORK	Yes	716	607	624/716
686	11/16/2022	VIRGINIA	Yes	804	608	686/804
436	12/21/2022	OHIO	Yes	440	610	436/440

As of December 31, 2022, 22 previously assigned geographic NPAs remained to be introduced, as shown in Table 3-4. The “Relief Status” column provides the key to understanding the table. Most of the projects listed below are considered to be “Active,” which means the NPA is in a phase of NPA relief planning. A status of “Suspended” indicates that the regulatory authority has placed the NPA relief activity on hold until further notice.

**Table 3-4
NPAs Planned but not yet Introduced as of December 31, 2022**

NEW NPA	LOCATION	OLD NPA	OVERLAY?	IN-SERVICE DATE	PLANNING LETTER NUMBER/S	RELIEF STATUS
227	MARYLAND	301	Yes	6/14/2023	603	Active
235	MISSOURI	573	Yes	3/24/2024	596	Active
274	WISCONSIN	920	Yes	5/05/2023	385, 417, 442, 586, 593	Active
283	OHIO	513	Yes	4/28/2023	264, 286, 316, 579	Active

NEW NPA	LOCATION	OLD NPA	OVERLAY?	IN-SERVICE DATE	PLANNING LETTER NUMBER/S	RELIEF STATUS
324	FLORIDA	904	Yes	2/26/2024	598	Active
327	ARKANSAS	870	Yes	2/20/2024	400, 437, 587, 604	Active
329	NEW YORK	845	Yes	3/24/2023	591	Active
353	WISCONSIN	608	Yes	9/15/2023	605	Active
363	NEW YORK	516	Yes	1/20/2023	581	Active
369	CALIFORNIA	707	Yes	2/01/2023	599	Active
382	CANADA, ONTARIO	519	Yes	6/17/2023	583	Active
428	CANADA, NEW BRUNSWICK	506	Yes	4/29/2023	522, 539, 549, 553	Active
624	NEW YORK	716	Yes	11/16/2023	607	Active
645	FLORIDA	305	Yes	8/04/2023	588	Active
679	MICHIGAN	313	Yes	TBD	209, 227	Active
686	VIRGINIA	804	Yes	2/01/2024	608	Active
728	FLORIDA	561	Yes	3/10/2023	582	Active
730	ILLINOIS	618	Yes	7/07/2023	595	Active
821	SOUTH CAROLINA	864	Yes	8/19/2024	606	Active
861	ILLINOIS	309	Yes	2/24/2023	577	Active
879	CANADA, NEWFOUNDLAND AND LABRADOR	709	Yes	TBD	503, 514, 521, 557	Suspended
975	MISSOURI	816	Yes	10/13/2023	262, 280, 304, 568, 597	Active

3.1.2 Overlays

In an overlay, two or more NPAs serve all or part of the same geographic area. The term “overlay complex” defines all of the NPAs included in the overlay area. All of the overlays in service today are all-services distributed overlays; that is, numbers in the overlay NPA(s) are not restricted to any specific service or services. Overlays are the Industry-preferred form of NPA relief. A geographic split has not been recommended, approved, or implemented in the U.S. since 2007.

The overlay complexes in service as of December 31, 2022, are listed in Attachments 1 and 2.

3.2 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 may vary from state to state and from NPA to NPA.

Key variables in determining a dialing pattern are:

- Whether or not the call originates and terminates within the same NPA (home NPA)
- Whether the call is a local or toll call
- 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. In areas where ten-digit (or 1+10-digit) local dialing is required, the NPA must be dialed. In areas where seven-digit local dialing is still permissible, the NPA is not required. For instance, with the implementation of the 988 abbreviated dialing code for the *988 Suicide and Crisis Lifeline*, many single NPA areas now employ mandatory 10-digit local dialing. Some states also permit individual providers to use 1+10 digit dialing for local calls. Toll calls originating in one NPA and terminating in another NPA are usually dialed with a prefix “1” followed by the 10-digit number. Special handling calls are always dialed with a prefix “0” followed by the 10-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 10-digit number, and foreign NPA local calls are dialed using the 10-digit number without a prefix. In states where the prefix “1” is used to indicate that a 10-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 10-digit number.

Dialing patterns within an NPA may also 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.

Basic dialing plans for U.S. NPAs are listed in Attachment 4.

3.3 Implementation of 10-Digit Local Dialing for the Three-Digit 988 Abbreviated Code for the 988 Suicide and Crisis Lifeline:

On July 16, 2020, the FCC adopted Report and Order FCC 20-100, designating 988 as the three-digit abbreviated dialing code to access the National Suicide Prevention Lifeline, now known as the 988 Suicide and Crisis Lifeline (Lifeline). The Order required all telecommunications carriers, interconnected Voice over Internet Protocol (VoIP) providers, and one-way VoIP providers to make any network changes necessary to ensure that users can dial 988 to reach the 988 Suicide and Crisis Lifeline. NANPA developed, based on input from the affected telecommunications carriers, an implementation schedule for those NPAs where 988 is a working prefix and local calls are dialed using seven-digits to transition to 10-digit local dialing. By July 15, 2022, the Industry completed the transition to 10-digit (or 1+10-digit) mandatory local dialing in 36 states and 82 NPAs where 988 was a working prefix and local calls were formerly dialed with seven-digits. Table 3-6 lists the affected states and NPAs.

Table 3-6
NPAs that Transitioned to 10-Digit (or 11-Digit) Local Dialing

STATE	NPAs
Alaska	907
Alabama	251
Arkansas	501
Arizona	480, 520, 928
California	209, 530, 562, 626, 650, 707, 925, 949, 951
Colorado	719, 970
Delaware	302
Florida	321 (Brevard County only), 352, 561, 941
Georgia	478, 912
Guam	671
Hawaii	808
Illinois	309, 618, 708
Indiana	219, 574
Iowa	319, 515
Kansas	620, 785
Kentucky	859
Louisiana	337, 504
Michigan	616, 810, 906, 989
Minnesota	218, 952
Mississippi	662
Missouri	314, 417, 660, 816
Montana	406
Nevada	775
New Hampshire	603
New Jersey	856, 908
New Mexico	505, 575
New York	516, 607, 716, 845, 914
North Carolina	910
Ohio	440, 513
South Dakota	605
Tennessee	731, 865
Texas	254, 361, 409, 806, 830, 915, 940
Vermont	802
Virginia	276, 804
Washington	509
Wisconsin	262, 414, 608, 920

At the start of the transition in 2020, the Industry and NANPA developed key milestones that were required to successfully accomplish the transition from 7-digit local dialing to mandatory 10 (or 1+10-digit) local dialing on time. NANPA facilitated the successful conclusion of the transition in 2022 by

continuing to meet with service providers and regulators to review progress on milestones. NANPA maintained a dedicated area on the NANPA website providing information on the transition including fact sheets, Frequently Asked Questions (FAQs), sample special letters for both permissive and mandatory dialing, sample press releases for permissive and mandatory dialing, and the *Progress on 988 Milestones* and *Progress by State/Area Codes* tracking sheets. On a weekly basis, NANPA updated the *Progress by State/Area Code* spreadsheet for milestones where service providers are required to report completion of milestones. The last update was completed on August 5, 2022. NANPA also sent courtesy reminders on milestone reporting deadlines and the need to program mandatory 10-digit (or 1+10-digit) local dialing no later than July 15, 2022.

NANPA facilitated four virtual meetings in 2022 on January 31, March 10, May 12, and July 7, which were attended by Industry members and state regulators. At these meetings NANPA reviewed the milestones for which NANPA expected compliance reporting, responded to questions asked by the participants, and provided minutes from each meeting. NANPA also provided milestone compliance reports for 25 NPAs at the request of regulators in seven states.

As a result of the transition to mandatory 10-digit (or 1+10-digit) local dialing, NANPA was able to make 643 CO codes available for assignment in the 82 NPAs where CO codes were unavailable due to possible NPA-related dialing conflicts. After January 15, 2023, NANPA will make the 988 CO code available in NPAs where mandatory 10-digit local dialing has been implemented.

3.4 Reserved NPAs

NANPA reserves certain NPAs for future use. Table 3-8 lists the currently reserved NPAs.

Table 3-8
Reserved Geographic NPA Codes as of December 31, 2022

221	392	546	693	886
230	393	547	694	887
232	394	549	695	889
238	395	550	696	890
245	396	552	697	891
247	397	553	698	892
257	398	554	699	893
258	399	556	729	894
259	420	558	735	895
261	421	560	738	896
265	427	565	739	897
271	429	568	741	898
273	439	569	745	899
278	449	576	746	921
280	451	578	748	923
286	453	583	749	924
287	457	589	750	926

290	459	590	752	927
291	460	591	756	935
292	461	592	761	942
293	462	593	764	946
294	465	594	768	953
295	471	595	776	957
296	476	596	789	960
297	481	597	790	961
298	483	598	791	962
299	485	599	792	963
328	486	621	793	964
342	487	625	794	965
357	489	627	795	966
359	490	632	796	967
362	491	633	797	968
370	492	634	798	969
371	493	642	799	981
372	494	644	823	982
373	495	652	824	987
374	496	655	837	990
375	497	663	841	991
376	498	665	851	992
377	499	673	852	993
378	532	676	871	994
379	535	677	875	995
381	536	685	880	996
384	537	687	881	997
387	538	688	882	998
389	542	690	883	999
390	543	691	884	
391	545	692	885	

4 DESCRIPTION AND STATUS OF GEOGRAPHIC RESOURCES ACTIVITY

Geographic Resources include CO codes, thousands-blocks (blocks), and Pseudo-Automatic Number Identification numbers (p-ANIs). This section will focus on 2022 activities relating to processing CO code and thousands-block applications for assignment, details associated with specific types of resource processing, reclamation of resources that are not placed into service, and other activities performed by NANPA. Details about Non-Geographic Resources activity can be found in Section 6 and Routing Number/p-ANI Administration activities can be found in Section 7.

NANPA uses two systems for processing applications, NAS, and PAS. During 2022, NANPA processed 100% of 22,795 CO code applications (Part 3s), and 99.999% of the second highest number of thousands-block applications (Part 3As) on record, 212,091, within seven calendar days.

In addition to processing, as a routine part of their job performance, NANPA also:

- Responds to questions and requests for assistance from service providers
- Reviews documentation to verify eligibility for requested CO codes and thousands-blocks
- Interacts with state commission staff on issues relating to certification and answers numbering related questions
- Assists service providers with questions relating to using NAS and PAS
- Educates new users on the application process
- Searches for new code holders for non-pooled and pooled CO codes being with assigned block and/or ported TNs
- Searches for new thousands-block holders for thousands-blocks being returned with greater than 10% contamination
- Works with the NPAC to ensure that thousands-block requests are handled in accordance with Industry guidelines.

4.1 Status of CO Code Productivity

NANPA administers all geographic CO codes in the U.S. and its territories utilizing the NANP Administration System (NAS) and Pooling Administration System (PAS). The Canadian Numbering Administrator (CNA) performs this function in Canada. In the remaining NANP countries, regulatory authorities play an active role in CO code administration.

CO codes (also known as prefixes, exchanges, or NXX codes) are the three digits of the 10-digit telephone number that come after the NPA. The following information addresses CO codes within geographic NPAs.

Each CO code contains 10,000 numbers assigned for use within a rate center. Service providers (SPs) apply for CO codes through NAS and PAS in order to:

- Request assignment of a CO code in a non-pooling rate center
- Request the assignment of a CO code for Location Routing Number (LRN) purposes
- Request a CO code to replenish the inventory pool

- Request a CO code to meet a service provider’s need for a dedicated customer¹⁶ (10,000 consecutive telephone numbers for a single customer)

As of the end of 2022, NANPA managed 187,327 assigned CO codes in the U.S. and its territories.

The process for applying for a CO code assignment based on FCC rules and Industry-developed guidelines is specified in the *Thousands-Block (NPA-NXX- X) & Central Office Code (NPA-NXX) Administration Guidelines* (TBCOCAG).

4.1.1 2022 CO Code Activity

Monthly CO code application and assignment activities during 2022 are shown in Table 4-1.

Table 4-1
2022 Monthly CO Code Activity

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Quantity of applications processed	1,657	3,007	1,336	1,051	1,239	2,716	1,223	1,659	3,996	1,548	1,936	1,427	22,795
Quantity of applications not processed in 7 calendar days	0	0	0	0	0	0	0	0	0	0	0	0	0
Quantity of CO codes assignments made	1,009	929	592	215	248	244	267	344	490	495	313	262	5,408
Quantity of change requests to CO codes	500	1,824	569	684	806	2,227	609	1,183	3,312	865	1,498	992	15,069
Quantity of CO codes returned	16	21	37	26	42	123	206	11	69	63	22	8	644
Quantity of CO codes reclaimed	0	0	0	0	0	0	1	0	0	0	0	0	1
Quantity of CO code reservation requests	0	0	0	0	0	0	0	0	0	0	0	0	0
Quantity of CO code requests suspended	37	66	67	41	46	31	41	40	32	39	17	36	493
Quantity of CO code requests	9	0	6	7	3	3	5	6	3	3	1	3	49

¹⁶ Per Section 5.3.3(k) of the TBCOCAG, a customer letter is required as supporting documentation to accompany a dedicated CO Code application.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
withdrawn													
Quantity of CO code requests denied	86	167	65	78	94	88	95	75	90	83	85	126	1,132

The totals for CO code requests processed and assigned in 2022, while lower than 2021, are the second highest totals ever. NANPA processed 22,795 requests in 2022, compared to 35,773 requests processed in 2021, but 2022 totals were still 55% higher than 2020 where 14,679 requests were processed. A total of 5,408 CO code assignments were made in 2022 as compared to 6,970 in 2021 and 4,895 in 2020. Productivity statistics for the past five years can be found in Section 13, *Historical Trends Since 2018*.

The overwhelming majority of CO code assignments were for pool replenishment. Following are the assignment totals by type:

- 4,893 for pool replenishment (90%),
- 469 for LRNs (9%),
- 46 for dedicated customers (1%)¹⁷,

Of the 22,795 applications processed, 18,061 CO Code applications were passed through to NAS from PAS as compared to 24,934 in 2021. A total of 15,069 change requests were processed in 2022 compared to 27,297 change requests in 2021. These include transfers to other service providers, switch changes, tandem changes, OCN changes due to mergers/acquisitions, and effective date changes. A total of 644 return requests were approved in 2022 compared to 263 returns in 2021, a 145% increase compared to 2021. A total of 49 applications were withdrawn, as compared to 109 withdrawals in 2021.

4.2 Status of Thousands-Block Productivity

This section describes in detail thousands-block pooling processing activity in 2022, including information about applications processed, thousands-blocks assigned, and CO codes opened in pooled rate centers. Productivity statistics for the past five years can be found in Section 13, *Historical Trends Since 2018*.

4.2.1 Thousands-Block Productivity

NANPA administers all thousands-blocks utilizing the PAS. In 2022, NANPA processed the second-highest number of applications ever, including processing pooled CO code requests within a compressed timeframe of seven calendar days versus the former 14 calendar days. NANPA processed 212,091 Part 3As compared to 340,814 Part 3As in 2021, which remains the highest total to date. In addition, NANPA saw a the highest one-month high total for 2022 in February (24,094), compared to the highest monthly total for 2021 which was in August (69,922).

¹⁷ Of the 46 dedicated customer requests, six were for non-pooled CO codes.

Table 4-2 identifies areas of thousands-block processing activity:

Table 4-2
2022 Thousands-Block Activity

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Quantity of applications (Part 3As) processed	15,527	24,094	16,948	17,809	16,440	21,075	13,864	17,529	18,424	19,444	18,585	12,352	212,091
Quantity of applications not processed in 7 calendar days	0	0	0	0	0	0	0	0	0	0	0	3	3
Quantity of thousands-block assignments made	7,429	6,173	5,378	3,905	4,156	4,025	4,571	5,664	6,272	6,515	5,126	3,719	62,933
Quantity of change requests to existing thousands-blocks	3,227	13,023	5,953	6,029	8,874	6,836	3,763	6,698	6,224	8,383	8,786	5,840	83,636
Quantity of requests to cancel or withdraw	135	86	117	82	280	636	73	232	250	134	202	59	2,286
Quantity of thousands-block disconnect requests	1,337	1,406	1,937	3,394	913	2,965	3,032	1,460	1,915	1,484	1,298	797	21,938
Quantity of thousands-block cancel disconnect requests	9	0	1	2	0	2	0	4	2	5	2	0	27
Quantity of thousands-block requests denied	497	463	425	408	329	346	324	528	380	431	346	348	4,825
Quantity of thousands-block requests suspended	2,890	2,939	3,137	3,989	1,877	6,264	2,101	2,943	3,381	2,491	2,825	1,589	36,426
Quantity of thousand-block reservation requests	3	4	0	0	11	1	0	0	0	1	0	0	20
Quantity of thousand-blocks reclaimed	0	5	0	7	0	0	2	0	0	1	0	0	15
Quantity of new blocks on reclamation list	87	101	35	108	85	27	26	17	56	102	186	113	943
Total Quantity of blocks on reclamation list	390	403	315	384	338	288	236	221	233	268	368	394	3,838
Quantity of rate center status	74	69	24	9	24	15	15	19	11	4	10	6	280

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
changes													
Quantity of RCs with < 6 months inventory based on forecast	1,992	1,771	1,254	1,202	1,254	1,390	1,389	1,464	1,325	1,431	1,329	1,171	16,972
Quantity of RCs < 6 mos inv based on forecast and zero blocks	983	942	498	434	475	549	534	634	555	637	606	514	7,361
Quantity of RCs with blocks in pending status	1,240	1,806	1,551	947	488	401	405	481	646	695	647	603	9,910
Quantity of codes opened for pool replenishment	951	862	514	188	250	194	241	304	431	431	281	246	4,893

Table 4-3 shows a breakdown of applications (Part 3As) by disposition type, including approvals, denials, suspensions, and withdrawals.

**Table 4-3
Applications (Part 3As) Processed in 2022**

Approvals	168,554
Denials	4,825
Suspensions	36,426
Withdrawals	2,286
TOTAL	212,091

Table 4-4 and Figure 1 contain the total number of applications processed by activity type.

**Table 4-4
2022 Applications (Part 3A) Processed by Type**

	Approved	Denied	Suspended	Withdrawn	Total
Thousands-block Modifications	77,138	394	0	1,344	78,876
Thousands-block Disconnects	21,462	370	22,008	257	44,097
Thousands-block Cancel Disconnect	27	0	0	0	27
Individual Thousands-blocks	45,067	1,953	0	173	47,193
Thousands-block Reservations	20	5	0	2	27
Process/Cancel Thousands-block Reservations	19	1	0	0	20
Code Modifications	6,477	251	6,538	169	13,435

	Approved	Denied	Suspended	Withdrawn	Total
Code Disconnects	440	777	2,253	33	3,503
LRN Thousands-blocks	803	282	491	63	1,639
Dedicated Customer Thousands-blocks	470	47	47	10	574
Pool Replenishment Thousands-blocks	16,552	724	5,089	234	22,599
ISP Disconnects	36	1	0	0	37
ISP Modifications	21	10	0	0	31
ISP Thousands-blocks	22	10	0	1	33
TOTALS	168,554	4,825	36,426	2,286	212,091

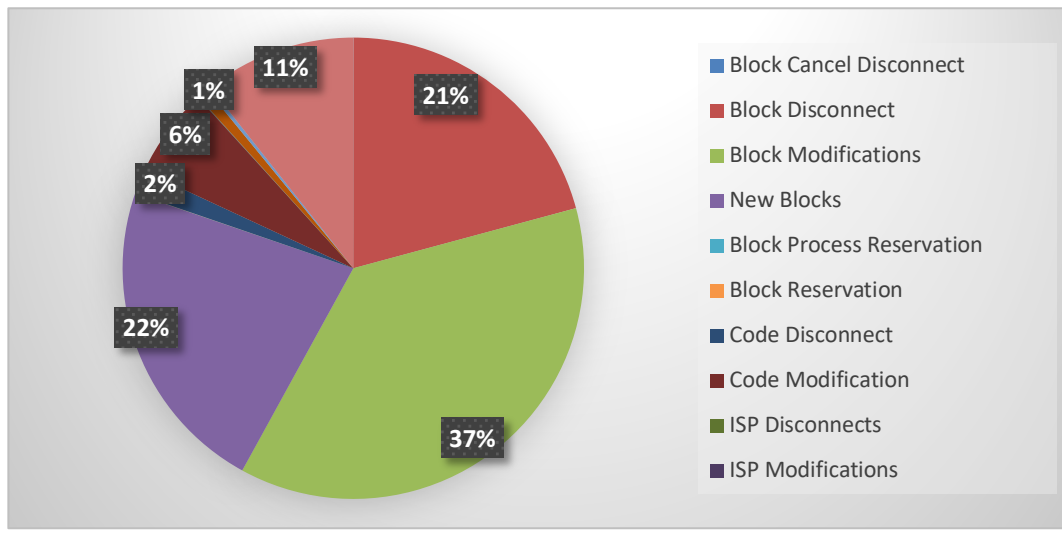


Figure 1: 2022 Pooling Applications by Type

NANPA also issued 21,878 Part 5s for thousands-block disconnects, reclamations, and exchanges during 2022, of which 21,462 were actual thousands-block disconnects.

NANPA processed 99.999% of the 212,091 applications (Part 3As) within seven calendar days

There were 860,446 assigned thousands-blocks in PAS at the end of 2022, an increase of 62,911 from 2021.

Figure 2 below depicts the monthly thousands-block assignments made by the NANPA during each month in 2022, NANPA assigned the highest total of thousands-blocks, 7,429, in January, and the lowest total, 3,719, in December.

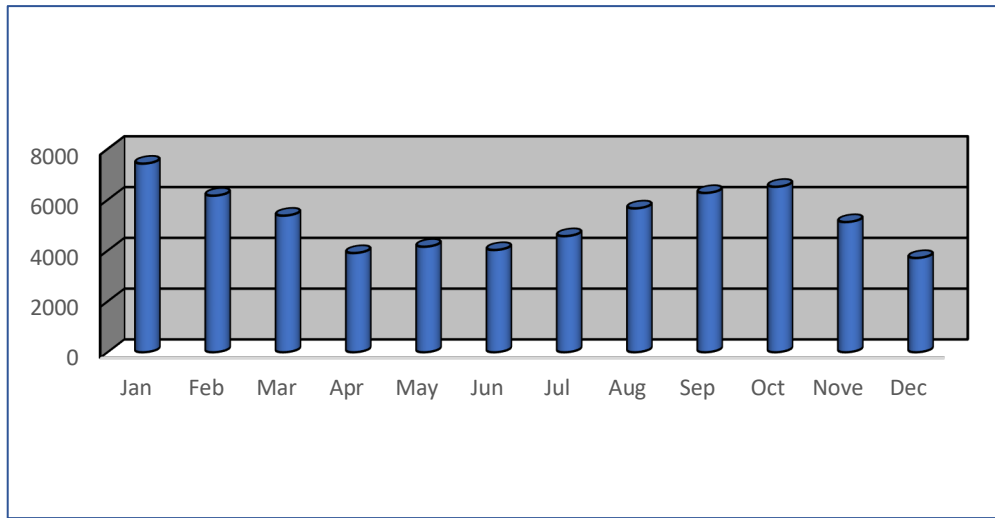


Figure 2: Thousands-blocks Assigned by NANPA in Each Month in 2022

The total number of applications (Part 3As) processed is a measure of the actual work performed by the RAs, because not every application results in the immediate assignment of a thousands-block. Although a large majority of applications for numbering resources are processed and approved immediately, some are suspended for future action, and some are denied or withdrawn entirely. Each of these actions requires work on the part of NANPA and generates a Part 3A.

Figure 3 below provides a complete overview of all applications processed in PAS for 2022, including approvals, denials, withdrawals, and suspended applications.

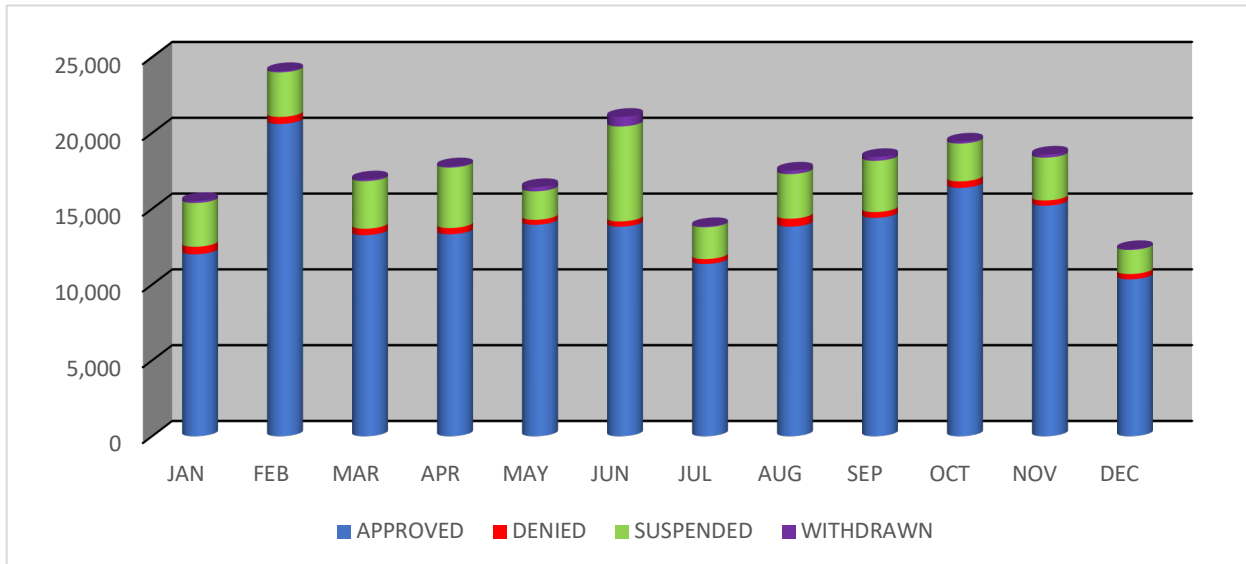


Figure 3: Overview of All 2022 Applications Processed by Status

Tables 4-5 and 4-6 list the ten states and NPAs for which the highest number of applications processed (Part 3As) occurred in 2022.

Table 4-5
Ten States with Highest Number of Applications Processed (Part 3As) in 2022

State	Total Part 3As
CALIFORNIA	23,950
FLORIDA	12,772
MICHIGAN	12,554
NEW YORK	11,412
TEXAS	10,992
ILLINOIS	9,374
OHIO	7,588
GEORGIA	7,170
NORTH CAROLINA	7,126
PENNSYLVANIA	6,436

Table 4-6
Ten NPAs with Highest Number of Applications Processed (Part 3As) in 2022

NPA	State	Total Part 3As
316	KANSAS	3,306
308	NEBRASKA	2,675
734	MICHIGAN	1,954
864	SOUTH CAROLINA	1,915
586	MICHIGAN	1,832
248	MICHIGAN	1,789
347	NEW YORK	1,656
256	ALABAMA	1,606
678	GEORGIA	1,600
205	ALABAMA	1,525

When a pooling rate center inventory falls below the aggregated six-month forecasted demand, PAS alerts a service provider about the need to replenish the pool and permits the service provider to either take blocks from the pool when available, split the request by taking blocks and opening a CO code to replenish the pool, or to simply replenish the pool. NANPA is not authorized to obtain resources directly and therefore has no authority to replenish the inventory itself. Consequently NANPA must rely on the SPs that can meet the application requirements to maintain adequate inventories by opening a CO code, keeping the thousands-blocks they need, and returning the remaining thousands-blocks from that CO code to the pool.

Table 4-7 below provides an overview of rate center inventories and pool replenishment.

Table 4-7
2022 Pool Replenishment Overview

Average number of rate centers per month that had less than a six-month inventory	1,414
Percentage of total number of rate centers per month that had less than a six-month inventory	8.3%
Average number of rate centers per month that had no thousands-blocks available but had a forecasted demand	613
Number of CO codes opened for pool replenishment	4,893

Table 4-8 shows the number of CO codes opened by NANPA in 2022 and for what purpose. Pool replenishment accounts for 90% of the CO codes opened.

Table 4-8
2022 CO Codes Opened by Purpose

PURPOSE	TOTAL	PERCENT OF TOTAL
LRN	469	9%
Dedicated Customer	46	1%
Pool Replenishment	4,893	90%
TOTAL	5,408	100%

Tables 4-9 and 4-10 show the ten states and NPAs which had the most pool replenishment activity in 2022.

Table 4-9
Ten States with the Most Pool Replenishment Activity in 2022

State	Codes Opened
CALIFORNIA	603
TEXAS	403
FLORIDA	322
NEW YORK	231
PENNSYLVANIA	217
GEORGIA	195
VIRGINIA	170
ILLINOIS	165
NORTH CAROLINA	163
MICHIGAN	151

Table 4-10

Ten NPAs with the Most Pool Replenishment in 2022

NPA Complex	State	Codes Opened
657/714	CALIFORNIA	99
281/346/713/832	TEXAS	93
347/718/917/929	NEW YORK	81
470/678/770/943	GEORGIA	73
214/469/945/972	TEXAS	67
240/301	MARYLAND	47
272/570	PENNSYLVANIA	47
208/986	IDAHO	43
215/267/445	PENNSYLVANIA	43
385/801	UTAH	43

4.3 Other NANPA Code and Block Activities**4.3.1 Data Quality**

NANPA manages the quality control and maintenance of the rate center data located on the website, completes the semi-annual forecasting reports, updates NAS and PAS for area code relief events, and provides status updates for the Industry at NANPA meetings.

The *NPA/Rate Center Reports* identify the pooling participation level status designation of all rate centers in each NPA, including where service providers are either required to participate in pooling (Mandatory, either by the FCC or state delegated authority), are required to participate when a second service provider enters the rate center (Mandatory Single Service Provider, either by FCC or state delegated authority), where pooling is not required, but either the state or a carrier has requested that the rate center be opened in PAS (Optional), or where no carrier has chosen to pool (Excluded).

NANPA is responsible for the accurate recording of all pooling information associated with every NPA, including the status designation for each rate center. For the definitions of rate center status designations, see Section 4.4.

In addition, NANPA monitors and makes all of the changes that occur as a result of the Office of Management and Budget (OMB) directives related to population changes that affect pooling rate center designations. NANPA found no OMB directives in 2022 that affected rate center designations and therefore made no associated changes.

Changes to rate center information are available in real-time through the pooling website. In 2022, NANPA made 280 rate center information changes. All of the changes are related to updates to the rate center status designation from Excluded (X) to Optional (O), Single-Service Provider Mandatory (M*) to Mandatory (M) or State Single-Service Provider Mandatory (M*) to State Mandatory (M).

Table 4-11 shows the type of rate center information change and how many were changed during each month in 2022.

Table 4-11
Summary of 2022 Rate Center File Changes

REASON	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CHANGE IN STATUS:													
M* to M	20	47	2	1	14	0	0	6	2	0	2	2	96
M* to M	38	17	4	1	4	4	3	10	2	1	1	0	85
X to O	16	5	18	7	6	11	12	3	7	3	7	4	99
X to M*	0	0	0	0	0	0	0	0	0	0	0	0	0
X to M*	0	0	0	0	0	0	0	0	0	0	0	0	0
O to M*	0	0	0	0	0	0	0	0	0	0	0	0	0
M to M	0	0	0	0	0	0	0	0	0	0	0	0	0
M to M*	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW RATE CENTERS	0	0	0	0	0	0	0	0	0	0	0	0	0
RATE CENTERS WITH MSA UPDATES	0	0	0	0	0	0	0	0	0	0	0	0	0
MSA CHANGES	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	74	69	24	9	24	15	15	19	11	4	10	6	280

4.3.2 Debt Collection Improvement Act of 1996, FCC 04-72, MD Docket 02-339, Adopted March 25, 2004 (Red Light Rule)

The “Red Light Rule” provides that anyone filing an application or seeking a benefit from the FCC or one of its components (including the Universal Service Administrative Corporation, the Telecommunications Relay Service, or NANPA) who is delinquent in debts owed to the FCC, will be barred from receiving a license or other benefit until the delinquency has been resolved. The FCC determined that numbering resources constitute a benefit and has directed the NANPA to withhold assignment of numbering resources to any entity identified by the FCC as delinquent in its payments to them.

In 2022, NANPA denied 13 new CO code requests and 117 new thousands-block requests in compliance with this requirement.

4.3.3 Seeking Voluntary Disconnects

When an SP requests to opt into pooling in an Excluded rate center, the rate center designation is changed from “Excluded” to “Optional,” and NANPA will then seek voluntary thousands-block disconnects from existing SP(s) in that rate center so that the incoming SP can request thousands-blocks instead of opening a new CO code. When successful, this proactive effort prevents the unnecessary opening of CO codes. This time-consuming effort requires that NANPA first verify which SPs presently

operate in the rate center, then locate the contact information for them, and finally send emails to each of the SPs explaining the circumstances and requesting the thousands-block disconnects.

Between January 1 and December 31, 2022, NANPA attempted to secure voluntary thousands-block disconnects for 77 of the 99 rate centers that were changed from Excluded to an Optional status. NANPA was able to obtain disconnects for 14 of those rate centers, thereby potentially saving the opening of 14 CO codes.

At times, a carrier will also contact NANPA to seek disconnects in a pooling rate center when no thousands-blocks are available to prevent the opening of a CO code. In 2022, NANPA was asked by SPs to request voluntary thousands-block disconnects in 101 Optional pooling rate centers that did not have any available thousands-blocks. NANPA requested and received disconnects for 51 of the rate centers thereby potentially saving 51 CO codes from being opened.

4.3.4 Abandoned Codes/Thousands-Blocks:

When NANPA learns that a company has ceased operations and abandoned CO codes and thousands-blocks, NANPA initiates the process to recover or reassign those resources. NANPA works with the appropriate regulatory authority to obtain approval to treat those resources as abandoned. Upon approval from the appropriate regulatory authority, NANPA verifies with the NPAC if there are any LRNs associated with a CO code, or ported TNs on CO codes or thousands-blocks. If there are no LRNs or ported TNs, NANPA makes the CO code available for assignment. If there are no ported TNs or the thousands-block is 10% or less contaminated, NANPA makes the thousands-block available. If the CO code has ported TNs, assigned/retained thousands-blocks, or the thousands-block is over 10% contaminated, NANPA will reach out to those SPs with the ported TNs or assigned/retained thousands-blocks to request that they become the new CO code or block holder. This requires considerable work and coordination by NANPA.

There are some instances where NANPA determines through further research with regulators or other sources that a service provider initially identified as being abandoned is still in business. NANPA will then halt the abandoned process and educates the service provider about their responsibilities to file their NRUF and to keep their contact information up to date in the NANPA systems.

The following is a summary of abandoned CO code/thousands-block activity in 2022:

There were 153 companies identified in 42 states with abandoned CO codes and/or thousands-blocks:

- CO codes:
 - 105 were transferred to new code holders
 - 298 were disconnected and made available
- Thousands-blocks:
 - 138 were transferred to a new thousands-block holder
 - 532 were disconnected and made available

4.3.5 Managing Jeopardies

NANPA may recognize a need to declare a jeopardy condition in an NPA after reviewing CO code assignment rates and adjusting the projected NPA exhaust dates. A jeopardy condition exists when an NPA is in danger of running out of CO codes before area code relief can be implemented.

When NANPA declares jeopardy, interim jeopardy procedures are put into place effective immediately. Interim jeopardy procedures allow for the assignment of three CO codes per month and remain in effect until the Industry meets to develop the final jeopardy procedures. NANPA posts the interim procedures to the NANPA website within one week of the jeopardy declaration. No later than three weeks after jeopardy is declared, NANPA convenes an Industry meeting to develop the final jeopardy procedures. These procedures limit the number of CO codes that can be assigned each month and the Industry often will set a trigger for reevaluating the jeopardy allocation based on the assignment history, remaining CO codes, and when area code relief will be implemented.

Once the Industry reaches consensus on the final jeopardy procedures, NANPA posts them to the website. In addition, if a relief filing has not yet been filed, NANPA will schedule an Industry meeting to develop a relief plan for the jeopardy NPA.

NANPA checks daily for applications submitted within the NPAs in jeopardy to ensure the jeopardy procedures are followed and CO codes are assigned only within the submission timeframe and to the proper number of OCNs. Those requests placed within the submission timeframe, between the first and fifth business days of the month, and meet the assignment criteria, are suspended until the lottery submission period ends. After the end of the submission timeframe, NANPA reviews the suspended requests and if fewer requests were submitted than the monthly allotment permits, including carryover allotments that were not assigned in previous lotteries, there is no lottery, and the requests are processed. If there are more requests than the monthly and carryover allotment permits, NANPA places all of the applications into a lottery and draws the allowed number of requests. The applications drawn from the lottery are processed and the remaining applications are denied. Often requests are submitted outside the lottery timeframes and those requests are immediately denied.

At the start of 2022, there were 10 NPAs in jeopardy: California 209, Florida 305/786 and 561, Illinois 618, Missouri 314, New York 516, Ohio 513, Pennsylvania 484/610, and Virginia 540 and 757. Five NPAs were declared in jeopardy in 2022: California 707, New York 716 and 845, Ohio 440 and Wisconsin 608.

By December 31, 2022, only six NPAs remained in jeopardy: Florida 305/786, Illinois 618, New York 716, Ohio 440 and 513, and Wisconsin 608.

Once the supply and/or forecasted demand of CO codes no longer justify jeopardy, or CO codes become available for assignment in the new NPA according to the NPA relief implementation plan, NANPA rescinds jeopardy and rationing ceases.

NANPA rescinded jeopardy in nine NPAs in 2022:

- March: Virginia 757 NPA
- April: Virginia 540 NPA
- June: Missouri 314 NPA and Pennsylvania 484/610 NPA

- July: New York 516 and 845 NPAs, and Florida 561 NPA
- September: California 209 NPA
- November: California 707 NPA

Table 4-12 depicts the status of the 15 total NPAs in jeopardy in 2022:

**Table 4-12
NPAs in Jeopardy in 2022**

STATE	NPA	DATE JEOPARDY DECLARED	CO CODES ALLOCATED PER MONTH ¹⁸	NUMBER OF REQUESTS PERMITTED PER OCN	JEOPARDY RESCINDED
ILLINOIS	618	7/11/2000	3	3	
CALIFORNIA	209	12/16/2020	2	2	9/23/2022
VIRGINIA	757	5/25/2021	4	4	3/4/2022
VIRGINIA	540	5/25/2021	2	2	4/9/2022
PENNSYLVANIA	484/610	6/17/2021	3	3	6/28/2022
OHIO	513	6/17/2021	2	2	
MISSOURI	314	9/23/2021	2	2	6/7/2022
NEW YORK	516	9/23/2021	3	3	7/14/2022
FLORIDA	561	9/23/2021	3	3	7/14/2022
FLORIDA	305/786	9/23/2021	4	4	
CALIFORNIA	707	1/4/2022	3	3	11/27/2022
NEW YORK	845	1/4/2022	5	5	7/14/2022
WISCONSIN	608	3/30/2022	5	5	
OHIO	440	3/30/2022	2	2	
NEW YORK	716	3/30/2022	5	5	

NANPA facilitated a total of 14 jeopardy meetings in 2022:

- Five meetings to set the jeopardy procedures:
 - January: California 707 NPA and New York 845 NPA
 - April: New York 716 NPA, Ohio 440 NPA and Wisconsin 608 NPA,
- Nine trigger jeopardy review meetings for 11 NPAs:
 - January: Pennsylvania 484/610 NPA, California 209 NPA¹⁹
 - March: Illinois 618 NPA
 - April: New York 516 NPA²⁰ and New York 845 NPA
 - May: California 209 NPA and Ohio 513 NPA, Illinois 618 NPA

¹⁸ The monthly allocation shown is as of the last month the NPA was in jeopardy. The Industry may have changed monthly allocations during the year.

¹⁹ The January 2022 jeopardy meeting to set the final procedures for the California 707 NPA was combined with the trigger jeopardy review of the California 209 NPA.

²⁰ The April 2022 jeopardy meeting to set the final procedures for the New York 716 NPA was combined with a trigger jeopardy review of the New York 516 NPA.

- July: California 707 NPA
- October: Wisconsin 608 NPA
- November: New York 716 NPA

4.3.6 Authorized Interconnected VoIP Support

On June 22, 2015, the Federal Communications Commission (FCC) released the VoIP Direct Access order establishing a process to authorize interconnected VoIP (iVoIP) providers to obtain telephone numbers nationwide directly from NANPA.²¹ NANPA has been providing additional support for iVoIP providers and state regulators since the order became effective and the FCC began accepting applications for authorization in February 2016.

Once an iVoIP provider's direct access authorization application is granted, the applicant can immediately submit the required 30-day notification to states from which it intends to request numbers. The first numbering resources were assigned to an iVoIP entity in May 2016. By the end of 2022, a total of 156 applications had been submitted to the FCC for direct access authorization, with a total of 105 approved. Of those, seven new applications were submitted, and the FCC approved seven authorizations in 2022.

NANPA continues to support and educate iVoIP providers on application processing requirements, proper supporting documentation, and the information needed in 30-day notification letters. We provide a "Getting Started for Interconnected VoIP Providers" quick sheet that provides guidance on the rules and Industry guidelines related to iVoIP direct access to numbering resources and have a "New Service Provider Checklist" to assist with process questions.

NANPA also works one-on-one with the iVoIP applicants to explain the rules and guidelines so the applications for numbering resources can be processed as quickly as possible. This often prevents the need to resubmit documentation or applications. NANPA spends a vast amount of time with individual iVoIP provider administrators going over the process for registering in PAS, what documentation they need, and how to submit applications.

In addition, we continue sending regular updates to the state commissions whenever new applications for direct access authorization or filings are made and when initial requests to open CO codes for LRNs are submitted in their states. NANPA responds to questions about the 30-day notification process and works with the states and the FCC when questions arise about iVoIP providers' requirements to follow state-specific procedures. NANPA created the "VoIP Provider 30-day Notification State Regulatory Sheet" which is posted to NANPA's Pooling website and is intended to save iVoIP providers time when submitting a 30-day notification to a state. NANPA developed the file with information obtained from state regulatory authorities to provide 30-day notification submission information, as well as contact and/or docket information for each state. NANPA updates the information when notified about any changes in regulatory contacts or process that occur.

²¹ Report and Order, Numbering Policies for Modern Communications, IP-Enabled Services, and Telephone Number Requirements for IP-Enabled Services Providers et al, FCC 15-70, dated July 15, 2015.

In 2022, there were 36,055 applications processed (Part 3As) for iVoIP providers (IPES OCN), compared to 51,412 applications (Part 3As) in 2021. This represents approximately 17% of the total number of Parts 3As processed.

Table 4-13 details the total number of applications processed for iVoIP providers in 2022:

Table 4-13
2022 iVoIP Applications (Part 3As) Processed

Approvals	25,081
Denials	1,261
Suspensions	8,983
Withdrawals	730
TOTAL	36,055

4.3.7 CO Code Conservation Efforts

NANPA continued the practice of assisting service providers and state regulators in the transfer of a CO code from one service provider to another service provider needing to open a code for a Location Routing Number (LRN). NANPA coordinated with regulators and service providers in an attempt to transfer 111 CO codes, where possible, to avoid opening new CO codes for LRN purposes. NANPA is unable to accurately track whether CO codes were actually saved because of the many steps involved in the transfer process and varied timelines for each transaction but based on responses from regulators and service providers, NANPA estimates at least 70 CO codes were saved.

4.3.8 Mass Modification Process

Service providers may submit a mass modification spreadsheet containing modifications (e.g., change in switch ID, intra-company OCN, tandem homing CLLI) to CO code and thousands-block records when such changes impact 50 or more CO codes or thousands-blocks. In 2022, NANPA processed 7,166 CO code changes compared to 20,428 CO code changes in 2021 and 12,703 changes for thousands-blocks compared to 139,160 changes for thousands-blocks in 2021 via the mass modification process.

4.3.9 Reclamation

Reclamation refers to the process of reclaiming numbering resources, both CO codes and thousands-blocks, that have not been placed into service within 6-months of the effective date. FCC rules²² and Industry guidelines require that assigned CO codes and thousands-blocks be placed into service no later than six-months after the original effective date. The assignee confirms that the CO code or thousands-block is in service by submitting a Part 4 for CO codes and Part 4A for thousands-blocks.

If the Part 4 or Part 4A is not received within six-months of the original Part 3 or Part 3A effective date, the Part 4 or Part 4A is considered delinquent, and the CO code or thousands-block is eligible to be reclaimed. If NANPA does not receive the Part 4 or 4A during the first five months following the original

²² 47CFR§ 52.15(i), Reclamation of Numbering Resources

effective date identified on the Part 3 or Part 3A, NANPA sends a reminder notice to the CO code or thousands-block holder. NANPA also sends a second reminder to the service provider on the day after the Part 4 or Part 4A was due. By the 10th calendar day of each month, NANPA sends a list of delinquent Part 4 and Part 4As for the CO codes and thousands-blocks to each appropriate regulatory contact requesting appropriate action. Once the initial 6-month timeframe for submitting the Part 4 or Part 4A has passed, NANPA can no longer accept the in-service certification without approval of the appropriate regulatory authority. 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 amount of delinquent CO codes and thousands-blocks on which it begins the reclamation process, along with the number of CO codes and thousands-blocks actually reclaimed each month. The reclamation of a CO code or thousands-block must be directed by the appropriate regulatory authority.

4.3.9.1 CO Code Reclamation

In 2022, 6,888 Part 4s were processed by NANPA. NANPA sent 200 monthly reports to regulatory staff to address a total of 355 CO codes on the overdue Part 4 report compared to 497 in 2021. Of those, 74 were new to the list compared to 103 in 2021. NANPA initiated reclamation for two CO codes in 2022 and completed reclamation for one, in New York.

Table 4-14 reflects the CO code reclamation activity in 2022

Table 4-14
2022 CO Code Reclamation Activity

Month	Total Number of CO Codes with Overdue Part 4s	Total Number of NEW CO Codes with Overdue Part 4s	Total Number of CO Codes for which Reclamation was Initiated ²³	Total Number of CO Codes Reclaimed
January	26	3	0	0
February	26	5	0	0
March	20	3	0	0
April	23	4	0	0
May	22	3	1	0
June	21	3	1	0
July	19	3	0	1
August	26	11	0	0
September	38	15	0	0
October	41	10	0	0
November	46	12	0	0
December	47	2	0	0
TOTAL	355	74	2	1

4.3.9.2 Thousands-Block Reclamation

NANPA sent 400 monthly reports to regulatory staff to address a total of 3,838 thousands-blocks on the overdue Part 4A reports in 2022, compared to 5,669 in 2021. Of those, 943 thousands-blocks were new, compared to 2,170 thousands-blocks in 2021. In 2022, regulators authorized NANPA to initiate reclamation on 25 thousands-blocks. Of those, reclamation was completed for 15 thousands-blocks in Idaho and Michigan.

²³ While a state may authorize the NANPA to initiate thousands-block reclamation, not all thousands-blocks in this category have been reclaimed. In some cases, the reclamation process is halted if it is determined that the thousands-blocks are actually in service.

Table 4-15 depicts all of the 2022 thousands-block reclamation activity:

Table 4-15
2022 Thousands-Block Reclamation Activity

Month	Total Number of Thousands-blocks with Overdue Part 4As	Total Number of NEW thousands-blocks with Overdue Part 4As	Total Number of Thousands-blocks for which Reclamation was Initiated ²⁴	Total Number of Thousands-blocks Reclaimed
January	390	87	0	0
February	403	101	9	5
March	315	35	7	0
April	384	108	0	7
May	338	85	2	0
June	288	27	2	0
July	236	26	2	2
August	221	17	1	0
September	233	56	1	0
October	268	102	0	1
November	368	186	1	0
December	394	113	0	0
TOTAL	3,838	943	25	15

4.4 Identification of Existing and Potential Thousands-Block Pooling Areas

As of December 31, 2022, there are 16,878 distinct thousands-block pooling rate centers (i.e., pooling areas), which constitute 91.3% of the 18,485 total number of distinct rate centers. While thousands-block pooling is available in all states, the District of Columbia and Puerto Rico, not all states have mandatory pooling, either by FCC rule or through delegated authority. North Dakota, South Dakota, and Wyoming have no mandatory pooling rate centers.

