NANPA

North American Numbering Plan Administrator

2021 Annual Report

March 2022

TABLE OF CONTENTS

1. DESCRIPTION OF THE NORTH AMERICAN NUMBERING PLAN AND THE NORTH AMERICAN NUMBERING PLAN ADMINISTRATOR 3
2. NANPA 2021 HIGHLIGHTS 6
3. DESCRIPTION AND STATUS OF NUMBERING PLAN AREAS (NPAS) 17
4. DESCRIPTION AND STATUS OF GEOGRAPHIC RESOURCES ACTIVITY 33
5. FORECAST RESULTS AND REVIEW OF FORECASTS VERSUS ACTUAL THOUSANDS-BLOCK ASSIGNMENTS 57
6. DESCRIPTION AND STATUS OF NON-GEOGRAPHIC RESOURCES ACTIVITY 71
7. DESCRIPTION AND STATUS OF P-ANI ADMINISTRATION 79
8. NUMBERING RESOURCE UTILIZATION/FORECAST 82
9. DESCRIPTION AND STATUS OF NPA RELIEF PLANNING 85
10. SYSTEMS AND PERFORMANCE METRICS 93
11. STATUS OF REQUIRED TRANSFERABLE PROPERTY 99
12. INDUSTRY ISSUE IDENTIFICATION/FEEDBACK 100
13. VOLUME OF REPORTS PRODUCED IN 2021 AGGREGATED BY REGULATORY AGENCY, NANC, NANPA/PA, AND SERVICE PROVIDERS OR OTHER ASSIGNEES 105
14. HISTORICAL TRENDS FROM 2017 THROUGH 2021 108
15. ADDITIONAL INFORMATIONAL OFFERINGS 123

ATTACHMENT 1: NPAS IN SERVICE – BY LOCATION 129
ATTACHMENT 2: NPAS IN SERVICE - SORTED BY NPA 139
ATTACHMENT 3: NON-GEOGRAPHIC NPAS IN SERVICE 150
ATTACHMENT 4: NPA DIALING PLANS 152
ATTACHMENT 5: AGGREGATED TOTAL BY POOL OF THE SERVICE PROVIDERSPARTICIPATING IN THE POOLED AREAS 163
ATTACHMENT 6: NATIONAL ROUTING NUMBER ADMINISTRATION 2021 P-ANI ACTIVITY AND PROJECTED EXHAUST REPORT 167
ATTACHMENT 7: 2021 NPA EXHAUST PROJECTIONS 193
ATTACHMENT 8: 2021 NANP EXHAUST ANALYSES 215
ATTACHMENT 9: 2021 NANP EXHAUST ANALYSES 218

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.

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 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 Central Office ("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 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. By the beginning of national pooling, in March 2002, the Pooling Administrator ("PA") was managing 22 state pooling trials in 83 NPAs. On June 15, 2001, the FCC awarded a federal contract for pooling administration to Neustar who remained as such through December 31, 2018 via a competitive bidding process.

On October 5, 2018, the FCC awarded contract number 273FCC19C0002, a one-year bridge contract for NANPA, PA, and Routing Number Administrator ("RNA") services, to Somos, Inc. The NANPA and PA transitioned the NANPA 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. 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., a wholly-owned direct subsidiary of Somos, Inc., the 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, US 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 in the best interest of all participants in the NANP.

1.3 NANPA Neutrality

In accordance with FCC regulations,[1] 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 directives and Industry-developed guidelines. The NANC provides 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

[1] 47 C.F.R. § 52.12

  - 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

- NPA relief planning, including:

  - Initiating NPA (also known as area code) relief planning 36 months prior to forecasted exhaust and developing an Industry consensus plan for introducing a new area code
  - Filing 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:

  - 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
  - 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 resource administration, 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

For questions about the *2021 NANPA Annual Report*, please contact Florence Weber, Sr. Director-NANPA, by email at fweber@nanpa.com or by phone at 925-420-0340.

2 NANPA 2021 HIGHLIGHTS

2.1 OVERALL 2021 PERFORMANCE SUMMARY:

- The NANPA met all performance measurements for the reporting period for the year.[2]
- NANPA also combined the NANPA, PA, and Routing Numbering Administrator (RNA) organizations, including the following:
    - Changed email addresses for all NANPA personnel from @somos.com to @nanpa.com
    - Changed the support email addresses for NANPA, PA and RNA to support@nanpa.com
    - Changed the support telephone numbers for NANPA, PA, and RNA to 1-866-623-2282
    - Lead the effort to change the existing INC forms as NANPA moves to a new consolidated NANP Administration System
    - Reduced processing time for pooled code requests between NAS and PAS to seven calendar days from 14 calendar days

2.1.1 NUMBERING RESOURCES (GEOGRAPHIC) PERFORMANCE MEASUREMENTS:

★ NANPA met 100% of geographic resource processing measurements.
For further details on geographic resource performance, see Section 4

KEY 2021 GEOGRAPHIC RESOURCE PROCESSING ACCOMPLISHMENTS
Assigned 6,970 CO codes in 2021 compared to 4,895 codes in 2020
Issued 35,773 Part 3s in 2021 compared to 14,679 in 2020
Of the 35,773 applications processed, 24,934 CO Code Applications were passed through to NAS from PAS as compared to 10,526 in 2020
Issued 340,814 Part 3As in 2021 compared to 210,009 in 2020
Opened 5,767 codes for pool replenishment in 2021 compared to 4,152 in 2020
Managed jeopardy procedures in 13 NPAs

[2] Details in the summaries contained herein

- **CO CODE INFORMATION:**

Table 2-1
2021 CO Code Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications processed	35,773
Quantity of applications not processed in 7 calendar days	0
Quantity of CO codes assignments made	6,970
Quantity of change requests to CO codes	27,297
Quantity of CO codes returned	263
Quantity of CO codes reclaimed	0
Quantity of CO code reservation requests	0
Quantity of CO code requests suspended	364
Quantity of CO code requests withdrawn	109
Quantity of CO code requests denied	835

- **THOUSANDS-BLOCK INFORMATION:**

Table 2-2
2021 Thousands-Block Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications (Part 3As) processed	340,814
Quantity of applications not processed in 7 calendar days	0
Quantity of thousands-block assignments made	102,837
Quantity of change requests to existing thousands-blocks	180,004
Quantity of requests to cancel or withdraw	1,327
Quantity of thousands-block disconnect requests	17,941
Quantity of thousands-block requests denied