While we cannot speculate about “potential” pooling areas, there are currently 1,607 Excluded rate centers in which no carrier is pooling and could therefore be considered “potential” pooling areas.

NANPA designates each rate center according to one of the following definitions:

1. Mandatory (M) - This rate center is located in a top-100 MSA and service providers with numbering resources in this rate center that have not been granted a specific exemption must pool in this rate center.

²⁴ While a state may authorize the NANPA to initiate thousands-block reclamation, not all thousands-blocks in this category have been reclaimed. In some cases, the reclamation process is halted if it is determined that the thousands-blocks are actually in service.

2. Mandatory State (M) - Pooling was implemented in this rate center pursuant to a state commission order. This rate center is not in a top-100 MSA, but has one or more pooling-capable service providers, and is considered a mandatory pooling rate center.

3. Mandatory Single Service Provider (M*) - This rate center is located in a top 100 MSA but has only one service provider that has numbering resources. This rate center will be considered optional under these conditions and designated as M*. When a second service provider receives numbering resources in this rate center, the designation will be changed to M for Mandatory.

4. Mandatory State Single Service Provider (M*) - Pooling has been implemented in this rate center pursuant to a state commission order. This rate center is not in a top 100 MSA and has only one service provider that has numbering resources. This rate center will be considered optional under these conditions and designated as M*. When a second service provider receives numbering resources in this rate center, the designation will be changed to M for Mandatory State.

5. Optional (O) - This rate center is not in a top 100 MSA and any service provider with numbering resources in this rate center may elect to pool at its option. Service providers may voluntarily participate in thousands-block number pooling in an Optional rate center outside the top 100 MSAs.

6. Excluded (X) - This rate center is not in a top-100 MSA and no service provider is currently participating in pooling. This rate center is not included in the Pooling Administration System (PAS).

4.4.1 Identification of Existing and Potential Pooling Areas

Table 4-16 below identifies the 18,485 rate centers and their status designations, by state, as of December 31, 2022. Of the total number of rate centers, 16,878 are distinct pooling rate centers (*i.e.*, pooling areas) and 1,607 are Excluded/Potential pooling areas. Pooling rate centers are identified as either “Mandatory” or “Optional.” Rate centers with a designation of “Excluded” are considered potential pooling areas.

Table 4-16
Summary of all Rate Centers by Status Designation as of December 31, 2022

STATE	MANDATORY (M)	MANDATORY STATE (M)	OPTIONAL	MANDATORY SINGLE SP(M*)	MANDATORY STATE SINGLE SP (M*)	EXCLUDED	TOTAL
ALASKA		76			184		260
ALABAMA	58	86	135			20	299
ARKANSAS	47		288			45	380
ARIZONA	45		69	2		14	130
CALIFORNIA	440	83	182	14		20	739
COLORADO	23	5	140			40	208
CONNECTICUT	74	15					89
DELAWARE	8		22				30
DISTRICT OF COLUMBIA	1						1

STATE	MANDATORY (M)	MANDATORY STATE (M)	OPTIONAL	MANDATORY SINGLE SP(M*)	MANDATORY STATE SINGLE SP (M*)	EXCLUDED	TOTAL
FLORIDA	129	14	124			1	268
GEORGIA	79		246	2		33	360
HAWAII	1		5				6
IDAHO	18	114		1	12		145
ILLINOIS	242		652	9		80	983
INDIANA	221	265	16	4	17	2	525
IOWA	84	63	472	17		175	811
KANSAS	75		360	18		121	574
KENTUCKY	47	151	140		12	22	372
LOUISIANA	66		205			6	277
MAINE	50	101	94			4	249
MARYLAND	112	53					165
MASSACUSETTS	234	30	2				266
MICHIGAN	229	112	289		1	3	634
MINNESOTA	63		444			131	638
MISSISSIPPI	48	96	89	1	2	3	239
MISSOURI	141	466		17	97		721
MONTANA		154			106		260
NORTH CAROLINA	157	17	246	1		10	431
NORTH DAKOTA			129			170	299
NEBRASKA	30	206	170	2	43		451
NEW HAMPSHIRE	32	92	24				148
NEW JERSEY	187		21				208
NEW MEXICO	7		89			58	154
NEW YORK	407	261	79				747
NEVADA	25		49			22	96
OHIO	383	163	166			27	739
OKLAHOMA	119	15	222	21		152	529
OREGON	36	103	79			37	255
PENNSYLVANIA	415	347	12		2		776
PUERTO RICO	49		35				84
RHODE ISLAND	25						25
SOUTH CAROLINA	112		123			5	240
SOUTH DAKOTA			114			155	269
TENNESSEE	123		191	5		22	341
TEXAS	327	7	773	6		164	1,277
UTAH	38	1	56	5		32	132
VERMONT		101	40				141
VIRGINIA	125	178	66				369
WASHINGTON	56	151	1	1	14		223

STATE	MANDATORY (M)	MANDATORY STATE (M)	OPTIONAL	MANDATORY SINGLE SP(M*)	MANDATORY STATE SINGLE SP (M*)	EXCLUDED	TOTAL
WEST VIRGINIA	7	156	61			4	228
WISCONSIN	133	322	121	5	21		602
WYOMING			63			29	92
Grand Total	5,328	4,004	6,904	131	511	1,607	18,485

4.4.2 Summarized Information about Existing and “Potential” Pooling Areas

Table 4-17 illustrates the breakdown of the total number and percentage of rate centers that are available for pooling, as well as by pooling status designation.

Table 4-17
2022 Summarized Information about Existing and “Potential” Pooling Areas

DESCRIPTION BY STATUS TYPE	TOTAL/PERCENTAGE
Total Number of Distinct Rate Centers Available for Pooling	16,878
Percentage of Distinct Rate Centers Available for Pooling	91.3%
Total Number of Mandatory (M and M) Distinct Rate Centers	9,332
Percentage of Distinct Rate Centers that are Mandatory	50.4%
Total Number of Distinct Mandatory Single-Service Provider (M*and M*) Rate Centers	642
Percentage of Distinct Rate Centers that are Mandatory Single-Service Provider	3.5%
Total Number of Distinct Optional Rate Centers	6,904
Percentage of Distinct Rate Centers that are Optional	37.3%
Total Number of Distinct Rate Centers Excluded from Pooling	1,607
Percentage of Distinct Rate Centers that are Excluded from Pooling	8.7%
Total Number of Distinct Rate Centers	18,485

4.5 Aggregated Total Number of the Service Providers Participating in the Pooled Area, by Pool

A list of the aggregated total by pool of the service providers participating in the pooled areas in 2022 can be found as Attachment 5. There are 1,125 distinct service providers²⁵ participating in 16,878 distinct pooled rate centers in 239 NPA and NPA complexes covering 52 jurisdictions including the 50 states, the District of Columbia, and Puerto Rico.

²⁵ This count of distinct service providers consolidates all OCNs for a single company under one parent company.

5 FORECAST RESULTS AND REVIEW OF FORECASTS VERSUS ACTUAL THOUSANDS-BLOCK ASSIGNMENTS

This section identifies forecast results by NPA and contains a review of forecasts compared to actual thousands-block assignments.

HIGHLIGHTS OF 2022 FORECAST DATA
There were forecasts in 239 NPA and NPA complexes:
11,495 distinct rate areas with forecasts
110,142 forecasted thousands-blocks
62,933 thousands-blocks assigned
57.13% of the thousands-blocks forecasted were assigned

In 2022, 110,142 thousands-blocks were forecasted, and 62,933 thousands-blocks were assigned in 239 NPA and NPA complexes. This resulted in 57.13% of the forecasted thousands-blocks being assigned.

Carriers forecasted a need for thousands-blocks in 11,495 of the 16,878 pooling rate centers, or in 68.10% of them. In 5,383 pooling rate centers, no thousands-blocks were forecasted during 2022. Table 5-1 below depicts the percentage of thousands-blocks forecasted versus actual thousands-block assignment by NPA or NPA Complex.

Table 5-1
Forecasted versus Actual Thousands-block Assignments by NPA or NPA Complex for 2022

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
201/551	NEW JERSEY	612	358	58.50%
202/771	DISTRICT OF COLUMBIA	377	251	66.58%
203/475	CONNECTICUT	492	297	60.37%
205/659	ALABAMA	514	332	64.59%
206	WASHINGTON	312	197	63.14%
207	MAINE	340	198	58.24%
208/986	IDAHO	497	332	66.80%
209/350	CALIFORNIA	935	334	35.72%
210/726	TEXAS	411	245	59.61%
212/332/646/917	NEW YORK	792	397	50.13%
213/323	CALIFORNIA	966	490	50.72%
214/469/945/972	TEXAS	1,436	895	62.32%
215/267/445	PENNSYLVANIA	942	556	59.02%
216	OHIO	170	74	43.53%
217/447	ILLINOIS	470	321	68.30%
218	MINNESOTA	267	179	67.04%
219	INDIANA	257	143	55.64%
220/740	OHIO	542	340	62.73%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
223/717	PENNSYLVANIA	619	412	66.56%
224/847	ILLINOIS	599	387	64.61%
225	LOUISIANA	393	227	57.76%
228	MISSISSIPPI	130	85	65.38%
229	GEORGIA	569	329	57.82%
231	MICHIGAN	223	150	67.26%
234/330	OHIO	514	303	58.95%
239	FLORIDA	429	287	66.90%
240/301	MARYLAND	1,044	616	59.00%
248/947	MICHIGAN	624	304	48.72%
251	ALABAMA	590	345	58.47%
252	NORTH CAROLINA	554	319	57.58%
253	WASHINGTON	216	144	66.67%
254	TEXAS	303	144	47.52%
256/938	ALABAMA	922	531	57.59%
260	INDIANA	311	164	52.73%
262	WISCONSIN	293	160	54.61%
269	MICHIGAN	259	166	64.09%
270/364	KENTUCKY	409	215	52.57%
272/570	PENNSYLVANIA	724	484	66.85%
276	VIRGINIA	323	182	56.35%
279/916	CALIFORNIA	405	256	63.21%
281/346/713/832	TEXAS	1,637	1,027	62.73%
302	DELAWARE	289	160	55.36%
303/720/983	COLORADO	575	393	68.35%
304/681	WEST VIRGINIA	775	403	52.00%
305/786	FLORIDA	1,305	448	34.33%
307	WYOMING	115	65	56.52%
308	NEBRASKA	358	159	44.41%
309/861	ILLINOIS	250	133	53.20%
310/424	PENNSYLVANIA	636	371	58.33%
312/872	ILLINOIS	209	91	43.54%
313	MICHIGAN	449	215	47.88%
314/557	MISSOURI	546	248	45.42%
315/680	NEW YORK	928	534	57.54%
316	KANSAS	283	98	34.63%
317/463	INDIANA	389	232	59.64%
318	LOUISIANA	453	347	76.60%
319	IOWA	339	173	51.03%
320	MINNESOTA	251	172	68.53%
321	FLORIDA	365	216	59.18%
321/407/689	FLORIDA	750	407	54.27%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
325	TEXAS	161	111	68.94%
326/937	OHIO	433	252	58.20%
329/845	NEW YORK	604	243	40.23%
331/630	ILLINOIS	335	215	64.18%
334	ALABAMA	457	275	60.18%
336/743	NORTH CAROLINA	620	398	64.19%
337	LOUISIANA	344	214	62.21%
339/781	MASSACHUSETTS	408	242	59.31%
341/510	CALIFORNIA	381	255	66.93%
347/718/917/929	NEW YORK	2,338	1,030	44.05%
351/978	MASSACHUSETTS	471	253	53.72%
352	FLORIDA	513	314	61.21%
360/564	WASHINGTON	528	350	66.29%
361	TEXAS	327	202	61.77%
363/516	NEW YORK	529	210	39.70%
369/707	CALIFORNIA	375	215	57.33%
380/614	OHIO	428	187	43.69%
385/801	UTAH	736	530	72.01%
386	FLORIDA	332	216	65.06%
401	RHODE ISLAND	242	146	60.33%
402/531	NEBRASKA	534	320	59.92%
404/470/678/943	GEORGIA	460	281	61.08%
405/572	OKLAHOMA	341	232	68.04%
406	MONTANA	294	145	49.32%
408/669	CALIFORNIA	512	319	62.30%
409	TEXAS	287	206	71.78%
410/443/667	MARYLAND	974	577	59.24%
412/878	PENNSYLVANIA	403	215	53.35%
413	MASSACHUSETTS	463	242	52.27%
414	WISCONSIN	219	117	53.42%
415/628	CALIFORNIA	290	201	69.31%
417	MISSOURI	311	173	55.63%
419/567	OHIO	510	311	60.98%
423	TENNESSEE	539	312	57.88%
425	WASHINGTON	326	223	68.40%
430/903	TEXAS	521	298	57.20%
432	TEXAS	128	77	60.16%
434	VIRGINIA	331	223	67.37%
435	UTAH	259	162	62.55%
440	OHIO	305	185	60.66%
442/760	PENNSYLVANIA	847	443	52.30%
448/850	FLORIDA	595	380	63.87%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
458/541	OREGON	400	267	66.75%
464/708	ILLINOIS	489	335	68.51%
470/678/770/943	GEORGIA	1,549	757	48.87%
472/910	NORTH CAROLINA	586	358	61.09%
478	GEORGIA	306	183	59.80%
479	ARKANSAS	339	197	58.11%
480	ARIZONA	410	300	73.17%
484/610/835	PENNSYLVANIA	895	339	37.88%
501	ARKANSAS	310	185	59.68%
502	KENTUCKY	344	216	62.79%
503/971	OREGON	448	301	67.19%
504	LOUISIANA	186	116	62.37%
505	NEW MEXICO	405	275	67.90%
507	MINNESOTA	324	186	57.41%
508/774	MASSACHUSETTS	621	347	55.88%
509	WASHINGTON	430	226	52.56%
512/737	TEXAS	666	388	58.26%
513	OHIO	602	195	32.39%
515	IOWA	380	218	57.36%
517	MICHIGAN	179	99	55.31%
518/838	NEW YORK	621	349	56.20%
520	ARIZONA	495	307	62.02%
530	CALIFORNIA	522	332	63.60%
534/715	WISCONSIN	376	248	65.96%
539/918	OKLAHOMA	362	203	56.08%
540/826	FLORIDA	621	326	52.50%
559	CALIFORNIA	478	305	63.81%
561/728	VIRGINIA	591	327	55.33%
562	CALIFORNIA	418	239	57.18%
563	IOWA	166	106	63.86%
571/703	VIRGINIA	510	318	62.35%
573	MISSOURI	418	196	46.89%
574	INDIANA	182	105	57.69%
575	NEW MEXICO	327	208	63.61%
580	OKLAHOMA	200	111	55.50%
582/814	PENNSYLVANIA	630	392	62.22%
585	NEW YORK	400	214	53.50%
586	MICHIGAN	163	67	41.10%
601/769	MISSISSIPPI	627	373	59.49%
602	ARIZONA	174	135	77.59%
603	NEW HAMPSHIRE	458	245	53.49%
605	SOUTH DAKOTA	287	181	63.07%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
606	KENTUCKY	265	169	63.77%
607	NEW YORK	413	208	50.36%
608	WISCONSIN	293	169	57.67%
609/640	NEW JERSEY	569	352	61.86%
612	MINNESOTA	229	148	64.63%
615/629	TENNESSEE	587	384	65.42%
616	MICHIGAN	213	108	50.70%
617/857	MASSACHUSETTS	414	255	61.59%
618	ILLINOIS	817	356	43.57%
619/858	CALIFORNIA	584	335	57.36%
620	KANSAS	361	251	69.53%
623	ARIZONA	364	194	53.30%
626	CALIFORNIA	406	240	59.11%
631/934	NEW YORK	651	269	41.32%
636	MISSOURI	211	119	56.40%
641	IOWA	209	110	52.63%
650	CALIFORNIA	350	254	72.57%
651	MINNESOTA	128	63	49.22%
656/813	FLORIDA	442	265	59.95%
657/714	CALIFORNIA	1,853	1,033	55.75%
660	MISSOURI	220	98	44.55%
661	CALIFORNIA	427	221	51.76%
662	MISSISSIPPI	346	202	58.38%
682/817	TEXAS	700	397	56.71%
701	NORTH DAKOTA	422	83	19.67%
702/725	NEVADA	507	332	65.48%
704/980	NORTH CAROLINA	772	422	54.66%
706/762	GEORGIA	836	522	62.44%
712	IOWA	331	164	49.55%
716	NEW YORK	637	262	41.13%
719	COLORADO	398	258	64.82%
724/878	PENNSYLVANIA	375	193	51.47%
727	FLORIDA	417	272	65.23%
731	TENNESSEE	281	186	66.19%
732/848	NEW JERSEY	553	297	53.71%
734	MICHIGAN	244	141	57.79%
747/818	CALIFORNIA	516	301	58.33%
754/954	FLORIDA	610	375	61.48%
757/948	VIRGINIA	455	291	63.96%
763	MINNESOTA	134	105	78.36%
765	INDIANA	442	273	61.76%
772	FLORIDA	205	119	58.05%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
773/872	ILLINOIS	483	293	60.66%
775	NEVADA	448	314	70.09%
779/815	ILLINOIS	458	302	65.94%
785	KANSAS	178	103	57.87%
787/939	PUERTO RICO	906	391	43.16%
802	VERMONT	219	174	79.45%
803/839	SOUTH CAROLINA	796	483	60.68%
804	VIRGINIA	415	222	53.49%
805/820	PENNSYLVANIA	443	295	66.59%
806	TEXAS	249	171	68.67%
808	HAWAII	302	211	69.87%
810	MICHIGAN	245	152	62.04%
812/930	INDIANA	596	306	51.34%
816	MISSOURI	408	211	51.72%
828	NORTH CAROLINA	513	323	62.96%
830	TEXAS	388	242	62.37%
831	CALIFORNIA	258	168	65.12%
840/909	CALIFORNIA	441	262	59.41%
843/854	SOUTH CAROLINA	630	332	52.70%
856	NEW JERSEY	578	329	56.92%
859	KENTUCKY	301	163	54.15%
860/959	CONNECTICUT	529	344	65.03%
862/973	NEW JERSEY	652	350	53.68%
863	FLORIDA	381	181	47.51%
864	SOUTH CAROLINA	557	303	54.39%
865	TENNESSEE	233	154	66.09%
870	ARKANSAS	419	210	50.12%
901	TENNESSEE	389	230	59.13%
904	FLORIDA	508	315	62.01%
906	MICHIGAN	80	26	32.50%
907	ALASKA	169	53	31.36%
908	NEW JERSEY	403	220	54.59%
912	GEORGIA	599	377	62.94%
913	KANSAS	283	161	56.89%
914	NEW YORK	405	150	37.04%
915	TEXAS	200	136	68.00%
919/984	NORTH CAROLINA	608	334	54.93%
920	WISCONSIN	242	164	67.76%
925	CALIFORNIA	219	131	59.82%
928	ARIZONA	375	267	71.20%
931	TENNESSEE	331	176	53.17%
936	TEXAS	205	126	61.46%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
940	TEXAS	291	199	68.38%
941	FLORIDA	301	213	70.76%
949	CALIFORNIA	546	291	53.30%
951	CALIFORNIA	427	223	52.22%
952	MINNESOTA	156	55	35.26%
956	TEXAS	475	265	55.79%
970	COLORADO	378	240	63.49%
979	TEXAS	239	145	60.67%
985	LOUISIANA	213	146	68.54%
989	MICHIGAN	294	189	64.29%

Table 5-2 shows the thousands-blocks forecasted versus actual thousands-block assignments by percentage assigned, from lowest to highest, in each NPA or NPA Complex. The North Dakota 701 NPA had the lowest percentage of thousands-blocks assigned compared to total thousands-blocks forecasted, at 19.67%, while the Vermont 802 NPA had the highest ratio at 79.45%.

Table 5-2
Forecasted Versus Actual Thousands-Block Assignments by Percent Assigned
Listed from Lowest to Highest

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
701	NORTH DAKOTA	422	83	19.67%
907	ALASKA	169	53	31.36%
513	OHIO	602	195	32.39%
906	MICHIGAN	80	26	32.50%
305/786	FLORIDA	1,305	448	34.33%
316	KANSAS	283	98	34.63%
952	MINNESOTA	156	55	35.26%
209/350	CALIFORNIA	935	334	35.72%
914	NEW YORK	405	150	37.04%
484/610/835	PENNSYLVANIA	895	339	37.88%
363/516	NEW YORK	529	210	39.70%
329/845	NEW YORK	604	243	40.23%
586	MICHIGAN	163	67	41.10%
716	NEW YORK	637	262	41.13%
631/934	NEW YORK	651	269	41.32%
787/939	PUERTO RICO	906	391	43.16%
216	OHIO	170	74	43.53%
312/872	ILINOIS	209	91	43.54%
618	ILLINOIS	817	356	43.57%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
380/614	OHIO	428	187	43.69%
347/718/917/929	NEW YORK	2,338	1,030	44.05%
308	NEBRASKA	358	159	44.41%
660	MISSOURI	220	98	44.55%
314/557	MISSOURI	546	248	45.42%
573	MISSOURI	418	196	46.89%
863	FLORIDA	381	181	47.51%
254	TEXAS	303	144	47.52%
313	MICHIGAN	449	215	47.88%
248/947	MICHIGAN	624	304	48.72%
470/678/770/943	GEORGIA	1,549	757	48.87%
651	MINNESOTA	128	63	49.22%
406	MONTANA	294	145	49.32%
712	IOWA	331	164	49.55%
870	ARKANSAS	419	210	50.12%
212/332/646/917	NEW YORK	792	397	50.13%
607	NEW YORK	413	208	50.36%
616	MICHIGAN	213	108	50.70%
213/323	CALIFORNIA	966	490	50.72%
319	IOWA	339	173	51.03%
812/930	INDIANA	596	306	51.34%
724/878	PENNSYLVANIA	375	193	51.47%
816	MISSOURI	408	211	51.72%
661	CALIFORNIA	427	221	51.76%
304/681	WEST VIRGINIA	775	403	52.00%
951	CALIFORNIA	427	223	52.22%
413	MASSACHUSETTS	463	242	52.27%
442/760	CALIFORNIA	847	443	52.30%
540/826	FLORIDA	621	326	52.50%
509	WASHINGTON	430	226	52.56%
270/364	KENTUCKY	409	215	52.57%
641	IOWA	209	110	52.63%
843/854	SOUTH CAROLINA	630	332	52.70%
260	INDIANA	311	164	52.73%
931	TENNESSEE	331	176	53.17%
309/861	ILLINOIS	250	133	53.20%
623	ARIZONA	364	194	53.30%
949	CALIFORNIA	546	291	53.30%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
412/878	PENNSYLVANIA	403	215	53.35%
414	WISCONSIN	219	117	53.42%
603	NEW HAMPSHIRE	458	245	53.49%
804	VIRGINIA	415	222	53.49%
585	NEW YORK	400	214	53.50%
862/973	NEW JERSEY	652	350	53.68%
732/848	NEW JERSEY	553	297	53.71%
351/978	MASSACHUSETTS	471	253	53.72%
859	KENTUCKY	301	163	54.15%
321/407/689	FLORIDA	750	407	54.27%
864	SOUTH CAROLINA	557	303	54.39%
908	NEW JERSEY	403	220	54.59%
262	WISCONSIN	293	160	54.61%
704/980	NORTH CAROLINA	772	422	54.66%
919/984	NORTH CAROLINA	608	334	54.93%
517	MICHIGAN	179	99	55.31%
561/728	VIRGINIA	591	327	55.33%
302	DELAWARE	289	160	55.36%
580	OKLAHOMA	200	111	55.50%
417	MISSOURI	311	173	55.63%
219	INDIANA	257	143	55.64%
657/714	CALIFORNIA	1,853	1,033	55.75%
956	TEXAS	475	265	55.79%
508/774	MASSACHUSETTS	621	347	55.88%
539/918	OKLAHOMA	362	203	56.08%
518/838	NEW YORK	621	349	56.20%
276	VIRGINIA	323	182	56.35%
636	MISSOURI	211	119	56.40%
307	WYOMING	115	65	56.52%
682/817	TEXAS	700	397	56.71%
913	KANSAS	283	161	56.89%
856	NEW JERSEY	578	329	56.92%
562	CALIFORNIA	418	239	57.18%
430/903	TEXAS	521	298	57.20%
369/707	CALIFORNIA	375	215	57.33%
515	IOWA	380	218	57.36%
619/858	CALIFORNIA	584	335	57.36%
507	MINNESOTA	324	186	57.41%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
315/680	NEW YORK	928	534	57.54%
252	NORTH CAROLINA	554	319	57.58%
256/938	ALABAMA	922	531	57.59%
608	WISCONSIN	293	169	57.67%
574	INDIANA	182	105	57.69%
225	LOUISIANA	393	227	57.76%
734	MICHIGAN	244	141	57.79%
229	GEORGIA	569	329	57.82%
785	KANSAS	178	103	57.87%
423	TENNESSEE	539	312	57.88%
772	FLORIDA	205	119	58.05%
479	ARKANSAS	339	197	58.11%
326/937	OHIO	433	252	58.20%
207	MAINE	340	198	58.24%
512/737	TEXAS	666	388	58.26%
310/424	CALIFORNIA	636	371	58.33%
747/818	CALIFORNIA	516	301	58.33%
662	MISSISSIPPI	346	202	58.38%
251	ALABAMA	590	345	58.47%
201/551	NEW JERSEY	612	358	58.50%
234/330	OHIO	514	303	58.95%
240/301	MARYLAND	1,044	616	59.00%
215/267/445	PENNSYLVANIA	942	556	59.02%
626	CALIFORNIA	406	240	59.11%
901	TENNESSEE	389	230	59.13%
321	FLORIDA	365	216	59.18%
410/443/667	MARYLAND	974	577	59.24%
339/781	MASSACHUSETTS	408	242	59.31%
840/909	CALIFORNIA	441	262	59.41%
601/769	MISSISSIPPI	627	373	59.49%
210/726	TEXAS	411	245	59.61%
317/463	INDIANA	389	232	59.64%
501	ARKANSAS	310	185	59.68%
478	GEORGIA	306	183	59.80%
925	CALIFORNIA	219	131	59.82%
402/531	NEBRASKA	534	320	59.92%
656/813	FLORIDA	442	265	59.95%
432	TEXAS	128	77	60.16%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
334	ALABAMA	457	275	60.18%
401	RHODE ISLAND	242	146	60.33%
203/475	CONNECTICUT	492	297	60.37%
440	OHIO	305	185	60.66%
773/872	ILLINOIS	483	293	60.66%
979	TEXAS	239	145	60.67%
803/839	SOUTH CAROLINA	796	483	60.68%
419/567	OHIO	510	311	60.98%
404/470/678/943	GEORGIA	460	281	61.08%
472/910	NORTH CAROLINA	586	358	61.09%
352	FLORIDA	513	314	61.21%
936	TEXAS	205	126	61.46%
754/954	FLORIDA	610	375	61.48%
617/857	MASSACHUSETTS	414	255	61.59%
765	INDIANA	442	273	61.76%
361	TEXAS	327	202	61.77%
609/640	NEW JERSEY	569	352	61.86%
904	FLORIDA	508	315	62.01%
520	ARIZONA	495	307	62.02%
810	MICHIGAN	245	152	62.04%
337	LOUISIANA	344	214	62.21%
582/814	PENNSYLVANIA	630	392	62.22%
408/669	CALIFORNIA	512	319	62.30%
214/469/945/972	TEXAS	1,436	895	62.32%
571/703	VIRGINIA	510	318	62.35%
504	LOUISIANA	186	116	62.37%
830	TEXAS	388	242	62.37%
706/762	GEORGIA	836	522	62.44%
435	UTAH	259	162	62.55%
220/740	OHIO	542	340	62.73%
281/346/713/832	TEXAS	1,637	1,027	62.73%
502	KENTUCKY	344	216	62.79%
912	GEORGIA	599	377	62.94%
828	NORTH CAROLINA	513	323	62.96%
605	SOUTH DAKOTA	287	181	63.07%
206	WASHINGTON	312	197	63.14%
279/916	CALIFORNIA	405	256	63.21%
970	COLORADO	378	240	63.49%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
530	CALIFORNIA	522	332	63.60%
575	NEW MEXICO	327	208	63.61%
606	KENTUCKY	265	169	63.77%
559	CALIFORNIA	478	305	63.81%
563	IOWA	166	106	63.86%
448/850	FLORIDA	595	380	63.87%
757/948	VIRGINIA	455	291	63.96%
269	MICHIGAN	259	166	64.09%
331/630	ILLINOIS	335	215	64.18%
336/743	NORTH CAROLINA	620	398	64.19%
989	MICHIGAN	294	189	64.29%
205/659	ALABAMA	514	332	64.59%
224/847	ILLINOIS	599	387	64.61%
612	MINNESOTA	229	148	64.63%
719	COLORADO	398	258	64.82%
860/959	CONNECTICUT	529	344	65.03%
386	FLORIDA	332	216	65.06%
831	CALIFORNIA	258	168	65.12%
727	FLORIDA	417	272	65.23%
228	MISSISSIPPI	130	85	65.38%
615/629	TENNESSEE	587	384	65.42%
702/725	NEVADA	507	332	65.48%
779/815	ILLINOIS	458	302	65.94%
534/715	WISCONSIN	376	248	65.96%
865	TENNESSEE	233	154	66.09%
731	TENNESSEE	281	186	66.19%
360/564	WASHINGTON	528	350	66.29%
223/717	PENNSYLVANIA	619	412	66.56%
202/771	DISTRICT OF COLUMBIA	377	251	66.58%
805/820	CALIFORNIA	443	295	66.59%
253	WASHINGTON	216	144	66.67%
458/541	OREGON	400	267	66.75%
208/986	IDAHO	497	332	66.80%
272/570	PENNSYLVANIA	724	484	66.85%
239	FLORIDA	429	287	66.90%
341/510	CALIFORNIA	381	255	66.93%
218	MINNESOTA	267	179	67.04%
503/971	OREGON	448	301	67.19%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
231	MICHIGAN	223	150	67.26%
434	VIRGINIA	331	223	67.37%
920	WISCONSIN	242	164	67.76%
505	NEW MEXICO	405	275	67.90%
915	TEXAS	200	136	68.00%
405/572	OKLAHOMA	341	232	68.04%
217/447	ILLINOIS	470	321	68.30%
303/720/983	COLORADO	575	393	68.35%
940	TEXAS	291	199	68.38%
425	WASHINGTON	326	223	68.40%
464/708	ILLINOIS	489	335	68.51%
320	MINNESOTA	251	172	68.53%
985	LOUISIANA	213	146	68.54%
806	TEXAS	249	171	68.67%
325	TEXAS	161	111	68.94%
415/628	CALIFORNIA	290	201	69.31%
620	KANSAS	361	251	69.53%
808	HAWAII	302	211	69.87%
775	NEVADA	448	314	70.09%
941	FLORIDA	301	213	70.76%
928	ARIZONA	375	267	71.20%
409	TEXAS	287	206	71.78%
385/801	UTAH	736	530	72.01%
650	CALIFORNIA	350	254	72.57%
480	ARIZONA	410	300	73.17%
318	LOUISIANA	453	347	76.60%
602	ARIZONA	174	135	77.59%
763	MINNESOTA	134	105	78.36%
802	VERMONT	219	174	79.45%

For the last five years, the highest percentage of forecasted to actual assigned thousands-blocks was 67.4% in 2021 and the lowest of 39.8% was in 2018.

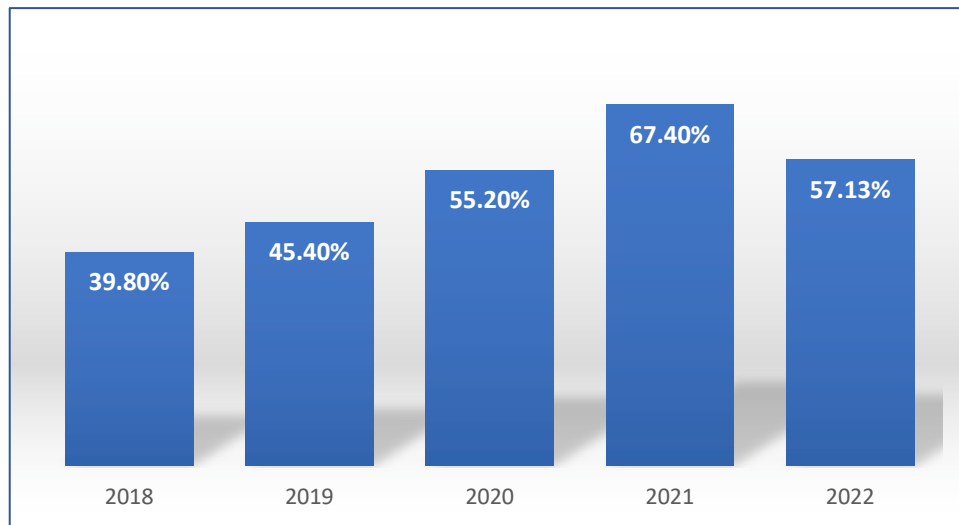
**Figure 4:****Summary of Forecasted and Actual Assigned Thousands-Blocks from 2018 through 2022**

Table 5-3 below illustrates the ratio between forecasts and actual assigned thousands-blocks from 2018 through 2022, ranked from highest percentage to lowest.

Table 5-3**Summary of Forecasts and Actual Assigned Thousands-Blocks from 2018 through 2022**

RANK FROM HIGHEST TO LOWEST	YEAR	TOTAL FORECASTED THOUSANDS-BLOCKS	TOTAL THOUSANDS-BLOCKS ASSIGNED	PERCENTAGE OF ASSIGNED/FORECASTED THOUSANDS-BLOCKS
1	2021	152,341	102,759	67.4%
2	2022	110,142	62,876	57.1%
3	2020	134,203	74,078	55.2%
4	2019	114,472	51,929	45.4%
5	2018	116,958	46,588	39.8%

6 DESCRIPTION AND STATUS OF NON-GEOGRAPHIC RESOURCES ACTIVITY

Non-Geographic Resources include Carrier Identification Codes (“CICs”), 5XX, 900, 555, N11, 456, Automatic Number Identification “II” digits and Vertical Service Codes (VSCs). This section describes each of these resources including details about 2022 activities.

6.1 Carrier Identification Codes

Carrier Identification Codes (“CICs”) are four-digit codes used to route and bill telephone traffic. 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 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 access. A “BC clearinghouse” is only allowed to apply for a CIC when the use of an ABEC (Alternate Billing Entity 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 through NAS for CIC assignments. 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 be provided separately 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 (CNA), 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 CIC Assignment Guidelines for the administration of CICs require all CIC assignees to submit “Entity Semi-Annual” CIC reports. In addition, access providers providing FG B and/or FG D access service are required 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 CIC reclamation efforts. If no access provider reports access/usage for a given CIC, NANPA initiates reclamation procedures. All CIC assignees, including switchless resellers and “B&C Clearinghouses”, are required to submit semi-annual “CIC Access/Usage” reports to NANPA. These reports demonstrate whether access or usage has been established and document that assigned CICs are being used in accordance with the CIC Assignment Guidelines.

6.1.1 CIC Data Integrity

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. NANPA continues to send notifications in an effort to work with the industry to maintain the accuracy of the CIC assignment information.

6.1.2 FG D CIC Activity

During 2022, NANPA assigned nine new FG D CICs and four FG B CICs were returned, as shown in Table 6-1. At the end of 2022, 1,754 FG D CICs were assigned in total, leaving 8,023 FG D CICs available for assignment. The potential exhaust of the FG D CIC resource is not a concern based on the current rate of assignment and the current FCC limit of two FG D CICs per “Entity.”

There are 223 codes from the entire FG D CIC resource that are not available for assignment. These include CICs 9000-9199, which are available to all carriers for intra-network 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.

NANPA identifies FG D CICs as “abandoned” when CICs are assigned to companies no longer in business, companies that have sold assets to other entities, or companies that have been acquired by other entities through mergers/acquisitions. During 2022, NANPA reclaimed no FG D CICs.

Table 6-1
2022 Monthly FG D CIC Assignments, Denials and Returns/Reclaimed

Month	Assigned	Returned/Recl aimed	Denied	Withdrawn
January	0	3	1	1
February	0	1	0	0
March	0	0	0	0
April	1	0	1	0
May	0	0	0	1
June	2	0	2	0
July	2	0	0	0
August	0	0	3	1
September	2	0	1	0
October	1	0	0	0
November	1	0	2	0
December	0	0	2	0
TOTAL	9	4	12	3

6.1.3 FG B CIC Activity

In 2022, one FG B CIC was assigned and no FG B CICs were returned, as shown in Table 6-2. At the end of 2022, there were 181 assigned FG B CICs in total. The potential exhaust of the FG B CIC resource is not a concern based on the current rate of assignment.

NANPA identifies FG B CICs as “abandoned” when CICs are assigned to companies no longer in business, to companies that have sold assets to other entities, or to companies that have been acquired by other entities through mergers/acquisitions. During 2022, NANPA reclaimed no FG B CICs.

Table 6-2
2022 Monthly FG B CIC Assignments, Denials and Returns/Reclaimed

Month	Assigned	Returned /Reclaimed	Denied	Withdrawn
January	0	0	0	0
February	0	0	0	0
March	0	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	1	0	2	0
October	0	0	0	0
November	0	0	0	0
December	0	0	1	0
TOTAL	1	0	3	0

6.2 Resource Report—5XX-NXX Codes

5XX-NXX codes are used for applications which are non-geographic in nature, are not assigned to rate centers and may or may not utilize the Public Switched Telephone Network (PSTN) but do require an E.164 addressing scheme. The use of this NANP numbering resource is to communicate with both fixed and mobile devices, some of which may be unattended. This resource may also be used for applications enabling machines, which would include but not be limited to wireless devices and appliances, with the ability to share information with back-office control and database systems and the people that use them. Service is limited only by terminal and network capabilities and restrictions imposed by the service provider.

NANPA assigns 5XX-NXX codes in accordance with the *Non-Geographic 5XX-NXX Code Assignment Guidelines*. It should be noted that the 5XX resource is not portable.

There were 15 5XX NPAs in-service at the end of 2022: NPAs 500, 521, 533, 544, 566, 577, 588, 522, 523, 524, 525, 526, 527, 528 and 529. In March 2022, NANPA initiated NXX assignments from the 528 NPA and published Planning Letter 585. In September 2022, NANPA initiated NXX assignments from the 529 NPA and published Planning Letter 602.

During 2022, NANPA assigned 1,555 new 5XX-NXX codes compared to 1,582 assigned in 2021

80 5XX-NXX codes were returned

As of December 31, 2022, 610 5XX-NXX codes are available for assignment and 11,353 5XX-NXX codes remain as assigned. The 5XX-555 and 5XX-911 codes may not be assigned as 5XX-NXX codes. In total, there were 30 5XX-NXX codes that are not available for assignment.

There are 18 reserved 5XX NPAs: 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558.

NANPA continues to provide information concerning assignments, updates, and reclamations for inclusion in iconectiv's Local Exchange Routing Guide (LERG™).

6.3 Resource Report—900-NXX Codes

900 numbers are used for premium services, with the cost of each 900 call billed to the calling party. NANPA assigns these numbers according to industry-developed guidelines, *9YY NXX Code Assignment Guidelines*.

There were no 900-NXX codes assigned and five 900-NXX codes returned in 2022. There were 49 900-NXX codes that were unavailable for assignment, this includes eight 900-N11 codes and 41 900-NXX codes reserved for Canadian use.

At the end of 2022, there were 48 900-NXXs that remain as assigned and 613 900-NXX codes available for assignment. 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™.²⁶

6.4 Resource Report—555 Line Numbers

555 numbers were made available starting in 1994 for the purpose of reaching a wide variety of information services. Although nearly 8,000 555 line numbers were assigned, these numbers were not placed into service. In May 2016, the Industry Numbering Committee (INC) determined that the purpose for which this resource was intended had been accommodated by other information/communication technologies.

As a result, INC created the *555 NXX Line Number Reference Document, ATIS- 0300115* and agreed to sunset the *555 NXX Assignment Guidelines, ATIS 0300048*. The FCC approved this decision in September 2016.

All 555 line numbers have been returned to the inventory of NANPA resources except the following that remain in use:

²⁶ iconectiv® and Common Language® are registered trademarks and CLCI™, CLLI™, LERG™ Routing Guide and TPM™ Data Source are trademarks and the Intellectual Property of iconectiv®, LLC

- 555-1212 Directory Assistance National use
- 555-4334 Assigned National use

The fictitious, non-working numbers, 555-0100 through 555-0199, remain reserved for entertainment/advertising use.

6.5 Resource Report—456-NXX Codes

NXX codes from the 456 NPA were made available in 1993 (IL-93/08-002) and used to identify carrier-specific services. This was accomplished by providing carrier identification within the dialed digits of the E.164 number. More specifically, the prefix following 456 (456-NXX) identified the carrier. Use of these numbers enabled the proper routing of inbound international calls destined for these services into and between NANP countries.

In 2017, INC determined there was no longer a need for the 456 NPA and agreed to sunset the *International Inbound NPA (INT/NPA/NXX) Assignment Guidelines*, and age the 456 NPA for five years before the NPA is returned to the general purpose NPA code pool. As of November 2022, the 456 NPA code was made available in the general purpose NPA code pool.

6.6 Resource Report—N11 Codes

N11 codes, listed with their descriptions in Table 6-3, are the only valid N11 three-digit telephone numbers in the NANP.²⁷

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, have not been formally assigned by the FCC in the U.S. at this time.

Table 6-3
N11 Code Assignments

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 Telerriage Services (Canada)
911	Emergency

²⁷In 2020, the FCC authorized the use of the 988 three-digit abbreviated code to access the national Suicide & Crisis Lifeline which went into service in 2022.

6.7 Resource Report—Automatic Number Identification “II” Digits

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 entitled *Automatic Number Identification (ANI) Information Digits Codes*. 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.

No ANI II digit assignments were made in 2022. A list of ANI II digit assignments can be found on the NANPA website at https://www.nationalnanpa.com/number_resource_info/ani_ii_assignments.html

6.8 Resource Report—Vertical Service Codes

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, *Vertical Service Code Assignment Guidelines*.

No VSC assignments were made in 2022. There are 63 assigned VSCs. The following are the list of assigned VSCs²⁸:

VSC CODE	DESCRIPTION
*00	Inward Voice Activated Services (English)
*01	Inward Voice Activated Services (French)
*02	Deactivation/Activation of In-Session Activation (ISA) on a per line basis
*03	Deactivation of In-Session Activation (ISA) on a per call basis
*09	Selective Call Blocking/Reporting
*2X	Reserved for expansion to 3-digit VSCs
*228	Over-the-Air Service Provisioning
*272	Access Wireless Priority Service
*3X	Reserved for expansion to 3-digit VSCs
*40	Change Forward-To Number for Customer Programmable Call Forwarding Busy Line
*41	Six-Way Conference Calling Activation
*42	Change Forward-To Number for Customer Programmable Call Forwarding Don't Answer
*43	Drop last member of Six-Way Conference Call
*44	Voice Activated Dialing

²⁸ VSC codes *94 through *99 are reserved for future assignment.

VSC CODE	DESCRIPTION
*45	Voice Dialing Extended Dial Tone
*46	French Voice Activated Network Control
*47	Override Feature Authorization
*48	Override Do Not Disturb
*49	Long Distance Signal
*50	Voice Activated Network Control
*51	Who Called Me?
*52	Single Line Variety Package (SVP) - Call Hold
*53	Single Line Variety Package (SVP) - Distinctive Ring B
*54	Single Line Variety Package (SVP) - Distinctive Ring C
*55	Single Line Variety Package (SVP) - Distinctive Ring D
*56	Change Forward-To Number for ISDN Call Forwarding
*57	Customer Originated Trace
*58	ISDN MBKS Manual Exclusion Activation
*59	ISDN MBKS Manual Exclusion Deactivation
*60	Selective Call Rejection Activation
*61	Distinctive Ringing/Call Waiting Activation
*62	Selective Call Waiting
*63	Selective Call Forwarding Activation
*64	Selective Call Acceptance Activation
*65	Calling Number Delivery Activation
*66	Automatic Callback Activation
*67	Calling Number Delivery Blocking
*68	Call Forwarding Busy Line/Don't Answer Activation
*69	Automatic Recall Activation
*70	Cancel Call Waiting
*71	Usage Sensitive Three-way Calling
*72	Call Forwarding Activation
*73	Call Forwarding Deactivation
*74	Speed Calling 8 - Change List
*75	Speed Calling 30 - Change List
*76	Advanced Call Waiting Deluxe
*77	Anonymous Call Rejection Activation
*78	Do Not Disturb Activation
*79	Do Not Disturb Deactivation
*80	Selective Call Rejection Deactivation
*81	Distinctive Ringing/Call Waiting Deactivation
*82	Line Blocking Deactivation
*83	Selective Call Forwarding Deactivation

VSC CODE	DESCRIPTION
*84	Selective Call Acceptance Deactivation
*85	Calling Number Delivery Deactivation
*86	Automatic Callback Deactivation
*87	Anonymous Call Rejection Deactivation
*88	Call Forwarding Busy Line/Don't Answer Deactivation
*89	Automatic Recall Deactivation
*90	Customer Programmable Call Forwarding Busy Line Activation
*91	Customer Programmable Call Forwarding Busy Line Deactivation
*92	Customer Programmable Call Forwarding Don't Answer Activation
*93	Customer Programmable Call Forwarding Don't Answer Deactivation

7 DESCRIPTION AND STATUS OF P-ANI ADMINISTRATION

7.1 P-ANI/Routing Number Administrator (RNA) Productivity:

The P-ANI/Routing Number Administrator (RNA) processes p-ANI²⁹ applications, carriers' annual reports and forecasts. The forecasts are used to develop the *P-ANI Activity and Projected Exhaust Report*, which can be found in Attachment 6.

Table 7-1 describes monthly p-ANI application and assignment activities:

Table 7-1
2022 p-ANI Monthly Performance Measurements

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Quantity of applications processed	61	298	402	112	208	275	46	479	6,553	507	87	279	9,307
Quantity of approved applications processed	61	296	402	110	208	275	45	477	6,552	460	86	278	9,250
Quantity of suspended applications processed	0	0	0	0	0	0	0	0	0	0	0	0	0
Quantity of withdrawn applications processed	0	1	0	2	0	0	0	2	1	0	0	0	6
Quantity of denied applications processed	0	1	0	0	0	0	1	0	0	47	1	1	51
Quantity of applications not processed within 5 business days	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of applications not processed within 5 business days	0	0	0	0	0	0	0	0	0	0	0	0	0
Quantity of p-ANIs requested	833	6,904	8,377	847	2,901	2,095	600	3,671	1,422	5,632	899	4,044	38,225
Quantity of p-ANIs assigned	833	6,879	8,357	822	2,873	2,095	600	3,671	1,422	5,607	898	4,044	38,101
Quantity of change requests	0	2	3	0	7	11	2	2	19	2	0	2	50
Quantity of p-ANIs returned	9	10	68	36	25	10	9	73	6,326	24	12	63	6,665
Quantity of requests to cancel	0	0	0	0	0	0	0	1	0	0	0	0	1

²⁹ Non-dialable p-ANIs (Pseudo-Automatic Number Identification) are used to support the routing of wireless and VoIP 9-1-1 calls, out of the 211 NXX and 511 NXX on a national basis including Puerto Rico.

Table 7-2 addresses the count of p-ANIs requested, assigned, returned, or modified on a monthly basis in 2022. This is not to be confused with the number of applications processed.

Table 7-2
2022 Total Number of p-ANIs by Activity Type

	REQUESTED	ASSIGNED	RETURNED	MODIFIED
Jan	833	833	59	0
Feb	6,904	6,879	152	20
Mar	8,377	8,357	755	75
Apr	847	822	285	0
May	2,901	2,873	230	41
Jun	2,095	2,095	78	107
Jul	600	600	39	20
Aug	3,671	3,671	372	12
Sep	1,422	1,422	117,308	195
Oct	5,632	5,607	153	15
Nov	899	898	151	0
Dec	4,044	4,044	439	12
TOTAL	38,225	38,101	120,021	497

Table 7-3 depicts the number of applications processed by p-ANI request type.

Table 7-3
2022 Applications Processed by p-ANI Request Type

	Approved	Denied	Suspended	Withdrawn	Total
Cancel p-ANI Return Request	1	0	0	0	1
P-ANI Modification Request	50	0	0	0	50
New p-ANI Request	2,496	51	0	6	2,553
P-ANI Return Request	6,665	0	0	0	6,665
Total	9,212	51	0	6	9,269

The following table is a summary of p-ANI inventory as of December 31, 2022:

Table 7-4
2022 p-ANI Inventory

STATUS	TOTAL p-ANIs	211	511
Assigned	907,043	398,924	508,119
Aging	439	128	311
Available	5,933,876	3,013,382	2,920,494
Unavailable	18,642	17,566	1,076
TOTALS	6,860,000	3,430,000	3,430,000

7.2 Other p-ANI Administrator Activities

In addition to processing requests for p-ANI ranges, the RNA performed other functions outlined in Sections 7.2.1 through 7.2.3 during 2022.

7.2.1 Annual Report

P-ANI Assignees are required to report to the RNA on all of their assigned p-ANI ranges via the *P-ANI Annual Report* on an annual basis. For 2022, there were 62 unique NENA ID and OCN combinations that filed an Annual Report. During this process, the RNA was able to identify p-ANI ranges that were never reported during the initial reports filing and show those p-ANI ranges as assigned. The RNA also worked with the carriers to identify p-ANI ranges that were not in use and could be returned to the available inventory as a result of this filing.

7.2.2 Duplicate Assignment Issues

In 2022, the RNA was notified of 50 p-ANI ranges that had been assigned by the RNA but appeared to already be in use by another carrier. The RNA worked with the affected carriers to determine if the ranges were in use or not. If the range was not being used, it was removed from the applicable routing databases by the old carrier so that the new carrier could use the range. If the range was in use, the RNA replaced the assignment with a new range, and updated the RNAS to reflect the original range as assigned. The RNA also advised the carrier that reported it as being available to update its records so that the range would be properly reflected in its next annual report. The original assignment would have occurred prior to the RNA.

7.2.3 Customer Support

For all new p-ANI requests, a carrier must demonstrate that its company is permitted under applicable law to access p-ANI resources in the area for which the p-ANI resources are sought. If the carrier fails to provide the correct documentation with its request for p-ANIs, the RNA sends a courtesy email detailing the insufficiencies. The RNA also assists carriers who are having difficulties locating the correct documentation to help alleviate any delays in obtaining these critical resources. In 2022, the RNA sent courtesy emails for 107 requests. In addition, the RNA provided documents for 20 requests.

During 2022, the RNA also worked with carriers to resolve data discrepancies and continued working on reconciling duplicate assignment issues.

7.2.4 P-ANI Activity and Projected Exhaust Report

The INC developed the P-ANI Administration Guidelines, which contain the following language:

“The RNA shall:

- a) prepare and publish a “P-ANI Activity and Projected Exhaust Report” that includes the following information:

1. national p-ANI utilization information.
2. p-ANI utilization by NPA.
3. the number of p-ANIs requested on a monthly basis.
4. the number of p-ANIs assigned on a monthly basis.
5. the number of p-ANIs returned on a monthly basis.
6. the number of p-ANIs modified on a monthly basis.
7. the number of p-ANI requests processed and the disposition of each.
8. forecast reports for projected future p-ANI resource usage.”

The *P-ANI Activity and Projected Exhaust Report* (“Report”) can be found on the website www.nationalpani.com under REPORTS and in Attachment 6 herein.

Attachment 6 contains the required information for the January 1 through December 31, 2022, Report, and contains the following tables:

- Table A6-1 is sorted by NPA
- Table A6-2 is sorted by State
- Table A6-3 is sorted by the Exhaust Year

Table 7-4 below contains the first five NPAs that are projected to exhaust 211/511/p-ANIs as of December 31, 2022.

Table 7-4
First Five NPAs Projected to Exhaust 211/511/p-ANI

NPA	STATE	TOTAL p-ANIs	FORECASTED p-ANIs	EXHAUST YEAR	EXHAUST QUARTER
678	GEORGIA	6,358	1,020	2029	2
402	NEBRASKA	8,856	785	2030	1
308	NEBRASKA	3,360	985	2033	4
203	CONNECTICUT	6,438	500	2043	1
765	INDIANA	7,902	456	2043	3

8 NUMBERING RESOURCE UTILIZATION/FORECAST

NANPA is responsible for the collection and reporting of utilization and forecast data, known as Numbering Resource Utilization/Forecast (NRUF) Reporting. NANPA handles NRUF processing twice a year in two parts: the NRUF Thousands-Block Forecast Report and service provider NRUF Form 502. NANPA develops the Thousands-Block/Semi-Annual Forecast NRUF utilizing thousands-block forecasts submitted by service providers. Service providers submit utilization and forecast data to NANPA for both geographic and non-geographic numbering resources. These NRUF Form 502 submissions in turn are utilized by NANPA in the development of NPA and NANP exhaust projections. NANPA collects and stores this information and provides it to the FCC and state regulators.

Service providers are required to report both CO code and thousands-block information by February 1 and August 1 of each year and may submit updates and corrections to their submissions at any time during the current reporting cycle.

8.1 NRUF/Thousands-Block Forecast Report

On a semi-annual basis and as needed, service providers are required to submit a Thousands-Block Forecast Report to NANPA for each of their unique Operating Company Numbers (OCNs) by NPA and pooled rate center, on or before February 1 for the period ending on December 31, and on or before August 1 for the period ending on June 30 of each year. This semi-annual report includes a 12-month forecast of demand for thousands-blocks by month, including a need for a CO code for an LRN and dedicated customer purposes. The data provided by the individual service providers in these forecasts is treated as confidential by NANPA. NANPA then uses this data to fulfill two TRD reporting requirements to the FCC:

- the Semi-Annual Pooling Forecast referenced in Section 13.3.5, and
- the Rate Area Inventory Pool Status Report referenced in Sections 11.5.2 and 13.3.5

During 2022, NANPA aggregated the data provided by the service providers at the rate center level for all NPAs in pooling. NANPA used this data to provide a rate center level pooling NRUF to determine if a critical industry inventory insufficiency exists within any pooled rate center. Utilizing this aggregated data, NANPA also submitted the above-referenced reports to the FCC according to the required deadlines, on February 14 and August 24.

Table 8-1 contains the thousands-block NRUF/forecast results for both semi-annual reporting periods in 2022.

Table 8-1
Thousands-Block NRUF/Forecast Results

Date	NPAs	Jurisdictions	Thousands-blocks Forecasted	Thousands-blocks Available	Codes Forecasted
February	341	52	44,746	105,091	4,113
August	347	52	26,136	113,132	2,110

8.2 Service Provider NRUF

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 regulators 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™), or File Transfer Protocol Format (FTP). In 2022, NANPA processed 12,372 NRUF submissions (See Table 8-2) and provided a confirmation of receipt, to include any identified errors, within seven calendar days. In addition to processing submissions, NRUF administration also responded to telephone calls and email inquiries.

Along with collecting this information, NANPA makes available to states on-line access to service-provider specific disaggregated utilization and forecast data. In addition, state reports containing NRUF information are offered to those states that desire a snapshot of utilization and forecast data for the area codes within their respective states. NANPA provided 34 reports to the state regulators, covering both NRUF submission cycles in 2022.

NANPA sent industry notifications to assist service providers with accurately filing their NRUF, approaching NRUF filing due dates, and notification of FCC orders affecting how service providers report aging numbers for the NRUF (Form 502) due to circumstances presented by disaster-related events. NANPA updated NRUF information on the NANPA website to ensure that NRUF Geographic and Non-Geographic Job aids and other documentation were up-to-date. NANPA also worked closely with federal and state regulatory contacts on questions relating to service provider NRUF submissions.

8.2.1 Volume of NRUF Submissions and Associated Items

Following is a table that illustrates the volume of NRUF submissions as well as other items tracked by NANPA that are associated with the NRUF process.

Table 8-2
Summary of the Volume of NRUF Submissions and Associated Items for 2022

MEASUREMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Form 502 Email Submissions	2,368	375	180	51	72	51	2,338	366	130	70	38	72	6,111
Form 502 FTP Submissions	907	13	8	0	0	1	506	855	3	3	2	1	2,299
Form 502 Web Submissions	1,087	312	148	108	108	134	946	353	195	159	312	100	3,962
Total Form 502 Submissions	4,362	700	336	159	180	186	3,790	1,574	328	232	352	173	12,372

MEASUREMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Error Notifications Sent	497	63	53	6	14	7	477	452	27	9	11	13	1,629
Missing Utilization Notifications Sent	0	323	1	0	0	0	0	308	7	0	0	0	639
Anomalous Notifications Sent	0	0	250	22	0	0	0	0	248	35	0	0	555
Confirmation Notifications Sent	2,775	321	137	45	58	44	2,363	768	106	64	27	60	6,768
State Reports Created	0	0	15	2	0	0	0	0	15	2	0	0	34

8.3 NRUF Performance Measurements

NANPA met 100% of its NRUF performance measurements in 2022 as shown in Table 8-3 below.

Table 8-3
Summary of 2022 NRUF Performance Measurements

MEASUREMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Percentage of Form 502 Processed w/in 7 days	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Number of Form 502 Processed after 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of Missing Utilization Sent w/in 45 days	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
Number of Missing Utilization Not Sent w/in 45 days	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of Anomalous Notifications Sent w/in 90 days	N/A	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%	N/A	N/A	100%
Number of Anomalous Notifications Not Sent w/in 90 days	0	0	0	0	0	0	0	0	0	0	0	0	0

9 DESCRIPTION AND STATUS OF NPA RELIEF PLANNING

9.1 NPA Relief Planning Overview

NPA relief planning precedes the introduction of new geographic area codes and NANPA plays a significant role in the process. NANPA once again managed a remarkable number of area code relief projects in 2022.

NANPA follows the relief planning process described in detail in the *NPA Code Relief Planning and Notification Guidelines (Guidelines)*. NANPA's relief planners customarily prepare and distribute relief planning notices and documents to the Industry within 36 months prior to the anticipated exhaust of an NPA in the United States or its territories.

During 2022, NANPA continued to streamline the relief planning process whenever possible with a streamlined filing for areas with only one option, typically an overlay, for consideration by the affected service providers. In addition, NANPA facilitated a project for the Missouri 573 NPA that eliminated the need for draft filings or Industry meetings by supporting Missouri Public Service Commission (MO PSC) staff with proceeding directly from a NANPA letter notification to the MO PSC of the need for NPA relief in the 573 NPA to a regulatory directive for implementation of relief.

9.2 NPA Relief Planning Process

Generally, NANPA facilitates an Industry meeting to consider relief options. Each NPA relief project has its own particularities, so NANPA must prepare materials for the meeting according to the needs and specific circumstances in that state and NPA. NANPA meets with appropriate state regulatory staff prior to initiating relief, to review the relief planning process. In addition, NANPA determines the type of filing that will be required for the project, a formal petition or a less formal notification letter.

In some cases, implementation for a previously approved NPA relief plan was deferred due to number conservation measures and delayed exhaust. In these cases, a trigger is set for starting relief and NANPA works with the state regulatory staff to determine how best to proceed, whether formally with a new petition or informally with a notification letter. In 2022, the relief projects for the Arkansas 870 NPA, Illinois 618 NPA, Maryland 240/301 NPA, Michigan 313 NPA, and Washington 206 NPA involved decades-old orders requiring research and additional planning by NANPA relief planners as well as close coordination with state commission staffs, some who had never worked on NPA relief before.

There are primarily two types of NPA relief projects: when there is more than one relief alternative and when an overlay is the only option.

When NANPA determines there is more than one relief alternative, NANPA prepares an Initial Planning Document (IPD). NANPA then leads the Industry in discussion resulting in a consensus decision to recommend one of the proposed relief alternatives and drafts a filing for review at a subsequent meeting. Once the Industry reviews and approves the filing, NANPA files it with the state regulator.

If NANPA determines an all-services distributed overlay is the only viable option for relief and a streamlined filing is appropriate, NANPA provides a draft filing to the Industry with the meeting notice, eliminating the need for the IPD meeting. During the meeting, the Industry reviews the draft filing and develops a dialing plan, an implementation timeline, as well as customer education and technical milestones that are all submitted to the state regulatory commission for approval. The filing also generally requests that the state regulator forego in-person meetings and hearings in favor of written comments and reply comments. Once the filing is reviewed and approved by the Industry, NANPA files it with the state regulator.

NANPA has created various tools to be used during the Industry meetings to assist the Industry in reaching consensus on implementation. These tools include:

- A “Pros & Cons” table for NPA relief planning meetings, allowing the participants to view this table via the on-line meeting capability and select those pros and cons applicable to the relief alternative being discussed
- A “Customer Education and Technical Milestones” table allowing participants to choose the milestones which will be followed during the implementation of the approved relief plan
- Dialing plans and implementation schedules that permit the Industry on what information to include in the relief filing
- Excerpts from the *Guidelines* to assist the Industry in understanding the INC criteria for relief alternatives and in making their decisions during NPA relief meetings
- An on-line meeting link in the PDF document posted in NAS-NNS, in addition to including this information in the email notice

At the beginning of each meeting, 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 pre-meeting announcements that they are responsible for downloading and reviewing the documents to be discussed during the meeting. NANPA does not distribute documents while the meeting is in progress.

Once a filing is made, the state commission reviews the proposed plan and often invites public comment and/or conducts public meetings. In an attempt to solicit greater feedback from the public, states are increasingly using web options such as virtual public meetings and webinars to gather public comments in lieu of in-person public meetings. During 2022, all state public meetings were virtual. The relief planners cooperatively participate in and attend these meetings, often called upon to discuss various aspects of the proposed relief plan. Details on public meetings and hearings that NANPA attended in 2022 can be found in Section 14.

After the state commission has approved an NPA relief plan, which is usually the one recommended by the Industry, NANPA assigns the new NPA, if applicable, then facilitates the initial implementation meeting with the Industry. NANPA created an implementation meeting agenda template to ensure the Industry addresses all relevant activities associated with the introduction of the approved relief plan. Using decisions made at the initial implementation meeting, the relief planner then prepares and publishes a Planning Letter (PL) on the NANPA website. The PL announces the method of relief

selected, the identity of the new NPA, the schedule for relief, the dialing plan, the test number(s) for the new area code, along with a rate center map and contact information for each service provider that is a CO code and/or thousands-block holder.

In 2022, all meetings were conducted via an on-line meeting platform, allowing participants to view relevant documentation and where appropriate, make real-time updates.

Once implementation of the approved relief plan begins, NANPA attends Industry NPA committee meetings to stay informed on the progress of the implementation, as well as to provide a status of remaining numbering resources in the NPA, any changes in projected exhaust, pertinent information that may impact the implementation of the relief plan and gather and share knowledge gained via these activities from other similar relief efforts.

Current status reports on NPA relief projects can be found on the NANPA website. 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 expected to occur sometime in the future. NANPA provides a report that lists these events and associated activities on its website.

9.3 2022 NPA Relief Activities:

9.3.1 Active NPA Relief Projects

NANPA directs the NPA relief process from the initial notification that relief is needed through the initial implementation meeting. There are many different phases to the relief planning process:

- Relief Planning Initiated Phase: NANPA has notified the state commission and Industry that relief is needed
- Pending Regulatory Decision Phase: the recommended relief plan has been determined and a filing was submitted for action by the state
- Implementation Phase: there has been a regulatory decision on a relief alternative and the implementation milestones are determined and deployed

As of December 31, 2022, there were 28 active NPA relief projects.

Table 9-1 shows the 14 relief projects where NANPA initiated the NPA relief process in 2022.

**Table 9-1
Initiated Relief (Sorted by NPA Exhaust Date)**

STATE	NPA	EXHAUST DATE	FILING TYPE	FIRST INDUSTRY MEETING DATE	STATUS AS OF DECEMBER 31, 2022
MARYLAND	240/301	2Q2023	Letter	6/1/2022	Implementation
WISCONSIN	608	1Q2024	Petition	5/23/2022	Implementation
NEW YORK	716	2Q2024	Petition	5/11/2022	Implementation
SOUTH CAROLINA	864	1Q2025	Petition	3/17/22	Implementation
MISSOURI	573	3Q2024	Notification	N/A	Implementation

STATE	NPA	EXHAUST DATE	FILING TYPE	FIRST INDUSTRY MEETING DATE	STATUS AS OF DECEMBER 31, 2022
VIRGINIA	804	3Q2024	Application	4/11/2022	Implementation
OHIO	440	3Q2024	Petition	5/18/2022	Implementation
MINNESOTA	507	1Q2025	Petition	7/19/2022	Pending
CALIFORNIA	213/323	2Q2025	Application	7/20/2022	Pending
CALIFORNIA	530	3Q2025	Application	8/24/2022	Pending
MICHIGAN	313	3Q2025	Petition	10/19/2022	Pending
TENNESSEE	423	3Q2025	Petition	10/11/2022	Pending
CALIFORNIA	559	3Q2025	Application	12/21/2022	Pending Application Filing
WASHINGTON	206	4Q2025	Letter	1/10/2023	Industry Meeting Notice

Table 9-2 shows the five relief projects pending a regulatory decision as of December 31, 2022, where the petition or other regulatory filing has been made but no regulatory approval has been issued.

Table 9-2
Filings Pending Regulatory Action as of December 31, 2022

STATE	NPA	FILING TYPE	DATE FILED
MINNESOTA	507	Petition	8/23/2022
CALIFORNIA	213/323	Application	8/25/2022
CALIFORNIA	530	Application	9/30/2022
MICHIGAN	313	Petition	11/16/2022
TENNESSEE	423	Petition	11/18/2022

Table 9-3 depicts the 31 relief projects in different phases of implementation during 2022. Implementation was completed during 2022 in 10 of these projects. Of the remaining 21 projects, 14 will be completed in 2023, six in 2024, and one is yet to be determined:

Table 9-3
Relief Projects in the Implementation Stage in 2022
(Sorted by In-Service Date)

STATE	NPA	REGULATORY APPROVAL DATE	NEW NPA	RELIEF TYPE	IN-SERVICE DATE	PLANNING LETTER #
ILLINOIS	708	7/4/2021	464	Overlay	1/21/2022	195, 562
FLORIDA	813	3/30/2020	656	Overlay	2/22/2022	541, 552
GEORGIA	404/470/678/770	10/6/2020	943	Overlay	3/15/2022	IL95/06-008, 102, 269, 555, 559
VIRGINIA	757	2/5/2020	948	Overlay	5/9/2022	536, 546
VIRGINIA	540	6/17/2020	826	Overlay	6/14/2022	545
COLORADO	303/720	5/21/2021	983	Overlay	6/17/2022	563
MISSOURI	314	8/11/2021	557	Overlay	8/12/2022	261, 279, 303, 567

STATE	NPA	REGULATORY APPROVAL DATE	NEW NPA	RELIEF TYPE	IN-SERVICE DATE	PLANNING LETTER #
PENNSYLVANIA	484/610	12/2/2021	835	Overlay	9/2/2022	578
NORTH CAROLINA	910	6/25/2021	472	Overlay	10/7/2022	565, 569
CALIFORNIA	209	5/19/2022	350	Overlay	11/28/2022	594
NEW YORK	516	1/20/2022	363	Overlay	1/20/2023	581
CALIFORNIA	707	6/23/2022	369	Overlay	2/1/2023	599
ILLINOIS	309	11/11/2021	861	Overlay	2/24/2023	577
FLORIDA	561	1/4/2022	728	Overlay	3/10/2023	582
NEW YORK	845	4/14/2022	329	Overlay	3/24/2023	591
OHIO	513	12/15/2021	283	Overlay	4/28/2023	264, 286, 316, 579
WISCONSIN	920	1/18/2022	274	Overlay	5/5/2023	385, 417, 442, 586, 593
MARYLAND	240/301	8/3/2022	227	Overlay	6/14/2023	603
ILLINOIS	618	6/17/2022	730	Overlay	7/7/2023	595
FLORIDA	305/786	2/2/2022	645	Overlay	8/4/2023	588
ARIZONA	480/602/623	11/9/2021	N/A	Boundary Elimination Overlay	8/12/2023	576
WISCONSIN	608	9/16/2022	353	Overlay	9/15/2023	605
MISSOURI	816	8/11/2021	975	Overlay	10/13/2023	262, 280, 304, 568, 597
NEW YORK	716	10/13/2022	624	Overlay	11/16/2023	607
VIRGINIA	804	11/16/2022	686	Overlay	2/1/2024	608
ARKANSAS	870	1/27/2022	327	Overlay	2/20/2024	400, 437, 587, 604
FLORIDA	904	6/3/2022	324	Overlay	2/26/2024	598
MISSOURI	573	5/1/2022	235	Overlay	3/24/2024	596
SOUTH CAROLINA	864	9/27/2022	821	Overlay	8/19/2024	606
OHIO	440	12/14/2022	436	Overlay	3/1/2024	610
ARKANSAS	327/479/501/870	1/27/2022	N/A	Boundary Elimination Overlay	TBD	TBD

9.3.2 NPA Relief Regulatory Submissions

Table 9-4 shows NANPA made 35 regulatory submissions in 2022 compared to 22 in 2021.

**Table 9-4
Regulatory Submissions in 2022**

DATE	STATE	NPA/S	DESCRIPTION
1/6/2022	ARIZONA	480/602/623	Boundary Elimination Overlay Implementation Schedule
1/6/2022	NEW YORK	845	Change in Projected Exhaust
1/13/2022	CALIFORNIA	707	Supplement to the Application for relief regarding change in projected exhaust
1/21/2022	PENNSYLVANIA	484/610/835	Notice to Commission of the implementation schedule (PL-578)
2/11/2022	OHIO	283/513	Notice to Commission of the implementation schedule (PL-579)
2/17/2022	FLORIDA	904	Petition for Relief
2/18/2022	NEW YORK	363/516	Notice to Commission of the implementation schedule (PL-581)
2/25/2022	MISSOURI	573	Notified Commission of the need for relief
3/22/2022	WISCONSIN	274/920	Notice to Commission of the implementation schedule (PL-586)
4/12/2022	ARKANSAS	327/870	Notice to the Commission with the overlay implementation schedule (PL-587)
4/12/2022	SOUTH CAROLINA	864	Petition for Relief
4/12/2022	WISCONSIN	608	Notified Commission of the need for relief
4/26/2022	COLORADO	303/720/983	Letter requesting the Commission to issue a press release
5/6/2022	SOUTH CAROLINA	864	Waiver of Publication Requirement
5/13/2022	NEW YORK	329/845	Overlay Implementation Schedule
5/18/2022	VIRGINIA	804	Application for Relief
5/19/2022	SOUTH CAROLINA	864	Affidavit of publication of notice in newspaper
6/8/2022	WISCONSIN	274/920	Revised Overlay Implementation Schedule
6/16/2022	VIRGINIA	804	Revised Application for Relief
6/16/2022	NEW YORK	716	Petition for Relief
6/17/2022	WISCONSIN	608	Petition for Relief
6/17/2022	ILLINOIS	618/730	Overlay Implementation Schedule
6/23/2022	OHIO	440	Petition for Relief
6/23/2022	MARYLAND	240/301	Notified Commission of the need for relief
7/27/2022	SOUTH CAROLINA	864	Notice sent to Commission of the need to issue a press release announcing new NPA
8/23/2022	MINNESOTA	507	Petition for Relief
8/25/2022	CALIFORNIA	213/323	Application for Relief
9/30/2022	CALIFORNIA	530	Application for Relief
10/10/2022	SOUTH CAROLINA	864	NANPA Press Release Announcing New NPA
10/31/2022	MINNESOTA	507	Response to formal questions by Department of Commerce
11/16/2022	MICHIGAN	313	Petition for Relief
11/18/2022	TENNESSEE	423	Petition for Relief
11/30/2022	MINNESOTA	507	Response to formal questions by Department of Commerce

DATE	STATE	NPA/S	DESCRIPTION
12/14/2022	NEW YORK	624/716	Overlay Implementation Schedule (PL-607)
12/22/2022	CALIFORNIA	213/323	Response to ALJ Ruling

9.3.3 Planning Letters

As shown in Table 9-5, NANPA published 21 PLs related to active NPA relief projects in 2022, compared to eight in 2021, a 163% increase. Three of the PLs issued, 593, 597, and 604, revised the implementation date set at the initial implementation meeting due to a change in the NPA exhaust projection.

Table 9-5
Planning Letters Published in 2022

PLANNING LETTER #	DATE	STATE	DESCRIPTION
577	1/10/2022	ILLINOIS	NPA 861 to Overlay NPA 309
578	1/13/2022	PENNSYLVANIA	NPA 835 to Overlay NPA 484/610
579	2/11/2022	OHIO	NPA 283 to Overlay NPA 513
581	2/17/2022	NEW YORK	NPA 363 to Overlay NPA 516
582	2/18/2022	FLORIDA	NPA 728 to Overlay NPA 561
586	3/16/2022	WISCONSIN	NPA 274 to Overlay NPA 920
587	3/30/2022	ARKANSAS	NPA 327 to Overlay NPA 870
588	4/14/2022	FLORIDA	NPA 645 to Overlay NPA 305/786
591	5/11/2022	NEW YORK	NPA 329 to Overlay NPA 845
593	6/2/2022	WISCONSIN	NPA 274 to Overlay NPA 920 - supersedes PL-586
594	6/6/2022	CALIFORNIA	NPA 350 to Overlay NPA 209
595	6/15/2022	ILLINOIS	NPA 730 to Overlay NPA 618
596	6/17/2022	MISSOURI	NPA 235 to Overlay NPA 573
597	6/21/2022	MISSOURI	NPA 975 to Overlay NPA 816 - supersedes PL-568
598	7/14/2022	FLORIDA	NPA 324 to Overlay NPA 904
599	8/1/2022	CALIFORNIA	NPA 369 to Overlay NPA 707
603	9/27/2022	MARYLAND	NPA 227 to Overlay NPA 240/301
604	10/31/2022	ARKANSAS	NPA 327 to Overlay NPA 870 - supersedes PL-587
605	11/9/2022	WISCONSIN	NPA 353 to Overlay NPA 608
606	11/28/2022	SOUTH CAROLINA	NPA 821 to Overlay NPA 864
607	12/6/2022	NEW YORK	NPA 624 to Overlay NPA 716

In addition to the PLs listed above, NANPA also published PLs relating to six Canada NPAs and four non-geographics NPAs. Details for these PLs can be found in Section 3.

9.3.4 Other NPA Relief Planning Tasks

NPA Relief Planners also complete many relief planning tasks during the year as part of the relief planning process such as facilitating meetings, attending Industry meetings, attending Commission public meetings, and assisting with drafting slides and recording NPA relief informational webcasts.

Details about regulatory NPA relief public meetings and hearings NANPA attended can be found in Section 14.3. Following are some other details about 2022 tasks accomplished by NANPA:

- Facilitated a total of 46 Industry meetings, via a web meeting, compared to 38 Industry meetings facilitated in 2021
- Attended 115 Industry NPA committee meetings, providing status updates as needed, compared to 77 in 2021
- Provided slides and script for, attended and participated in a virtual public meeting on March 23 relating to the Florida 904 NPA relief project
- Made a presentation on NANPA responsibilities to Florida Public Service Commission Commissioners, staff, and the public on March 29
- Drafted and sent slides relating to the NPA relief process for the 507 NPA for the Minnesota Public Utilities Commission on May 24
- Provided final webcast script and slides to the California Public Utilities Commission for the 213/323 NPA relief process on September 15 and recorded the webcast with Commission staff on September 19
- Provided slides and script and recorded webcast for the California 530 NPA relief project with the California Public Utilities Commission staff on October 11

As shown in Table 9-6, NANPA issued 254 NANP Notification System (NNS) notifications relating to NPA relief in 2022, compared to 240 in 2021, which included meeting notices, reminder notices of relief planning meetings, notifications of regulatory filings, and draft meeting minutes. Included in the “NPA Relief Planning” total is 19 NNS notifications relating to the transition to 10-digit local dialing for use of the 988 abbreviated code for the 988 Suicide and Crisis Lifeline.

Table 9-6
2022 NNS Notifications

NOTIFICATION CATEGORY	NUMBER OF NOTIFICATIONS
NPA Relief Planning	254
Other Non-Geographic	27
NRUF	8
Planning Letters	31
Code Administration	0
INC Guidelines	5
Jeopardy	29
Other Geographic	0
TOTAL	354

Throughout the year, NANPA assisted numerous states concerning NPA relief planning, which included providing presentations for area code relief customer workshops and providing special reports per request from the state regulatory authorities.

9.4 NRUF Exhaust Forecasts

9.4.1 Semi-Annual NPA and NANP Exhaust Projections:

One of the primary uses for NRUF data is to support forecasting for the projected exhaust for each geographic NPA as well as the exhaust date for the 5XX NPA and the entire NANP.

The methodology used to produce the 2022 NPA exhaust projections was the same as the methodology NANPA used in the past several years to project area code exhaust. This methodology has been reviewed with the FCC. In reporting the NPA exhaust projections, NANPA provides five 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. The new exhaust projections were available on April 21 and October 21. The detailed projections can be found in Attachments 7, 8, and 9.

9.4.2 Delta NRUF Exhaust Projections

Throughout the year NANPA monitors CO code assignment rates in all NPAs and adjusts the projected NPA exhaust date when necessary. This is known as a “Delta NRUF.” As shown in Table 9-7, NANPA issued revised “Delta NRUF” exhaust dates seven times in 2022: in January, March, June, July, August, September and December.

Table 9-7
Delta NRUFs Released in 2022

STATE	NPA/S	DATE NOTICE RELEASED	NRUF CYCLE	OLD EXHAUST DATE	NEW EXHAUST DATE	CHANGE IN QUARTERS
CALIFORNIA	707	1/4/2022	OCTOBER 2021	4Q2023	1Q2023	-3
FLORIDA	352	1/4/2022	OCTOBER 2021	3Q2026	1Q2026	-2
FLORIDA	386	1/4/2022	OCTOBER 2021	2Q2041	4Q2039	-6
FLORIDA	904	1/4/2022	OCTOBER 2021	4Q2024	3Q2024	-1
MARYLAND	240/301	1/4/2022	OCTOBER 2021	2Q2024	4Q2023	-2
NEW YORK	716	1/4/2022	OCTOBER 2021	2Q2025	1Q2025	-1
NEW YORK	845	1/4/2022	OCTOBER 2021	3Q2024	3Q2023	-4
SOUTH CAROLINA	864	1/4/2022	OCTOBER 2021	3Q2025	1Q2025	-2
VIRGINIA	804	1/4/2022	OCTOBER 2021	3Q2025	1Q2025	-2
WISCONSIN	920	1/4/2022	OCTOBER 2021	3Q2025	3Q2024	-4
FLORIDA	305/786	3/29/2022	OCTOBER 2021	1Q2024	4Q2023	-1
MAINE	207	3/29/2022	OCTOBER 2021	1Q2025	2Q2025	+1
MINNESOTA	507	3/29/2022	OCTOBER 2021	2Q2025	1Q2025	-1
MISSOURI	816	3/29/2022	OCTOBER 2021	3Q2023	2Q2024	+3
NEW YORK	716	3/29/2022	OCTOBER 2021	1Q2025	2Q2024	-3
OHIO	440	3/29/2022	OCTOBER 2021	2Q2025	3Q2024	-3
SOUTH DAKOTA	605	3/29/2022	OCTOBER 2021	3Q2025	1Q2025	-2
VIRGINIA	804	3/29/2022	OCTOBER 2021	1Q2025	3Q2024	-2

STATE	NPA/S	DATE NOTICE RELEASED	NRUF CYCLE	OLD EXHAUST DATE	NEW EXHAUST DATE	CHANGE IN QUARTERS
WISCONSIN	608	3/29/2022	OCTOBER 2021	2Q2025	1Q2024	-5
MAINE	207	6/13/2022	APRIL 2022	2Q2025	4Q2025	+2
CALIFORNIA	530	6/13/2022	APRIL 2022	2Q2026	3Q2025	-3
FLORIDA	561	7/14/2022	APRIL 2022	3Q2023	4Q2023	+1
NEW YORK	516	7/14/2022	APRIL 2022	2Q2023	3Q2023	+1
NEW YORK	845	7/14/2022	APRIL 2022	4Q2023	1Q2024	+1
MARYLAND	240/301	8/23/2022	APRIL 2022	4Q2023	2Q2023	-2
ALABAMA	334	9/23/2022	APRIL 2022	3Q2025	2Q2026	+3
ARKANSAS	870	9/23/2022	APRIL 2022	1Q2025	2Q2024	-3
SOUTH DAKOTA	605	9/23/2022	APRIL 2022	3Q2025	4Q2025	+1
WASHINGTON	206	9/23/2022	APRIL 2022	3Q2025	4Q2025	+1
INDIANA	765	12/14/2022	OCTOBER 2022	1Q2026	4Q2026	+3
SOUTH DAKOTA	605	12/14/2022	OCTOBER 2022	4Q2025	2Q2026	+2

9.5 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.

In 2022, the number of tracked instances of performance measurements increased 32% from 2021. As shown in Table 9-8, NANPA completed 100% of the 152 tracked events of the performance measurements on schedule compared to 115 in 2021.

Table 9-8
2022 Relief Planning Performance Measurements

PERFORMANCE MEASUREMENT	EVENTS	TOTAL COMPLETED ON TIME	% ON-TIME COMPLETION
Initiated NPA relief planning within 36 months of NPA exhaust.	12	12	100%
Distributed 3-week initial industry meeting notification	6	6	100%
Distributed IPD within 4 weeks of relief meeting date.	6	6	100%
Distributed meeting minutes within 2 weeks or date set at the meeting.	41	41	100%
Held minutes review by date set at the meeting.	5	5	100%
Filed relief-related petitions by date set at the meeting.	12	12	100%
Requested relief NPA assignment within 1 week of regulatory approval.	13	13	100%

PERFORMANCE MEASUREMENT	EVENTS	TOTAL COMPLETED ON TIME	% ON-TIME COMPLETION
Issued press release within 2 weeks after relief NPA code assignment.	1	1	100%
Held implementation meeting within 45 days after relief NPA code assignment.	18	18	100%
Posted planning letter or notice of industry meeting on website within 3 weeks after implementation meeting.	18	18	100%
Posted planning letter on website within 10 business days after regulatory change.	3	3	100%
Held jeopardy meeting no later than 3 weeks after jeopardy declaration.	5	5	100%
Distribute meeting minutes within 15 business days of jeopardy meeting.	6	6	100%
Distributed IPD 4 weeks after date jeopardy was declared, if relief planning was not initiated.	3	3	100%
Held industry relief planning meeting 8 weeks after date jeopardy was declared, if relief planning was not initiated.	3	3	100%
TOTALS	152	152	100%

10 SYSTEMS AND PERFORMANCE METRICS

In 2022, NANPA utilized the three existing resource administration systems: the NANP Administration System (NAS), the Pooling Administration System (PAS) and the Routing Number Administration System (RNAS).

Per Section 10.1.1, *System Availability*, in the TRD³⁰, the NANPA systems will, at a minimum, adhere to the following availability and reliability requirements:

- Available 24 hours, seven (7) days a week
- Availability shall meet a minimum requirement of 99.9% of scheduled up-time
- Unscheduled maintenance downtime per calendar year interval shall be less than nine (9) hours
- The mean time to repair (MTTR) for all unscheduled downtime per any 12-month interval shall be less than one (1) hour during Core Business Hours and four (4) hours for non-Core Business Hours
- Scheduled maintenance downtime per 12-month interval shall be less than 24 hours.

During 2022, all of these performance requirements from the TRD Section 10.1.1 were met for NAS, PAS and RNAS.

10.1 NANP Administration System (NAS)

The NANP Administration System (NAS) supports processing CO code applications, collecting resource utilization and forecast data, and issuing notifications to the industry on numbering matters. NAS is used by service providers, service provider consultants, federal and state regulators, and NANPA in the assignment and administration of the various NANP resources.

10.1.1 NAS Actual Performance

In 2022, NAS was available for use **100%** of the scheduled uptime during the 8,760 hours possible during the 12-month period, which meets the NAS performance metric of a *minimum* of 99.9% scheduled uptime. NAS had no unscheduled down time in 2022.

10.1.2 NAS Performance Metrics

In 2022, as outlined in Table 10-2, NAS met the required performance metrics set forth in the TRD:

³⁰ *Combined NANPA/PA Technical Requirements Document, Description/Specifications, 273FCC21C0003-revised P0002, Attachment 1.1, §10 (August 27, 2021).*

Table 10-1
2022 NAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
NAS Availability	NANP Administration System is available	A minimum requirement of 99.9%	MET THE REQUIREMENT WITH A <i>SCHEDULED</i> AVAILABILITY LEVEL OF 100%
Maintenance	Unscheduled maintenance of NAS is less than 9 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO INSTANCES OF <i>UNSCHEDULED</i> NAS AVAILABILITY
Maintenance	Scheduled maintenance of NAS is less than 24 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO DOWNTIME AS A RESULT OF SCHEDULED MAINTENANCE

10.1.3 NAS Maintenance

NAS had two FCC-approved, scheduled maintenance activities in 2022, on April 28 and December 8. As NANPA used none of the three hours of approved scheduled downtime for each event, no customers were impacted

10.1.4 NAS Change Orders

Changes and improvements to NAS are generally driven by changes to FCC rules, Industry guidelines, or specific service provider or regulatory requests. In 2022, NANPA submitted one NAS change order, Change Order Proposal 1, dated December 19, 2022, regarding implementation of INC Issue 941 - Update 5XX-NXX Guidelines to Make 5XX-555 Codes Available For Assignment.

10.2 Pooling Administration System (PAS)

The Pooling Administration System (PAS) supports processing number resource applications in pooling areas, collecting forecast data, and issuing notifications to the industry on numbering matters. PAS is the primary tool used by service providers, service provider consultants, federal and state regulators, and NANPA in the assignment and administration of thousands-block resources.

10.2.1 PAS Actual Performance

In 2022, PAS was available for use **100%** of the scheduled uptime during the 8,760 hours possible during the 12-month period, which meets the PAS performance metric of a *minimum* of 99.9% scheduled uptime. PAS had no unscheduled down time in 2022.

10.2.2 PAS Performance Metrics

In 2022, as outlined in Table 10-2, PAS met the required performance metrics set forth in the TRD:

Table 10-2
2022 PAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
PAS Availability	Pooling Administration System is available	A minimum requirement of 99.9%	MET THE REQUIREMENT WITH A <i>SCHEDULED</i> AVAILABILITY LEVEL OF 100%
Maintenance	Unscheduled maintenance of PAS is less than 9 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO INSTANCES OF <i>UNSCHEDULED</i> PAS AVAILABILITY
Maintenance	Scheduled maintenance of PAS is less than 24 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO DOWNTIME AS A RESULT OF SCHEDULED MAINTENANCE

10.2.3 PAS Maintenance

PAS had three FCC-approved, scheduled maintenance activities in 2022, on April 28, August 25, and December 8. As NANPA used none of the three hours of approved scheduled downtime for each event, no customers were impacted.

10.2.4 PAS Change Orders

Changes and improvements to PAS are generally driven by changes to FCC rules, Industry guidelines, or specific service provider or regulatory requests. NANPA submitted no PAS Change Orders in 2022.

10.3 Routing Number Administration System (RNAS) Performance

The Routing Number Administration System (RNAS) is essential to the routing number (p-ANI) administration operation because RNAS stores all of the information relating to p-ANI administration to

facilitate routing of E9-1-1 calls. Because it provides essential reporting features that contain real-time data, reliability is critical.

10.3.1 RNAS Actual Performance

In 2022, RNAS was available for use **100%** of the scheduled uptime during the 8,760 hours possible during the 12-month period, which meets the RNAS performance metric of a *minimum* of 99.9% scheduled uptime. RNAS had no unscheduled down time in 2022.

10.3.2 RNAS Performance Metrics

In 2022, as outlined in Table 10-6, RNAS met the required performance metrics set forth in the TRD:

Table 10-3
2022 RNAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
RNAS Availability	Routing Number Administration System is available	A minimum requirement of 99.9%	MET THE REQUIREMENT WITH A SCHEDULED AVAILABILITY LEVEL OF 100%
Maintenance	Unscheduled maintenance of RNAS is less than 9 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO UNSCHEDULED DOWNTIME RESULTING IN NO RNAS UNAVAILABILITY
Maintenance	Scheduled maintenance of RNAS is less than 24 hours in any 12-month period	100%	MET THE REQUIREMENT WITH NO DOWNTIME AS A RESULT OF SCHEDULED MAINTENANCE

10.3.3 RNAS Maintenance

RNAS had two FCC-approved, scheduled maintenance activities in 2022, on April 28 and December 8. As NANPA used none of the three hours of approved scheduled downtime for each event, no customers were impacted.

10.3.4 RNAS Change Orders

Changes and improvements to RNAS are generally driven by changes to FCC rules, Industry guidelines, or specific service provider or regulatory requests. NANPA submitted no RNAS Change Orders in 2022.

10.4 Trouble Tickets

NANPA tracks and reports trouble tickets, as specified in Section 13.3.1 of the TRD, relating to, at a minimum, the following trouble ticket and/or outage metrics:

- Number opened during the preceding month
- Number closed during the preceding month
- Number under corrective action for over 30 calendar days
- Number related to:
 - System performance
 - Web site
 - Contractor ISP
 - Other
- Total quantity of trouble tickets opened and closed by month for a calendar year, with both the actual open time for each ticket and the average open time for all tickets
- Quantity of System Outages Notifications to all participants and regulatory agencies

NANPA reports trouble ticket details each month in a monthly FCC NANPA status report and to the NAOWG.

NANPA opened and closed no NAS, PAS, or RNAS trouble tickets in 2022.

10.5 NAS, PAS, and RNAS Disaster Recovery Testing

Disaster recovery testing occurs throughout the year during routine system maintenance for NAS, PAS and RNAS to ensure system redundancy in an Amazon Web Services (AWS) cloud environment.

In addition, NANPA personnel worked remotely throughout the year, with no interruption of services.

11 INDUSTRY ISSUE IDENTIFICATION/FEEDBACK

NANPA supports the Industry through several channels during the year including participation in Industry and regulatory forums and interaction with the Numbering Administration Oversight Working Group (NAOWG). This section contains information on NANPA's participation in 2022 at Industry and regulatory forums, including the number of issues and contributions that NANPA submitted, a description of NANPA's interaction with the NAOWG, as well as formal complaints, NANPA *Tips*, and Customer Support call totals.

11.1 Participation in Industry and Regulatory Forums

11.1.1 Industry Forums

As the NANPA, our participation at Industry forums includes:

- Working on issues and answering questions relating to the CO code, thousands-block, non-geographic resources, and the p-ANI administration process
- Actively participating in meeting discussions
- Developing and submitting new issues based on input we received from the Industry, regulators, and internal sources

NANPA participated in the following Industry forums in 2022:

Common Interest Group on Rating and Routing (CIGRR) – NANPA participated in 6 meetings and submitted four issues. NANPA continued to review the 3H (BCRnoNXD under 45 days) validation report monthly prior to the report being sent to the Administrative Operating Company Numbers (AOCNs). NANPA also reviewed the 3E (BCRnoNXD over 45 days) and 3F (NXDsnoBCRs), 3I (ACDnoNXD), and 3J (ACDnoNXD over 45 days) reports monthly. When requested, NANPA also researched other data comparison requests sent by iconectiv® TRA. NANPA continued to address issues and concerns from participants

Emergency Services Interconnection Forum (ESIF) – NANPA, as the Routing Number Administrator (RNA), attended one ESIF meeting

Industry Numbering Committee (INC) – NANPA participated in 16 meetings, submitted 14 new issues and 14 new contributions

Next Generation Interconnection Interoperability Forum (NGIIF) –NANPA participated in four meetings as a subject matter resource

Number Portability Industry Forum (NPIF) - NANPA participated in 12 NPIF meetings and conference calls as a subject matter resource

Telecom Management and Operations Committee (TMOC) – NANPA attended one TMOC meeting as a subject matter resource

11.1.2 Regulatory Forums

NANPA attended the North American Numbering Council (NANC) meetings on February 9, June 14, and August 15. In addition, NANPA attended meetings of the National Association of Regulatory Utility Commissioners (NARUC) in July and November and participated in a Telecom Subcommittee meeting in October.

11.2 NANPA Interaction with the Numbering Administration Oversight Working Group (NAOWG)

The Numbering Administration Oversight Working Group (NAOWG) reviews NANPA’s performance throughout the year. NANPA’s interactions with the NAOWG in 2022 consisted primarily of participating in monthly meetings to review NANPA’s performance and responding to information requests.

The NAOWG and NANPA met 12 times on January 27, February 24, March 31, April 28, May 19, June 23, July 28, August 25, September 22, October 20, November 17, and December 15.

Prior to each meeting, NANPA provided the NAOWG with a summary report of its previous month’s performance which included updates on NANPA geographic and non-geographic activities, NRUF, NPA relief, several performance metrics, 988 transition, Industry meeting activities and regulatory information. In all, NANPA provided 12 monthly reports, four quarterly self-assessments, two “NANP Resource Status Update” reports, and mid-year highlights to the NAOWG.

Table 11-1 contains the description of the standing summary report agenda items.

Table 11-1
NAOWG Description of the Standing Monthly Summary Report Agenda Items

AGENDA ITEM	DESCRIPTION
Geographic Resources Activity	CO Code, Thousands-Block, and p-ANI performance measurements from the previous month
Non-Geographic Resources Activity	CIC, 5XX, 900, VSC performance measurements and activity from the previous month
NRUF	NRUF performance measurements and activity from the previous month
NPA Relief Activity	Status of NPA Relief Activity
NPA Relief Planning	NPA Relief Planning performance measurements
Other Metrics	Performance metrics for NAS, PAS and RNAS performance, trouble tickets, communications, change orders, and additional items (staffing, security, and reference and technical documentation)
Trouble Ticket Detail	Information on trouble tickets
Customer Focus Items	NANPA items that require research, assistance, or education beyond our normal daily interactions with customers

AGENDA ITEM	DESCRIPTION
Transition 10DD (988) Activities	NANPA activities related to the transition to 10-digit dialing for implementation of 988 as a three-digit abbreviated code for the National Suicide Prevention Lifeline
Combined NAS Status	Combined NAS Implementation Timeline
Other	Regulatory and INC updates, as well any other items of interest not covered by other categories.

Activities reported as *Customer Focus Items* are noteworthy specific ways in which NANPA responded to more significant issues and requests from our customers during the year. This list includes only items that required extra time and effort on the part of NANPA staff and does not include all of the day-to-day questions and requests that NANPA staff field as part of their daily workload. NANPA reported a total of 167 customer focus items in 2022. In addition, NANPA provided ad hoc reports to the NAOWG throughout the year, as requested.

11.3 NANPA Formal Complaints

Pursuant to Section 2.9 of the TRD, if a performance problem is identified by a telecommunications Industry participant, NANPA must prepare a document that contains:

- Description of the dispute, concern, complaint, or issue (recorded within one (1) business day)
- Plan of action (recorded within one (1) business day)
- The resolution and reasoning (recorded within one (1) business day of resolution)
- Number of business days passing before referred to appropriate state or federal regulators
- Number of business days passing before resolution accepted by complainant

In coordination with the FCC, NANPA will take any necessary corrective action within 30 calendar days of the complaint. In 2022, NANPA received ***no formal complaints***.

11.4 NANPA and RNA (p-ANI) Quarterly Tips (Tips)

11.4.1 NANPA Tips

NANPA generates *Tips* from suggestions received from regulators and service providers, INC action items, and internal observations regarding processes that could benefit from additional clarification for customers. *Tips* provide helpful information regarding navigation through the NAS, PAS, RNAS, as well as significant or changing numbering processes and are sent via email through the systems' distribution list at minimum during each quarter. Often NANPA will send a "Supplemental" *Tip* during a quarter if a topic surfaces that would benefit customers right away. *Tips* also serve as a useful reference for all NAS, PAS and RNAS users. Archive files for *Tips* from previous years can be found on our websites.

Table 11-2 lists all of the 2022 NANPA *Tip* topics:

Table 11-2
2022 NANPA Tips

MONTH	TOPIC
January (PAS)	Completing ISP Ports for Contaminated Block Disconnect
April (PAS)	Pooling in a NPA that is in Jeopardy
June (NAS)	Semi Annual Review of Inventory to Determine if Thousands-Block Disconnects Should Be Submitted
June (Supplemental PAS)	Semi Annual Review of Inventory to Determine if Thousands-Block Disconnects Should Be Submitted
October (NAS)	CO Code Assignment Preference
October (PAS)	CO Code Assignment Preference

11.4.2 RNA (p-ANI) Tips

The p-ANI *Tip* is sent via email to the RNAS distribution list of registered users at the beginning of each quarter. The p-ANI *Tip* provides helpful information regarding RNAS and the p-ANI request process and serves as a useful reference for all RNAS users. Archive files for all p-ANI *Tips* can be found on our website. Table 11-3 lists all of the p-ANI *Tip* topics that were covered by quarter:

Table 11-3
2022 p-ANI Tips

MONTH	TOPIC
January	p-ANI Forecast Report
April	Returning or Modifying Part of an Existing p-ANI Range
July	RNAS Passwords
October	Supporting Documentation for New p-ANI Requests

11.5 NANPA Customer Support

The NANPA Customer Support Representative (CSR or Help Desk) responds to both internal and external questions and requests for technical support and attempts to promptly confirm the cause of a problem. Some examples are:

- Creating, deleting, and maintaining user accounts and passwords
- Answering a variety of inquiries from customers, including questions regarding use of forms, navigation within the NAS, PAS and RNAS, and assisting users with locating documentation
- Working with carriers to troubleshoot problems and assist in resolving technical problems

There were 1,215 customer support phone calls in 2022 compared to 1,541 in 2021. Table 11-4 shows the numbers of calls handled by the Help Desk.

Table 11-4
2022 Help Desk Calls

MONTH	TOTAL NUMBER OF HELP DESK CALLS 2022
January	150
February	100
March	111
April	121
May	98
June	91
July	116
August	99
September	92
October	96
November	90
December	51
TOTAL	1,215

12 VOLUME OF REPORTS PRODUCED IN 2022

12.1 Total Reports

NANPA produced 912 reports and all reporting requirements were met in 2022. The total in each section includes standard contract reports as well as non-standard (ad hoc) reports. Of the total number of reports, 600 were related to monthly reports sent to state commissions and the FCC for reclamation. These totals *do not* include reports that were obtained directly from the NANPA, PA, or p-ANI websites, or from NAS, PAS, or RNAS.

Table 12-1 shows the total number of reports produced during 2022 aggregated by regulatory agency (FCC and states), service providers and other. The total number of reports includes:

FCC: Contract Data Requirements List (CDRL), Technical Requirements Document (TRD), *ad hoc*, and other reports required by the contract.

STATES: reclamation, educational overviews, 988 compliance, NPA relief, and miscellaneous *ad hoc* reports.

SERVICE PROVIDERS: rate center change reports and miscellaneous *ad hoc* reports.

OTHER: anything not included in the categories above, such as the NAOWG.

Table 12-1
Total 2022 Reports

TYPE	TOTAL NUMBER OF REPORTS
FCC	51
STATES	724
SERVICE PROVIDERS	74
OTHER	63
TOTAL	912

12.2 Reports Compliance

This section describes the reports that are required in the TRD and Industry guidelines that are included in the overall total number of reports produced as shown in Table 12-1. These reports include two CDRL reports, the Annual Report and Ad Hoc reports, as well as other reports. Table 12-2 shows the report categories, requirement references, required intervals, dates the reports were submitted, the total number of each required report submitted for the year, and whether the requirement was met.

Table 12-2
2022 Required Reports Compliance

REPORT TYPE	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
Staffing Report	TRD 14.12 per Section 2.5	1 st working day of the month	1/4, 2/1, 3/1, 4/1, 5/2, 6/1, 7/1, 8/1, 9/1, 10/3, 11/1, 12/1	12	Y
NANPA Monthly Report ³¹	TRD Sections 11.3, 11.4, 11.5, 11.6, 11.11, 11.12, 12.3	Monthly	1/14, 2/11, 3/11, 4/14, 5/13, 6/13, 7/14, 8/11, 9/14, 10/12, 11/9, 12/9	12	Y
Quarterly Pooling Matrices Report	TRD Section 12.3.5	Quarterly	1/14, 4/14, 7/14, 10/12	4	Y
Quarterly Self-Assessment	TRD Section 12.1.5	Quarterly	1/20, 4/21, 7/21, 10/13	4	Y
Inventory ³²	TRD Section 10.15 and 10.17.3	Quarterly	N/A	N/A	N/A
Forecasted Demand (Pooling)	TRD Section 12.3.5	Semi-Annual	2/14, 8/24	2	Y
Rate Area Inventory Pool Status (Pooling and RNA)	TRD Sections 11.5.2 and 12.3.5	Semi-Annual	2/14, 8/24	2	Y
Status of NANP Resources	ATIS INC NPA Allocation Plan Assignment Guidelines Section 5.9	Semi-Annual	1/31, 7/18	2	Y

³¹ Includes monthly reporting for NPA Relief Activity, CO Code Activity, Thousands-Block Pooling Report, Thousands-Block Summary by Rate Center, p-ANI Administration Report, p-ANI Summary by NPA, Systems Performance Report, Other Performance Metrics (Trouble Tickets, Communications, Change Orders, Ad Hoc Reports totals), Forecasting Data on a Per State Basis, and CO Code and Other Resources details.

³² There are no inventory reports for 2022 since NANPA has maintained no transferable property since September 2021.

REPORT TYPE	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
Annual Report	CDRL 14.2 per Section 11.1	Annual	3/20	1	Y
Ad Hoc Reports	CDRL 14.1 per Section 11	Within three business days	January (22 reports) February (22 reports) March (28 reports) April (16 reports) May (16 reports) June (16 reports) July (7 reports) August (9 reports) September (8 reports) October (8 reports) November (19 reports) December (15 reports)	186	Y
TOTAL REPORTS				223	

Table 12-3 shows the total number of Ad Hoc reports by Type.

Table 12-3
2022 Ad Hoc Reports by Type

TYPE	TOTAL NUMBER OF AD HOC REPORTS
FCC	18
STATES	62
SERVICE PROVIDERS	62
OTHER	44
TOTAL	186

13 HISTORICAL TRENDS FROM 2018 THROUGH 2022

In this section you will find trends in CO code and thousands-block assignment activity, NXXs saved by Pooling, reclamation, and NPA relief activity from 2018 through 2022.

13.1 Geographic Resources Activity Since 2018

NANPA also tracks assignment data to identify any trends in CO code and thousands-block assignment rates. Table 13-1 shows the total quantity of CO codes assigned in 2022 compared with assignments over the last five years and Table 13-4 shows the total number of thousands-blocks assigned.

The total number of CO code (Part 3) and thousands-block (Part 3A) applications processed is the best measure of the actual processing work performed by the Resource Administrators (RAs). Although a large majority of applications for numbering resources are processed and approved immediately, some are suspended for future action, and some are withdrawn or denied entirely. Each of these activities generates a Part 3 or 3A and requires action by the RAs. Table 13-2 shows the number of Part 3s that were processed over the past five years, and Table 13-5 shows the numbers of Part 3As that were processed over the past five years.

**Table 13-1:
CO Code Assignment Activity from 2018 through 2022 At-A-Glance**

YEAR	ANNUAL GROSS CO CODE DEMAND	QUANTITY OF RETURNED CO CODES	ANNUAL NEW CO CODE DEMAND
2018	2,846	279	2,567
2019	3,433	305	3,128
2020	4,895	238	4,657
2021	6,970	263	6,707
2022	5,408	644	4,764

**Table 13-2:
CO Code Applications (Part 3s)
Processed from 2018 through 2022**

	2018	2019	2020	2021	2022
January	1,168	486	1,636	1,816	1,657
February	486	554	641	2,578	3,007
March	892	529	621	3,541	1,336
April	731	467	440	1,777	1,051
May	541	832	740	2,109	1,239
June	925	572	800	2,075	2,716
July	535	467	1,879	3,340	1,223
August	754	674	1,374	9,843	1,659
September	693	883	1,709	2,705	3,996

	2018	2019	2020	2021	2022
October	1,870	1,319	1,171	1,759	1,548
November	397	643	1,798	1,974	1,936
December	575	443	1,870	2,256	1,427
TOTAL	9,567	7,869	14,679	35,773	22,795

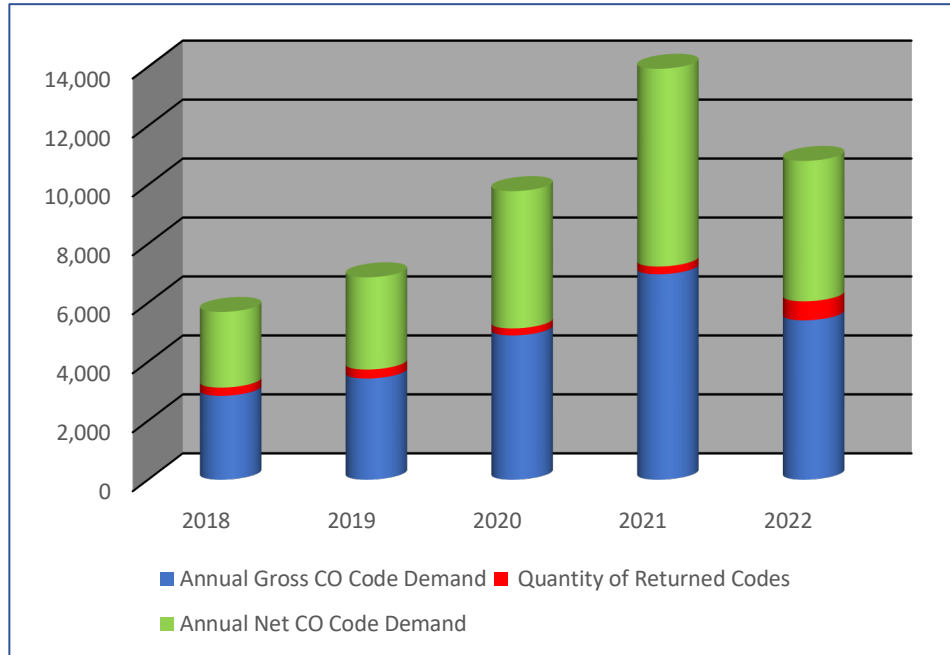


Figure 5: CO Code Assignment Activity from 2018 through 2022

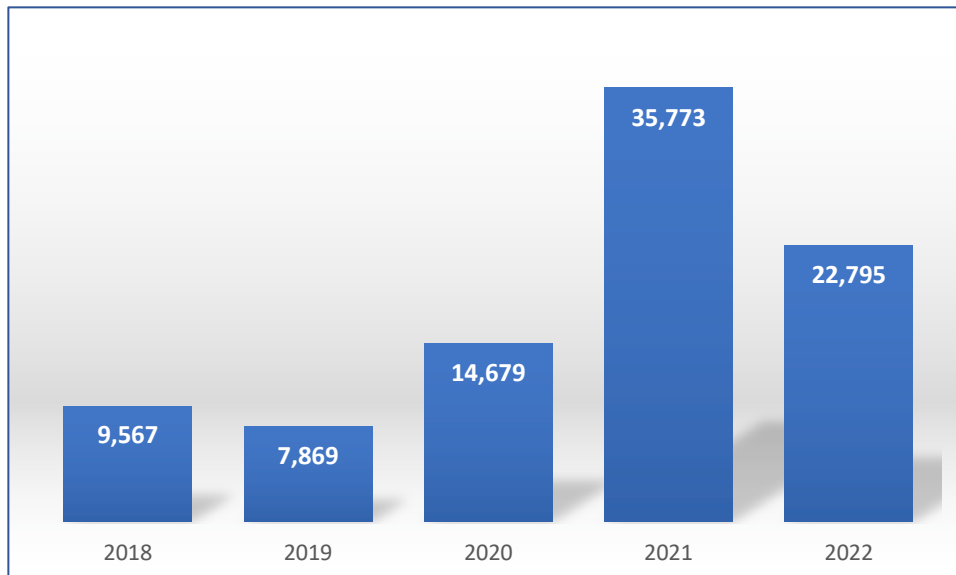


Figure 6: CO Code Applications (Part 3s) Processed From Years 2018 through 2022

Table 13-3
CO Codes Assigned through PAS by Type from 2018 through 2022 At-A-Glance

	2018 Statistics	2019 Statistics	2020 Statistics	2021 Statistics	2022 Statistics
NXXs Opened for LRNs	481	682	691	1,124	469
NXXs Opened for Dedicated Customers	54	47	44	58	46
NXXs Opened for Pool Replenishment	2,262	2,651	4,152	5,767	4,893

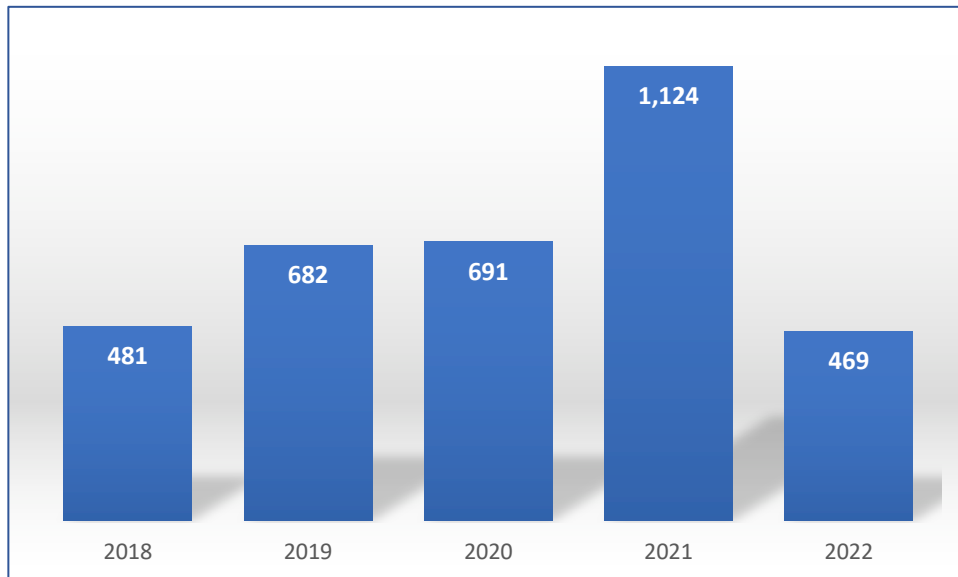


Figure 7: CO Codes Opened for LRNs from 2018 through 2022

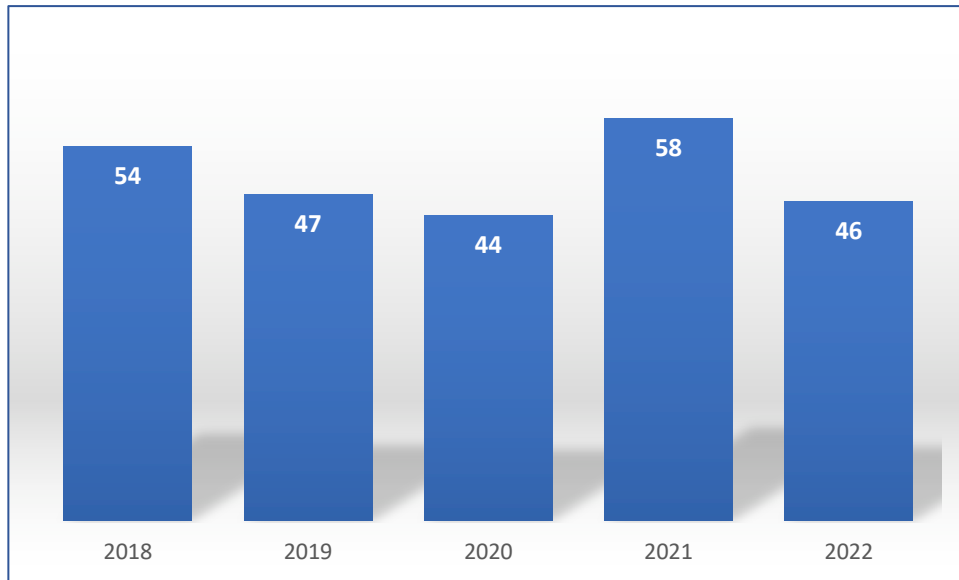


Figure 8: CO Codes Opened for Dedicated Customers from 2018 through 2022

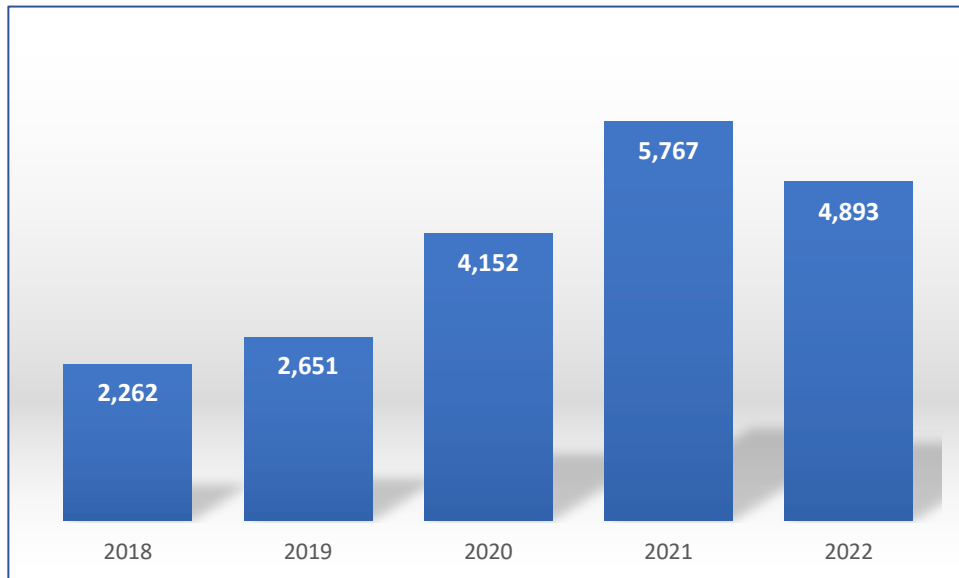


Figure 9: CO Codes Opened for Pool Replenishment from 2018 through 2022

Table 13-4
Thousands-Block Assignment Activity from 2018 through 2022 At-A-Glance

	2018 Statistics	2019 Statistics	2020 Statistics	2021 Statistics	2022 Statistics
Thousands-Blocks Assigned by NANPA During Year	36,602	51,969	74,078	102,837	62,933
Total Assigned Thousands-Blocks in PAS at Year End	605,561	647,827	711,109	797,535	842,216

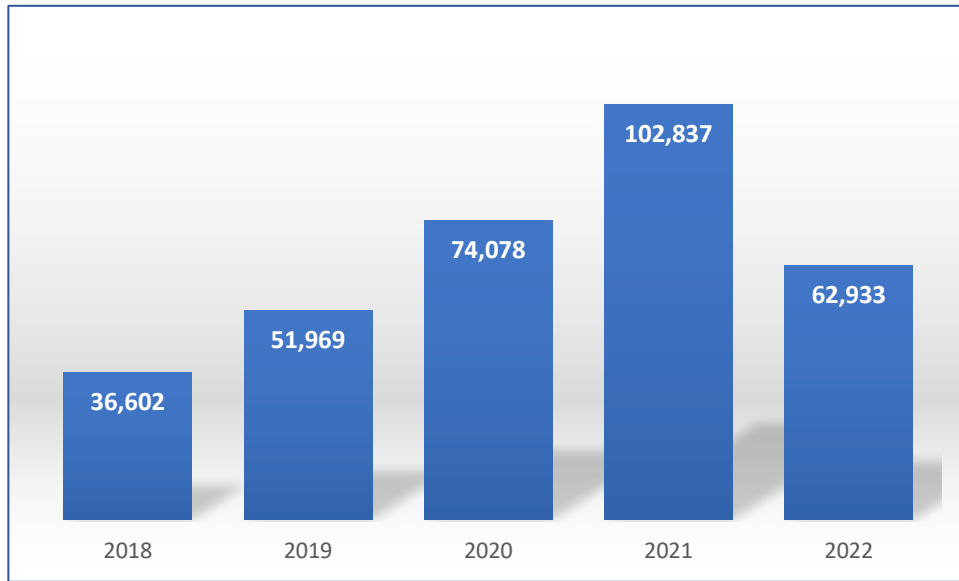


Figure 10: Thousands-Blocks Assigned By NANPA During Years 2018 through 2022

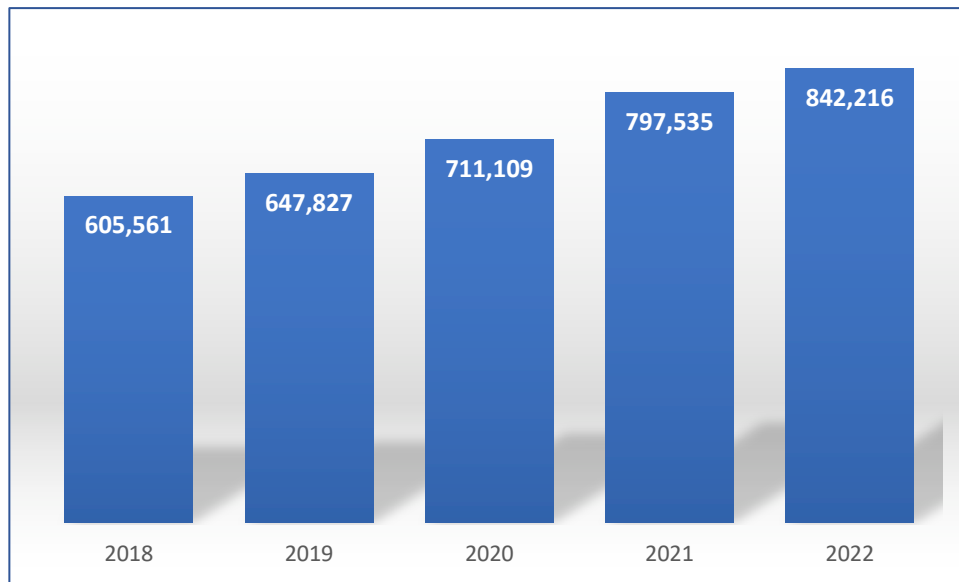


Figure 11: Assigned Thousands-Blocks in PAS at End of Year 2018 through 2022

Table 13-5
Total Applications Processed (Part 3As) Since 2018

	2018	2019	2020	2021	2022
Jan	13,652	7,412	13,655	22,519	15,527
Feb	5,317	7,422	10,687	26,415	24,094
Mar	9,334	9,102	11,776	28,496	16,948
Apr	11,348	11,355	11,047	21,861	17,809
May	11,214	11,684	9,851	24,058	16,440
Jun	11,611	8,962	28,554	24,309	21,075
Jul	6,899	8,691	14,720	26,709	13,864
Aug	7,979	13,186	33,302	69,923	17,529
Sep	8,146	10,930	17,123	29,015	18,424
Oct	15,080	10,660	17,959	19,426	19,444
Nov	7,790	9,611	20,990	22,388	18,585
Dec	6,949	7,782	20,345	25,695	12,352
TOTAL	115,319	116,797	210,009	340,814	212,091

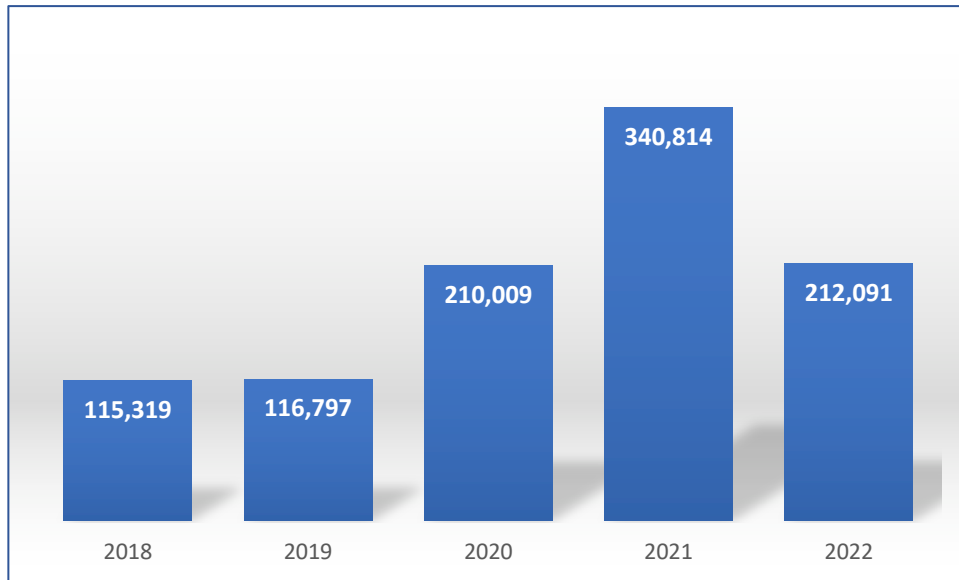


Figure 12: Applications (Part 3As) Processed From Years 2018 through 2022

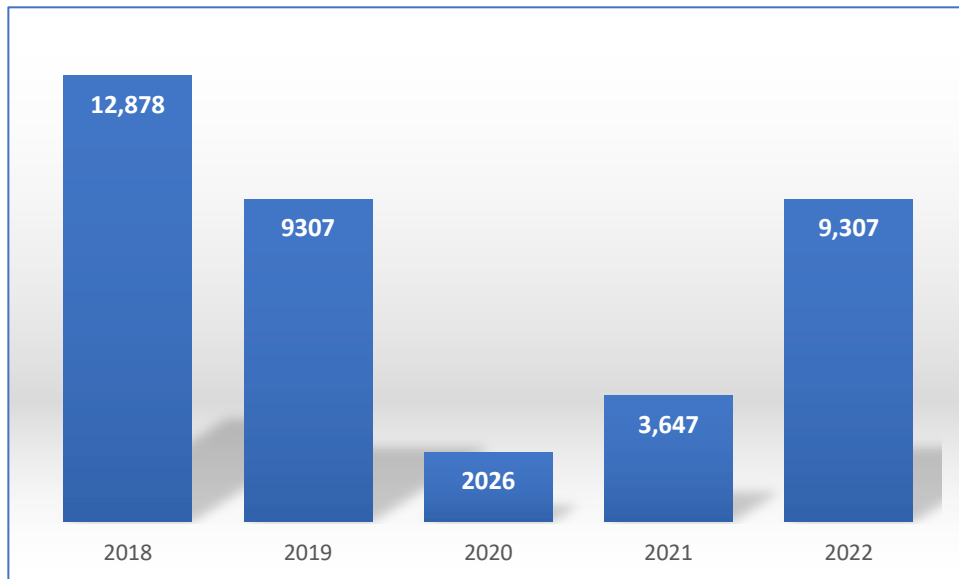


Figure 13: p-ANI Applications Processed From 2018 through 2022

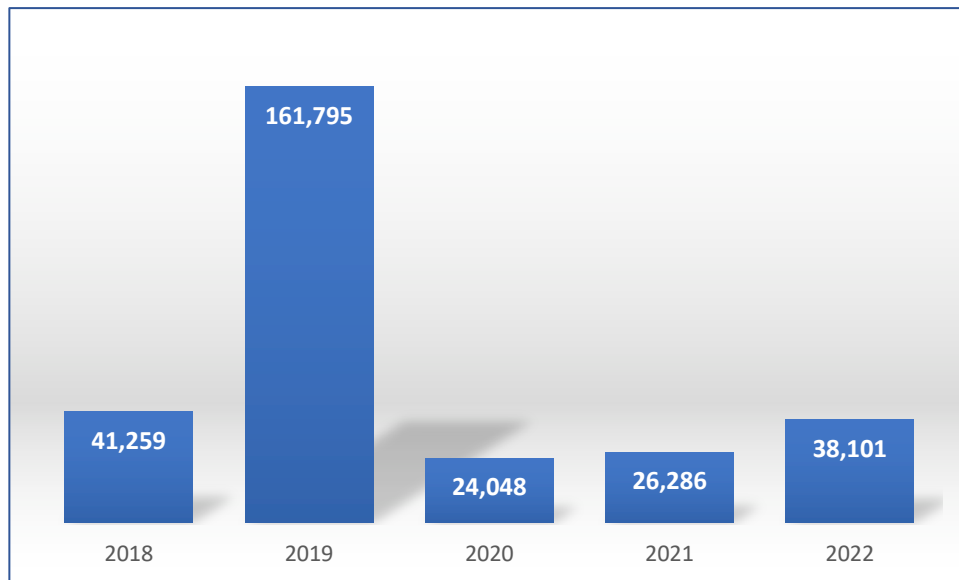


Figure 14: Quantity of p-ANIs Assigned From 2018 through 2022

13.2 NXXs Saved by Pooling

NANPA calculates that **116,581 NXXs** have been saved since pooling began, which is the equivalent to 114 NPAs.

Attachment 10 shows the NXXs that have been saved in all NPA areas, in 50 states, the District of Columbia and Puerto Rico by NPA/NPA complex³³.

13.3 Reclamation 2018 through 2022

This section shows the cumulative number of CO codes and thousands-blocks on the reclamation lists each month, the total number of those resources that were new each month, the number of resources for which reclamation was initiated³⁴, and the number of resources actually reclaimed.

While a state may authorize NANPA to initiate CO code or thousands-block reclamation, not all resources in this category have actually been reclaimed. In some cases, the reclamation process is begun and then halted if it is determined that the resources are actually in service. Only two CO codes have been reclaimed since 2018.

³³ An NPA complex is the combination of all NPAs tied to any specific geographic rate center, including overlay NPAs.

³⁴ The CO code information was not reported prior to 2022.

Table 13-7
CO Code Reclamation From 2018 through 2022 At-A Glance

Year	Number of Cumulative CO Codes on the List	Number of New CO Codes on the List	Number of CO Codes for which Reclamation was Initiated	Number of CO Codes Reclaimed
2018	170	N/A	N/A	0
2019	132	N/A	N/A	1
2020	119	N/A	N/A	0
2021	497	232	2	0
2022	355	74	2	1

Table 13-8
Thousands-Block Reclamation from 2018 through 2022

Year	Number of Cumulative Thousands-Blocks on the List	Number of New Thousands-Blocks on the List	Number of Thousands-Blocks for which Reclamation was Initiated	Number of Thousands-Blocks Reclaimed
2018	2,403	1,061	115	3
2019	2,652	1,306	19	7
2020	4,082	1,654	23	5
2021	5,669	2,170	11	9
2022	3,838	943	25	15

In total, 39 thousands-blocks have been reclaimed since 2018. Table 13-9 shows the total number of thousands-blocks reclaimed by state since 2018, ranked from highest to lowest.

Table 13-9
Total Number of Thousands-Blocks Reclaimed by State from 2018 through 2022

State	2018	2019	2020	2021	2022	Total
NEW YORK				6	2	8
GEORGIA	2	2	2			6
INDIANA					6	6
IOWA			3		2	5
WASHINGTON	1	3				4
WISCONSIN					4	4

State	2018	2019	2020	2021	2022	Total
FLORIDA				2	1	3
DISTRICT OF COLUMBIA		1				1
VIRGINIA		1				1
MICHIGAN				1		1
TOTAL	3	7	5	9	15	39

13.4 Summary of Pooled Areas since 2018

Table 13-10 below depicts the trends in rate center thousand-block pooling statuses between 2018 through 2022.

Table 13-10
Pooling Rate Center Facts Comparison by Year from 2018 through 2022

	2018	2019	2020	2021	2022
Total Number of Distinct Rate Centers	18,485	18,485	18,485	18,485	18,485
Total Number of Distinct Rate Centers Available for Pooling	16,592	16,672	16,732	16,790	16,878
Percentage of Distinct Rate Centers that are Available for Pooling	89.8%	90.2%	90.5%	90.8%	91.3%
Total Number of Mandatory Distinct Rate Centers	9,006	9,068	9,168	9,293	9,332
Percentage of Distinct Rate Centers that are Mandatory	48.7%	49.1%	49.6%	50.3%	50.4%
Total Number of Distinct Mandatory Single-Service Provider Rate Centers	941	905	805	681	642
Percentage of Distinct Rate Centers that are Mandatory Single-Service Provider	5.0%	4.9%	4.3%	3.6%	3.5%
Total Number of Distinct Optional Rate Centers	6,645	6,699	6,759	6,823	6,904
Percentage of Distinct Rate Centers that are Optional	35.9%	36.2%	36.5%	37.0%	37.3%
Total Number of Distinct Rate Centers Excluded from Pooling	1,893	1,813	1,752	1,688	1,607
Percentage of Distinct Rate Centers that are Excluded from Pooling	10.2%	9.8%	9.4%	9.1%	8.7%
Total Number of Rate Center Designations Changed (see Section 2.4.2 for detail)	204	293	212	134	280

13.5 NPA Relief Projects Initiated by Year

NANPA has seen a steady increase in the number of NPA relief projects initiated in the past five years, from four in 2018 to 14 in 2022. The totals do not represent all active NPA relief projects.

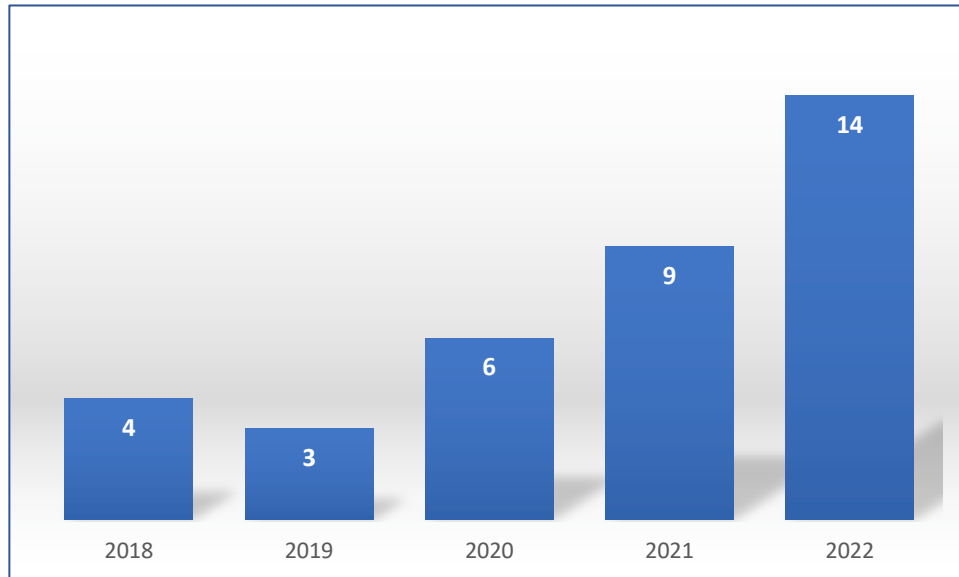


Figure 15: NPA Relief Projects Initiated by Year 2018 through 2022

13.6 Total Active NPA Relief Projects from 2018 through 2022

The total number of active relief projects depicted below represent NPA relief projects on which NANPA worked from 2018 through 2022. Between 2018 and 2020, NANPA worked on 49 NPA relief projects, while in 2021 and 2022, NANPA worked on 58 NPA relief projects. NANPA involvement includes initiating relief, making regulatory filings, attending hearings and public meetings, assigning the new NPA, issuing a *Planning Letter*, and attending Industry committee meetings.

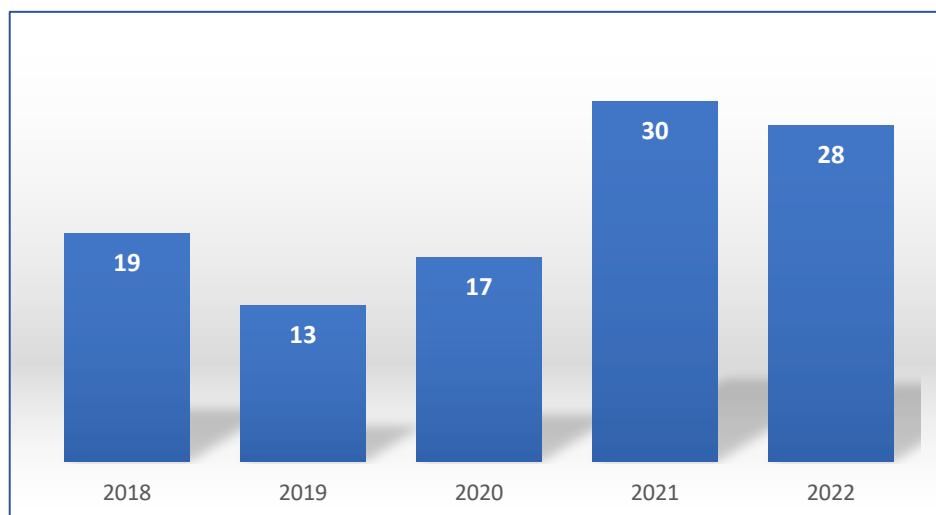


Figure 16: Total Active NPA Relief Projects by Year 2018 through 2022

13.7 State Regulatory NPA Relief Submissions from 2018 through 2022

As shown in Figure 17, NANPA made 35 submissions with state regulators in 2022 relating to NPA relief projects as compared to 22 in 2021 and 12 from 2018 through 2020.

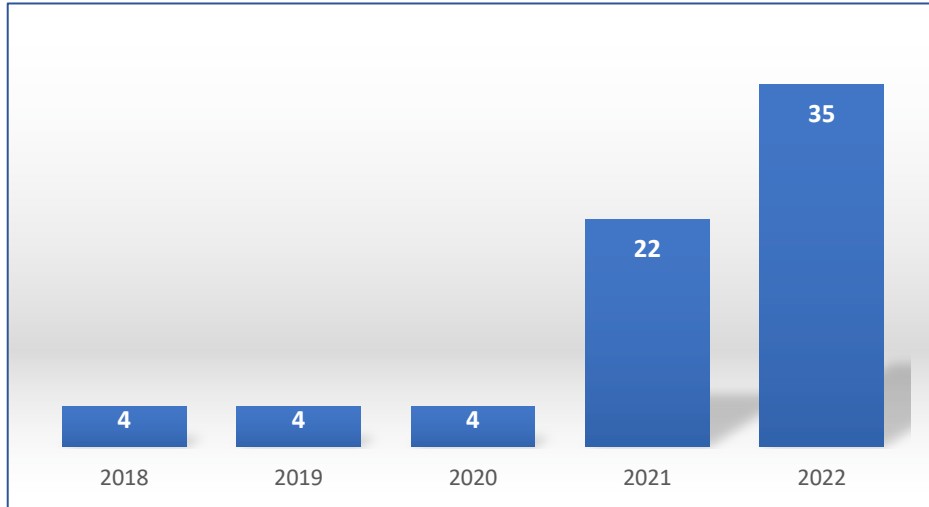


Figure 17: State Regulatory NPA Relief Submissions from 2018 through 2022

13.8 NPAs Assigned from 2018 through 2022

Figure 18 shows the number of new NPAs assigned by NANPA between 2018 and 2022.

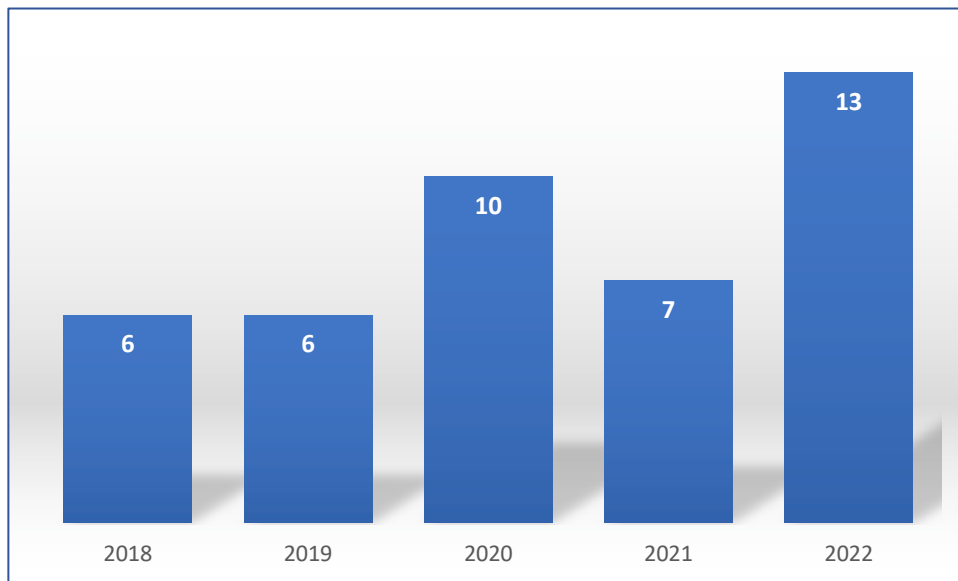


Figure 18: NPAs Assigned from 2018 through 2022

13.9 NPAs Introduced from 2018 through 2022

The following chart illustrates the declining trend of NPAs being introduced between 2018 and 2020, then significantly increasing in 2021 and 2022.

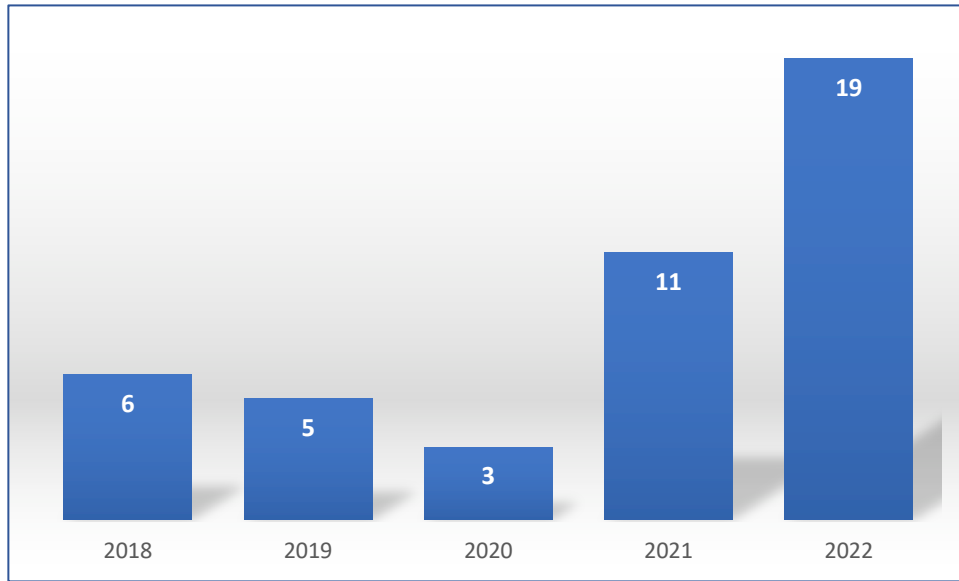


Figure 19: NPAs Introduced from 2018 through 2022

13.10 Jeopardy Declared from 2018 through 2022

The number of jeopardy declarations decreased by 44% in 2022 from 2021.

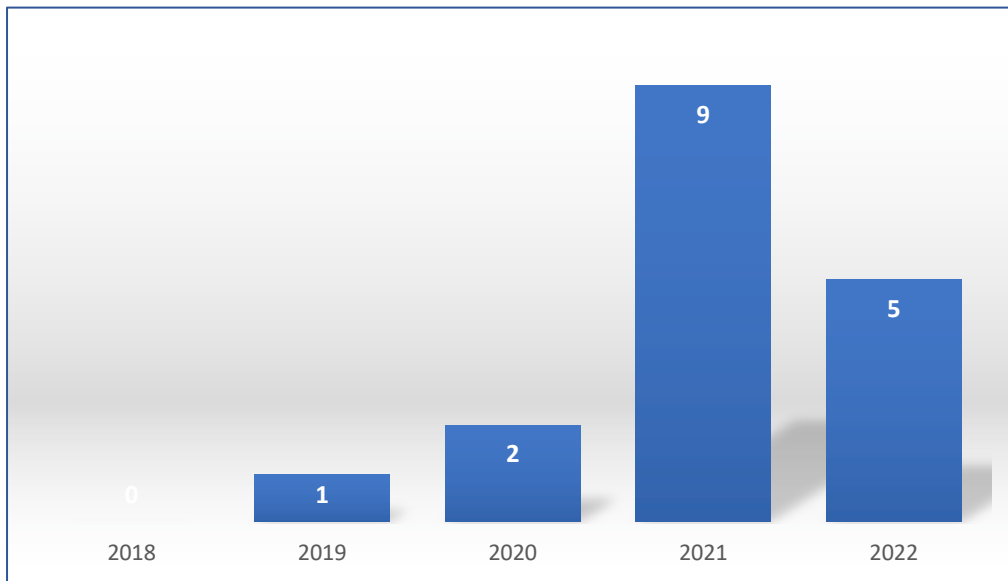


Figure 20: Jeopardy Declared 2018 through 2022

13.11 Total NPAs In Jeopardy from 2018 through 2022

During 2022, there were as many as 15 NPAs in jeopardy, which is the highest number in the past five years. However, by the end of 2022, only six NPAs remained in jeopardy.

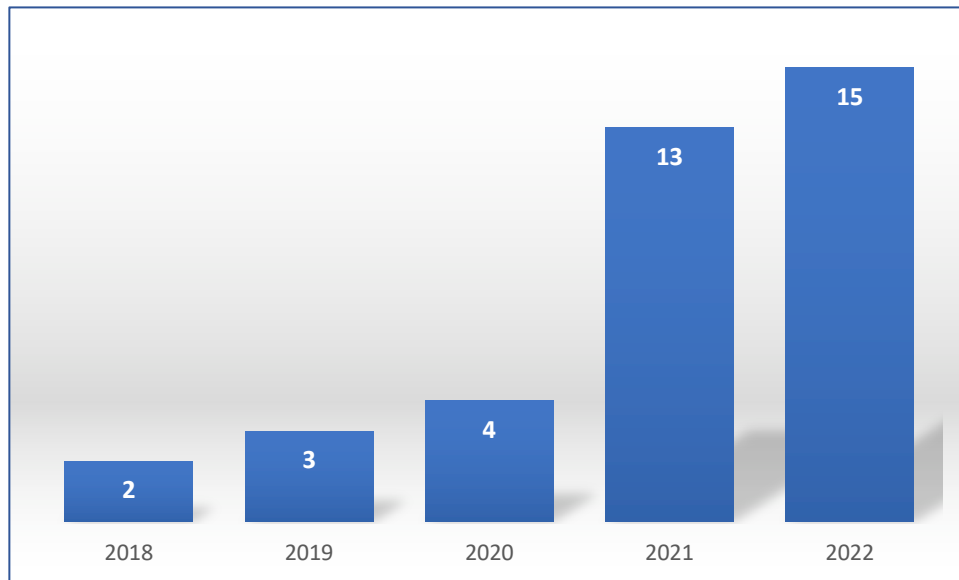


Figure 21: NPAs In Jeopardy from 2018 through 2022

14 ADDITIONAL INFORMATIONAL OFFERINGS

14.1 Status of Required Transferable Property

NANPA has maintained no transferable property since September 2021.

14.2 AOCN Enterprise Service

Upon request, NANPA will enter data for a service provider's assigned CO codes and thousands-blocks into the database used by the Industry to configure the network for the proper routing and rating of calls. NANPA is permitted to charge a fee and a contract between the service provider and NANPA is required.

Although NANPA is required to provide the AOCN 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 as Administrative Operating Company Numbers (AOCNs). Over time, the company providing the data input service has come to be called the service provider's "AOCN."

14.3 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 a hearing in person or requires local counsel to represent NANPA, 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.

NANPA did not present any oral or written testimony for any projects in 2022. NANPA did participate in the following state regulatory NPA relief proceedings:

- March 11: provided final script and slides for Docket Number 20220036-TP for the Florida 904 NPA virtual workshop
- September 13: attended two virtual public hearings for Case Number 22-C-0358 for relief of the New York 716 NPA
- October 26: attended the prehearing conference for Proceeding A.22-08-009 for relief of the California 213/323 NPA
- November 22: attended the prehearing conference for Proceeding A.22-09-016 for relief of the California 530 NPA
- December 6: attended the Minnesota Public Utilities Commission public meeting for Docket Number P999/M-22-461 for relief of the 507 NPA

14.4 NANPA Websites

The NANPA, Thousands-Block Pooling (“Pooling”), and RNA (p-ANI) websites are the primary public resources for numbering information. They provide complete descriptions of the different services offered by NANPA including CO code, thousands-block pooling, and p-ANI 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 websites. Area code maps, planning letters, reclamation contacts and procedures, FCC numbering orders, contract-required reports to the FCC, User Guides and other documents are readily available. In addition, contact information for NANPA staff members, interconnected VoIP 30-day notification regulatory processes, and state numbering contacts, are posted on the website. The NANPA websites are also the gateways to access the secure sections of NAS, PAS and RNAS.

Popular on the websites are the numerous downloadable reports relating to the various resources NANPA administers. Many of the reports are available real-time, providing the most up-to-date source on resource availability and are also available in a downloadable format (text and Excel™).

Some of the frequently-accessed reports on the NANPA website include:

- The *Central Office Code Availability* and *Central Office Code Utilized* reports provide up-to-date lists of all CO codes available or unavailable for assignment by geographic area code.
- The *Central Office Code Assignment Activity* records provide the quantity of CO codes assigned and returned for each geographic area code on a monthly basis.
- 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, updated on a monthly basis.
- The *NPA Relief Activity Status* report provides information on all active and pending NPA relief projects in the United States.

Some of the frequently-accessed reports on the Thousands-Block Pooling website include:

- The *Block Reports* that display a list of thousands-blocks that are available, assigned or retained by State, NPA and Rate Center. On the Blocks Available Report thousands-blocks in **RED** are pending verification of activation in PSTN. Thousands-blocks in **BLACK** are Available Blocks with a future thousands-block available date.
- The *NPA/Rate Center Report* contains a list of rate centers by NPA. The list includes the rate center’s pooling status, Local Access and Transport Area (LATA), and if applicable the FCC top 100 MSA Name.
- The *Pool Tracking Report* shows the available and forecasted thousands-blocks and CO code forecasted demand information for each rate center within the requested NPA.

There are also various documents available through the websites to assist the user. As an example, for NRUF reporting, the following documentation is available:

- NRUF Form 502, Geographic and Non-Geographic instructions for completing the Form 502, Geographic and Non-Geographic Job Aids
- NAS NRUF On-Line User Guide and Quick Reference Guide, Rate Center Abbreviations
- NRUF Preparation Checklist and list of common errors and associated solutions when completing the Form 502

Similar types of documents are available for CO Code, Thousands-Block and p-ANI Administration and Area Code Relief Planning as well as NAS, PAS, and RNAS User Guides, which provide detailed instructions on the use of the systems.

The home pages of the websites offer links to recent information or activity, under the “What’s New” section. Also included are the “NANPA Fast Track” and Thousands-Block Pooling “Quick Links” containing links to the most visited pages on the website.

The websites include other useful information such as:

- The *New Service Provider Checklist* is a list of helpful tips to assist new service providers in getting started with the pooling process
- Contact sheets for state and reclamation regulatory contacts, state 30-day notification processes for interconnected VoIP providers including state commission contact information for questions, and the Safety Valve (State Waiver) Process
- Transition to 10-digit local dialing for 988 information

NANPA continues to host instructional videos on the NANPA, Pooling and p-ANI websites and viewing activity remains steady:

- For the NANPA website, there were 104 views for five videos. The most popular video was “How to Request an Initial Central Office Code in a Pooling Area” which had 44 views.
- For the Thousands-Block Pooling website, there were 101 views for 11 videos. The most popular was “New To Pooling - Quick Start” which had 37 views.
- For the p-ANI website, there were 24 views for five videos with the most popular being “FCC License Search” with 12 views.

14.5 Support for NANP countries other than the United States

The NANP is unique among the world’s telecommunications numbering plans in that it serves 20 independent countries. These countries include the U.S. and its territories³⁵, 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.

One of NANPA’s 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,

³⁵ American Samoa, Guam, Puerto Rico and the U.S Virgin Islands

but there are others. For example, entities in the U.S., Canada, Anguilla, Sint Maarten and Bermuda use CICs. United States and Canadian entities offer 900 services and thus share the supply of 900-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.

14.6 Support for State Regulators

NANPA frequently communicates with state regulatory numbering contacts (states) in support of their needs for numbering information.

In 2022, NANPA continued to provide states with the number utilization data collected via semi-annual NRUF reporting and assisted states with following up with the appropriate service providers regarding this data. This includes providing real-time access to NRUF data via NAS, with various reports and queries available to search and analyze the data, as well as providing ongoing assistance with using the NRUF reporting capabilities available to them in the system.

Throughout the year, NANPA worked with states concerning the reclamation or conservation of assigned resources. Activity included coordinating with the states to identify and recover abandoned CO codes, seeking service providers to take over disconnected CO codes and thousands-blocks, as well as transferring assigned CO codes to avoid opening new CO codes for LRN purposes.

NANPA continued to supply states with daily application activity reports (Part 1, Part 1A, Part 3 and Part 3A reports), which provide a listing on a daily, weekly, or monthly basis of all applications submitted and processed by NANPA for the area codes in their state. These reports include the tracking numbers, the Parent Company Name and Parent Company Operating Company Number associated with the application, the total amount of the resource requested, and the application type (e.g., block, CO code, modification, or return).

NANPA interfaced with states to address specific issues or concerns associated with individual service provider requests for resources. For example, as specific NPA exhaust dates approached, NANPA ensured that the state regulators were 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 states regularly discuss specific activity and issues associated with NPA exhaust and active, pending or planned NPA relief projects.

NANPA continued to facilitate quarterly meetings with state numbering contacts, providing updates on resource administration activity, NPA Relief Planning, NRUF, iVoIP provider authorizations and 30-day notification processes, relevant INC issues, FCC and NANC activities, and updates on the transition to 10-digit local dialing for the three-digit abbreviated 988 code to reach the 988 Suicide and Crisis Lifeline.

NANPA also continued to work with both the FCC and NANC working groups to manage the NANC-Chair web page, which is used for posting NANC and subtending working group documentation.

NANPA supports states throughout the year by providing education on resource administration processes, website navigation, and responds to hundreds of emails and telephone inquiries. Inquiries relate to such issues as application processing, state waiver rules, service provider authorization, LRN CO code transfers, iVoIP processes, and reclamation.

There was extraordinary turnover in state numbering contacts in 2022. NANPA conducted 17 virtual educational meetings about the numbering processes for state regulatory staff, which is more than triple the number completed in previous years. NANPA develops a comprehensive state-specific numbering overview highlighting pertinent information relating to that state which also serves as a reference document for future questions. The goal in conducting numbering overview sessions for states is to make it easier for them to respond to numbering issues in their states. During the educational meetings in 2022, NANPA reviewed various numbering rules, resource application processing, reclamation, forecasting, iVoIP requirements and activity, NPA relief processes, and the 988 transition, as well as information about reports available through the websites.

ATTACHMENT 1

NPAs In Service as of December 31, 2022

Sorted By Location

NPAs labeled with an asterisk (*) were placed in service in 2022.

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
ALABAMA	205	205/659	10D
ALABAMA	251	N/A	10D
ALABAMA	256	256/938	10D
ALABAMA	334	N/A	7D
ALABAMA	659	205/659	10D
ALABAMA	938	256/938	10D
ALASKA	907	N/A	10D
AMERICAN SAMOA	684	N/A	7D
ANGUILLA	264	N/A	7D
ANTIGUA/BARBUDA	268	N/A	7D
ARIZONA	480	N/A	10D
ARIZONA	520	N/A	7D
ARIZONA	602	N/A	7D
ARIZONA	623	N/A	10D
ARIZONA	928	N/A	10D
ARKANSAS	479	N/A	7D
ARKANSAS	501	N/A	10D
ARKANSAS	870	N/A	7D
BAHAMAS	242	N/A	7D
BARBADOS	246	N/A	7D
BERMUDA	441	N/A	7D
BRITISH VIRGIN ISLANDS	284	N/A	7D
CALIFORNIA	209	209/350	1+10D
CALIFORNIA	213	213/323	1+10D
CALIFORNIA	279	279/916	1+10D
CALIFORNIA	310	310/424	1+10D

³⁶ For complete dialing plan information, see Attachment 4.

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
CALIFORNIA	323	213/323	1+10D
CALIFORNIA	341	341/510	1+10D
CALIFORNIA	*350	209/350	1+10D
CALIFORNIA	408	408/669	1+10D
CALIFORNIA	415	415/628	1+10D
CALIFORNIA	424	310/424	1+10D
CALIFORNIA	442	442/760	1+10D
CALIFORNIA	510	341/510	1+10D
CALIFORNIA	530	N/A	1+10D
CALIFORNIA	559	N/A	7D
CALIFORNIA	562	N/A	1+10D
CALIFORNIA	619	619/858	1+10D
CALIFORNIA	626	N/A	1+10D
CALIFORNIA	628	415/628	1+10D
CALIFORNIA	650	N/A	1+10D
CALIFORNIA	657	657/714	1+10D
CALIFORNIA	661	N/A	7D
CALIFORNIA	669	408/669	1+10D
CALIFORNIA	707	N/A	1+10D
CALIFORNIA	714	657/714	1+10D
CALIFORNIA	747	747/818	1+10D
CALIFORNIA	760	442/760	1+10D
CALIFORNIA	805	805/820	1+10D
CALIFORNIA	818	747/818	1+10D
CALIFORNIA	820	805/820	1+10D
CALIFORNIA	831	N/A	7D
CALIFORNIA	840	840/909	1+10D
CALIFORNIA	858	619/858	1+10D
CALIFORNIA	909	840/909	1+10D
CALIFORNIA	916	279/916	1+10D
CALIFORNIA	925	N/A	1+10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
CALIFORNIA	949	N/A	1+10D
CALIFORNIA	951	N/A	1+10D
CANADA, ALBERTA	*368	368/403/587/780/825	7D
CANADA, ALBERTA	403	368/403/587/825	10D
CANADA, ALBERTA	587	368/403/587/780/825	10D
CANADA, ALBERTA	780	368/587/780/825	10D
CANADA, ALBERTA	825	368/403/587/780/825	10D
CANADA, BRITISH COLUMBIA	236	236/250/604/672/778	10D
CANADA, BRITISH COLUMBIA	250	236/250/672/778	10D
CANADA, BRITISH COLUMBIA	604	236/250/604/672/778	10D
CANADA, BRITISH COLUMBIA	672	236/250/604/672/778	10D
CANADA, BRITISH COLUMBIA	778	236/250/604/672/778	10D
CANADA, MANITOBA	204	204/431/584	10D
CANADA, MANITOBA	431	204/431/584	10D
CANADA, MANITOBA	*584	204/431/584	10D
CANADA, NEW BRUNSWICK	506	N/A	10D
CANADA, NEWFOUNDLAND AND LABRADOR	709	709/879	7D
CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	782	782/902	7D
CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	902	782/902	10D
CANADA, ONTARIO	226	226/382/519/548	10D
CANADA, ONTARIO	249	249/683/705	10D
CANADA, ONTARIO	289	289/365/742/905	10D
CANADA, ONTARIO	343	343/613/753	10D
CANADA, ONTARIO	365	289/365/742/905	10D
CANADA, ONTARIO	416	416/437/647	10D
CANADA, ONTARIO	437	416/437/647	10D
CANADA, ONTARIO	519	226/382/519/548	10D
CANADA, ONTARIO	548	226/382/519/548	10D
CANADA, ONTARIO	613	343/613/753	10D
CANADA, ONTARIO	647	416/437/647	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
CANADA, ONTARIO	*683	249/683/705	10D
CANADA, ONTARIO	705	249/683/705	10D
CANADA, ONTARIO	742	289/365/742/905	10D
CANADA, ONTARIO	*753	343/613/753	10D
CANADA, ONTARIO	807	N/A	10D
CANADA, ONTARIO	905	289/365/742/905	7D
CANADA, QUEBEC	*263	263/438/514	10D
CANADA, QUEBEC	*354	354/450/579	10D
CANADA, QUEBEC	367	367/418/581	10D
CANADA, QUEBEC	418	367/418/581	10D
CANADA, QUEBEC	438	263/438/514	10D
CANADA, QUEBEC	450	354/450/579	10D
CANADA, QUEBEC	*468	468/819/873	10D
CANADA, QUEBEC	514	263/438/514	10D
CANADA, QUEBEC	579	354/450/579	10D
CANADA, QUEBEC	581	367/418/581	10D
CANADA, QUEBEC	819	468/819/873	10D
CANADA, QUEBEC	873	468/819/873	10D
CANADA, SASKATCHEWAN	306	306/474/639	10D
CANADA, SASKATCHEWAN	474	306/474/639	10D
CANADA, SASKATCHEWAN	639	306/474/639	10D
CANADA, YUKON & NORTHWEST TERRITORIES & NUNAVUT	867	N/A	10D
CAYMAN ISLANDS	345	N/A	7D
COLORADO	303	303/720/983	10D
COLORADO	719	N/A	10D
COLORADO	720	303/720/983	10D
COLORADO	970	N/A	10D
COLORADO	*983	303/720/983	10D
COMMONWEALTH OF NORTHERN MARIANA ISLANDS	670	N/A	7D
CONNECTICUT	203	203/475	10D
CONNECTICUT	475	203/475	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
CONNECTICUT	860	860/959	10D
CONNECTICUT	959	860/959	10D
DELAWARE	302	N/A	10D
DISTRICT OF COLUMBIA	202	202/771	10D
DISTRICT OF COLUMBIA	771	202/771	10D
DOMINICA	767	N/A	7D
DOMINICAN REPUBLIC	809	809/829/849	10D
DOMINICAN REPUBLIC	829	809/829/849	10D
DOMINICAN REPUBLIC	849	809/829/849	10D
FLORIDA	239	N/A	7D
FLORIDA	305	305/786	10D
FLORIDA	321	321/407/689 (321 ONLY ASSIGNABLE IN BREVARD COUNTY)	10D
FLORIDA	352	N/A	7D
FLORIDA	386	N/A	10D
FLORIDA	407	321/407/689	10D
FLORIDA	448	448/850	10D
FLORIDA	561	N/A	10D
FLORIDA	*656	656/813	10D
FLORIDA	689	321/407/689	7D
FLORIDA	727	N/A	10D
FLORIDA	754	754/954	7D
FLORIDA	772	N/A	10D
FLORIDA	786	305/786	10D
FLORIDA	813	656/813	10D
FLORIDA	850	448/850	7D
FLORIDA	863	N/A	7D
FLORIDA	904	N/A	10D
FLORIDA	941	N/A	10D
FLORIDA	954	754/954	10D
GEORGIA	229	N/A	7D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
GEORGIA	404	404/470/678/943	10D
GEORGIA	470	404/470/678/770/943	10D
GEORGIA	478	N/A	10D
GEORGIA	678	404/470/678/770/943	10D
GEORGIA	706	706/762	10D
GEORGIA	762	706/762	10D
GEORGIA	770	470/678/770/943	10D
GEORGIA	912	N/A	10D
GEORGIA	*943	404/470/678/770/943	10D
GRENADA	473	N/A	7D
GUAM	671	N/A	10D
HAWAII	808	N/A	10D
IDAHO	208	208/986	10D
IDAHO	986	208/986	10D
ILLINOIS	217	217/447	10D
ILLINOIS	224	224/847	1+10D
ILLINOIS	309	N/A	10D
ILLINOIS	312	312/872	1+10D
ILLINOIS	331	331/630	1+10D
ILLINOIS	447	217/447	10D
ILLINOIS	*464	464/708	1+10D
ILLINOIS	618	N/A	10D
ILLINOIS	630	331/630	1+10D
ILLINOIS	708	464/708	1+10D
ILLINOIS	773	773/872	1+10D
ILLINOIS	779	779/815	1+10D
ILLINOIS	815	779/815	1+10D
ILLINOIS	847	224/847	1+10D
ILLINOIS	872	312/773/872	1+10D
INDIANA	219	N/A	10D
INDIANA	260	N/A	7D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
INDIANA	317	317/463	10D
INDIANA	463	317/463	10D
INDIANA	574	N/A	10D
INDIANA	765	N/A	7D
INDIANA	812	812/930	10D
INDIANA	930	812/930	10D
IOWA	319	N/A	10D
IOWA	515	N/A	10D
IOWA	563	N/A	7D
IOWA	641	N/A	7D
IOWA	712	N/A	7D
JAMAICA	658	658/876	10D
JAMAICA	876	658/876	10D
KANSAS	316	N/A	7D
KANSAS	620	N/A	10D
KANSAS	785	N/A	10D
KANSAS	913	N/A	7D
KENTUCKY	270	270/364	10D
KENTUCKY	364	270/364	10D
KENTUCKY	502	N/A	7D
KENTUCKY	606	N/A	7D
KENTUCKY	859	N/A	10D
LOUISIANA	225	N/A	7D
LOUISIANA	318	N/A	7D
LOUISIANA	337	N/A	10D
LOUISIANA	504	N/A	10D
LOUISIANA	985	N/A	7D
MAINE	207	N/A	7D
MARYLAND	240	240/301	10D
MARYLAND	301	240/301	10D
MARYLAND	410	410/443/667	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
MARYLAND	443	410/443/667	10D
MARYLAND	667	410/443/667	10D
MASSACHUSETTS	339	339/781	10D
MASSACHUSETTS	351	351/978	10D
MASSACHUSETTS	413	N/A	7D
MASSACHUSETTS	508	508/774	10D
MASSACHUSETTS	617	617/857	10D
MASSACHUSETTS	774	508/774	10D
MASSACHUSETTS	781	339/781	10D
MASSACHUSETTS	857	617/857	10D
MASSACHUSETTS	978	351/978	10D
MICHIGAN	231	N/A	7D
MICHIGAN	248	248/947	10D
MICHIGAN	269	N/A	7D
MICHIGAN	313	N/A	7D
MICHIGAN	517	N/A	7D
MICHIGAN	586	N/A	7D
MICHIGAN	616	N/A	10D
MICHIGAN	734	N/A	7D
MICHIGAN	810	N/A	10D
MICHIGAN	906	N/A	10D
MICHIGAN	947	248/947	10D
MICHIGAN	989	N/A	10D
MINNESOTA	218	N/A	10D
MINNESOTA	320	N/A	7D
MINNESOTA	507	N/A	7D
MINNESOTA	612	N/A	7D
MINNESOTA	651	N/A	7D
MINNESOTA	763	N/A	7D
MINNESOTA	952	N/A	10D
MISSISSIPPI	228	N/A	7D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
MISSISSIPPI	601	601/769	10D
MISSISSIPPI	662	N/A	10D
MISSISSIPPI	769	601/769	10D
MISSOURI	314	314/557	10D
MISSOURI	417	N/A	10D
MISSOURI	*557	314/557	10D
MISSOURI	573	N/A	7D
MISSOURI	636	N/A	7D
MISSOURI	660	N/A	10D
MISSOURI	816	N/A	10D
MONTANA	406	N/A	10D
MONTSERRAT	664	N/A	7D
NEBRASKA	308	N/A	7D
NEBRASKA	402	402/531	10D
NEBRASKA	531	402/531	10D
NEVADA	702	702/725	10D
NEVADA	725	702/725	10D
NEVADA	775	N/A	10D
NEW HAMPSHIRE	603	N/A	10D
NEW JERSEY	201	201/551	10D
NEW JERSEY	551	201/551	10D
NEW JERSEY	609	609/640	10D
NEW JERSEY	640	609/640	10D
NEW JERSEY	732	732/848	10D
NEW JERSEY	848	732/848	10D
NEW JERSEY	856	N/A	10D
NEW JERSEY	862	862/973	10D
NEW JERSEY	908	N/A	10D
NEW JERSEY	973	862/973	10D
NEW MEXICO	505	N/A	10D
NEW MEXICO	575	N/A	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
NEW YORK	212	212/332/646/917	1+10D
NEW YORK	315	315/680	10D
NEW YORK	332	212/332/646/917	1+10D
NEW YORK	347	347/718/917/929	1+10D
NEW YORK	516	N/A	10D
NEW YORK	518	518/838	10D
NEW YORK	585	N/A	7D
NEW YORK	607	N/A	10D
NEW YORK	631	631/934	10D
NEW YORK	646	212/332/646/917	1+10D
NEW YORK	680	315/680	10D
NEW YORK	716	N/A	10D
NEW YORK	718	347/718/917/929	1+10D
NEW YORK	838	518/838	10D
NEW YORK	845	N/A	10D
NEW YORK	914	N/A	10D
NEW YORK	917	212/332/646/917	1+10D
NEW YORK	929	347/718/917/929	1+10D
NEW YORK	934	631/934	10D
NORTH CAROLINA	252	N/A	10D
NORTH CAROLINA	336	336/743	7D
NORTH CAROLINA	*472	472/910	10D
NORTH CAROLINA	704	704/980	10D
NORTH CAROLINA	743	336/743	10D
NORTH CAROLINA	828	N/A	10D
NORTH CAROLINA	910	472/910	7D
NORTH CAROLINA	919	919/984	10D
NORTH CAROLINA	980	704/980	10D
NORTH CAROLINA	984	919/984	10D
NORTH DAKOTA	701	N/A	7D
OHIO	216	N/A	7D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
OHIO	220	220/740	10D
OHIO	234	234/330	10D
OHIO	326	326/937	10D
OHIO	330	234/330	10D
OHIO	380	380/614	10D
OHIO	419	419/567	10D
OHIO	440	N/A	10D
OHIO	513	N/A	10D
OHIO	567	419/567	10D
OHIO	614	380/614	10D
OHIO	740	220/740	10D
OHIO	937	326/937	10D
OKLAHOMA	405	405/572	10D
OKLAHOMA	539	539/918	10D
OKLAHOMA	572	405/572	10D
OKLAHOMA	580	N/A	7D
OKLAHOMA	918	539/918	10D
OREGON	458	458/541	10D
OREGON	503	503/971	10D
OREGON	541	458/541	10D
OREGON	971	503/971	10D
PENNSYLVANIA	215	215/267/445	10D
PENNSYLVANIA	223	223/717	10D
PENNSYLVANIA	267	215/267/445	10D
PENNSYLVANIA	272	272/570	10D
PENNSYLVANIA	412	412/878	10D
PENNSYLVANIA	445	215/267/445	10D
PENNSYLVANIA	484	484/610/835	10D
PENNSYLVANIA	570	272/570	10D
PENNSYLVANIA	582	582/814	10D
PENNSYLVANIA	610	484/610/835	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
PENNSYLVANIA	717	223/717	10D
PENNSYLVANIA	724	724/878	10D
PENNSYLVANIA	814	582/814	10D
PENNSYLVANIA	*835	484/610/835	10D
PENNSYLVANIA	878	412/724/878	10D
PUERTO RICO	787	787/939	10D
PUERTO RICO	939	787/939	10D
RHODE ISLAND	401	N/A	7D
SINT MAARTEN	721	N/A	7D
SOUTH CAROLINA	803	803/839	10D
SOUTH CAROLINA	839	803/839	10D
SOUTH CAROLINA	843	843/854	10D
SOUTH CAROLINA	854	843/854	10D
SOUTH CAROLINA	864	N/A	7D
SOUTH DAKOTA	605	N/A	10D
ST. KITTS & NEVIS	869	N/A	7D
ST. LUCIA	758	N/A	7D
ST. VINCENT & GRENADINES	784	N/A	7D
TENNESSEE	423	N/A	7D
TENNESSEE	615	615/629	10D
TENNESSEE	629	615/629	10D
TENNESSEE	731	N/A	10D
TENNESSEE	865	N/A	10D
TENNESSEE	901	N/A	7D
TENNESSEE	931	N/A	7D
TEXAS	210	210/726	10D
TEXAS	214	214/469/945/972	10D
TEXAS	254	N/A	10D
TEXAS	281	281/346/713/832	10D
TEXAS	325	N/A	7D
TEXAS	346	281/346/713/832	10D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
TEXAS	361	N/A	10D
TEXAS	409	N/A	10D
TEXAS	430	430/930	10D
TEXAS	432	N/A	7D
TEXAS	469	214/469/945/972	10D
TEXAS	512	512/737	10D
TEXAS	682	682/817	10D
TEXAS	713	281/346/713/832	10D
TEXAS	726	210/726	10D
TEXAS	737	512/737	10D
TEXAS	806	N/A	10D
TEXAS	817	682/817	10D
TEXAS	830	N/A	10D
TEXAS	832	281/346/713/832	10D
TEXAS	903	430/903	10D
TEXAS	915	N/A	10D
TEXAS	936	N/A	7D
TEXAS	940	N/A	10D
TEXAS	945	214/469/945/972	10D
TEXAS	956	N/A	7D
TEXAS	972	214/469/945/972	10D
TEXAS	979	N/A	7D
TRINIDAD & TOBAGO	868	N/A	7D
TURKS & CAICOS ISLANDS	649	N/A	7D
US VIRGIN ISLANDS	340	N/A	7D
UTAH	385	385/801	10D
UTAH	435	N/A	7D
UTAH	801	385/801	10D
VERMONT	802	N/A	10D
VIRGINIA	276	N/A	10D
VIRGINIA	434	N/A	7D

LOCATION	NPA	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁶
VIRGINIA	540	540/826	10D
VIRGINIA	571	571/703	10D
VIRGINIA	703	571/703	10D
VIRGINIA	757	757/948	10D
VIRGINIA	804	N/A	10D
VIRGINIA	*826	540/826	10D
VIRGINIA	*948	757/948	10D
WASHINGTON	206	N/A	10D
WASHINGTON	253	N/A	10D
WASHINGTON	360	360/564	10D
WASHINGTON	425	N/A	10D
WASHINGTON	509	N/A	10D
WASHINGTON	564	360/564	10D
WEST VIRGINIA	304	304/681	10D
WEST VIRGINIA	681	304/681	10D
WISCONSIN	262	N/A	10D
WISCONSIN	414	N/A	10D
WISCONSIN	534	534/715	10D
WISCONSIN	608	N/A	10D
WISCONSIN	715	534/715	10D
WISCONSIN	920	N/A	10D
WYOMING	307	N/A	7D

ATTACHMENT 2

NPAs In Service as of December 31, 2022

Sorted by NPA

NPAs labeled with an asterisk (*) were placed in service in 2022.

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
201	NEW JERSEY	201/551	10D
202	DISTRICT OF COLUMBIA	202/771	10D
203	CONNECTICUT	203/475	10D
204	CANADA, MANITOBA	204/431/584	10D
205	ALABAMA	205/659	10D
206	WASHINGTON	N/A	10D
207	MAINE	N/A	7D
208	IDAHO	208/986	10D
209	CALIFORNIA	209/350	1+10D
210	TEXAS	210/726	10D
212	NEW YORK	212/332/646/917	1+10D
213	CALIFORNIA	213/323	1+10D
214	TEXAS	214/469/945/972	10D
215	PENNSYLVANIA	215/267/445	10D
216	OHIO	N/A	7D
217	ILLINOIS	217/447	10D
218	MINNESOTA	N/A	10D
219	INDIANA	N/A	10D
220	OHIO	220/740	10D
223	PENNSYLVANIA	223/717	10D
224	ILLINOIS	224/847	1+10D
225	LOUISIANA	N/A	7D
226	CANADA, ONTARIO	226/382/519/548	10D
228	MISSISSIPPI	N/A	7D
229	GEORGIA	N/A	7D
231	MICHIGAN	N/A	7D

³⁷ For complete dialing plan information, see Attachment 4.

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
234	OHIO	234/330	10D
236	CANADA, BRITISH COLUMBIA	236/250/604/672/778	10D
239	FLORIDA	N/A	7D
240	MARYLAND	240/301	10D
242	BAHAMAS	N/A	7D
246	BARBADOS	N/A	7D
248	MICHIGAN	248/947	10D
249	CANADA, ONTARIO	249/683/705	10D
250	CANADA, BRITISH COLUMBIA	236/250/672/778	10D
251	ALABAMA	N/A	10D
252	NORTH CAROLINA	N/A	7D
253	WASHINGTON	N/A	10D
254	TEXAS	N/A	10D
256	ALABAMA	256/938	10D
260	INDIANA	N/A	7D
262	WISCONSIN	N/A	10D
*263	CANADA, QUEBEC	263/438/514	10D
264	ANGUILLA	N/A	7D
267	PENNSYLVANIA	215/267/445	10D
268	ANTIGUA/BARBUDA	N/A	7D
269	MICHIGAN	N/A	7D
270	KENTUCKY	270/364	10D
272	PENNSYLVANIA	272/570	10D
276	VIRGINIA	N/A	10D
279	CALIFORNIA	279/916	1+10D
281	TEXAS	281/346/713/832	10D
284	BRITISH VIRGIN ISLANDS	N/A	7D
289	CANADA, ONTARIO	289/365/742/905	10D
301	MARYLAND	240/301	10D
302	DELAWARE	N/A	10D
303	COLORADO	303/720/983	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
304	WEST VIRGINIA	304/681	10D
305	FLORIDA	305/786	10D
306	CANADA, SASKATCHEWAN	306/474/639	10D
307	WYOMING	N/A	7D
308	NEBRASKA	N/A	7D
309	ILLINOIS	N/A	10D
310	CALIFORNIA	310/424	1+10D
312	ILLINOIS	312/872	1+10D
313	MICHIGAN	N/A	7D
314	MISSOURI	314/557	10D
315	NEW YORK	315/680	10D
316	KANSAS	N/A	7D
317	INDIANA	317/463	10D
318	LOUISIANA	N/A	7D
319	IOWA	N/A	10D
320	MINNESOTA	N/A	7D
321	FLORIDA	321/407/689 (321 ONLY ASSIGNABLE IN BREVARD COUNTY)	10D
323	CALIFORNIA	213/323	1+10D
325	TEXAS	N/A	7D
326	OHIO	326/937	10D
330	OHIO	234/330	10D
331	ILLINOIS	331/630	1+10D
332	NEW YORK	212/332/646/917	1+10D
334	ALABAMA	N/A	7D
336	NORTH CAROLINA	336/743	10D
337	LOUISIANA	N/A	10D
339	MASSACHUSETTS	339/781	10D
340	US VIRGIN ISLANDS	N/A	7D
341	CALIFORNIA	341/510	1+10D
343	CANADA, ONTARIO	343/613/753	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
345	CAYMAN ISLANDS	N/A	7D
346	TEXAS	281/346/713/832	10D
347	NEW YORK	347/718/917/929	1+10D
*350	CALIFORNIA	209/350	1+10D
351	MASSACHUSETTS	351/978	10D
352	FLORIDA	N/A	10D
*354	CANADA, QUEBEC	354/450/579	10D
360	WASHINGTON	360/564	10D
361	TEXAS	N/A	10D
364	KENTUCKY	270/364	10D
365	CANADA, ONTARIO	289/365/742/905	10D
367	CANADA, QUEBEC	367/418/581	10D
*368	CANADA, ALBERTA	368/403/587/780/825	10D
380	OHIO	380/614	10D
385	UTAH	385/801	10D
386	FLORIDA	N/A	7D
401	RHODE ISLAND	N/A	7D
402	NEBRASKA	402/531	10D
403	CANADA, ALBERTA	368/403/587/825	10D
404	GEORGIA	404/470/678/943	10D
405	OKLAHOMA	405/572	10D
406	MONTANA	N/A	10D
407	FLORIDA	321/407/689	10D
408	CALIFORNIA	408/669	1+10D
409	TEXAS	N/A	10D
410	MARYLAND	410/443/667	10D
412	PENNSYLVANIA	412/878	10D
413	MASSACHUSETTS	N/A	7D
414	WISCONSIN	N/A	10D
415	CALIFORNIA	415/628	1+10D
416	CANADA, ONTARIO	416/437/647	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
417	MISSOURI	N/A	10D
418	CANADA, QUEBEC	367/418/581	10D
419	OHIO	419/567	10D
423	TENNESSEE	N/A	7D
424	CALIFORNIA	310/424	1+10D
425	WASHINGTON	N/A	10D
430	TEXAS	430/930	10D
431	CANADA, MANITOBA	204/431/584	10D
432	TEXAS	N/A	7D
434	VIRGINIA	N/A	7D
435	UTAH	N/A	7D
437	CANADA, ONTARIO	416/437/647	10D
438	CANADA, QUEBEC	263/438/514	10D
440	OHIO	N/A	10D
441	BERMUDA	N/A	7D
442	CALIFORNIA	442/760	1+10D
443	MARYLAND	410/443/667	10D
445	PENNSYLVANIA	215/267/445	10D
447	ILLINOIS	217/447	10D
448	FLORIDA	448/850	10D
450	CANADA, QUEBEC	354/450/579	10D
458	OREGON	458/541	10D
463	INDIANA	317/463	10D
*464	ILLINOIS	464/708	1+10D
*468	CANADA, QUEBEC	468/819/873	10D
469	TEXAS	214/469/945/972	10D
470	GEORGIA	404/470/678/770/943	10D
*472	NORTH CAROLINA	472/910	10D
473	GRENADA	N/A	7D
474	CANADA, SASKATCHEWAN	306/474/639	10D
475	CONNECTICUT	203/475	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
478	GEORGIA	N/A	10D
479	ARKANSAS	N/A	7D
480	ARIZONA	N/A	10D
484	PENNSYLVANIA	484/610/835	10D
501	ARKANSAS	N/A	10D
502	KENTUCKY	N/A	7D
503	OREGON	503/971	10D
504	LOUISIANA	N/A	10D
505	NEW MEXICO	N/A	10D
506	CANADA, NEW BRUNSWICK	N/A	7D
507	MINNESOTA	N/A	7D
508	MASSACHUSETTS	508/774	10D
509	WASHINGTON	N/A	10D
510	CALIFORNIA	341/510	1+10D
512	TEXAS	512/737	10D
513	OHIO	N/A	10D
514	CANADA, QUEBEC	263/438/514	10D
515	IOWA	N/A	10D
516	NEW YORK	N/A	10D
517	MICHIGAN	N/A	7D
518	NEW YORK	518/838	10D
519	CANADA, ONTARIO	226/382/519/548	10D
520	ARIZONA	N/A	10D
530	CALIFORNIA	N/A	1+10D
531	NEBRASKA	402/531	10D
534	WISCONSIN	534/715	10D
539	OKLAHOMA	539/918	10D
540	VIRGINIA	540/826	10D
541	OREGON	458/541	10D
548	CANADA, ONTARIO	226/382/519/548	10D
551	NEW JERSEY	201/551	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
*557	MISSOURI	314/557	10D
559	CALIFORNIA	N/A	7D
561	FLORIDA	N/A	10D
562	CALIFORNIA	N/A	1+10D
563	IOWA	N/A	7D
564	WASHINGTON	360/564	10D
567	OHIO	419/567	10D
570	PENNSYLVANIA	272/570	10D
571	VIRGINIA	571/703	10D
572	OKLAHOMA	405/572	10D
573	MISSOURI	N/A	7D
574	INDIANA	N/A	10D
575	NEW MEXICO	N/A	10D
579	CANADA, QUEBEC	354/450/579	10D
580	OKLAHOMA	N/A	7D
581	CANADA, QUEBEC	367/418/581	10D
582	PENNSYLVANIA	582/814	10D
*584	CANADA, MANITOBA	204/431/584	10D
585	NEW YORK	N/A	7D
586	MICHIGAN	N/A	7D
587	CANADA, ALBERTA	368/403/587/780/825	10D
601	MISSISSIPPI	601/769	10D
602	ARIZONA	N/A	7D
603	NEW HAMPSHIRE	N/A	10D
604	CANADA, BRITISH COLUMBIA	236/250/604/672/778	10D
605	SOUTH DAKOTA	N/A	10D
606	KENTUCKY	N/A	7D
607	NEW YORK	N/A	10D
608	WISCONSIN	N/A	10D
609	NEW JERSEY	609/640	10D
610	PENNSYLVANIA	484/610/835	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
612	MINNESOTA	N/A	7D
613	CANADA, ONTARIO	343/613/753	10D
614	OHIO	380/614	10D
615	TENNESSEE	615/629	10D
616	MICHIGAN	N/A	10D
617	MASSACHUSETTS	617/857	10D
618	ILLINOIS	N/A	10D
619	CALIFORNIA	619/858	1+10D
620	KANSAS	N/A	10D
623	ARIZONA	N/A	7D
626	CALIFORNIA	N/A	1+10D
628	CALIFORNIA	415/628	1+10D
629	TENNESSEE	615/629	10D
630	ILLINOIS	331/630	1+10D
631	NEW YORK	631/934	10D
636	MISSOURI	N/A	7D
639	CANADA, SASKATCHEWAN	306/474/639	10D
640	NEW JERSEY	609/640	10D
641	IOWA	N/A	7D
646	NEW YORK	212/332/646/917	1+10D
647	CANADA, ONTARIO	416/437/647	10D
649	TURKS & CAICOS ISLANDS	N/A	7D
650	CALIFORNIA	N/A	1+10D
651	MINNESOTA	N/A	7D
*656	FLORIDA	656/813	10D
657	CALIFORNIA	657/714	1+10D
658	JAMAICA	658/876	10D
659	ALABAMA	205/659	10D
660	MISSOURI	N/A	10D
661	CALIFORNIA	N/A	7D
662	MISSISSIPPI	N/A	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
664	MONTSERAT	N/A	7D
667	MARYLAND	410/443/667	10D
669	CALIFORNIA	408/669	1+10D
670	COMMONWEALTH OF NORTHERN MARIANA ISLANDS	N/A	7D
671	GUAM	N/A	10D
672	CANADA, BRITISH COLUMBIA	236/250/604/672/778	10D
678	GEORGIA	404/470/678/770/943	10D
680	NEW YORK	315/680	10D
681	WEST VIRGINIA	304/681	10D
682	TEXAS	682/817	10D
*683	CANADA, ONTARIO	249/683/705	10D
684	AMERICAN SAMOA	N/A	7D
689	FLORIDA	321/407/689	10D
701	NORTH DAKOTA	N/A	7D
702	NEVADA	702/725	10D
703	VIRGINIA	571/703	10D
704	NORTH CAROLINA	704/980	10D
705	CANADA, ONTARIO	249/683/705	10D
706	GEORGIA	706/762	10D
707	CALIFORNIA	N/A	1+10D
708	ILLINOIS	464/708	1+10D
709	CANADA, NEWFOUNDLAND AND LABRADOR	709/879	7D
712	IOWA	N/A	7D
713	TEXAS	281/346/713/832	10D
714	CALIFORNIA	657/714	1+10D
715	WISCONSIN	534/715	10D
716	NEW YORK	N/A	10D
717	PENNSYLVANIA	223/717	10D
718	NEW YORK	347/718/917/929	1+10D
719	COLORADO	N/A	10D
720	COLORADO	303/720/983	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
721	SINT MAARTEN	N/A	7D
724	PENNSYLVANIA	724/878	10D
725	NEVADA	702/725	10D
726	TEXAS	210/726	10D
727	FLORIDA	N/A	7D
731	TENNESSEE	N/A	10D
732	NEW JERSEY	732/848	10D
734	MICHIGAN	679/734	7D
737	TEXAS	512/737	10D
740	OHIO	220/740	10D
742	CANADA, ONTARIO	289/365/742/905	10D
743	NORTH CAROLINA	336/743	10D
747	CALIFORNIA	747/818	1+10D
*753	CANADA, ONTARIO	343/613/753	10D
754	FLORIDA	754/954	10D
757	VIRGINIA	757/948	10D
758	ST. LUCIA	N/A	7D
760	CALIFORNIA	442/760	1+10D
762	GEORGIA	706/762	10D
763	MINNESOTA	N/A	7D
765	INDIANA	N/A	7D
767	DOMINICA	N/A	7D
769	MISSISSIPPI	601/769	10D
770	GEORGIA	470/678/770/943	10D
771	DISTRICT OF COLUMBIA	202/771	10D
772	FLORIDA	N/A	7D
773	ILLINOIS	773/872	1+10D
774	MASSACHUSETTS	508/774	10D
775	NEVADA	N/A	10D
778	CANADA, BRITISH COLUMBIA	236/250/604/672/778	10D
779	ILLINOIS	779/815	1+10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
780	CANADA, ALBERTA	368/587/780/825	10D
781	MASSACHUSETTS	339/781	10D
782	CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	782/902	10D
784	ST. VINCENT & GRENADINES	N/A	7D
785	KANSAS	N/A	10D
786	FLORIDA	305/786	10D
787	PUERTO RICO	787/939	10D
801	UTAH	385/801	10D
802	VERMONT	N/A	10D
803	SOUTH CAROLINA	803/839	10D
804	VIRGINIA	N/A	10D
805	CALIFORNIA	805/820	1+10D
806	TEXAS	N/A	10D
807	CANADA, ONTARIO	N/A	7D
808	HAWAII	N/A	10D
809	DOMINICAN REPUBLIC	809/829/849	10D
810	MICHIGAN	N/A	10D
812	INDIANA	812/930	10D
813	FLORIDA	656/813	10D
814	PENNSYLVANIA	582/814	10D
815	ILLINOIS	779/815	1+10D
816	MISSOURI	N/A	10D
817	TEXAS	682/817	10D
818	CALIFORNIA	747/818	1+10D
819	CANADA, QUEBEC	468/819/873	10D
820	CALIFORNIA	805/820	1+10D
825	CANADA, ALBERTA	368/403/587/780/825	10D
*826	VIRGINIA	540/826	10D
828	NORTH CAROLINA	N/A	7D
829	DOMINICAN REPUBLIC	809/829/849	10D
830	TEXAS	N/A	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
831	CALIFORNIA	N/A	7D
832	TEXAS	281/346/713/832	10D
*835	PENNSYLVANIA	484/610/835	10D
838	NEW YORK	518/838	10D
839	SOUTH CAROLINA	803/839	10D
840	CALIFORNIA	840/909	1+10D
843	SOUTH CAROLINA	843/854	10D
845	NEW YORK	N/A	10D
847	ILLINOIS	224/847	1+10D
848	NEW JERSEY	732/848	10D
849	DOMINICAN REPUBLIC	809/829/849	10D
850	FLORIDA	448/850	10D
854	SOUTH CAROLINA	843/854	10D
856	NEW JERSEY	N/A	10D
857	MASSACHUSETTS	617/857	10D
858	CALIFORNIA	619/858	1+10D
859	KENTUCKY	N/A	10D
860	CONNECTICUT	860/959	10D
862	NEW JERSEY	862/973	10D
863	FLORIDA	N/A	7D
864	SOUTH CAROLINA	N/A	7D
865	TENNESSEE	N/A	10D
867	CANADA, , YUKON & NORTHWEST TERRITORIES & NUNAVUT	N/A	7D
868	TRINIDAD & TOBAGO	N/A	7D
869	ST. KITTS & NEVIS	N/A	7D
870	ARKANSAS	N/A	7D
872	ILLINOIS	312/773/872	1+10D
873	CANADA, QUEBEC	468/819/873	10D
876	JAMAICA	658/876	10D
878	PENNSYLVANIA	412/724/878	10D
901	TENNESSEE	N/A	7D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
902	CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	782/902	10D
903	TEXAS	430/903	10D
904	FLORIDA	N/A	7D
905	CANADA, ONTARIO	289/365/742/905	10D
906	MICHIGAN	N/A	10D
907	ALASKA	N/A	10D
908	NEW JERSEY	N/A	10D
909	CALIFORNIA	840/909	1+10D
910	NORH CAROLINA	472/910	10D
912	GEORGIA	N/A	10D
913	KANSAS	N/A	7D
914	NEW YORK	N/A	10D
915	TEXAS	N/A	10D
916	CALIFORNIA	279/916	1+10D
917	NEW YORK	212/332/646/917	1+10D
918	OKLAHOMA	539/918	10D
919	NORTH CAROLINA	919/984	10D
920	WISCONSIN	N/A	10D
925	CALIFORNIA	N/A	1+10D
928	ARIZONA	N/A	10D
929	NEW YORK	347/718/917/929	1+10D
930	INDIANA	812/930	10D
931	TENNESSEE	N/A	7D
934	NEW YORK	631/934	10D
936	TEXAS	N/A	7D
937	OHIO	326/937	10D
938	ALABAMA	256/938	10D
939	PUERTO RICO	787/939	10D
940	TEXAS	N/A	10D
941	FLORIDA	N/A	10D
*943	GEORGIA	404/470/678/770/943	10D

NPA	LOCATION	OVERLAY COMPLEX	LOCAL DIALING PLAN ³⁷
945	TEXAS	214/469/945/972	10D
947	MICHIGAN	248/947	10D
*948	VIRGINIA	757/948	10D
949	CALIFORNIA	N/A	1+10D
951	CALIFORNIA	N/A	1+10D
952	MINNESOTA	N/A	10D
954	FLORIDA	754/954	10D
956	TEXAS	N/A	7D
959	CONNECTICUT	860/959	10D
970	COLORADO	N/A	10D
971	OREGON	503/971	10D
972	TEXAS	214/469/945/972	10D
973	NEW JERSEY	862/973	10D
978	MASSACHUSETTS	351/978	10D
979	TEXAS	N/A	7D
980	NORTH CAROLINA	704/980	10D
*983	COLORADO	303/720/983	10D
984	NORTH CAROLINA	919/984	10D
985	LOUISIANA	N/A	7D
986	IDAHO	208/986	10D
989	MICHIGAN	N/A	10D

ATTACHMENT 3

Non-Geographic NPAs In Service

The table below lists the non-geographic NPAs in service as of December 31, 2022, along with the service for which each is used.

NPA	Service
500	Non-Geographic Services
521	Non-Geographic Services
522	Non-Geographic Services
523	Non-Geographic Services
524	Non-Geographic Services
525	Non-Geographic Services
526	Non-Geographic Services
527	Non-Geographic Services
528	Non-Geographic Services
529	Non-Geographic Services
533	Non-Geographic Services
544	Non-Geographic Services
566	Non-Geographic Services
577	Non-Geographic Services
588	Non-Geographic Services
600	Canadian Non-Geographic Tariffed Services
622	Canadian Non-Geographic Services
700	Interexchange Carrier Services
710	US Government
800	Toll-Free
833	Toll-Free
844	Toll-Free
855	Toll-Free
866	Toll-Free
877	Toll-Free
888	Toll-Free
900	Premium Services

NPA codes 500, 521, 522, 523, 524, 525, 526, 527, 528, 529, 533, 544, 566, 577, and 588 (5XX-NXX codes) are used for applications which are non-geographic in nature, are not assigned to rate centers and may or may not traverse the Public Switched Telephone Network (PSTN), but do require an E.164 addressing scheme. The use of this NANP numbering resource is to communicate with both fixed and mobile devices, some of which may be unattended. This resource may be used for applications enabling machines, which would include but not be limited to wireless devices and appliances, with the ability to share information with back-office control and database systems and with the people that use them. Service is limited only by terminal and network capabilities and restrictions imposed by the service provider. NPA codes 532, 535, 538, 542, 543, 545, 546, 547, 549, 550, 552, 553, 554, 556, 558, 569, 578, and 589 have been reserved for future use.

NPA code 600 is used within Canada and assigned to Canadian telecommunications service providers in the provisioning of non-geographic, tariffed services. NPA code 622 is used for applications in Canada which are non-geographic in nature, are not assigned to rate centers and may or may not traverse the Public Switched Telephone Network (PSTN), but do require an E.164 addressing scheme. The use of this NANP numbering resource is to communicate with both fixed and mobile devices, some of which may be unattended. This resource may also be used for applications enabling machines, which would include but not be limited to wireless devices and appliances, with the ability to share information with back-office control and data base systems and the people that use them. Service is limited only by terminal and network capabilities and restrictions imposed by the service provider. NPA codes 633, 644, 655, 677 and 688 have been designated for this use.

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 U.S. Government.

NPA codes 800, 833, 844, 855, 866, 877, and 888 are used as toll-free codes. NPA code 822 has been assigned for future use as a toll-free code and will be introduced when needed.

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

ATTACHMENT 4

NPA Dialing Plans By Location/NPA

As of December 31, 2022

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
ALABAMA	205	10D	1+10D	10D	1+10D
ALABAMA	251	10D	1+10D	10D	1+10D
ALABAMA	256	10D	1+10D	10D	1+10D
ALABAMA	334	7D	1+10D	10D	1+10D
ALABAMA	659	10D	1+10D	10D	1+10D
ALABAMA	938	10D	1+10D	10D	1+10D
ALASKA	907	10D	1+10D	NA	1+10D
AMERICAN SAMOA	684	7D	NA	NA	1+10D
ANGUILLA	264	7D	1+10D	NA	1+10D
ANTIGUA/BARBUDA	268	7D	1+10D	NA	1+10D
ARIZONA	480	10D	1+10D	10D	1+10D
ARIZONA	520	10D	1+10D	10D	1+10D
ARIZONA	602	7D	1+10D	10D	1+10D
ARIZONA	623	7D	1+10D	10D	1+10D
ARIZONA	928	10D	1+10D	10D	1+10D
ARKANSAS	479	7D	1+10D	10D	1+10D
ARKANSAS	501	10D	1+10D	10D	1+10D
ARKANSAS	870	7D	1+10D	10D	1+10D
BAHAMAS	242	7D	1+10D	NA	1+10D
BARBADOS	246	7D	1+10D	NA	1+10D
BERMUDA	441	7D	1+10D	NA	1+10D
BRITISH VIRGIN ISLANDS	284	7D	1+10D	NA	1+10D
CALIFORNIA	209	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	213	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	279	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	310	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	323	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	341	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	350	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	408	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	415	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	424	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	442	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	510	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	530	1+10D	1+10D	1+10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
CALIFORNIA	559	7D	7D	1+10D	1+10D
CALIFORNIA	562	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	619	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	626	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	628	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	650	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	657	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	661	7D	7D	1+10D	1+10D
CALIFORNIA	669	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	707	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	714	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	747	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	760	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	805	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	818	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	820	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	831	7D	7D	1+10D	1+10D
CALIFORNIA	840	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	858	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	909	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	916	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	925	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	949	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	951	1+10D	1+10D	1+10D	1+10D
CANADA, ALBERTA	368	10D	1+10D	10D	1+10D
CANADA, ALBERTA	403	10D	1+10D	10D	1+10D
CANADA, ALBERTA	587	10D	1+10D	10D	1+10D
CANADA, ALBERTA	780	10D	1+10D	10D	1+10D
CANADA, ALBERTA	825	10D	1+10D	10D	1+10D
CANADA, BRITISH COLUMBIA	236	10D	1+10D	10D	1+10D
CANADA, BRITISH COLUMBIA	250	10D	1+10D	10D	1+10D
CANADA, BRITISH COLUMBIA	604	10D	1+10D	10D	1+10D
CANADA, BRITISH COLUMBIA	672	10D	1+10D	10D	1+10D
CANADA, BRITISH COLUMBIA	778	10D	1+10D	10D	1+10D
CANADA, MANITOBA	204	10D	1+10D	10D	1+10D
CANADA, MANITOBA	431	10D	1+10D	10D	1+10D
CANADA, MANITOBA	584	10D	1+10D	10D	1+10D
CANADA, NEW BRUNSWICK	506	7D	1+10D	7D	1+10D
CANADA, NEWFOUNDLAND AND LABRADOR	709	7D	1+10D	7D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	782	10D	1+10D	10D	1+10D
CANADA, NOVA SCOTIA - PRINCE EDWARD ISLAND	902	10D	1+10D	10D	1+10D
CANADA, ONTARIO	226	10D	1+10D	10D	1+10D
CANADA, ONTARIO	249	10D	1+10D	10D	1+10D
CANADA, ONTARIO	289	10D	1+10D	10D	1+10D
CANADA, ONTARIO	343	10D	1+10D	10D	1+10D
CANADA, ONTARIO	365	10D	1+10D	10D	1+10D
CANADA, ONTARIO	416	10D	1+10D	10D	1+10D
CANADA, ONTARIO	437	10D	1+10D	10D	1+10D
CANADA, ONTARIO	519	10D	1+10D	10D	1+10D
CANADA, ONTARIO	548	10D	1+10D	10D	1+10D
CANADA, ONTARIO	613	10D	1+10D	10D	1+10D
CANADA, ONTARIO	647	10D	1+10D	10D	1+10D
CANADA, ONTARIO	683	10D	1+10D	10D	1+10D
CANADA, ONTARIO	705	10D	1+10D	10D	1+10D
CANADA, ONTARIO	742	10D	1+10D	10D	1+10D
CANADA, ONTARIO	753	10D	1+10D	10D	1+10D
CANADA, ONTARIO	807	7D	1+10D	7D	1+10D
CANADA, ONTARIO	905	10D	1+10D	10D	1+10D
CANADA, QUEBEC	263	10D	1+10D	10D	1+10D
CANADA, QUEBEC	354	10D	1+10D	10D	1+10D
CANADA, QUEBEC	367	10D	1+10D	10D	1+10D
CANADA, QUEBEC	418	10D	1+10D	10D	1+10D
CANADA, QUEBEC	438	10D	1+10D	10D	1+10D
CANADA, QUEBEC	450	10D	1+10D	10D	1+10D
CANADA, QUEBEC	468	10D	1+10D	10D	1+10D
CANADA, QUEBEC	514	10D	1+10D	10D	1+10D
CANADA, QUEBEC	579	10D	1+10D	10D	1+10D
CANADA, QUEBEC	581	10D	1+10D	10D	1+10D
CANADA, QUEBEC	819	10D	1+10D	10D	1+10D
CANADA, QUEBEC	873	10D	1+10D	10D	1+10D
CANADA, SASKATCHEWAN	306	10D	1+10D	10D	1+10D
CANADA, SASKATCHEWAN	474	10D	1+10D	10D	1+10D
CANADA, SASKATCHEWAN	639	10D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
CANADA, YUKON-NW TERR. - NUNAVUT	867	7D	1+10D	7D	1+10D
CAYMAN ISLANDS	345	7D	1+10D	NA	1+10D
COLORADO	303	10D	1+10D	10D	1+10D
COLORADO	719	10D	1+10D	10D	1+10D
COLORADO	720	10D	1+10D	10D	1+10D
COLORADO	970	10D	1+10D	10D	1+10D
COLORADO	983	10D	1+10D	10D	1+10D
COMMONWEALTH OF NORTHERN MARIANA ISLANDS (CNMI)	670	7D	1+10D	NA	1+10D
CONNECTICUT	203	10D	1+10D	10D	1+10D
CONNECTICUT	475	10D	1+10D	10D	1+10D
CONNECTICUT	860	10D	1+10D	10D	1+10D
CONNECTICUT	959	10D	1+10D	10D	1+10D
DELAWARE	302	10D	1+10D	10D	1+10D
DISTRICT OF COLUMBIA	202	10D	1+10D	10D	1+10D
DISTRICT OF COLUMBIA	771	10D	1+10D	10D	1+10D
DOMINICA	767	7D	1+10D	NA	1+10D
DOMINICAN REPUBLIC	809	10D	1+10D	10D	1+10D
DOMINICAN REPUBLIC	829	10D	1+10D	10D	1+10D
DOMINICAN REPUBLIC	849	10D	1+10D	10D	1+10D
FLORIDA	239	7D	1+10D	10D	1+10D
FLORIDA	305	10D	1+10D	10D	1+10D
FLORIDA	321	10D	1+10D	10D	1+10D
FLORIDA	352	10D	1+10D	10D	1+10D
FLORIDA	386	7D	1+10D	10D	1+10D
FLORIDA	407	10D	1+10D	10D	1+10D
FLORIDA	448	10D	1+10D	10D	1+10D
FLORIDA	561	10D	1+10D	10D	1+10D
FLORIDA	656	10D	1+10D	10D	1+10D
FLORIDA	689	10D	1+10D	10D	1+10D
FLORIDA	727	7D	1+10D	10D	1+10D
FLORIDA	754	10D	1+10D	10D	1+10D
FLORIDA	772	7D	1+10D	10D	1+10D
FLORIDA	786	10D	1+10D	10D	1+10D
FLORIDA	813	10D	1+10D	10D	1+10D
FLORIDA	850	10D	1+10D	10D	1+10D
FLORIDA	863	7D	1+10D	10D	1+10D
FLORIDA	904	7D	1+10D	10D	1+10D
FLORIDA	941	10D	1+10D	10D	1+10D
FLORIDA	954	10D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
GEORGIA	229	7D	1+10D	10D	1+10D
GEORGIA	404	10D	1+10D	10D	1+10D
GEORGIA	470	10D	1+10D	10D	1+10D
GEORGIA	478	10D	1+10D	10D	1+10D
GEORGIA	678	10D	1+10D	10D	1+10D
GEORGIA	706	10D	1+10D	10D	1+10D
GEORGIA	762	10D	1+10D	10D	1+10D
GEORGIA	770	10D	1+10D	10D	1+10D
GEORGIA	912	10D	1+10D	10D	1+10D
GEORGIA	943	10D	1+10D	10D	1+10D
GRENADA	473	7D	1+10D	NA	1+10D
GUAM	671	10D	1+10D	NA	1+10D
HAWAII	808	10D	1+10D	NA	1+10D
IDAHO	208	10D	1+10D	10D	1+10D
IDAHO	986	10D	1+10D	10D	1+10D
ILLINOIS	217	10D	1+10D	10D	1+10D
ILLINOIS	224	1+10D	1+10D	1+10D	1+10D
ILLINOIS	309	10D	1+10D	10D	1+10D
ILLINOIS	312	1+10D	1+10D	1+10D	1+10D
ILLINOIS	331	1+10D	1+10D	1+10D	1+10D
ILLINOIS	447	10D	1+10D	10D	1+10D
ILLINOIS	464	1+10D	1+10D	1+10D	1+10D
ILLINOIS	618	10D	1+10D	10D	1+10D
ILLINOIS	630	1+10D	1+10D	1+10D	1+10D
ILLINOIS	708	1+10D	1+10D	1+10D	1+10D
ILLINOIS	773	1+10D	1+10D	1+10D	1+10D
ILLINOIS	779	1+10D	1+10D	1+10D	1+10D
ILLINOIS	815	1+10D	1+10D	1+10D	1+10D
ILLINOIS	847	1+10D	1+10D	1+10D	1+10D
ILLINOIS	872	1+10D	1+10D	1+10D	1+10D
INDIANA	219	10D	1+10D	10D	1+10D
INDIANA	260	7D	1+10D	10D	1+10D
INDIANA	317	10D	1+10D	10D	1+10D
INDIANA	463	10D	1+10D	10D	1+10D
INDIANA	574	10D	1+10D	10D	1+10D
INDIANA	765	7D	1+10D	10D	1+10D
INDIANA	812	10D	1+10D	10D	1+10D
INDIANA	930	10D	1+10D	10D	1+10D
IOWA	319	10D	1+10D	10D	1+10D
IOWA	515	10D	1+10D	10D	1+10D
IOWA	563	7D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
IOWA	641	7D	1+10D	10D	1+10D
IOWA	712	7D	1+10D	10D	1+10D
JAMAICA	658	10D	10D	1+10D	1+10D
JAMAICA	876	10D	10D	1+10D	1+10D
KANSAS	316	7D	1+10D	10D	1+10D
KANSAS	620	10D	1+10D	10D	1+10D
KANSAS	785	10D	1+10D	10D	1+10D
KANSAS	913	7D	1+10D	10D	1+10D
KENTUCKY	270	10D	1+10D	10D	1+10D
KENTUCKY	364	10D	1+10D	10D	1+10D
KENTUCKY	502	7D	1+10D	7D	1+10D
KENTUCKY	606	7D	1+10D	10D	1+10D
KENTUCKY	859	10D	1+10D	10D	1+10D
LOUISIANA	225	7D	1+10D	10D	1+10D
LOUISIANA	318	7D	1+10D	10D	1+10D
LOUISIANA	337	10D	1+10D	10D	1+10D
LOUISIANA	504	10D	1+10D	10D	1+10D
LOUISIANA	985	7D	1+10D	10D	1+10D
MAINE	207	7D	7D	1+10D	1+10D
MARYLAND	240	10D	1+10D	10D	1+10D
MARYLAND	301	10D	1+10D	10D	1+10D
MARYLAND	410	10D	1+10D	10D	1+10D
MARYLAND	443	10D	1+10D	10D	1+10D
MARYLAND	667	10D	1+10D	10D	1+10D
MASSACHUSETTS	339	10D	1+10D	10D	1+10D
MASSACHUSETTS	351	10D	1+10D	10D	1+10D
MASSACHUSETTS	413	7D	1+10D	10D	1+10D
MASSACHUSETTS	508	10D	1+10D	10D	1+10D
MASSACHUSETTS	617	10D	1+10D	10D	1+10D
MASSACHUSETTS	774	10D	1+10D	10D	1+10D
MASSACHUSETTS	781	10D	1+10D	10D	1+10D
MASSACHUSETTS	857	10D	1+10D	10D	1+10D
MASSACHUSETTS	978	10D	1+10D	10D	1+10D
MICHIGAN	231	7D	1+10D	10D	1+10D
MICHIGAN	248	10D	1+10D	10D	1+10D
MICHIGAN	269	7D	1+10D	10D	1+10D
MICHIGAN	313	7D	1+10D	10D	1+10D
MICHIGAN	517	7D	1+10D	10D	1+10D
MICHIGAN	586	7D	1+10D	10D	1+10D
MICHIGAN	616	10D	1+10D	10D	1+10D
MICHIGAN	734	7D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
MICHIGAN	810	10D	1+10D	10D	1+10D
MICHIGAN	906	10D	1+10D	10D	1+10D
MICHIGAN	947	10D	1+10D	10D	1+10D
MICHIGAN	989	10D	1+10D	10D	1+10D
MINNESOTA	218	10D	1+10D	10D	1+10D
MINNESOTA	320	7D	1+10D	7D	1+10D
MINNESOTA	507	7D	1+10D	7D	1+10D
MINNESOTA	612	7D	1+10D	10D	1+10D
MINNESOTA	651	7D	1+10D	10D	1+10D
MINNESOTA	763	7D	1+10D	10D	1+10D
MINNESOTA	952	10D	1+10D	10D	1+10D
MISSISSIPPI	228	7D	1+10D	10D	1+10D
MISSISSIPPI	601	10D	1+10D	10D	1+10D
MISSISSIPPI	662	10D	1+10D	10D	1+10D
MISSISSIPPI	769	10D	1+10D	10D	1+10D
MISSOURI	314	10D	1+10D	10D	1+10D
MISSOURI	417	10D	1+10D	10D	1+10D
MISSOURI	557	10D	1+10D	10D	1+10D
MISSOURI	573	7D	1+10D	10D	1+10D
MISSOURI	636	7D	1+10D	10D	1+10D
MISSOURI	660	10D	1+10D	10D	1+10D
MISSOURI	816	10D	1+10D	10D	1+10D
MONTANA	406	10D	1+10D	10D	1+10D
MONTERRAT	664	7D	1+10D	NA	1+10D
NEBRASKA	308	7D	1+10D	7D	1+10D
NEBRASKA	402	10D	1+10D	10D	1+10D
NEBRASKA	531	10D	1+10D	10D	1+10D
NEVADA	702	10D	1+10D	10D	1+10D
NEVADA	725	10D	1+10D	10D	1+10D
NEVADA	775	10D	1+10D	10D	1+10D
NEW HAMPSHIRE	603	10D	1+10D	10D	1+10D
NEW JERSEY	201	10D	10D	1+10D	1+10D
NEW JERSEY	551	10D	10D	1+10D	1+10D
NEW JERSEY	609	10D	10D	1+10D	1+10D
NEW JERSEY	640	10D	10D	1+10D	1+10D
NEW JERSEY	732	10D	10D	1+10D	1+10D
NEW JERSEY	848	10D	10D	1+10D	1+10D
NEW JERSEY	856	10D	10D	1+10D	1+10D
NEW JERSEY	862	10D	10D	1+10D	1+10D
NEW JERSEY	908	10D	10D	1+10D	1+10D
NEW JERSEY	973	10D	10D	1+10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
NEW MEXICO	505	10D	1+10D	10D	1+10D
NEW MEXICO	575	10D	1+10D	10D	1+10D
NEW YORK	212	1+10D	1+10D	1+10D	1+10D
NEW YORK	315	10D	10D	1+10D	1+10D
NEW YORK	332	1+10D	1+10D	1+10D	1+10D
NEW YORK	347	1+10D	1+10D	1+10D	1+10D
NEW YORK	516	10D	10D	1+10D	1+10D
NEW YORK	518	10D	10D	1+10D	1+10D
NEW YORK	585	7D	7D	1+10D	1+10D
NEW YORK	607	10D	10D	1+10D	1+10D
NEW YORK	631	10D	10D	1+10D	1+10D
NEW YORK	646	1+10D	1+10D	1+10D	1+10D
NEW YORK	680	10D	10D	1+10D	1+10D
NEW YORK	716	10D	10D	1+10D	1+10D
NEW YORK	718	1+10D	1+10D	1+10D	1+10D
NEW YORK	838	10D	10D	1+10D	1+10D
NEW YORK	845	10D	10D	1+10D	1+10D
NEW YORK	914	10D	10D	1+10D	1+10D
NEW YORK	917	1+10D	1+10D	1+10D	1+10D
NEW YORK	929	1+10D	1+10D	1+10D	1+10D
NEW YORK	934	10D	10D	1+10D	1+10D
NORTH CAROLINA	252	7D	1+10D	10D	1+10D
NORTH CAROLINA	336	10D	1+10D	10D	1+10D
NORTH CAROLINA	472	10D	1+10D	10D	1+10D
NORTH CAROLINA	704	10D	1+10D	10D	1+10D
NORTH CAROLINA	743	10D	1+10D	10D	1+10D
NORTH CAROLINA	828	7D	1+10D	10D	1+10D
NORTH CAROLINA	910	10D	1+10D	10D	1+10D
NORTH CAROLINA	919	10D	1+10D	10D	1+10D
NORTH CAROLINA	980	10D	1+10D	10D	1+10D
NORTH CAROLINA	984	10D	1+10D	10D	1+10D
NORTH DAKOTA	701	7D	1+10D	7D	1+10D
OHIO	216	7D	1+10D	10D	1+10D
OHIO	220	10D	1+10D	10D	1+10D
OHIO	234	10D	1+10D	10D	1+10D
OHIO	326	10D	1+10D	10D	1+10D
OHIO	330	10D	1+10D	10D	1+10D
OHIO	380	10D	1+10D	10D	1+10D
OHIO	419	10D	1+10D	10D	1+10D
OHIO	440	10D	1+10D	10D	1+10D
OHIO	513	10D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
OHIO	567	10D	1+10D	10D	1+10D
OHIO	614	10D	1+10D	10D	1+10D
OHIO	740	10D	1+10D	10D	1+10D
OHIO	937	10D	1+10D	10D	1+10D
OKLAHOMA	405	10D	1+10D	10D	1+10D
OKLAHOMA	539	10D	1+10D	10D	1+10D
OKLAHOMA	572	10D	1+10D	10D	1+10D
OKLAHOMA	580	7D	1+10D	7D	1+10D
OKLAHOMA	918	10D	1+10D	10D	1+10D
OREGON	458	10D	1+10D	10D	1+10D
OREGON	503	10D	1+10D	10D	1+10D
OREGON	541	10D	1+10D	10D	1+10D
OREGON	971	10D	1+10D	10D	1+10D
PENNSYLVANIA	215	10D	10D	1+10D	1+10D
PENNSYLVANIA	223	10D	10D	1+10D	1+10D
PENNSYLVANIA	267	10D	10D	1+10D	1+10D
PENNSYLVANIA	272	10D	10D	1+10D	1+10D
PENNSYLVANIA	412	10D	10D	1+10D	1+10D
PENNSYLVANIA	445	10D	10D	1+10D	1+10D
PENNSYLVANIA	484	10D	10D	1+10D	1+10D
PENNSYLVANIA	570	10D	10D	1+10D	1+10D
PENNSYLVANIA	582	10D	10D	1+10D	1+10D
PENNSYLVANIA	610	10D	10D	1+10D	1+10D
PENNSYLVANIA	717	10D	10D	1+10D	1+10D
PENNSYLVANIA	724	10D	10D	1+10D	1+10D
PENNSYLVANIA	814	10D	10D	1+10D	1+10D
PENNSYLVANIA	835	10D	10D	1+10D	1+10D
PENNSYLVANIA	878	10D	10D	1+10D	1+10D
PUERTO RICO	787	10D	1+10D	NA	1+10D
PUERTO RICO	939	10D	1+10D	NA	1+10D
RHODE ISLAND	401	7D	7D	1+10D	1+10D
SINT MAARTEN	721	7D	NA	NA	1+10D
SOUTH CAROLINA	803	10D	1+10D	10D	1+10D
SOUTH CAROLINA	839	10D	1+10D	10D	1+10D
SOUTH CAROLINA	843	10D	1+10D	10D	1+10D
SOUTH CAROLINA	854	10D	1+10D	10D	1+10D
SOUTH CAROLINA	864	7D	1+10D	10D	1+10D
SOUTH DAKOTA	605	10D	1+10D	10D	1+10D
ST. KITTS & NEVIS	869	7D	1+10D	NA	1+10D
ST. LUCIA	758	7D	1+10D	NA	1+10D
ST. VINCENT & GRENADINES	784	7D	1+10D	NA	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
TENNESSEE	423	7D	1+10D	10D	1+10D
TENNESSEE	615	10D	1+10D	10D	1+10D
TENNESSEE	629	10D	1+10D	10D	1+10D
TENNESSEE	731	10D	1+10D	10D	1+10D
TENNESSEE	865	10D	1+10D	10D	1+10D
TENNESSEE	901	7D	1+10D	10D	1+10D
TENNESSEE	931	7D	1+10D	7D	1+10D
TEXAS	210	10D	1+10D	10D	1+10D
TEXAS	214	10D	1+10D	10D	1+10D
TEXAS	254	10D	1+10D	10D	1+10D
TEXAS	281	10D	1+10D	10D	1+10D
TEXAS	325	7D	1+10D	10D	1+10D
TEXAS	346	10D	1+10D	10D	1+10D
TEXAS	361	10D	1+10D	10D	1+10D
TEXAS	409	10D	1+10D	10D	1+10D
TEXAS	430	10D	1+10D	10D	1+10D
TEXAS	432	7D	1+10D	10D	1+10D
TEXAS	469	10D	1+10D	10D	1+10D
TEXAS	512	10D	1+10D	10D	1+10D
TEXAS	682	10D	1+10D	10D	1+10D
TEXAS	713	10D	1+10D	10D	1+10D
TEXAS	726	10D	1+10D	10D	1+10D
TEXAS	737	10D	1+10D	10D	1+10D
TEXAS	806	10D	1+10D	10D	1+10D
TEXAS	817	10D	1+10D	10D	1+10D
TEXAS	830	10D	1+10D	10D	1+10D
TEXAS	832	10D	1+10D	10D	1+10D
TEXAS	903	10D	1+10D	10D	1+10D
TEXAS	915	10D	1+10D	10D	1+10D
TEXAS	936	7D	1+10D	10D	1+10D
TEXAS	940	10D	1+10D	10D	1+10D
TEXAS	945	10D	1+10D	10D	1+10D
TEXAS	956	7D	1+10D	10D	1+10D
TEXAS	972	10D	1+10D	10D	1+10D
TEXAS	979	7D	1+10D	10D	1+10D
TRINIDAD & TOBAGO	868	7D	1+10D	NA	1+10D
TURKS & CAICOS ISLANDS	649	7D	1+10D	NA	1+10D
U.S. VIRGIN ISLANDS	340	7D	1+10D	NA	1+10D
UTAH	385	10D	1+10D	10D	1+10D
UTAH	435	7D	1+10D	7D	1+10D
UTAH	801	10D	1+10D	10D	1+10D

Location	NPA	Standard HNPA LOCAL	Standard HNPA TOLL	Standard FNPA LOCAL	Standard FNPA TOLL
VERMONT	802	10D	1+10D	10D	1+10D
VIRGINIA	276	10D	1+10D	10D	1+10D
VIRGINIA	434	7D	1+10D	10D	1+10D
VIRGINIA	540	10D	1+10D	10D	1+10D
VIRGINIA	571	10D	1+10D	10D	1+10D
VIRGINIA	703	10D	1+10D	10D	1+10D
VIRGINIA	757	10D	1+10D	10D	1+10D
VIRGINIA	804	10D	1+10D	10D	1+10D
VIRGINIA	826	10D	1+10D	10D	1+10D
VIRGINIA	948	10D	1+10D	10D	1+10D
WASHINGTON	206	10D	1+10D	10D	1+10D
WASHINGTON	253	10D	1+10D	10D	1+10D
WASHINGTON	360	10D	1+10D	10D	1+10D
WASHINGTON	425	10D	1+10D	10D	1+10D
WASHINGTON	509	10D	1+10D	10D	1+10D
WASHINGTON	564	10D	1+10D	10D	1+10D
WEST VIRGINIA	304	10D	1+10D	10D	1+10D
WEST VIRGINIA	681	10D	1+10D	10D	1+10D
WISCONSIN	262	10D	1+10D	1+10D	1+10D
WISCONSIN	414	10D	1+10D	1+10D	1+10D
WISCONSIN	534	10D	1+10D	10D	1+10D
WISCONSIN	608	10D	1+10D	10D	1+10D
WISCONSIN	715	10D	1+10D	10D	1+10D
WISCONSIN	920	10D	1+10D	10D	1+10D
WYOMING	307	7D	1+10D	7D	1+10D

ATTACHMENT 5

2022 Aggregated Total by Pool of the Service Providers Participating in the Pooled Areas

NPA	POOLED OCNs	POOLED RATE CENTERS
201/551	63	22
202/771	52	1
203/475	44	32
205/659	64	70
206	56	5
207	63	245
208/986	74	145
209/350	54	58
210/726	54	1
212/332/646/917	78	1
213/323	58	15
214/469/945/972	82	43
215/267/445	72	36
216	49	4
217/447	55	240
218	64	143
219	42	45
220/740	54	187
223/717	67	107
224/847	47	40
225	43	34
228	42	11
229	45	82
231	50	96
234/330	59	116
239	41	11
240/301	70	63
248/947	47	20
251	50	35
252	47	90
253	39	10
254	56	105
256/938	59	91
260	44	76
262	44	60
269	49	76
270/364	65	170

NPA	POOLED OCNs	POOLED RATE CENTERS
272/570	68	180
276	49	78
279/916	53	16
281/346/713/832	72	45
302	43	30
303/720/983	64	13
304/681	58	224
305/786	62	5
307	38	63
308	39	170
309	57	151
310/424	51	16
312/872	57	1
313	52	6
314/557	44	7
315/680	64	149
316	44	14
317/463	52	36
318	45	117
319	52	109
320	61	143
321	39	5
321/407/689	66	17
325	43	61
326/937	59	123
331/630	46	25
334	52	83
336/743	68	85
337	43	70
339/781	44	40
341/510	45	13
347/718/917/929	70	13
351/978	46	58
352	49	48
360/564	63	75
361	53	68
380/614	53	16

NPA	POOLED OCNs	POOLED RATE CENTERS
385/801	46	20
386	49	33
401	39	25
402/531	71	281
404/470/678/943	59	1
405/572	53	83
406	55	260
408/669	55	11
409	48	48
410/443/667	67	102
412/878	56	23
413	51	63
414	39	4
415/628	58	14
417	55	155
419/567	60	179
423	58	71
425	40	14
430/903	61	180
432	37	45
434	43	66
435	45	75
440	48	62
442/760	59	84
448/850	50	63
458/541	57	155
464/708	44	31
470/678/770/943	65	41
472/910	53	80
478	50	42
479	36	66
480	40	1
484/610/835	68	90
501	44	61
502	50	35
503/971	58	62
504	43	5
505	51	33
507	61	195
508/774	49	85
509	71	119

NPA	POOLED OCNs	POOLED RATE CENTERS
512/737	63	35
513	48	25
515	59	75
516	61	11
517	65	78
518/838	79	135
520	48	27
530	59	117
534/715	93	253
539/918	62	149
540/826	62	117
559	48	57
561	51	7
562	48	9
563	47	86
571/703	56	19
573	57	216
574	48	57
575	44	63
580	46	144
582/814	65	178
585	56	77
586	43	11
601/769	56	103
602	35	1
603	51	148
605	53	113
606	48	103
607	59	105
608	73	159
609/640	61	39
612	51	1
615/629	59	49
616	57	36
617/857	58	20
618	51	212
619/858	50	19
620	72	201
623	32	1
626	50	10
631/934	59	53

NPA	POOLED OCNs	POOLED RATE CENTERS
636	43	46
641	53	182
650	46	15
651	51	12
656/813	60	8
657/714	50	13
660	54	224
661	53	32
662	56	122
682/817	57	24
701	56	129
702/725	52	16
704/980	62	55
706/762	76	106
707	55	75
712	69	182
716	65	79
719	53	61
724/878	60	162
727	46	5
731	49	64
732/848	56	36
734	54	33
747/818	47	16
754/954	52	5
757/948	44	34
763	52	10
765	60	138
772	46	8
773/872	49	10
775	46	58
779/815	67	192
785	62	204
787/939	18	84
802	40	141
803/839	64	81
804	49	55
805/820	58	40
806	48	127
808	33	6
810	44	47

NPA	POOLED OCNs	POOLED RATE CENTERS
812/930	69	171
816	56	73
828	54	73
830	55	85
831	46	24
840/909	53	21
843/854	54	90
845	78	96
856	60	32
859	52	42
860/959	44	57
862/973	76	41
863	53	22
864	54	64
865	52	33
870	49	208
901	51	14
904	52	19
906	29	93
907	25	260
908	60	38
912	59	55
913	52	34
914	63	28
915	38	11
919/984	60	38
920	71	126
925	45	17
928	53	86
931	52	88
936	51	68
940	62	79
941	50	11
949	50	7
951	49	20
952	48	3
956	48	34
970	50	94
979	58	52
985	38	45
989	58	135

ATTACHMENT 6

National Routing Number Administration

2022 p-ANI Activity and Projected Exhaust Report

The tables found herein contain the *P-ANI Activity and Projected Exhaust Report* projected exhaust information detail based on data as of December 31, 2022, as follows and referenced in Section 6.2.5 of the TRD:

Table A6-1: Projected Exhaust of 211/511 p-ANIs by NPA

Table A6-2: Projected Exhaust of 211/511 p-ANIs by State

Table A6-3: Projected Exhaust of 211/511 p-ANIs by Year

NOTE: "N/A" for exhaust date and quarter indicates there is no forecasted demand so no exhaust date can be calculated.

Table A6-1
Projected Exhaust of 211/511 p-ANIs by NPA

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
201	NJ	7,870	50	2259	3
202	DC	446	0	N/A	N/A
203	CT	6,438	500	2043	1
205	AL	5,570	275	2068	2
206	WA	1,262	0	N/A	N/A
207	ME	6,971	25	2537	1
208	ID	5,592	100	2160	1
209	CA	5,245	0	N/A	N/A
210	TX	6,834	12	3113	1
212	NY	5,185	50	2312	2
213	CA	2,694	0	N/A	N/A
214	TX	7,663	0	N/A	N/A
215	PA	1,457	25	2758	3
216	OH	1,170	10	3899	1
217	IL	5,231	25	2607	4
218	MN	3,527	290	2073	4
219	IN	3,353	212	2095	3
220	OH	50	0	N/A	N/A
223	PA	50	0	N/A	N/A
224	IL	7,865	0	N/A	N/A
225	LA	1,571	0	N/A	N/A
228	MS	2,130	18	3009	4
229	GA	3,398	12	3400	3

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
231	MI	3,932	18	2909	3
234	OH	305	0	N/A	N/A
239	FL	1,158	0	N/A	N/A
240	MD	528	0	N/A	N/A
248	MI	5,977	190	2090	4
251	AL	1,756	0	N/A	N/A
252	NC	4,724	0	N/A	N/A
253	WA	693	0	N/A	N/A
254	TX	7,615	50	2264	3
256	AL	3,505	50	2346	4
260	IN	1,901	298	2077	3
262	WI	330	0	N/A	N/A
267	PA	50	0	N/A	N/A
269	MI	1,728	18	3031	1
270	KY	4,491	130	2135	2
272	PA	145	0	N/A	N/A
276	VA	2,117	56	2335	2
279	CA	50	0	N/A	N/A
281	TX	10,932	44	2222	1
301	MD	1,281	50	2390	2
302	DE	1,799	0	N/A	N/A
303	CO	4,437	12	3313	4
304	WV	8,826	236	2063	2
305	FL	1,908	0	N/A	N/A
307	WY	3,767	45	2377	3
308	NE	3,360	985	2033	4
309	IL	4,530	111	2155	2
310	CA	2,730	0	N/A	N/A
312	IL	4,276	0	N/A	N/A
313	MI	684	6	5235	2
314	MO	10,268	108	2106	1
315	NY	7,567	64	2210	2
316	KS	5,355	220	2083	3
317	IN	3,961	30	2551	3
318	LA	3,687	0	N/A	N/A
319	IA	1,361	100	2202	2
320	MN	932	54	2369	1
321	FL	2,187	0	N/A	N/A
323	CA	3,444	50	2347	1
325	TX	7,705	0	N/A	N/A
326	OH	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
330	OH	7,312	60	2227	2
331	IL	75	0	N/A	N/A
332	NY	50	0	N/A	N/A
334	AL	5,118	50	2314	3
336	NC	2,985	15	3150	2
337	LA	2,069	0	N/A	N/A
339	MA	50	0	N/A	N/A
340	VI	534	132	2163	2
341	CA	50	0	N/A	N/A
346	TX	50	0	N/A	N/A
347	NY	50	0	N/A	N/A
350	CA	50	0	N/A	N/A
351	MA	60	0	N/A	N/A
352	FL	2,314	6	4964	3
360	WA	2,368	0	N/A	N/A
361	TX	6,837	0	N/A	N/A
364	KY	110	0	N/A	N/A
380	OH	50	0	N/A	N/A
385	UT	50	0	N/A	N/A
386	FL	2,014	0	N/A	N/A
401	RI	935	0	N/A	N/A
402	NE	8,856	785	2030	1
404	GA	2,123	25	2731	1
405	OK	13,413	142	2062	2
406	MT	5,066	22	2695	4
407	FL	1,932	0	N/A	N/A
408	CA	2,217	11	3633	3
409	TX	3,590	0	N/A	N/A
410	MD	4,150	175	2107	3
412	PA	789	0	N/A	N/A
413	MA	3,729	0	N/A	N/A
414	WI	5,548	141	2118	2
415	CA	1,505	0	N/A	N/A
417	MO	4,681	266	2074	3
419	OH	5,398	138	2122	4
423	TN	4,414	0	N/A	N/A
424	CA	50	0	N/A	N/A
425	WA	757	0	N/A	N/A
430	TX	1,137	100	2205	3
432	TX	3,065	0	N/A	N/A
434	VA	2,808	6	4881	2

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
435	UT	2,381	51	2361	2
440	OH	2,363	423	2058	3
442	CA	90	0	N/A	N/A
443	MD	100	0	N/A	N/A
445	PA	50	0	N/A	N/A
447	IL	50	0	N/A	N/A
448	FL	50	0	N/A	N/A
458	OR	50	0	N/A	N/A
463	IN	50	0	N/A	N/A
469	TX	3,119	0	N/A	N/A
470	GA	173	0	N/A	N/A
472	NC	50	0	N/A	N/A
475	CT	1,231	0	N/A	N/A
478	GA	2,138	596	2046	4
479	AR	3,812	123	2148	3
480	AZ	531	10	3963	4
484	PA	100	0	N/A	N/A
501	AR	7,559	240	2068	4
502	KY	1,814	42	2449	1
503	OR	2,679	0	N/A	N/A
504	LA	1,110	6	5164	2
505	NM	3,076	6	4837	3
507	MN	2,611	171	2118	3
508	MA	7,221	0	N/A	N/A
509	WA	3,163	45	2390	1
510	CA	2,378	0	N/A	N/A
512	TX	9,263	0	N/A	N/A
513	OH	3,296	0	N/A	N/A
515	IA	7,025	100	2146	4
516	NY	860	25	2782	3
517	MI	475	18	3101	3
518	NY	5,863	96	2163	2
520	AZ	2,723	241	2088	3
530	CA	7,864	125	2113	1
531	NE	50	0	N/A	N/A
534	WI	50	0	N/A	N/A
539	OK	50	0	N/A	N/A
540	VA	5,207	162	2107	2
541	OR	5,716	6	4397	3
551	NJ	120	0	N/A	N/A
557	MO	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
559	CA	4,326	0	N/A	N/A
561	FL	2,838	270	2080	3
562	CA	3,114	175	2112	2
563	IA	1,097	186	2118	3
564	WA	50	0	N/A	N/A
567	OH	299	0	N/A	N/A
570	PA	5,400	90	2178	1
571	VA	50	0	N/A	N/A
572	OK	50	0	N/A	N/A
573	MO	3,485	119	2155	4
574	IN	2,042	250	2088	4
575	NM	1,555	18	3041	3
580	OK	1,592	36	2527	2
582	PA	50	0	N/A	N/A
585	NY	1,710	18	3032	1
586	MI	150	100	2214	3
601	MS	4,284	28	2577	2
602	AZ	2,566	379	2062	1
603	NH	1,189	15	3270	1
605	SD	2,652	191	2107	4
606	KY	3,964	47	2357	1
607	NY	2,811	54	2334	2
608	WI	3,597	40	2426	1
609	NJ	8,805	25	2464	4
610	PA	2,505	75	2249	2
612	MN	3,448	0	N/A	N/A
614	OH	1,837	0	N/A	N/A
615	TN	3,509	0	N/A	N/A
616	MI	4,211	80	2213	2
617	MA	1,110	0	N/A	N/A
618	IL	10,280	76	2144	4
619	CA	2,240	0	N/A	N/A
620	KS	3,336	54	2325	3
623	AZ	136	0	N/A	N/A
626	CA	3,026	175	2113	4
628	CA	60	0	N/A	N/A
629	TN	50	0	N/A	N/A
630	IL	4,232	0	N/A	N/A
631	NY	1,414	25	2759	2
636	MO	2,327	72	2261	2
640	NJ	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
641	IA	2,058	308	2074	2
646	NY	50	0	N/A	N/A
650	CA	2,461	0	N/A	N/A
651	MN	453	0	N/A	N/A
656	FL	50	0	N/A	N/A
657	CA	60	0	N/A	N/A
659	AL	50	0	N/A	N/A
660	MO	2,615	370	2063	4
661	CA	2,173	25	2729	1
662	MS	10,974	0	N/A	N/A
667	MD	85	0	N/A	N/A
669	CA	50	0	N/A	N/A
678	GA	6,358	1,020	2029	2
680	NY	50	0	N/A	N/A
681	WV	195	0	N/A	N/A
682	TX	7,121	0	N/A	N/A
689	FL	50	0	N/A	N/A
701	ND	1,935	12	3521	2
702	NV	1,035	0	N/A	N/A
703	VA	1,318	50	2390	3
704	NC	2,381	10	3778	4
706	GA	4,751	188	2097	1
707	CA	5,894	51	2293	3
708	IL	8,115	112	2122	1
712	IA	1,759	315	2074	4
713	TX	2,107	0	N/A	N/A
714	CA	4,220	475	2049	1
715	WI	4,676	35	2454	4
716	NY	1,913	18	3021	4
717	PA	2,006	100	2196	4
718	NY	165	25	2809	2
719	CO	3,922	60	2284	4
720	CO	587	50	2404	2
724	PA	2,535	0	N/A	N/A
725	NV	50	0	N/A	N/A
726	TX	50	0	N/A	N/A
727	FL	812	0	N/A	N/A
731	TN	1,831	0	N/A	N/A
732	NJ	8,154	100	2134	2
734	MI	7,122	254	2067	3
737	TX	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
740	OH	6,744	160	2099	4
743	NC	50	0	N/A	N/A
747	CA	50	0	N/A	N/A
754	FL	123	0	N/A	N/A
757	VA	2,890	0	N/A	N/A
760	CA	5,855	245	2074	3
762	GA	50	0	N/A	N/A
763	MN	806	30	2656	4
765	IN	7,902	456	2043	3
769	MS	1,122	0	N/A	N/A
770	GA	2,271	106	2183	2
771	DC	50	0	N/A	N/A
772	FL	690	12	3625	1
773	IL	50	0	N/A	N/A
774	MA	745	0	N/A	N/A
775	NV	2,341	0	N/A	N/A
779	IL	140	0	N/A	N/A
781	MA	2,661	0	N/A	N/A
785	KS	7,616	380	2049	3
786	FL	202	0	N/A	N/A
787	PR	452	200	2114	3
801	UT	2,825	20	2875	4
802	VT	1,512	0	N/A	N/A
803	SC	3,839	0	N/A	N/A
804	VA	4,179	115	2154	3
805	CA	3,865	0	N/A	N/A
806	TX	8,360	0	N/A	N/A
808	HI	1,444	0	N/A	N/A
810	MI	475	0	N/A	N/A
812	IN	5,956	482	2045	1
813	FL	1,198	0	N/A	N/A
814	PA	3,595	0	N/A	N/A
815	IL	3,723	45	2378	3
816	MO	5,671	40	2374	1
817	TX	6,185	0	N/A	N/A
818	CA	1,033	0	N/A	N/A
820	CA	50	0	N/A	N/A
826	VA	50	0	N/A	N/A
828	NC	3,985	0	N/A	N/A
830	TX	2,735	0	N/A	N/A
831	CA	2,330	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
832	TX	6,004	0	N/A	N/A
835	PA	50	0	N/A	N/A
838	NY	50	0	N/A	N/A
839	SC	50	0	N/A	N/A
840	CA	50	0	N/A	N/A
843	SC	3,926	0	N/A	N/A
845	NY	3,075	106	2176	3
847	IL	5,025	22	2697	3
848	NJ	55	0	N/A	N/A
850	FL	2,783	6	4886	3
854	SC	50	0	N/A	N/A
856	NJ	4,829	0	N/A	N/A
857	MA	50	0	N/A	N/A
858	CA	3,366	25	2681	2
859	KY	4,339	140	2128	4
860	CT	11,235	0	N/A	N/A
862	NJ	330	0	N/A	N/A
863	FL	1,273	17	3118	3
864	SC	3,373	100	2182	2
865	TN	2,074	6	5004	3
870	AR	6,572	244	2071	1
872	IL	50	0	N/A	N/A
878	PA	50	0	N/A	N/A
901	TN	2,141	0	N/A	N/A
903	TX	10,350	10	2981	1
904	FL	1,802	0	N/A	N/A
906	MI	2,068	6	5005	3
907	AK	2,422	37	2491	1
908	NJ	6,379	114	2135	2
909	CA	4,093	525	2046	2
910	NC	3,869	25	2661	1
912	GA	3,084	107	2174	1
913	KS	2,998	157	2124	2
914	NY	2,160	25	2730	3
915	TX	1,091	48	2410	4
916	CA	3,468	250	2082	1
917	NY	50	0	N/A	N/A
918	OK	7,731	106	2132	3
919	NC	2,756	0	N/A	N/A
920	WI	3,862	20	2823	4
925	CA	2,432	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
928	AZ	2,637	362	2064	4
929	NY	50	0	N/A	N/A
930	IN	50	0	N/A	N/A
931	TN	3,798	7	4331	3
934	NY	50	0	N/A	N/A
936	TX	301	0	N/A	N/A
937	OH	4,241	60	2279	3
938	AL	50	0	N/A	N/A
939	PR	50	0	N/A	N/A
940	TX	4,487	0	N/A	N/A
941	FL	866	12	3610	3
943	GA	50	0	N/A	N/A
947	MI	1,627	0	N/A	N/A
948	VA	50	0	N/A	N/A
949	CA	1,342	100	2203	3
951	CA	2,715	100	2189	4
952	MN	355	0	N/A	N/A
954	FL	2,006	0	N/A	N/A
956	TX	6,857	0	N/A	N/A
959	CT	50	0	N/A	N/A
970	CO	3,070	145	2133	4
971	OR	111	0	N/A	N/A
972	TX	4,388	0	N/A	N/A
973	NJ	10,574	150	2079	4
978	MA	3,882	0	N/A	N/A
979	TX	2,852	0	N/A	N/A
980	NC	370	10	3979	1
983	CO	50	0	N/A	N/A
984	NC	60	0	N/A	N/A
985	LA	2,241	0	N/A	N/A
986	ID	50	0	N/A	N/A
989	MI	3,377	70	2253	2

Table A6-2
Projected Exhaust of 211/511 p-ANIs by State

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
907	AK	2,422	37	2491	1
205	AL	5,570	275	2068	2
251	AL	1,756	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
256	AL	3,505	50	2346	4
334	AL	5,118	50	2314	3
659	AL	50	0	N/A	N/A
938	AL	50	0	N/A	N/A
479	AR	3,812	123	2148	3
501	AR	7,559	240	2068	4
870	AR	6,572	244	2071	1
480	AZ	531	10	3963	4
520	AZ	2,723	241	2088	3
602	AZ	2,566	379	2062	1
623	AZ	136	0	N/A	N/A
928	AZ	2,637	362	2064	4
209	CA	5,245	0	N/A	N/A
213	CA	2,694	0	N/A	N/A
279	CA	50	0	N/A	N/A
310	CA	2,730	0	N/A	N/A
323	CA	3,444	50	2347	1
341	CA	50	0	N/A	N/A
350	CA	50	0	N/A	N/A
408	CA	2,217	11	3633	3
415	CA	1,505	0	N/A	N/A
424	CA	50	0	N/A	N/A
442	CA	90	0	N/A	N/A
510	CA	2,378	0	N/A	N/A
530	CA	7,864	125	2113	1
559	CA	4,326	0	N/A	N/A
562	CA	3,114	175	2112	2
619	CA	2,240	0	N/A	N/A
626	CA	3,026	175	2113	4
628	CA	60	0	N/A	N/A
650	CA	2,461	0	N/A	N/A
657	CA	60	0	N/A	N/A
661	CA	2,173	25	2729	1
669	CA	50	0	N/A	N/A
707	CA	5,894	51	2293	3
714	CA	4,220	475	2049	1
747	CA	50	0	N/A	N/A
760	CA	5,855	245	2074	3
805	CA	3,865	0	N/A	N/A
818	CA	1,033	0	N/A	N/A
820	CA	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
831	CA	2,330	0	N/A	N/A
840	CA	50	0	N/A	N/A
858	CA	3,366	25	2681	2
909	CA	4,093	525	2046	2
916	CA	3,468	250	2082	1
925	CA	2,432	0	N/A	N/A
949	CA	1,342	100	2203	3
951	CA	2,715	100	2189	4
303	CO	4,437	12	3313	4
719	CO	3,922	60	2284	4
720	CO	587	50	2404	2
970	CO	3,070	145	2133	4
983	CO	50	0	N/A	N/A
203	CT	6,438	500	2043	1
475	CT	1,231	0	N/A	N/A
860	CT	11,235	0	N/A	N/A
959	CT	50	0	N/A	N/A
202	DC	446	0	N/A	N/A
771	DC	50	0	N/A	N/A
302	DE	1,799	0	N/A	N/A
239	FL	1,158	0	N/A	N/A
305	FL	1,908	0	N/A	N/A
321	FL	2,187	0	N/A	N/A
352	FL	2,314	6	4964	3
386	FL	2,014	0	N/A	N/A
407	FL	1,932	0	N/A	N/A
448	FL	50	0	N/A	N/A
561	FL	2,838	270	2080	3
656	FL	50	0	N/A	N/A
689	FL	50	0	N/A	N/A
727	FL	812	0	N/A	N/A
754	FL	123	0	N/A	N/A
772	FL	690	12	3625	1
786	FL	202	0	N/A	N/A
813	FL	1,198	0	N/A	N/A
850	FL	2,783	6	4886	3
863	FL	1,273	17	3118	3
904	FL	1,802	0	N/A	N/A
941	FL	866	12	3610	3
954	FL	2,006	0	N/A	N/A
229	GA	3,398	12	3400	3

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
404	GA	2,123	25	2731	1
470	GA	173	0	N/A	N/A
478	GA	2,138	596	2046	4
678	GA	6,358	1,020	2029	2
706	GA	4,751	188	2097	1
762	GA	50	0	N/A	N/A
770	GA	2,271	106	2183	2
912	GA	3,084	107	2174	1
943	GA	50	0	N/A	N/A
808	HI	1,444	0	N/A	N/A
319	IA	1,361	100	2202	2
515	IA	7,025	100	2146	4
563	IA	1,097	186	2118	3
641	IA	2,058	308	2074	2
712	IA	1,759	315	2074	4
208	ID	5,592	100	2160	1
986	ID	50	0	N/A	N/A
217	IL	5,231	25	2607	4
224	IL	7,865	0	N/A	N/A
309	IL	4,530	111	2155	2
312	IL	4,276	0	N/A	N/A
331	IL	75	0	N/A	N/A
447	IL	50	0	N/A	N/A
618	IL	10,280	76	2144	4
630	IL	4,232	0	N/A	N/A
708	IL	8,115	112	2122	1
773	IL	50	0	N/A	N/A
779	IL	140	0	N/A	N/A
815	IL	3,723	45	2378	3
847	IL	5,025	22	2697	3
872	IL	50	0	N/A	N/A
219	IN	3,353	212	2095	3
260	IN	1,901	298	2077	3
317	IN	3,961	30	2551	3
463	IN	50	0	N/A	N/A
574	IN	2,042	250	2088	4
765	IN	7,902	456	2043	3
812	IN	5,956	482	2045	1
930	IN	50	0	N/A	N/A
316	KS	5,355	220	2083	3
620	KS	3,336	54	2325	3

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
785	KS	7,616	380	2049	3
913	KS	2,998	157	2124	2
270	KY	4,491	130	2135	2
364	KY	110	0	N/A	N/A
502	KY	1,814	42	2449	1
606	KY	3,964	47	2357	1
859	KY	4,339	140	2128	4
225	LA	1,571	0	N/A	N/A
318	LA	3,687	0	N/A	N/A
337	LA	2,069	0	N/A	N/A
504	LA	1,110	6	5164	2
985	LA	2,241	0	N/A	N/A
339	MA	50	0	N/A	N/A
351	MA	60	0	N/A	N/A
413	MA	3,729	0	N/A	N/A
508	MA	7,221	0	N/A	N/A
617	MA	1,110	0	N/A	N/A
774	MA	745	0	N/A	N/A
781	MA	2,661	0	N/A	N/A
857	MA	50	0	N/A	N/A
978	MA	3,882	0	N/A	N/A
240	MD	528	0	N/A	N/A
301	MD	1,281	50	2390	2
410	MD	4,150	175	2107	3
443	MD	100	0	N/A	N/A
667	MD	85	0	N/A	N/A
207	ME	6,971	25	2537	1
231	MI	3,932	18	2909	3
248	MI	5,977	190	2090	4
269	MI	1,728	18	3031	1
313	MI	684	6	5235	2
517	MI	475	18	3101	3
586	MI	150	100	2214	3
616	MI	4,211	80	2213	2
734	MI	7,122	254	2067	3
810	MI	475	0	N/A	N/A
906	MI	2,068	6	5005	3
947	MI	1,627	0	N/A	N/A
989	MI	3,377	70	2253	2
218	MN	3,527	290	2073	4
320	MN	932	54	2369	1

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
507	MN	2,611	171	2118	3
612	MN	3,448	0	N/A	N/A
651	MN	453	0	N/A	N/A
763	MN	806	30	2656	4
952	MN	355	0	N/A	N/A
314	MO	10,268	108	2106	1
417	MO	4,681	266	2074	3
557	MO	50	0	N/A	N/A
573	MO	3,485	119	2155	4
636	MO	2,327	72	2261	2
660	MO	2,615	370	2063	4
816	MO	5,671	40	2374	1
228	MS	2,130	18	3009	4
601	MS	4,284	28	2577	2
662	MS	10,974	0	N/A	N/A
769	MS	1,122	0	N/A	N/A
406	MT	5,066	22	2695	4
252	NC	4,724	0	N/A	N/A
336	NC	2,985	15	3150	2
472	NC	50	0	N/A	N/A
704	NC	2,381	10	3778	4
743	NC	50	0	N/A	N/A
828	NC	3,985	0	N/A	N/A
910	NC	3,869	25	2661	1
919	NC	2,756	0	N/A	N/A
980	NC	370	10	3979	1
984	NC	60	0	N/A	N/A
701	ND	1,935	12	3521	2
308	NE	3,360	985	2033	4
402	NE	8,856	785	2030	1
531	NE	50	0	N/A	N/A
603	NH	1,189	15	3270	1
201	NJ	7,870	50	2259	3
551	NJ	120	0	N/A	N/A
609	NJ	8,805	25	2464	4
640	NJ	50	0	N/A	N/A
732	NJ	8,154	100	2134	2
848	NJ	55	0	N/A	N/A
856	NJ	4,829	0	N/A	N/A
862	NJ	330	0	N/A	N/A
908	NJ	6,379	114	2135	2

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
973	NJ	10,574	150	2079	4
505	NM	3,076	6	4837	3
575	NM	1,555	18	3041	3
702	NV	1,035	0	N/A	N/A
725	NV	50	0	N/A	N/A
775	NV	2,341	0	N/A	N/A
212	NY	5,185	50	2312	2
315	NY	7,567	64	2210	2
332	NY	50	0	N/A	N/A
347	NY	50	0	N/A	N/A
516	NY	860	25	2782	3
518	NY	5,863	96	2163	2
585	NY	1,710	18	3032	1
607	NY	2,811	54	2334	2
631	NY	1,414	25	2759	2
646	NY	50	0	N/A	N/A
680	NY	50	0	N/A	N/A
716	NY	1,913	18	3021	4
718	NY	165	25	2809	2
838	NY	50	0	N/A	N/A
845	NY	3,075	106	2176	3
914	NY	2,160	25	2730	3
917	NY	50	0	N/A	N/A
929	NY	50	0	N/A	N/A
934	NY	50	0	N/A	N/A
216	OH	1,170	10	3899	1
220	OH	50	0	N/A	N/A
234	OH	305	0	N/A	N/A
326	OH	50	0	N/A	N/A
330	OH	7,312	60	2227	2
380	OH	50	0	N/A	N/A
419	OH	5,398	138	2122	4
440	OH	2,363	423	2058	3
513	OH	3,296	0	N/A	N/A
567	OH	299	0	N/A	N/A
614	OH	1,837	0	N/A	N/A
740	OH	6,744	160	2099	4
937	OH	4,241	60	2279	3
405	OK	13,413	142	2062	2
539	OK	50	0	N/A	N/A
572	OK	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
580	OK	1,592	36	2527	2
918	OK	7,731	106	2132	3
458	OR	50	0	N/A	N/A
503	OR	2,679	0	N/A	N/A
541	OR	5,716	6	4397	3
971	OR	111	0	N/A	N/A
215	PA	1,457	25	2758	3
223	PA	50	0	N/A	N/A
267	PA	50	0	N/A	N/A
272	PA	145	0	N/A	N/A
412	PA	789	0	N/A	N/A
445	PA	50	0	N/A	N/A
484	PA	100	0	N/A	N/A
570	PA	5,400	90	2178	1
582	PA	50	0	N/A	N/A
610	PA	2,505	75	2249	2
717	PA	2,006	100	2196	4
724	PA	2,535	0	N/A	N/A
814	PA	3,595	0	N/A	N/A
835	PA	50	0	N/A	N/A
878	PA	50	0	N/A	N/A
787	PR	452	200	2114	3
939	PR	50	0	N/A	N/A
401	RI	935	0	N/A	N/A
803	SC	3,839	0	N/A	N/A
839	SC	50	0	N/A	N/A
843	SC	3,926	0	N/A	N/A
854	SC	50	0	N/A	N/A
864	SC	3,373	100	2182	2
605	SD	2,652	191	2107	4
423	TN	4,414	0	N/A	N/A
615	TN	3,509	0	N/A	N/A
629	TN	50	0	N/A	N/A
731	TN	1,831	0	N/A	N/A
865	TN	2,074	6	5004	3
901	TN	2,141	0	N/A	N/A
931	TN	3,798	7	331	3
210	TX	6,834	12	3,113	1
214	TX	7,663	0	N/A	N/A
254	TX	7,615	50	2264	3
281	TX	10,932	44	2222	1

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
325	TX	7,705	0	N/A	N/A
346	TX	50	0	N/A	N/A
361	TX	6,837	0	N/A	N/A
409	TX	3,590	0	N/A	N/A
430	TX	1,137	100	2205	3
432	TX	3,065	0	N/A	N/A
469	TX	3,119	0	N/A	N/A
512	TX	9,263	0	N/A	N/A
682	TX	7,121	0	N/A	N/A
713	TX	2,107	0	N/A	N/A
726	TX	50	0	N/A	N/A
737	TX	50	0	N/A	N/A
806	TX	8,360	0	N/A	N/A
817	TX	6,185	0	N/A	N/A
830	TX	2,735	0	N/A	N/A
832	TX	6,004	0	N/A	N/A
903	TX	10,350	10	2981	1
915	TX	1,091	48	2410	4
936	TX	301	0	N/A	N/A
940	TX	4,487	0	N/A	N/A
956	TX	6,857	0	N/A	N/A
972	TX	4,388	0	N/A	N/A
979	TX	2,852	0	N/A	N/A
385	UT	50	0	N/A	N/A
435	UT	2,381	51	2361	2
801	UT	2,825	20	2875	4
276	VA	2,117	56	2335	2
434	VA	2,808	6	4881	2
540	VA	5,207	162	2107	2
571	VA	50	0	N/A	N/A
703	VA	1,318	50	2390	3
757	VA	2,890	0	N/A	N/A
804	VA	4,179	115	2154	3
826	VA	50	0	N/A	N/A
948	VA	50	0	N/A	N/A
340	VI	534	132	2163	2
802	VT	1,512	0	N/A	N/A
206	WA	1,262	0	N/A	N/A
253	WA	693	0	N/A	N/A
360	WA	2,368	0	N/A	N/A
425	WA	757	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
509	WA	3,163	45	2390	1
564	WA	50	0	N/A	N/A
262	WI	330	0	N/A	N/A
414	WI	5,548	141	2118	2
534	WI	50	0	N/A	N/A
608	WI	3,597	40	2426	1
715	WI	4,676	35	2454	4
920	WI	3,862	20	2823	4
304	WV	8,826	236	2063	2
681	WV	195	0	N/A	N/A
307	WY	3,767	45	2377	3

Table A6-3
Projected Exhaust of 211/511 p-ANIs by Year

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
678	GA	6,358	1,020	2029	2
402	NE	8,856	785	2030	1
308	NE	3,360	985	2033	4
203	CT	6,438	500	2043	1
765	IN	7,902	456	2043	3
812	IN	5,956	482	2045	1
909	CA	4,093	525	2046	2
478	GA	2,138	596	2046	4
714	CA	4,220	475	2049	1
785	KS	7,616	380	2049	3
440	OH	2,363	423	2058	3
602	AZ	2,566	379	2062	1
405	OK	13,413	142	2062	2
304	WV	8,826	236	2063	2
660	MO	2,615	370	2063	4
928	AZ	2,637	362	2064	4
734	MI	7,122	254	2067	3
205	AL	5,570	275	2068	2
501	AR	7,559	240	2068	4
870	AR	6,572	244	2071	1
218	MN	3,527	290	2073	4
641	IA	2,058	308	2074	2
417	MO	4,681	266	2074	3
760	CA	5,855	245	2074	3

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
712	IA	1,759	315	2074	4
260	IN	1,901	298	2077	3
973	NJ	10,574	150	2079	4
561	FL	2,838	270	2080	3
916	CA	3,468	250	2082	1
316	KS	5,355	220	2083	3
520	AZ	2,723	241	2088	3
574	IN	2,042	250	2088	4
248	MI	5,977	190	2090	4
219	IN	3,353	212	2095	3
706	GA	4,751	188	2097	1
740	OH	6,744	160	2099	4
314	MO	10,268	108	2106	1
540	VA	5,207	162	2107	2
410	MD	4,150	175	2107	3
605	SD	2,652	191	2107	4
562	CA	3,114	175	2112	2
530	CA	7,864	125	2113	1
626	CA	3,026	175	2113	4
787	PR	452	200	2114	3
414	WI	5,548	141	2118	2
507	MN	2,611	171	2118	3
563	IA	1,097	186	2118	3
708	IL	8,115	112	2122	1
419	OH	5,398	138	2122	4
913	KS	2,998	157	2124	2
859	KY	4,339	140	2128	4
918	OK	7,731	106	2132	3
970	CO	3,070	145	2133	4
732	NJ	8,154	100	2134	2
270	KY	4,491	130	2135	2
908	NJ	6,379	114	2135	2
618	IL	10,280	76	2144	4
515	IA	7,025	100	2146	4
479	AR	3,812	123	2148	3
804	VA	4,179	115	2154	3
309	IL	4,530	111	2155	2
573	MO	3,485	119	2155	4
208	ID	5,592	100	2160	1
340	VI	534	132	2163	2
518	NY	5,863	96	2163	2

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
912	GA	3,084	107	2174	1
845	NY	3,075	106	2176	3
570	PA	5,400	90	2178	1
864	SC	3,373	100	2182	2
770	GA	2,271	106	2183	2
951	CA	2,715	100	2189	4
717	PA	2,006	100	2196	4
319	IA	1,361	100	2202	2
949	CA	1,342	100	2203	3
430	TX	1,137	100	2205	3
315	NY	7,567	64	2210	2
616	MI	4,211	80	2213	2
586	MI	150	100	2214	3
281	TX	10,932	44	2222	1
330	OH	7,312	60	2227	2
610	PA	2,505	75	2249	2
989	MI	3,377	70	2253	2
201	NJ	7,870	50	2259	3
636	MO	2,327	72	2261	2
254	TX	7,615	50	2264	3
937	OH	4,241	60	2279	3
719	CO	3,922	60	2284	4
707	CA	5,894	51	2293	3
212	NY	5,185	50	2312	2
334	AL	5,118	50	2314	3
620	KS	3,336	54	2325	3
607	NY	2,811	54	2334	2
276	VA	2,117	56	2335	2
256	AL	3,505	50	2346	4
323	CA	3,444	50	2347	1
606	KY	3,964	47	2357	1
435	UT	2,381	51	2361	2
320	MN	932	54	2369	1
816	MO	5,671	40	2374	1
307	WY	3,767	45	2377	3
815	IL	3,723	45	2378	3
509	WA	3,163	45	2390	1
301	MD	1,281	50	2390	2
703	VA	1,318	50	2390	3
720	CO	587	50	2404	2
915	TX	1,091	48	2410	4

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
608	WI	3,597	40	2426	1
502	KY	1,814	42	2449	1
715	WI	4,676	35	2454	4
609	NJ	8,805	25	2464	4
907	AK	2,422	37	2491	1
580	OK	1,592	36	2527	2
207	ME	6,971	25	2537	1
317	IN	3,961	30	2551	3
601	MS	4,284	28	2577	2
217	IL	5,231	25	2607	4
763	MN	806	30	2656	4
910	NC	3,869	25	2661	1
858	CA	3,366	25	2681	2
406	MT	5,066	22	2695	4
847	IL	5,025	22	2697	3
661	CA	2,173	25	2729	1
914	NY	2,160	25	2730	3
404	GA	2,123	25	2731	1
215	PA	1,457	25	2758	3
631	NY	1,414	25	2759	2
516	NY	860	25	2782	3
718	NY	165	25	2809	2
920	WI	3,862	20	2823	4
801	UT	2,825	20	2875	4
231	MI	3,932	18	2909	3
903	TX	10,350	10	2981	1
228	MS	2,130	18	3009	4
716	NY	1,913	18	3021	4
269	MI	1,728	18	3031	1
585	NY	1,710	18	3032	1
575	NM	1,555	18	3041	3
517	MI	475	18	3101	3
210	TX	6,834	12	3113	1
863	FL	1,273	17	3118	3
336	NC	2,985	15	3150	2
603	NH	1,189	15	3270	1
303	CO	4,437	12	3313	4
229	GA	3,398	12	3400	3
701	ND	1,935	12	3521	2
941	FL	866	12	3610	3
772	FL	690	12	3625	1

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
408	CA	2,217	11	3633	3
704	NC	2,381	10	3778	4
216	OH	1,170	10	3899	1
480	AZ	531	10	3963	4
980	NC	370	10	3979	1
931	TN	3,798	7	4331	3
541	OR	5,716	6	4397	3
505	NM	3,076	6	4837	3
434	VA	2,808	6	4881	2
850	FL	2,783	6	4886	3
352	FL	2,314	6	4964	3
865	TN	2,074	6	5004	3
906	MI	2,068	6	5005	3
504	LA	1,110	6	5164	2
313	MI	684	6	5235	2
202	DC	446	0	N/A	N/A
206	WA	1,262	0	N/A	N/A
209	CA	5,245	0	N/A	N/A
213	CA	2,694	0	N/A	N/A
214	TX	7,663	0	N/A	N/A
220	OH	50	0	N/A	N/A
223	PA	50	0	N/A	N/A
224	IL	7,865	0	N/A	N/A
225	LA	1,571	0	N/A	N/A
234	OH	305	0	N/A	N/A
239	FL	1,158	0	N/A	N/A
240	MD	528	0	N/A	N/A
251	AL	1,756	0	N/A	N/A
252	NC	4,724	0	N/A	N/A
253	WA	693	0	N/A	N/A
262	WI	330	0	N/A	N/A
267	PA	50	0	N/A	N/A
272	PA	145	0	N/A	N/A
279	CA	50	0	N/A	N/A
302	DE	1,799	0	N/A	N/A
305	FL	1,908	0	N/A	N/A
310	CA	2,730	0	N/A	N/A
312	IL	4,276	0	N/A	N/A
318	LA	3,687	0	N/A	N/A
321	FL	2,187	0	N/A	N/A
325	TX	7,705	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
326	OH	50	0	N/A	N/A
331	IL	75	0	N/A	N/A
332	NY	50	0	N/A	N/A
337	LA	2,069	0	N/A	N/A
339	MA	50	0	N/A	N/A
341	CA	50	0	N/A	N/A
346	TX	50	0	N/A	N/A
347	NY	50	0	N/A	N/A
350	CA	50	0	N/A	N/A
351	MA	60	0	N/A	N/A
360	WA	2,368	0	N/A	N/A
361	TX	6,837	0	N/A	N/A
364	KY	110	0	N/A	N/A
380	OH	50	0	N/A	N/A
385	UT	50	0	N/A	N/A
386	FL	2,014	0	N/A	N/A
401	RI	935	0	N/A	N/A
407	FL	1,932	0	N/A	N/A
409	TX	3,590	0	N/A	N/A
412	PA	789	0	N/A	N/A
413	MA	3,729	0	N/A	N/A
415	CA	1,505	0	N/A	N/A
423	TN	4,414	0	N/A	N/A
424	CA	50	0	N/A	N/A
425	WA	757	0	N/A	N/A
432	TX	3,065	0	N/A	N/A
442	CA	90	0	N/A	N/A
443	MD	100	0	N/A	N/A
445	PA	50	0	N/A	N/A
447	IL	50	0	N/A	N/A
448	FL	50	0	N/A	N/A
458	OR	50	0	N/A	N/A
463	IN	50	0	N/A	N/A
469	TX	3,119	0	N/A	N/A
470	GA	173	0	N/A	N/A
472	NC	50	0	N/A	N/A
475	CT	1,231	0	N/A	N/A
484	PA	100	0	N/A	N/A
503	OR	2,679	0	N/A	N/A
508	MA	7,221	0	N/A	N/A
510	CA	2,378	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
512	TX	9,263	0	N/A	N/A
513	OH	3,296	0	N/A	N/A
531	NE	50	0	N/A	N/A
534	WI	50	0	N/A	N/A
539	OK	50	0	N/A	N/A
551	NJ	120	0	N/A	N/A
557	MO	50	0	N/A	N/A
559	CA	4,326	0	N/A	N/A
564	WA	50	0	N/A	N/A
567	OH	299	0	N/A	N/A
571	VA	50	0	N/A	N/A
572	OK	50	0	N/A	N/A
582	PA	50	0	N/A	N/A
612	MN	3,448	0	N/A	N/A
614	OH	1,837	0	N/A	N/A
615	TN	3,509	0	N/A	N/A
617	MA	1,110	0	N/A	N/A
619	CA	2,240	0	N/A	N/A
623	AZ	136	0	N/A	N/A
628	CA	60	0	N/A	N/A
629	TN	50	0	N/A	N/A
630	IL	4,232	0	N/A	N/A
640	NJ	50	0	N/A	N/A
646	NY	50	0	N/A	N/A
650	CA	2,461	0	N/A	N/A
651	MN	453	0	N/A	N/A
656	FL	50	0	N/A	N/A
657	CA	60	0	N/A	N/A
659	AL	50	0	N/A	N/A
662	MS	10,974	0	N/A	N/A
667	MD	85	0	N/A	N/A
669	CA	50	0	N/A	N/A
680	NY	50	0	N/A	N/A
681	WV	195	0	N/A	N/A
682	TX	7,121	0	N/A	N/A
689	FL	50	0	N/A	N/A
702	NV	1,035	0	N/A	N/A
713	TX	2,107	0	N/A	N/A
724	PA	2,535	0	N/A	N/A
725	NV	50	0	N/A	N/A
726	TX	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
727	FL	812	0	N/A	N/A
731	TN	1,831	0	N/A	N/A
737	TX	50	0	N/A	N/A
743	NC	50	0	N/A	N/A
747	CA	50	0	N/A	N/A
754	FL	123	0	N/A	N/A
757	VA	2,890	0	N/A	N/A
762	GA	50	0	N/A	N/A
769	MS	1,122	0	N/A	N/A
771	DC	50	0	N/A	N/A
773	IL	50	0	N/A	N/A
774	MA	745	0	N/A	N/A
775	NV	2,341	0	N/A	N/A
779	IL	140	0	N/A	N/A
781	MA	2,661	0	N/A	N/A
786	FL	202	0	N/A	N/A
802	VT	1,512	0	N/A	N/A
803	SC	3,839	0	N/A	N/A
805	CA	3,865	0	N/A	N/A
806	TX	8,360	0	N/A	N/A
808	HI	1,444	0	N/A	N/A
810	MI	475	0	N/A	N/A
813	FL	1,198	0	N/A	N/A
814	PA	3,595	0	N/A	N/A
817	TX	6,185	0	N/A	N/A
818	CA	1,033	0	N/A	N/A
820	CA	50	0	N/A	N/A
826	VA	50	0	N/A	N/A
828	NC	3,985	0	N/A	N/A
830	TX	2,735	0	N/A	N/A
831	CA	2,330	0	N/A	N/A
832	TX	6,004	0	N/A	N/A
835	PA	50	0	N/A	N/A
838	NY	50	0	N/A	N/A
839	SC	50	0	N/A	N/A
840	CA	50	0	N/A	N/A
843	SC	3,926	0	N/A	N/A
848	NJ	55	0	N/A	N/A
854	SC	50	0	N/A	N/A
856	NJ	4,829	0	N/A	N/A
857	MA	50	0	N/A	N/A

NPA	STATE	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
860	CT	11,235	0	N/A	N/A
862	NJ	330	0	N/A	N/A
872	IL	50	0	N/A	N/A
878	PA	50	0	N/A	N/A
901	TN	2,141	0	N/A	N/A
904	FL	1,802	0	N/A	N/A
917	NY	50	0	N/A	N/A
919	NC	2,756	0	N/A	N/A
925	CA	2,432	0	N/A	N/A
929	NY	50	0	N/A	N/A
930	IN	50	0	N/A	N/A
934	NY	50	0	N/A	N/A
936	TX	301	0	N/A	N/A
938	AL	50	0	N/A	N/A
939	PR	50	0	N/A	N/A
940	TX	4,487	0	N/A	N/A
943	GA	50	0	N/A	N/A
947	MI	1,627	0	N/A	N/A
948	VA	50	0	N/A	N/A
952	MN	355	0	N/A	N/A
954	FL	2,006	0	N/A	N/A
956	TX	6,857	0	N/A	N/A
959	CT	50	0	N/A	N/A
971	OR	111	0	N/A	N/A
972	TX	4,388	0	N/A	N/A
978	MA	3,882	0	N/A	N/A
979	TX	2,852	0	N/A	N/A
983	CO	50	0	N/A	N/A
984	NC	60	0	N/A	N/A
985	LA	2,241	0	N/A	N/A
986	ID	50	0	N/A	N/A

ATTACHMENT 7

2022 NPA Exhaust Projections

NANPA projects NPA exhaust on a semi-annual basis in April and October of each calendar year. Tables A7-1 through A7-3 below show the exhaust projections for each NPA, based on the analysis performed in April 2022 (2022.1) and October 2022 (2022.2)³⁸. 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.

The notes in the column on the far right are defined as follows:

- a. Reduced historical and projected demand.
- b. Increased historical and projected demand.
- c. Forecast based upon information provided by the Canadian Numbering Authority (CNA). The CNA provides only one projection per year. Change is from last forecast provided.
- d. Canadian NPAs. With an exhaust date beyond 2043, there is generally no exhaust date provided.
- e. NPA is at exhaust. No codes available except for returns.
- f. New NPA added. The exhaust date moved out due to a new area code implemented, however demand in these areas have not decreased.
- g. Area Code 321A includes only Brevard County Florida; 321/407/689 includes the Counties around Orlando in Central Florida.
- h. NPA Exhaust beyond 30 years is not populated for NRUF reporting cycles prior to 2021.1.
- i. Delta NRUF issued between publication of NRUF and NPA Exhaust Analysis.

Table A7-1
Projected Exhaust Dates by NPA

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
New Jersey	201/551	2040	1Q	2041	4Q	-7Q	b,h
District of Columbia	202/771	2054	1Q	2058	3Q	-18Q	b
Connecticut	203/475	2039	1Q	2040	3Q	-6Q	b,h
Canada	204/431	2034	3Q	2034	3Q	N/C	c
Alabama	205/659	2039	2Q	2036	3Q	11Q	a
Washington	206	2025	4Q	2025	3Q	1Q	a,i
Maine	207	2027	1Q	2025	2Q	5Q	a,i
Idaho	208/986	2037	1Q	2039	1Q	-8Q	b,h
California	209	2022	4Q	2022	4Q	N/C	

³⁸ The full NRUF Exhaust Report detailing three full years of projected forecasts, from 2020.1 through 2022.2 can be found on the NANPA website at https://www.nationalnanpa.com/reports/reports_npa.html.

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Texas	210/726	2053	3Q	2055	2Q	-7Q	b,h
New York	212/646/332	2051	3Q	2051	3Q	N/C	
California	213/323	2025	2Q	2025	2Q	N/C	
Texas	214/469/945/972	2031	2Q	2031	1Q	1Q	a
Pennsylvania	215/267/445	2041	2Q	2043	4Q	-10Q	b,h
Ohio	216	2035	3Q	2032	2Q	13Q	a
Illinois	217/447	2035	4Q	2035	3Q	1Q	a
Minnesota	218	2026	4Q	2028	2Q	-6Q	b,h
Indiana	219	2042	2Q	2041	4Q	2Q	a,h
Ohio	220/740	2052	2Q	2048	4Q	14Q	a,h
Pennsylvania	223/717	2036	2Q	2036	3Q	-1Q	b,h
Illinois	224/847	2030	2Q	2030	2Q	N/C	
Louisiana	225	2037	2Q	2039	1Q	-7Q	b,h
Canada	226/519/548	2033	1Q	2033	1Q	N/C	c
Mississippi	228	2093	3Q	2096	3Q	-12Q	b,h
Georgia	229	2030	3Q	2030	2Q	1Q	a
Michigan	231	2030	4Q	2030	3Q	1Q	a,h
Ohio	234/330	2036	1Q	2035	1Q	4Q	a,h
Canada	236/250/604/672/ 778	2034	4Q	2034	4Q	N/C	c
Florida	239	2035	3Q	2035	2Q	1Q	a,h
Maryland	240/301	2023	2Q	2023	4Q	-2Q	b,i
Michigan	248/947	2046	1Q	2049	3Q	-14Q	b,h
Canada	249/705	2032	2Q	2032	2Q	N/C	c
Alabama	251	2033	2Q	2034	2Q	-4Q	b,h
North Carolina	252	2032	4Q	2031	3Q	5Q	a
Washington	253	2052	2Q	2052	1Q	1Q	a,h
Texas	254	2028	4Q	2027	4Q	4Q	a
Alabama	256/938	2040	4Q	2042	4Q	-8Q	b,h
Indiana	260	2043	3Q	2044	3Q	-4Q	b,h
Wisconsin	262	2034	2Q	2031	4Q	10Q	a,h
Michigan	269	2034	3Q	2034	4Q	-1Q	b,h
Kentucky	270/364	2066	4Q	2074	2Q	-30Q	b,h
Pennsylvania	272/570	2036	2Q	2037	3Q	-5Q	b,h
Virginia	276	2044	3Q	2044	4Q	-1Q	b,h
California	279/916	2044	4Q	2045	1Q	-1Q	b,h
Texas	281/346/713/832	2026	1Q	2025	4Q	1Q	a
Canada	289/365/742/905	2038	1Q	2038	1Q	N/C	c
Delaware	302	2033	4Q	2033	1Q	3Q	a

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Colorado	303/720/983	2049	3Q	2023	1Q	106Q	f
West Virginia	304/681	2031	1Q	2029	4Q	5Q	a
Florida	305/786	2023	4Q	2023	4Q	N/C	
Canada	306/474/639	2037	3Q	2037	3Q	N/C	c
Wyoming	307	2040	4Q	2039	4Q	4Q	a,h
Nebraska	308	2034	4Q	2030	2Q	18Q	a,h
Illinois	309	2024	1Q	2023	2Q	3Q	a
California	310/424	2037	3Q	2037	3Q	N/C	
Illinois	312/773/872	2040	3Q	2041	4Q	-5Q	b,h
Michigan	313	2025	3Q	2025	3Q	N/C	
Missouri	314/557	2065	2Q	2022	3Q	171Q	f
New York	315/680	2041	4Q	2038	2Q	14Q	a,h
Kansas	316	2053	4Q	2050	4Q	12Q	a,h
Indiana	317/463	2044	3Q	2045	1Q	-2Q	b,h
Louisiana	318	2026	1Q	2026	2Q	-1Q	b
Iowa	319	2034	4Q	2042	1Q	-29Q	b,h
Minnesota	320	2038	4Q	2041	3Q	-11Q	b,h
Florida	321/407/689	2039	4Q	2039	1Q	3Q	a,h
Florida	321A	2040	1Q	2041	4Q	-7Q	b,g,h
Texas	325	2050	4Q	2045	2Q	22Q	a,h
Ohio	326/937	2052	3Q	2051	2Q	5Q	a,h
Illinois	331/630	2053	1Q	2057	4Q	-19Q	b,h
Alabama	334	2026	2Q	2025	3Q	3Q	a,i
North Carolina	336/743	2042	4Q	2044	4Q	-8Q	b,h
Louisiana	337	2037	1Q	2042	4Q	-23Q	b,h
Massachusetts	339/781	2071	3Q	2073	1Q	-6Q	b,h
Virgin Islands	340	2089	3Q	2090	1Q	-2Q	b,h
California	341/510	2052	4Q	2051	2Q	6Q	a,h
Canada	343/613	2033	4Q	2033	4Q	N/C	c
New York	347/718/929	2027	2Q	2027	2Q	N/C	
Massachusetts	351/978	2055	3Q	2057	1Q	-6Q	b,h
Florida	352	2027	1Q	2026	1Q	4Q	a
Washington	360/564	2058	4Q	2062	4Q	-16Q	b,h
Texas	361	2040	1Q	2040	1Q	N/C	h
Ohio	380/614	2062	1Q	2057	2Q	19Q	a,h
Utah	385/801	2032	1Q	2031	3Q	2Q	a
Florida	386	2040	4Q	2039	1Q	7Q	a,h
Rhode Island	401	2050	3Q	2045	4Q	19Q	a,h
Nebraska	402/531	2047	4Q	2048	1Q	-1Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Canada	403/587/780/825	2038	2Q	2038	2Q	N/C	c
Georgia	404/470/678/770/ 943	2030	1Q	2030	2Q	-1Q	b
Oklahoma	405/572	2049	3Q	2050	2Q	-3Q	b
Montana	406	2031	4Q	2028	4Q	12Q	a
California	408/669	2047	3Q	2052	3Q	-20Q	b,h
Texas	409	2045	1Q	2044	1Q	4Q	a,h
Maryland	410/443/667	2029	4Q	2030	1Q	-1Q	b
Pennsylvania	412/724/878	2039	3Q	2041	1Q	-6Q	b,h
Massachusetts	413	2029	2Q	2029	2Q	N/C	h
Wisconsin	414	2048	1Q	2046	4Q	5Q	a,h
California	415/628	2064	1Q	2059	1Q	20Q	a,h
Canada	416/437/647	2035	3Q	2035	3Q	N/C	c
Missouri	417	2029	3Q	2028	3Q	4Q	a
Canada	418/581/367	2037	3Q	2037	3Q	N/C	c
Ohio	419/567	2036	2Q	2037	1Q	-3Q	b,h
Tennessee	423	2025	3Q	2025	3Q	N/C	
Washington	425	2034	1Q	2033	3Q	2Q	a
Texas	430/903	2038	1Q	2036	4Q	5Q	a,h
Texas	432	2063	4Q	2055	1Q	35Q	a,h
Virginia	434	2034	4Q	2034	3Q	1Q	a,h
Utah	435	2040	4Q	2038	1Q	11Q	a,h
Canada	438/514	2035	2Q	2035	2Q	N/C	c
Ohio	440	2024	3Q	2024	3Q	N/C	
California	442/760	2034	1Q	2033	4Q	1Q	a,h
Florida	448/850	2056	4Q	2050	1Q	27Q	a
Canada	450/579	2024	3Q	2024	3Q	N/C	c
Oregon	458/541	2040	3Q	2044	2Q	-15Q	b,h
Illinois	464/708	2056	1Q	2062	1Q	-24Q	b
North Carolina	472/910	2064	1Q	2023	1Q	164Q	f
Georgia	478	2046	2Q	2045	4Q	2Q	a,h
Arkansas	479	2035	1Q	2033	3Q	6Q	a
Arizona	480	2023	4Q	2024	1Q	-1Q	b
Pennsylvania	484/610/835	2065	1Q	2022	4Q	169Q	f
Arkansas	501	2031	1Q	2029	4Q	5Q	a
Kentucky	502	2027	3Q	2027	4Q	-1Q	b
Oregon	503/971	2037	2Q	2039	3Q	-9Q	b
Louisiana	504	2058	1Q	2057	2Q	3Q	a,h
New Mexico	505	2029	2Q	2030	1Q	-3Q	b

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Canada	506	2024	4Q	2024	4Q	N/C	c
Minnesota	507	2025	1Q	2025	1Q	N/C	
Massachusetts	508/774	2030	1Q	2029	3Q	2Q	a
Washington	509	2027	1Q	2026	2Q	3Q	a
Texas	512/737	2035	2Q	2034	4Q	2Q	a
Ohio	513	2023	4Q	2023	4Q	N/C	
Iowa	515	2034	3Q	2036	2Q	-7Q	b
New York	516	2024	1Q	2023	2Q	3Q	a,i
Michigan	517	2033	4Q	2033	3Q	1Q	a
New York	518/838	2036	4Q	2034	2Q	10Q	a,h
Arizona	520	2027	1Q	2026	4Q	1Q	a
California	530	2025	3Q	2026	2Q	-3Q	b,i
Wisconsin	534/715	2055	3Q	2054	4Q	3Q	a,h
Oklahoma	539/918	2038	3Q	2040	1Q	-6Q	b,h
Virginia	540/826	2044	3Q	2022	2Q	89Q	f
California	559	2025	3Q	2025	4Q	-1Q	b
Florida	561	2023	4Q	2023	3Q	1Q	a,i
California	562	2031	3Q	2031	2Q	1Q	a
Iowa	563	2041	1Q	2042	3Q	-6Q	b
Virginia	571/703	2031	3Q	2031	2Q	1Q	a
Missouri	573	2024	3Q	2024	3Q	N/C	
Indiana	574	2056	2Q	2053	4Q	10Q	a,h
New Mexico	575	2034	4Q	2038	3Q	-15Q	b,h
Oklahoma	580	2027	3Q	2027	2Q	1Q	a
Pennsylvania	582/814	2042	4Q	2043	2Q	-2Q	b
New York	585	2027	4Q	2026	3Q	5Q	a
Michigan	586	2048	4Q	2049	1Q	-1Q	b,h
Mississippi	601/769	2038	3Q	2040	3Q	-8Q	b,h
Arizona	602	2025	4Q	2025	3Q	1Q	a
New Hampshire	603	2028	2Q	2028	2Q	N/C	
South Dakota	605	2025	4Q	2025	3Q	1Q	a,i
Kentucky	606	2042	2Q	2043	3Q	-5Q	b,h
New York	607	2035	4Q	2033	3Q	9Q	a,h
Wisconsin	608	2024	1Q	2024	1Q	N/C	
New Jersey	609/640	2054	4Q	2051	2Q	14Q	a,h
Minnesota	612	2038	3Q	2037	3Q	4Q	a
Tennessee	615/629	2043	4Q	2047	2Q	-14Q	b,h
Michigan	616	2039	2Q	2037	2Q	8Q	a
Massachusetts	617/857	2042	2Q	2040	3Q	7Q	a,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Illinois	618	2024	2Q	2024	2Q	N/C	
California	619/858	2029	3Q	2029	1Q	2Q	a
Kansas	620	2026	2Q	2027	4Q	-6Q	b
Arizona	623	2061	2Q	2064	3Q	-13Q	b,h
California	626	2027	1Q	2027	3Q	-2Q	b
New York	631/934	2045	1Q	2043	4Q	5Q	a,h
Missouri	636	2056	1Q	2057	4Q	-7Q	b,h
Iowa	641	2035	2Q	2038	2Q	-12Q	b
California	650	2029	3Q	2030	3Q	-4Q	b
Minnesota	651	2063	1Q	2060	2Q	11Q	a,h
Florida	656/813	2048	2Q	2047	2Q	4Q	a
California	657/714	2026	2Q	2026	4Q	-2Q	b
Missouri	660	2043	3Q	2040	2Q	13Q	a,h
California	661	2031	4Q	2031	4Q	N/C	
Mississippi	662	2026	2Q	2027	1Q	-3Q	b
CNMI	670	2110	1Q	2110	1Q	N/C	h
Guam	671	2149	1Q	2150	1Q	-4Q	b,h
Texas	682/817	2036	4Q	2037	1Q	-1Q	b
American Samoa	684	2180	1Q				h
North Dakota	701	2030	3Q	2028	2Q	9Q	a
Nevada	702/725	2044	4Q	2043	4Q	4Q	a,h
North Carolina	704/980	2036	2Q	2036	4Q	-2Q	b
Georgia	706/762	2032	4Q	2032	2Q	2Q	a,h
California	707	2023	1Q	2023	1Q	N/C	
Canada	709	2028	4Q	2028	4Q	N/C	c
Iowa	712	2030	2Q	2031	2Q	-4Q	b
New York	716	2024	2Q	2024	2Q	N/C	
Colorado	719	2028	3Q	2031	4Q	-13Q	b
Florida	727	2032	4Q	2032	2Q	2Q	a
Tennessee	731	2091	1Q	2080	4Q	41Q	a,h
New Jersey	732/848	2043	4Q	2041	2Q	10Q	a,h
Michigan	734	2027	1Q	2028	1Q	-4Q	b
California	747/818	2042	2Q	2042	4Q	-2Q	b,h
Florida	754/954	2043	3Q	2042	4Q	3Q	a,h
Virginia	757/948	2047	2Q	2022	2Q	100Q	f
Minnesota	763	2069	4Q	2074	4Q	-20Q	b,h
Indiana	765	2026	1Q	2026	1Q	N/C	
Florida	772	2061	4Q	2057	1Q	19Q	a,h
Nevada	775	2034	1Q	2038	1Q	-16Q	b

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Illinois	779/815	2034	1Q	2032	4Q	5Q	a,h
Canada	782/902	2029	2Q	2029	2Q	N/C	c
Kansas	785	2028	3Q	2026	4Q	7Q	a
Puerto Rico	787/939	2042	1Q	2043	2Q	-5Q	b,h
Vermont	802	2036	1Q	2035	4Q	1Q	a
South Carolina	803/839	2044	3Q	2050	2Q	-23Q	b,h
Virginia	804	2024	3Q	2024	3Q	N/C	
California	805/820	2058	3Q	2063	3Q	-20Q	b,h
Texas	806	2027	4Q	2025	4Q	8Q	a
Canada	807	2043	1Q	2043	1Q	N/C	c
Hawaii	808	2037	2Q	2034	1Q	13Q	a
Michigan	810	2041	3Q	2046	4Q	-21Q	b,h
Indiana	812/930	2042	4Q	2042	2Q	2Q	a,h
Missouri	816	2024	2Q	2024	2Q	N/C	
Canada	819/873	2034	3Q	2034	3Q	N/C	c
North Carolina	828	2030	4Q	2030	4Q	N/C	
Texas	830	2039	1Q	2041	4Q	-11Q	b,h
California	831	2070	4Q	2080	1Q	-37Q	b,h
California	840/909	2046	2Q	2043	2Q	12Q	a
South Carolina	843/854	2048	4Q	2049	1Q	-1Q	b,h
New York	845	2024	3Q	2023	4Q	3Q	a,i
New Jersey	856	2031	1Q	2030	3Q	2Q	a
Kentucky	859	2051	1Q	2053	1Q	-8Q	b,h
Connecticut	860/959	2041	3Q	2045	1Q	-14Q	b,h
New Jersey	862/973	2036	1Q	2035	3Q	2Q	a,h
Florida	863	2041	1Q	2042	4Q	-7Q	b,h
South Carolina	864	2025	1Q	2025	1Q	N/C	
Tennessee	865	2041	4Q	2044	4Q	-12Q	b,h
Canada	867	2043	1Q	2043	1Q	N/C	c
Arkansas	870	2024	2Q	2025	1Q	-3Q	b,i
Tennessee	901	2034	4Q	2035	1Q	-1Q	b
Florida	904	2024	3Q	2024	3Q	N/C	
Michigan	906	2085	1Q	2075	4Q	37Q	a,h
Alaska	907	2041	3Q	2039	1Q	10Q	a,h
New Jersey	908	2028	1Q	2027	1Q	4Q	a
Georgia	912	2027	4Q	2027	4Q	N/C	
Kansas	913	2044	4Q	2040	3Q	17Q	a
New York	914	2028	1Q	2027	2Q	3Q	a
Texas	915	2053	3Q	2053	3Q	N/C	h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
New York	917						e
North Carolina	919/984	2043	2Q	2042	4Q	2Q	a,h
Wisconsin	920	2024	1Q	2023	4Q	1Q	a
California	925	2037	3Q	2036	4Q	3Q	a
Arizona	928	2028	1Q	2028	2Q	-1Q	b,h
Tennessee	931	2044	4Q	2053	2Q	-34Q	b,h
Texas	936	2044	1Q	2042	4Q	5Q	a,h
Texas	940	2040	4Q	2039	1Q	7Q	a
Florida	941	2044	3Q	2044	1Q	2Q	a,h
California	949	2026	3Q	2025	4Q	3Q	a
California	951	2029	3Q	2028	4Q	3Q	a
Minnesota	952	2130	2Q	2115	2Q	60Q	a,h
Texas	956	2026	4Q	2027	2Q	-2Q	b
Colorado	970	2026	1Q	2026	1Q	N/C	
Texas	979	2057	1Q	2056	4Q	1Q	a,h
Louisiana	985	2046	2Q	2053	2Q	-28Q	b,h
Michigan	989	2026	2Q	2026	1Q	1Q	a

Table A7-2
Projected Exhaust Dates by Exhaust Date

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
California	209	2022	4Q	2022	4Q	N/C	
California	707	2023	1Q	2023	1Q	N/C	
Maryland	240/301	2023	2Q	2023	4Q	-2Q	b,i
Florida	305/786	2023	4Q	2023	4Q	N/C	
Arizona	480	2023	4Q	2024	1Q	-1Q	b
Ohio	513	2023	4Q	2023	4Q	N/C	
Florida	561	2023	4Q	2023	3Q	1Q	a,i
Illinois	309	2024	1Q	2023	2Q	3Q	a
New York	516	2024	1Q	2023	2Q	3Q	a,i
Wisconsin	608	2024	1Q	2024	1Q	N/C	
Wisconsin	920	2024	1Q	2023	4Q	1Q	a
Illinois	618	2024	2Q	2024	2Q	N/C	
New York	716	2024	2Q	2024	2Q	N/C	
Missouri	816	2024	2Q	2024	2Q	N/C	
Arkansas	870	2024	2Q	2025	1Q	-3Q	b,i

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Ohio	440	2024	3Q	2024	3Q	N/C	
Canada	450/579	2024	3Q	2024	3Q	N/C	c
Missouri	573	2024	3Q	2024	3Q	N/C	
Virginia	804	2024	3Q	2024	3Q	N/C	
New York	845	2024	3Q	2023	4Q	3Q	a,i
Florida	904	2024	3Q	2024	3Q	N/C	
Canada	506	2024	4Q	2024	4Q	N/C	c
Minnesota	507	2025	1Q	2025	1Q	N/C	
South Carolina	864	2025	1Q	2025	1Q	N/C	
California	213/323	2025	2Q	2025	2Q	N/C	
Michigan	313	2025	3Q	2025	3Q	N/C	
Tennessee	423	2025	3Q	2025	3Q	N/C	
California	530	2025	3Q	2026	2Q	-3Q	b,i
California	559	2025	3Q	2025	4Q	-1Q	b
Washington	206	2025	4Q	2025	3Q	1Q	a,i
Arizona	602	2025	4Q	2025	3Q	1Q	a
South Dakota	605	2025	4Q	2025	3Q	1Q	a,i
Texas	281/346/713/832	2026	1Q	2025	4Q	1Q	a
Louisiana	318	2026	1Q	2026	2Q	-1Q	b
Indiana	765	2026	1Q	2026	1Q	N/C	
Colorado	970	2026	1Q	2026	1Q	N/C	
Alabama	334	2026	2Q	2025	3Q	3Q	a,i
Kansas	620	2026	2Q	2027	4Q	-6Q	b
California	657/714	2026	2Q	2026	4Q	-2Q	b
Mississippi	662	2026	2Q	2027	1Q	-3Q	b
Michigan	989	2026	2Q	2026	1Q	1Q	a
California	949	2026	3Q	2025	4Q	3Q	a
Minnesota	218	2026	4Q	2028	2Q	-6Q	b,h
Texas	956	2026	4Q	2027	2Q	-2Q	b
Maine	207	2027	1Q	2025	2Q	5Q	a,i
Florida	352	2027	1Q	2026	1Q	4Q	a
Washington	509	2027	1Q	2026	2Q	3Q	a
Arizona	520	2027	1Q	2026	4Q	1Q	a
California	626	2027	1Q	2027	3Q	-2Q	b
Michigan	734	2027	1Q	2028	1Q	-4Q	b
New York	347/718/929	2027	2Q	2027	2Q	N/C	
Kentucky	502	2027	3Q	2027	4Q	-1Q	b
Oklahoma	580	2027	3Q	2027	2Q	1Q	a
New York	585	2027	4Q	2026	3Q	5Q	a

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Texas	806	2027	4Q	2025	4Q	8Q	a
Georgia	912	2027	4Q	2027	4Q	N/C	
New Jersey	908	2028	1Q	2027	1Q	4Q	a
New York	914	2028	1Q	2027	2Q	3Q	a
Arizona	928	2028	1Q	2028	2Q	-1Q	b,h
New Hampshire	603	2028	2Q	2028	2Q	N/C	
Colorado	719	2028	3Q	2031	4Q	-13Q	b
Kansas	785	2028	3Q	2026	4Q	7Q	a
Texas	254	2028	4Q	2027	4Q	4Q	a
Canada	709	2028	4Q	2028	4Q	N/C	c
Massachusetts	413	2029	2Q	2029	2Q	N/C	h
New Mexico	505	2029	2Q	2030	1Q	-3Q	b
Canada	782/902	2029	2Q	2029	2Q	N/C	c
Missouri	417	2029	3Q	2028	3Q	4Q	a
California	619/858	2029	3Q	2029	1Q	2Q	a
California	650	2029	3Q	2030	3Q	-4Q	b
California	951	2029	3Q	2028	4Q	3Q	a
Maryland	410/443/667	2029	4Q	2030	1Q	-1Q	b
Georgia	404/470/678/770/943	2030	1Q	2030	2Q	-1Q	b
Massachusetts	508/774	2030	1Q	2029	3Q	2Q	a
Illinois	224/847	2030	2Q	2030	2Q	N/C	
Iowa	712	2030	2Q	2031	2Q	-4Q	b
Georgia	229	2030	3Q	2030	2Q	1Q	a
North Dakota	701	2030	3Q	2028	2Q	9Q	a
Michigan	231	2030	4Q	2030	3Q	1Q	a,h
North Carolina	828	2030	4Q	2030	4Q	N/C	
West Virginia	304/681	2031	1Q	2029	4Q	5Q	a
Arkansas	501	2031	1Q	2029	4Q	5Q	a
New Jersey	856	2031	1Q	2030	3Q	2Q	a
Texas	214/469/945/972	2031	2Q	2031	1Q	1Q	a
California	562	2031	3Q	2031	2Q	1Q	a
Virginia	571/703	2031	3Q	2031	2Q	1Q	a
Montana	406	2031	4Q	2028	4Q	12Q	a
California	661	2031	4Q	2031	4Q	N/C	
Utah	385/801	2032	1Q	2031	3Q	2Q	a
Canada	249/705	2032	2Q	2032	2Q	N/C	c
North Carolina	252	2032	4Q	2031	3Q	5Q	a
Georgia	706/762	2032	4Q	2032	2Q	2Q	a,h
Florida	727	2032	4Q	2032	2Q	2Q	a

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Canada	226/519/548	2033	1Q	2033	1Q	N/C	c
Alabama	251	2033	2Q	2034	2Q	-4Q	b,h
Delaware	302	2033	4Q	2033	1Q	3Q	a
Canada	343/613	2033	4Q	2033	4Q	N/C	c
Michigan	517	2033	4Q	2033	3Q	1Q	a
Washington	425	2034	1Q	2033	3Q	2Q	a
California	442/760	2034	1Q	2033	4Q	1Q	a,h
Nevada	775	2034	1Q	2038	1Q	-16Q	b
Illinois	779/815	2034	1Q	2032	4Q	5Q	a,h
Wisconsin	262	2034	2Q	2031	4Q	10Q	a,h
Canada	204/431	2034	3Q	2034	3Q	N/C	c
Michigan	269	2034	3Q	2034	4Q	-1Q	b,h
Iowa	515	2034	3Q	2036	2Q	-7Q	b
Canada	819/873	2034	3Q	2034	3Q	N/C	c
Canada	236/250/604/672/778	2034	4Q	2034	4Q	N/C	c
Nebraska	308	2034	4Q	2030	2Q	18Q	a,h
Iowa	319	2034	4Q	2042	1Q	-29Q	b,h
Virginia	434	2034	4Q	2034	3Q	1Q	a,h
New Mexico	575	2034	4Q	2038	3Q	-15Q	b,h
Tennessee	901	2034	4Q	2035	1Q	-1Q	b
Arkansas	479	2035	1Q	2033	3Q	6Q	a
Canada	438/514	2035	2Q	2035	2Q	N/C	c
Texas	512/737	2035	2Q	2034	4Q	2Q	a
Iowa	641	2035	2Q	2038	2Q	-12Q	b
Ohio	216	2035	3Q	2032	2Q	13Q	a
Florida	239	2035	3Q	2035	2Q	1Q	a,h
Canada	416/437/647	2035	3Q	2035	3Q	N/C	c
Illinois	217/447	2035	4Q	2035	3Q	1Q	a
New York	607	2035	4Q	2033	3Q	9Q	a,h
Ohio	234/330	2036	1Q	2035	1Q	4Q	a,h
Vermont	802	2036	1Q	2035	4Q	1Q	a
New Jersey	862/973	2036	1Q	2035	3Q	2Q	a,h
Pennsylvania	223/717	2036	2Q	2036	3Q	-1Q	b,h
Pennsylvania	272/570	2036	2Q	2037	3Q	-5Q	b,h
Ohio	419/567	2036	2Q	2037	1Q	-3Q	b,h
North Carolina	704/980	2036	2Q	2036	4Q	-2Q	b
New York	518/838	2036	4Q	2034	2Q	10Q	a,h
Texas	682/817	2036	4Q	2037	1Q	-1Q	b
Idaho	208/986	2037	1Q	2039	1Q	-8Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Louisiana	337	2037	1Q	2042	4Q	-23Q	b,h
Louisiana	225	2037	2Q	2039	1Q	-7Q	b,h
Oregon	503/971	2037	2Q	2039	3Q	-9Q	b
Hawaii	808	2037	2Q	2034	1Q	13Q	a
Canada	306/474/639	2037	3Q	2037	3Q	N/C	c
California	310/424	2037	3Q	2037	3Q	N/C	
Canada	418/581/367	2037	3Q	2037	3Q	N/C	c
California	925	2037	3Q	2036	4Q	3Q	a
Canada	289/365/742/905	2038	1Q	2038	1Q	N/C	c
Texas	430/903	2038	1Q	2036	4Q	5Q	a,h
Canada	403/587/780/825	2038	2Q	2038	2Q	N/C	c
Oklahoma	539/918	2038	3Q	2040	1Q	-6Q	b,h
Mississippi	601/769	2038	3Q	2040	3Q	-8Q	b,h
Minnesota	612	2038	3Q	2037	3Q	4Q	a
Minnesota	320	2038	4Q	2041	3Q	-11Q	b,h
Connecticut	203/475	2039	1Q	2040	3Q	-6Q	b,h
Texas	830	2039	1Q	2041	4Q	-11Q	b,h
Alabama	205/659	2039	2Q	2036	3Q	11Q	a
Michigan	616	2039	2Q	2037	2Q	8Q	a
Pennsylvania	412/724/878	2039	3Q	2041	1Q	-6Q	b,h
Florida	321/407/689	2039	4Q	2039	1Q	3Q	a,h
New Jersey	201/551	2040	1Q	2041	4Q	-7Q	b,h
Florida	321A	2040	1Q	2041	4Q	-7Q	b,g,h
Texas	361	2040	1Q	2040	1Q	N/C	h
Illinois	312/773/872	2040	3Q	2041	4Q	-5Q	b,h
Oregon	458/541	2040	3Q	2044	2Q	-15Q	b,h
Alabama	256/938	2040	4Q	2042	4Q	-8Q	b,h
Wyoming	307	2040	4Q	2039	4Q	4Q	a,h
Florida	386	2040	4Q	2039	1Q	7Q	a,h
Utah	435	2040	4Q	2038	1Q	11Q	a,h
Texas	940	2040	4Q	2039	1Q	7Q	a
Iowa	563	2041	1Q	2042	3Q	-6Q	b
Florida	863	2041	1Q	2042	4Q	-7Q	b,h
Pennsylvania	215/267/445	2041	2Q	2043	4Q	-10Q	b,h
Michigan	810	2041	3Q	2046	4Q	-21Q	b,h
Connecticut	860/959	2041	3Q	2045	1Q	-14Q	b,h
Alaska	907	2041	3Q	2039	1Q	10Q	a,h
New York	315/680	2041	4Q	2038	2Q	14Q	a,h
Tennessee	865	2041	4Q	2044	4Q	-12Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Puerto Rico	787/939	2042	1Q	2043	2Q	-5Q	b,h
Indiana	219	2042	2Q	2041	4Q	2Q	a,h
Kentucky	606	2042	2Q	2043	3Q	-5Q	b,h
Massachusetts	617/857	2042	2Q	2040	3Q	7Q	a,h
California	747/818	2042	2Q	2042	4Q	-2Q	b,h
North Carolina	336/743	2042	4Q	2044	4Q	-8Q	b,h
Pennsylvania	582/814	2042	4Q	2043	2Q	-2Q	b
Indiana	812/930	2042	4Q	2042	2Q	2Q	a,h
Canada	807	2043	1Q	2043	1Q	N/C	c
Canada	867	2043	1Q	2043	1Q	N/C	c
North Carolina	919/984	2043	2Q	2042	4Q	2Q	a,h
Indiana	260	2043	3Q	2044	3Q	-4Q	b,h
Missouri	660	2043	3Q	2040	2Q	13Q	a,h
Florida	754/954	2043	3Q	2042	4Q	3Q	a,h
Tennessee	615/629	2043	4Q	2047	2Q	-14Q	b,h
New Jersey	732/848	2043	4Q	2041	2Q	10Q	a,h
Texas	936	2044	1Q	2042	4Q	5Q	a,h
Virginia	276	2044	3Q	2044	4Q	-1Q	b,h
Indiana	317/463	2044	3Q	2045	1Q	-2Q	b,h
Virginia	540/826	2044	3Q	2022	2Q	89Q	f
South Carolina	803/839	2044	3Q	2050	2Q	-23Q	b,h
Florida	941	2044	3Q	2044	1Q	2Q	a,h
California	279/916	2044	4Q	2045	1Q	-1Q	b,h
Nevada	702/725	2044	4Q	2043	4Q	4Q	a,h
Kansas	913	2044	4Q	2040	3Q	17Q	a
Tennessee	931	2044	4Q	2053	2Q	-34Q	b,h
Texas	409	2045	1Q	2044	1Q	4Q	a,h
New York	631/934	2045	1Q	2043	4Q	5Q	a,h
Michigan	248/947	2046	1Q	2049	3Q	-14Q	b,h
Georgia	478	2046	2Q	2045	4Q	2Q	a,h
California	840/909	2046	2Q	2043	2Q	12Q	a
Louisiana	985	2046	2Q	2053	2Q	-28Q	b,h
Virginia	757/948	2047	2Q	2022	2Q	100Q	f
California	408/669	2047	3Q	2052	3Q	-20Q	b,h
Nebraska	402/531	2047	4Q	2048	1Q	-1Q	b,h
Wisconsin	414	2048	1Q	2046	4Q	5Q	a,h
Florida	656/813	2048	2Q	2047	2Q	4Q	a
Michigan	586	2048	4Q	2049	1Q	-1Q	b,h
South Carolina	843/854	2048	4Q	2049	1Q	-1Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2022.1 to 2022.2	
Colorado	303/720/983	2049	3Q	2023	1Q	106Q	f
Oklahoma	405/572	2049	3Q	2050	2Q	-3Q	b
Rhode Island	401	2050	3Q	2045	4Q	19Q	a,h
Texas	325	2050	4Q	2045	2Q	22Q	a,h
Kentucky	859	2051	1Q	2053	1Q	-8Q	b,h
New York	212/646/332	2051	3Q	2051	3Q	N/C	
Ohio	220/740	2052	2Q	2048	4Q	14Q	a,h
Washington	253	2052	2Q	2052	1Q	1Q	a,h
Ohio	326/937	2052	3Q	2051	2Q	5Q	a,h
California	341/510	2052	4Q	2051	2Q	6Q	a,h
Illinois	331/630	2053	1Q	2057	4Q	-19Q	b,h
Texas	210/726	2053	3Q	2055	2Q	-7Q	b,h
Texas	915	2053	3Q	2053	3Q	N/C	h
Kansas	316	2053	4Q	2050	4Q	12Q	a,h
District of Columbia	202/771	2054	1Q	2058	3Q	-18Q	b
New Jersey	609/640	2054	4Q	2051	2Q	14Q	a,h
Massachusetts	351/978	2055	3Q	2057	1Q	-6Q	b,h
Wisconsin	534/715	2055	3Q	2054	4Q	3Q	a,h
Illinois	464/708	2056	1Q	2062	1Q	-24Q	b
Missouri	636	2056	1Q	2057	4Q	-7Q	b,h
Indiana	574	2056	2Q	2053	4Q	10Q	a,h
Florida	448/850	2056	4Q	2050	1Q	27Q	a
Texas	979	2057	1Q	2056	4Q	1Q	a,h
Louisiana	504	2058	1Q	2057	2Q	3Q	a,h
California	805/820	2058	3Q	2063	3Q	-20Q	b,h
Washington	360/564	2058	4Q	2062	4Q	-16Q	b,h
Arizona	623	2061	2Q	2064	3Q	-13Q	b,h
Florida	772	2061	4Q	2057	1Q	19Q	a,h
Ohio	380/614	2062	1Q	2057	2Q	19Q	a,h
Minnesota	651	2063	1Q	2060	2Q	11Q	a,h
Texas	432	2063	4Q	2055	1Q	35Q	a,h
California	415/628	2064	1Q	2059	1Q	20Q	a,h
North Carolina	472/910	2064	1Q	2023	1Q	164Q	f
Pennsylvania	484/610/835	2065	1Q	2022	4Q	169Q	f
Missouri	314/557	2065	2Q	2022	3Q	171Q	f
Kentucky	270/364	2066	4Q	2074	2Q	-30Q	b,h
Minnesota	763	2069	4Q	2074	4Q	-20Q	b,h
California	831	2070	4Q	2080	1Q	-37Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Massachusetts	339/781	2071	3Q	2073	1Q	-6Q	b,h
Michigan	906	2085	1Q	2075	4Q	37Q	a,h
Virgin Islands	340	2089	3Q	2090	1Q	-2Q	b,h
Tennessee	731	2091	1Q	2080	4Q	41Q	a,h
Mississippi	228	2093	3Q	2096	3Q	-12Q	b,h
CNMI	670	2110	1Q	2110	1Q	N/C	h
Minnesota	952	2130	2Q	2115	2Q	60Q	a,h
Guam	671	2149	1Q	2150	1Q	-4Q	b,h
American Samoa	684	2180	1Q				h
New York	917						e

Table A7-3
Projected Exhaust Dates by Location

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Alabama	251	2033	2Q	2034	2Q	-4Q	b,h
Alabama	334	2026	2Q	2025	3Q	3Q	a,i
Alabama	205/659	2039	2Q	2036	3Q	11Q	a
Alabama	256/938	2040	4Q	2042	4Q	-8Q	b,h
Alaska	907	2041	3Q	2039	1Q	10Q	a,h
American Samoa	684	2180	1Q				h
Arizona	480	2023	4Q	2024	1Q	-1Q	b
Arizona	520	2027	1Q	2026	4Q	1Q	a
Arizona	602	2025	4Q	2025	3Q	1Q	a
Arizona	623	2061	2Q	2064	3Q	-13Q	b,h
Arizona	928	2028	1Q	2028	2Q	-1Q	b,h
Arkansas	479	2035	1Q	2033	3Q	6Q	a
Arkansas	501	2031	1Q	2029	4Q	5Q	a
Arkansas	870	2024	2Q	2025	1Q	-3Q	b,i
California	209	2022	4Q	2022	4Q	N/C	
California	530	2025	3Q	2026	2Q	-3Q	b,i
California	559	2025	3Q	2025	4Q	-1Q	b
California	562	2031	3Q	2031	2Q	1Q	a
California	626	2027	1Q	2027	3Q	-2Q	b
California	650	2029	3Q	2030	3Q	-4Q	b
California	661	2031	4Q	2031	4Q	N/C	
California	707	2023	1Q	2023	1Q	N/C	
California	831	2070	4Q	2080	1Q	-37Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
California	925	2037	3Q	2036	4Q	3Q	a
California	949	2026	3Q	2025	4Q	3Q	a
California	213/323	2025	2Q	2025	2Q	N/C	
California	279/916	2044	4Q	2045	1Q	-1Q	b,h
California	310/424	2037	3Q	2037	3Q	N/C	
California	341/510	2052	4Q	2051	2Q	6Q	a,h
California	408/669	2047	3Q	2052	3Q	-20Q	b,h
California	415/628	2064	1Q	2059	1Q	20Q	a,h
California	442/760	2034	1Q	2033	4Q	1Q	a,h
California	619/858	2029	3Q	2029	1Q	2Q	a
California	657/714	2026	2Q	2026	4Q	-2Q	b
California	747/818	2042	2Q	2042	4Q	-2Q	b,h
California	805/820	2058	3Q	2063	3Q	-20Q	b,h
California	840/909	2046	2Q	2043	2Q	12Q	a
California	951	2029	3Q	2028	4Q	3Q	a
Canada	506	2024	4Q	2024	4Q	N/C	c
Canada	709	2028	4Q	2028	4Q	N/C	c
Canada	867	2043	1Q	2043	1Q	N/C	c
Canada	204/431	2034	3Q	2034	3Q	N/C	c
Canada	226/519/548	2033	1Q	2033	1Q	N/C	c
Canada	236/250/604/672/778	2034	4Q	2034	4Q	N/C	c
Canada	249/705	2032	2Q	2032	2Q	N/C	c
Canada	289/365/742/905	2038	1Q	2038	1Q	N/C	c
Canada	306/474/639	2037	3Q	2037	3Q	N/C	c
Canada	343/613	2033	4Q	2033	4Q	N/C	c
Canada	403/587/780/825	2038	2Q	2038	2Q	N/C	c
Canada	416/437/647	2035	3Q	2035	3Q	N/C	c
Canada	418/581/367	2037	3Q	2037	3Q	N/C	c
Canada	438/514	2035	2Q	2035	2Q	N/C	c
Canada	450/579	2024	3Q	2024	3Q	N/C	c
Canada	782/902	2029	2Q	2029	2Q	N/C	c
Canada	807	2043	1Q	2043	1Q	N/C	c
Canada	819/873	2034	3Q	2034	3Q	N/C	c
CNMI	670	2110	1Q	2110	1Q	N/C	h
Colorado	719	2028	3Q	2031	4Q	-13Q	b
Colorado	970	2026	1Q	2026	1Q	N/C	
Colorado	303/720/983	2049	3Q	2023	1Q	106Q	f
Connecticut	203/475	2039	1Q	2040	3Q	-6Q	b,h
Connecticut	860/959	2041	3Q	2045	1Q	-14Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Delaware	302	2033	4Q	2033	1Q	3Q	a
District of Columbia	202/771	2054	1Q	2058	3Q	-18Q	b
Florida	239	2035	3Q	2035	2Q	1Q	a,h
Florida	352	2027	1Q	2026	1Q	4Q	a
Florida	386	2040	4Q	2039	1Q	7Q	a,h
Florida	561	2023	4Q	2023	3Q	1Q	a,i
Florida	727	2032	4Q	2032	2Q	2Q	a
Florida	772	2061	4Q	2057	1Q	19Q	a,h
Florida	863	2041	1Q	2042	4Q	-7Q	b,h
Florida	904	2024	3Q	2024	3Q	N/C	
Florida	941	2044	3Q	2044	1Q	2Q	a,h
Florida	305/786	2023	4Q	2023	4Q	N/C	
Florida	321/407/689	2039	4Q	2039	1Q	3Q	a,h
Florida	321A	2040	1Q	2041	4Q	-7Q	b,g,h
Florida	448/850	2056	4Q	2050	1Q	27Q	a
Florida	656/813	2048	2Q	2047	2Q	4Q	a
Florida	754/954	2043	3Q	2042	4Q	3Q	a,h
Georgia	229	2030	3Q	2030	2Q	1Q	a
Georgia	478	2046	2Q	2045	4Q	2Q	a,h
Georgia	912	2027	4Q	2027	4Q	N/C	
Georgia	404/470/678/770/943	2030	1Q	2030	2Q	-1Q	b
Georgia	706/762	2032	4Q	2032	2Q	2Q	a,h
Guam	671	2149	1Q	2150	1Q	-4Q	b,h
Hawaii	808	2037	2Q	2034	1Q	13Q	a
Idaho	208/986	2037	1Q	2039	1Q	-8Q	b,h
Illinois	309	2024	1Q	2023	2Q	3Q	a
Illinois	618	2024	2Q	2024	2Q	N/C	
Illinois	217/447	2035	4Q	2035	3Q	1Q	a
Illinois	224/847	2030	2Q	2030	2Q	N/C	
Illinois	312/773/872	2040	3Q	2041	4Q	-5Q	b,h
Illinois	331/630	2053	1Q	2057	4Q	-19Q	b,h
Illinois	464/708	2056	1Q	2062	1Q	-24Q	b
Illinois	779/815	2034	1Q	2032	4Q	5Q	a,h
Indiana	219	2042	2Q	2041	4Q	2Q	a,h
Indiana	260	2043	3Q	2044	3Q	-4Q	b,h
Indiana	574	2056	2Q	2053	4Q	10Q	a,h
Indiana	765	2026	1Q	2026	1Q	N/C	
Indiana	317/463	2044	3Q	2045	1Q	-2Q	b,h
Indiana	812/930	2042	4Q	2042	2Q	2Q	a,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Iowa	319	2034	4Q	2042	1Q	-29Q	b,h
Iowa	515	2034	3Q	2036	2Q	-7Q	b
Iowa	563	2041	1Q	2042	3Q	-6Q	b
Iowa	641	2035	2Q	2038	2Q	-12Q	b
Iowa	712	2030	2Q	2031	2Q	-4Q	b
Kansas	316	2053	4Q	2050	4Q	12Q	a,h
Kansas	620	2026	2Q	2027	4Q	-6Q	b
Kansas	785	2028	3Q	2026	4Q	7Q	a
Kansas	913	2044	4Q	2040	3Q	17Q	a
Kentucky	502	2027	3Q	2027	4Q	-1Q	b
Kentucky	606	2042	2Q	2043	3Q	-5Q	b,h
Kentucky	859	2051	1Q	2053	1Q	-8Q	b,h
Kentucky	270/364	2066	4Q	2074	2Q	-30Q	b,h
Louisiana	225	2037	2Q	2039	1Q	-7Q	b,h
Louisiana	318	2026	1Q	2026	2Q	-1Q	b
Louisiana	337	2037	1Q	2042	4Q	-23Q	b,h
Louisiana	504	2058	1Q	2057	2Q	3Q	a,h
Louisiana	985	2046	2Q	2053	2Q	-28Q	b,h
Maine	207	2027	1Q	2025	2Q	5Q	a,i
Maryland	240/301	2023	2Q	2023	4Q	-2Q	b,i
Maryland	410/443/667	2029	4Q	2030	1Q	-1Q	b
Massachusetts	413	2029	2Q	2029	2Q	N/C	h
Massachusetts	339/781	2071	3Q	2073	1Q	-6Q	b,h
Massachusetts	351/978	2055	3Q	2057	1Q	-6Q	b,h
Massachusetts	508/774	2030	1Q	2029	3Q	2Q	a
Massachusetts	617/857	2042	2Q	2040	3Q	7Q	a,h
Michigan	231	2030	4Q	2030	3Q	1Q	a,h
Michigan	269	2034	3Q	2034	4Q	-1Q	b,h
Michigan	313	2025	3Q	2025	3Q	N/C	
Michigan	517	2033	4Q	2033	3Q	1Q	a
Michigan	586	2048	4Q	2049	1Q	-1Q	b,h
Michigan	616	2039	2Q	2037	2Q	8Q	a
Michigan	734	2027	1Q	2028	1Q	-4Q	b
Michigan	810	2041	3Q	2046	4Q	-21Q	b,h
Michigan	906	2085	1Q	2075	4Q	37Q	a,h
Michigan	989	2026	2Q	2026	1Q	1Q	a
Michigan	248/947	2046	1Q	2049	3Q	-14Q	b,h
Minnesota	218	2026	4Q	2028	2Q	-6Q	b,h
Minnesota	320	2038	4Q	2041	3Q	-11Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Minnesota	507	2025	1Q	2025	1Q	N/C	
Minnesota	612	2038	3Q	2037	3Q	4Q	a
Minnesota	651	2063	1Q	2060	2Q	11Q	a,h
Minnesota	763	2069	4Q	2074	4Q	-20Q	b,h
Minnesota	952	2130	2Q	2115	2Q	60Q	a,h
Mississippi	228	2093	3Q	2096	3Q	-12Q	b,h
Mississippi	662	2026	2Q	2027	1Q	-3Q	b
Mississippi	601/769	2038	3Q	2040	3Q	-8Q	b,h
Missouri	417	2029	3Q	2028	3Q	4Q	a
Missouri	573	2024	3Q	2024	3Q	N/C	
Missouri	636	2056	1Q	2057	4Q	-7Q	b,h
Missouri	660	2043	3Q	2040	2Q	13Q	a,h
Missouri	816	2024	2Q	2024	2Q	N/C	
Missouri	314/557	2065	2Q	2022	3Q	171Q	f
Montana	406	2031	4Q	2028	4Q	12Q	a
Nebraska	308	2034	4Q	2030	2Q	18Q	a,h
Nebraska	402/531	2047	4Q	2048	1Q	-1Q	b,h
Nevada	775	2034	1Q	2038	1Q	-16Q	b
Nevada	702/725	2044	4Q	2043	4Q	4Q	a,h
New Hampshire	603	2028	2Q	2028	2Q	N/C	
New Jersey	856	2031	1Q	2030	3Q	2Q	a
New Jersey	908	2028	1Q	2027	1Q	4Q	a
New Jersey	201/551	2040	1Q	2041	4Q	-7Q	b,h
New Jersey	609/640	2054	4Q	2051	2Q	14Q	a,h
New Jersey	732/848	2043	4Q	2041	2Q	10Q	a,h
New Jersey	862/973	2036	1Q	2035	3Q	2Q	a,h
New Mexico	505	2029	2Q	2030	1Q	-3Q	b
New Mexico	575	2034	4Q	2038	3Q	-15Q	b,h
New York	516	2024	1Q	2023	2Q	3Q	a,i
New York	585	2027	4Q	2026	3Q	5Q	a
New York	607	2035	4Q	2033	3Q	9Q	a,h
New York	716	2024	2Q	2024	2Q	N/C	
New York	845	2024	3Q	2023	4Q	3Q	a,i
New York	914	2028	1Q	2027	2Q	3Q	a
New York	917						e
New York	212/646/332	2051	3Q	2051	3Q	N/C	
New York	315/680	2041	4Q	2038	2Q	14Q	a,h
New York	347/718/929	2027	2Q	2027	2Q	N/C	
New York	518/838	2036	4Q	2034	2Q	10Q	a,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
New York	631/934	2045	1Q	2043	4Q	5Q	a,h
North Carolina	252	2032	4Q	2031	3Q	5Q	a
North Carolina	828	2030	4Q	2030	4Q	N/C	
North Carolina	336/743	2042	4Q	2044	4Q	-8Q	b,h
North Carolina	472/910	2064	1Q	2023	1Q	164Q	f
North Carolina	704/980	2036	2Q	2036	4Q	-2Q	b
North Carolina	919/984	2043	2Q	2042	4Q	2Q	a,h
North Dakota	701	2030	3Q	2028	2Q	9Q	a
Ohio	216	2035	3Q	2032	2Q	13Q	a
Ohio	440	2024	3Q	2024	3Q	N/C	
Ohio	513	2023	4Q	2023	4Q	N/C	
Ohio	220/740	2052	2Q	2048	4Q	14Q	a,h
Ohio	234/330	2036	1Q	2035	1Q	4Q	a,h
Ohio	326/937	2052	3Q	2051	2Q	5Q	a,h
Ohio	380/614	2062	1Q	2057	2Q	19Q	a,h
Ohio	419/567	2036	2Q	2037	1Q	-3Q	b,h
Oklahoma	580	2027	3Q	2027	2Q	1Q	a
Oklahoma	405/572	2049	3Q	2050	2Q	-3Q	b
Oklahoma	539/918	2038	3Q	2040	1Q	-6Q	b,h
Oregon	458/541	2040	3Q	2044	2Q	-15Q	b,h
Oregon	503/971	2037	2Q	2039	3Q	-9Q	b
Pennsylvania	215/267/445	2041	2Q	2043	4Q	-10Q	b,h
Pennsylvania	223/717	2036	2Q	2036	3Q	-1Q	b,h
Pennsylvania	272/570	2036	2Q	2037	3Q	-5Q	b,h
Pennsylvania	412/724/878	2039	3Q	2041	1Q	-6Q	b,h
Pennsylvania	484/610/835	2065	1Q	2022	4Q	169Q	f
Pennsylvania	582/814	2042	4Q	2043	2Q	-2Q	b
Puerto Rico	787/939	2042	1Q	2043	2Q	-5Q	b,h
Rhode Island	401	2050	3Q	2045	4Q	19Q	a,h
South Carolina	864	2025	1Q	2025	1Q	N/C	
South Carolina	803/839	2044	3Q	2050	2Q	-23Q	b,h
South Carolina	843/854	2048	4Q	2049	1Q	-1Q	b,h
South Dakota	605	2025	4Q	2025	3Q	1Q	a,i
Tennessee	423	2025	3Q	2025	3Q	N/C	
Tennessee	731	2091	1Q	2080	4Q	41Q	a,h
Tennessee	865	2041	4Q	2044	4Q	-12Q	b,h
Tennessee	901	2034	4Q	2035	1Q	-1Q	b
Tennessee	931	2044	4Q	2053	2Q	-34Q	b,h
Tennessee	615/629	2043	4Q	2047	2Q	-14Q	b,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Texas	254	2028	4Q	2027	4Q	4Q	a
Texas	325	2050	4Q	2045	2Q	22Q	a,h
Texas	361	2040	1Q	2040	1Q	N/C	h
Texas	409	2045	1Q	2044	1Q	4Q	a,h
Texas	432	2063	4Q	2055	1Q	35Q	a,h
Texas	806	2027	4Q	2025	4Q	8Q	a
Texas	830	2039	1Q	2041	4Q	-11Q	b,h
Texas	915	2053	3Q	2053	3Q	N/C	h
Texas	936	2044	1Q	2042	4Q	5Q	a,h
Texas	940	2040	4Q	2039	1Q	7Q	a
Texas	956	2026	4Q	2027	2Q	-2Q	b
Texas	979	2057	1Q	2056	4Q	1Q	a,h
Texas	210/726	2053	3Q	2055	2Q	-7Q	b,h
Texas	214/469/945/972	2031	2Q	2031	1Q	1Q	a
Texas	281/346/713/832	2026	1Q	2025	4Q	1Q	a
Texas	430/903	2038	1Q	2036	4Q	5Q	a,h
Texas	512/737	2035	2Q	2034	4Q	2Q	a
Texas	682/817	2036	4Q	2037	1Q	-1Q	b
Utah	435	2040	4Q	2038	1Q	11Q	a,h
Utah	385/801	2032	1Q	2031	3Q	2Q	a
Vermont	802	2036	1Q	2035	4Q	1Q	a
Virgin Islands	340	2089	3Q	2090	1Q	-2Q	b,h
Virginia	276	2044	3Q	2044	4Q	-1Q	b,h
Virginia	434	2034	4Q	2034	3Q	1Q	a,h
Virginia	804	2024	3Q	2024	3Q	N/C	
Virginia	540/826	2044	3Q	2022	2Q	89Q	f
Virginia	571/703	2031	3Q	2031	2Q	1Q	a
Virginia	757/948	2047	2Q	2022	2Q	100Q	f
Washington	206	2025	4Q	2025	3Q	1Q	a,i
Washington	253	2052	2Q	2052	1Q	1Q	a,h
Washington	425	2034	1Q	2033	3Q	2Q	a
Washington	509	2027	1Q	2026	2Q	3Q	a
Washington	360/564	2058	4Q	2062	4Q	-16Q	b,h
West Virginia	304/681	2031	1Q	2029	4Q	5Q	a
Wisconsin	262	2034	2Q	2031	4Q	10Q	a,h
Wisconsin	414	2048	1Q	2046	4Q	5Q	a,h
Wisconsin	608	2024	1Q	2024	1Q	N/C	
Wisconsin	920	2024	1Q	2023	4Q	1Q	a
Wisconsin	534/715	2055	3Q	2054	4Q	3Q	a,h

LOCATION	NPA	2022.2 FCST		2022.1 FCST		Change 2022.1 to 2022.2	Notes Comments
		Year	Quarter	Year	Quarter		
Wyoming	307	2040	4Q	2039	4Q	4Q	a,h

ATTACHMENT 8

2022 April and October NANP Exhaust Analyses

Introduction

NANPA projects the exhaust of the NANP based upon the current NPA Exhaust Analysis and the utilization and forecast data submitted by service providers via the Numbering Resource/Utilization Forecast Report (“NRUF”) process. The following assumptions were also used in this exhaust analysis.

April 2022 NANP Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the April 2022 NANP exhaust projections prepared by NANPA:

1. The NANP exhaust study uses as its basis the CO code demand, which includes service provider and thousands-block pooling 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 using statistical analyses similar to the analysis NANPA uses to forecast the exhaust of NPAs, i.e., service provider forecasts and historical CO code assignment data.
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 thousands-block pooling forecasts 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 CO codes in the existing NPAs are duplicated in the new NPA. There may be times, however, when additional CO 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 CO 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 considered for the geographic area covered by the original NPA.

7. The total quantity of assignable NPAs is 679 NPAs. This figure is derived as follows: 800 NPAs less 121 unavailable NPAs: 80 (NANP expansion), 8 (N11 codes), 2 (555 and 950), 20 (37X and 96X), 9 (880 – 887 and 889), 1 (456 which will be made available in 2022) and 1 (988).
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.

April 2022 Results based on Assumptions

As recognized in previous NANP exhaust analyses, the model is sensitive to the yearly CO code demand rate. Using the April 2022 NPA Exhaust Analysis and the CO code demand included in NRUF submissions, an average yearly demand rate of 5,531 CO codes was calculated. This yearly demand rate was compared with U.S. CO code demand rates in 2017 through 2022.

Year	Annual Gross CO Code Demand	Annual Net CO Code Demand
2017	2,700	2,500
2018	2,800	2,500
2019	2,926	2,650
2020	4,030	3,346
2021	4,966	4,835
2022	5,531	2,531

To project the exhaust of the NANP, an average annual demand of 6,187 CO codes was used. This demand factors in the forecast data submitted as part of the February 2022 NRUF process and the demand in non-US NANP member area codes.³⁹

Model Based on Projected Demand

Using an average CO code demand rate of 6,187 codes assigned per year, the projected NANP exhaust date is 2055, assuming the quantity of NPAs assignable remains 679.

Sensitivity Analysis

For comparison purposes, NANPA performed a sensitivity analysis using an average annual demand to 7,424 CO codes, a 20% increase in the base model demand. This analysis resulted in a projected exhaust of 2048.

October 2022 NANP Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the October 2022 NANP exhaust projections prepared by NANPA:

³⁹ NANPA included an annual forecast of 656 CO codes for non-US NANP member countries.

1. The NANP exhaust study uses as its basis the Central Office (“CO”) code demand, which includes service provider and thousands-block pooling forecasts, historical CO code assignments and other Numbering Plan Area (“NPA”)-specific information, calculated for each respective NPA. The monthly CO code demand as calculated in the NPA exhaust analysis using statistical analyses similar to the analysis NANPA uses to forecast the exhaust of NPAs, i.e., service provider forecasts and historical CO code assignment data.
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 thousands-block pooling forecasts 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. Generally the unassignable CO codes in the existing NPAs are duplicated in the new NPA. There may be times, however, when additional CO 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 CO 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 considered for the geographic area covered by the original NPA.
7. 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.

October 2022 Results based on Assumptions

As recognized in previous NANP exhaust analyses, the model is sensitive to the yearly CO code demand rate. Using the October 2022 NPA Exhaust Analysis and the CO code demand included in NRUF submissions, an average yearly gross CO code demand rate of 6,561 CO codes was calculated. This yearly demand rate was compared with U.S. CO code demand rates in 2017 through 2022.

Year	Annual Goss CO Code Demand	Annual Net CO Code Demand
2017	2,700	2,500
2018	2,800	2,500
2019	2,926	2,650
2020	4,030	3,346
2021	4,966	4,835
2022	6,561	3,849

To project the exhaust of the NANP, an average annual gross demand of 6,561 CO codes was used. This demand factors in the forecast data submitted as part of the August 2022 NRUF process and the demand in non-US NANP member area codes.⁴⁰

Model Based on Projected Demand

Using an average gross CO code demand rate of 6,561 codes assigned per year, the projected NANP exhaust date is 2054, assuming the quantity of NPAs remains at 677.

This figure of 677 NPAs is derived as follows: 800 NPAs less the 11 NPAs that are unavailable⁴¹ for assignment: N11 NPA codes (8), 555 and 950 NPA codes (2), and 988 NPA code (1); and less the 112 NPAs that are reserved⁴² for: NANP expansion (80), 880 – 887 and 889 toll-free NPA codes (9) and non-geographic NPA codes⁴³ (23)

Sensitivity Analysis

For comparison purposes, NANPA performed a sensitivity analysis using an average annual demand to 7,873 CO codes, a 20% increase in the base model demand. This analysis resulted in a projected exhaust of 2047.

⁴⁰ NANPA included an annual forecast of 656 CO codes for non-US NANP member countries

⁴¹ Per Section 4.2, NPA Allocation Plan And Assignment Guidelines, ATIS-0300055.

⁴² Per Section 4.3 and 11.0, NPA Allocation Plan And Assignment Guidelines, ATIS-0300055.

⁴³ Includes 23 NPA codes, 18 reserved for non-geographic services (532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558) and 5 reserved for Canada (633, 644, 655, 677 and 688).

Attachment 9

2022 5XX NPA Exhaust Analyses

Introduction

NANPA projects the exhaust of the 5XX NPA resources based upon the utilization and forecast data submitted by service providers via the NRUF process. The following assumptions were used in this exhaust analysis. The 5XX NPAs currently in service are 500, 521, 522, 523, 524, 525, 526, 527, 528, 529, 533, 544, 566, 577 and 588.

April 2022 5XX NPA Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the April 2022 5XX NPA exhaust projection prepared by NANPA.

1. The 5XX NPA exhaust study uses as its basis the NXX code forecasts submitted via the NRUF reporting process and historical NXX code assignment information. The five-year total forecasted demand is used to calculate the number of 5XX NPAs that will be needed over the next five years. This demand is also used to forecast when the current quantity of assigned and reserved 5XX NPAs will exhaust.⁴⁴
2. A new 5XX NPA will be required when the number of assigned and unassignable NXX codes reaches 800.
3. It is assumed that each new 5XX NPA will require the same number of unassignable codes as the current 5XX NPA.

Results Based on Assumptions

Using the February 2022 NRUF data, the aggregated forecasted demand for 5XX-NXXs for 2022 through 2026 ranges from 1,900 NXXs to 2,400 NXXs per year. Below is the demand rate versus the actual assignment rate from 2017 through 2021.

⁴⁴ The 5XX NPAs reserved for future expansion include the following: (529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558).

Year	Annual Gross 5XX NXX Code Demand	Annual Net 5XX NXX Code Demand
2017	781	700
2018	1,146	1,108
2019	700	618
2020	1,356	1,186
2021	1,592	1,582

The average annual demand for non-geographic 5XX NPA NXX codes for the next five years is 2,200 NXX codes. It is expected that 13 new 5XX NPAs are needed over the next five years.

In projecting the exhaust of the assigned and reserved 5XX NPAs (14 assigned 5XX NPAs and 19 reserved 5XX NPAs), an annual demand rate of 2,220 5XX-NXXs was used, resulting in the projected exhaust in seven years.

October 2022 5XX Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the October 2022 5XX NPA exhaust projection prepared by NANPA.

1. The 5XX NPA exhaust study uses as its basis the NXX code forecasts submitted via the NRUF reporting process and historical NXX code assignment information. The five-year total forecasted demand is used to calculate the number of 5XX NPAs that will be needed over the next five years. This demand is also used to forecast when the current quantity of assigned and reserved 5XX NPAs will exhaust.⁴⁵
2. A new 5XX NPA will be required when the number of assigned and unassignable NXX codes reaches 800.
3. It is assumed that each new 5XX NPA will require the same number of unassignable codes as the current 5XX NPA.

Results Based on Assumptions

Using the August 2022 NRUF data, the aggregated forecasted demand for 5XX-NXXs for 2022 through 2026 ranges from 1,500 NXXs to 2,100 NXXs per year. Below is the demand rate versus the actual assignment rate from 2017 through 2021.

⁴⁵ The 5XX NPAs reserved for future expansion include the following: (532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558).

Year	Annual Gross 5XX NXX Code Demand	Annual Net 5XX NXX Code Demand
2017	781	700
2018	1,146	1,108
2019	700	618
2020	1,356	1,186
2021	1,592	1,582

The average annual demand for non-geographic 5XX NPA NXX codes for the next five years is 1,900 NXX codes. It is expected that 11 new 5XX NPAs are needed over the next five years.

In projecting the exhaust of the assigned and reserved 5XX NPAs (15 assigned 5XX NPAs and 18 reserved 5XX NPAs), an annual demand rate of 1,900 5XX-NXXs was used, resulting in the projected exhaust in eight years.

Attachment 10
NXXs Saved by Pooling as of December 31, 2022
Sorted by NPA

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
NEW JERSEY	201/551	443
DISTRICT OF COLUMBIA	202/771	30
CONNECTICUT	203/475	443
ALABAMA	205/659	539
WASHINGTON	206	74
MAINE	207	861
IDAHO	208/986	560
CALIFORNIA	209/350	507
TEXAS	210/726	33
NEW YORK	212/332/646/917	46
CALIFORNIA	213/323	269
TEXAS	214/469/945/972	635
PENNSYLVANIA	215/267/445	595
OHIO	216	70
ILLINOIS	217/447	946
MINNESOTA	218	531
INDIANA	219	434
OHIO	220/740	1428
PENNSYLVANIA	223/717	977
ILLINOIS	224/847	740
LOUISIANA	225	279
MISSISSIPPI	228	137
GEORGIA	229	348
MICHIGAN	231	770
OHIO	234/330	936
FLORIDA	239	172
MARYLAND	240/301	760
MICHIGAN	248/947	376
ALABAMA	251	230
NORTH CAROLINA	252	593
WASHINGTON	253	120
TEXAS	254	558
ALABAMA	256/938	674
INDIANA	260	473
WISCONSIN	262	561
MICHIGAN	269	690

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
KENTUCKY	270/364	700
PENNSYLVANIA	272/570	1295
VIRGINIA	276	453
CALIFORNIA	279/916	225
TEXAS	281/346/713/832	639
DELAWARE	302	382
COLORADO	303/720/983	133
WEST VIRGINIA	304/681	1426
FLORIDA	305/786	146
WYOMING	307	284
NEBRASKA	308	319
ILLINOIS	309	814
CALIFORNIA	310/424	331
ILLINOIS	312/872	37
MICHIGAN	313	131
MISSOURI	314/557	110
NEW YORK	315/680	1213
KANSAS	316	160
INDIANA	317/463	434
LOUISIANA	318	577
IOWA	319	473
MINNESOTA	320	486
FLORIDA	321	84
FLORIDA	321/407/689	292
TEXAS	325	313
OHIO	326/937	823
ILLINOIS	331/630	445
ALABAMA	334	511
NORTH CAROLINA	336/743	534
LOUISIANA	337	420
MASSACHUSETTS	339/781	614
CALIFORNIA	341/510	251
NEW YORK	347/718/917/929	353
MASSACHUSETTS	351/978	842
FLORIDA	352	526
WASHINGTON	360/564	454
TEXAS	361	469
OHIO	380/614	239
UTAH	385/801	254
FLORIDA	386	344
RHODE ISLAND	401	318

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
NEBRASKA	402/531	818
GEORGIA	404/470/678/943	33
OKLAHOMA	405/572	514
MONTANA	406	413
CALIFORNIA	408/669	201
TEXAS	409	297
MARYLAND	410/443/667	1219
PENNSYLVANIA	412/878	366
MASSACHUSETTS	413	623
WISCONSIN	414	64
CALIFORNIA	415/628	255
MISSOURI	417	642
OHIO	419/567	1189
TENNESSEE	423	527
WASHINGTON	425	150
TEXAS	430/903	1030
TEXAS	432	231
VIRGINIA	434	532
UTAH	435	269
OHIO	440	606
CALIFORNIA	442/760	934
FLORIDA	448/850	413
OREGON	458/541	918
ILLINOIS	464/708	524
GEORGIA	470/678/770/943	532
NORTH CAROLINA	472/910	615
GEORGIA	478	225
ARKANSAS	479	271
ARIZONA	480	22
PENNSYLVANIAA	484/610/835	1159
ARKANSAS	501	443
KENTUCKY	502	377
OREGON	503/971	448
LOUISIANA	504	68
NEW MEXICO	505	197
MINNESOTA	507	678
MASSACHUSETTS	508/774	1256
WASHINGTON	509	506
TEXAS	512/737	450
OHIO	513	256
IOWA	515	437

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
NEW YORK	516	242
MICHIGAN	517	532
NEW YORK	518/838	1359
ARIZONA	520	180
CALIFORNIA	530	851
WISCONSIN	534/715	803
OKLAHOMA	539/918	712
VIRGINIA	540/826	769
CALIFORNIA	559	502
FLORIDA	561	182
CALIFORNIA	562	153
IOWA	563	391
VIRGINIA	571/703	312
MISSOURI	573	1140
INDIANA	574	354
NEW MEXICO	575	374
OKLAHOMA	580	652
PENNSYLVANIA	582/814	1138
NEW YORK	585	692
MICHIGAN	586	198
MISSISSIPPI	601/769	757
ARIZONA	602	14
NEW HAMPSHIRE	603	789
SOUTH DAKOTA	605	329
KENTUCKY	606	516
NEW YORK	607	665
WISCONSIN	608	711
NEW JERSEY	609/640	660
MINNESOTA	612	29
TENNESSEE	615/629	431
MICHIGAN	616	476
MASSACHUSETTS	617/857	359
ILLINOIS	618	1048
CALIFORNIA	619/858	268
KANSAS	620	868
ARIZONA	623	14
CALIFORNIA	626	164
NEW YORK	631/934	909
MISSOURI	636	458
IOWA	641	690
CALIFORNIA	650	253

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
MINNESOTA	651	134
FLORIDA	656/813	187
CALIFORNIA	657/714	247
MISSOURI	660	512
CALIFORNIA	661	352
MISSISSIPPI	662	1023
TEXAS	682/817	322
NORTH DAKOTA	701	239
NEVADA	702/725	104
NORTH CAROLINA	704/980	578
GEORGIA	706/762	820
CALIFORNIA	707	934
IOWA	712	539
NEW YORK	716	775
COLORADO	719	357
PENNSYLVANIA	724/878	1396
FLORIDA	727	97
TENNESSEE	731	472
NEW JERSEY	732/848	682
MICHIGAN	734	512
CALIFORNIA	747/818	302
FLORIDA	754/954	132
VIRGINIA	757/948	396
MINNESOTA	763	65
INDIANA	765	988
FLORIDA	772	181
ILLINOIS	773/872	221
NEVADA	775	402
ILLINOIS	779/815	1406
KANSAS	785	583
PUERTO RICO	787/939	380
VERMONT	802	692
SOUTH CAROLINA	803/839	565
VRGINIA	804	634
CALIFORNIA	805/820	528
TEXAS	806	352
HAWAII	808	84
MICHIGAN	810	581
INDIANA	812/930	962
MISSOURI	816	492
NORTH CAROLINA	828	528

STATE	NPA	QUANTITY OF NXXS SAVED BY POOLING
TEXAS	830	657
CALIFORNIA	831	281
CALIFORNIA	840/909	371
SOUTH CAROLINA	843/854	519
NEW YORK	845	1109
NEW JERSEY	856	529
KENTUCKY	859	328
CONNECTICUT	860/959	684
NEW JERSEY	862/973	740
FLORIDA	863	317
SOUTH CAROLINA	864	548
TENNESSEE	865	329
ARKANSAS	870	795
TENNESSEE	901	124
FLORIDA	904	283
MICHIGAN	906	336
ALASKA	907	49
NEW JERSEY	908	488
GEORGIA	912	355
KANSAS	913	194
NEW YORK	914	467
TEXAS	915	77
NORTH CAROLINA	919/984	432
WISCONSIN	920	945
CALIFORNIA	925	290
ARIZONA	928	419
TENNESSEE	931	527
TEXAS	936	422
TEXAS	940	364
FLORIDA	941	224
CALIFORNIA	949	124
CALIFORNIA	951	352
MINNESOTA	952	36
TEXAS	956	299
COLORADO	970	754
TEXAS	979	390
LOUISIANA	985	440
MICHIGAN	989	883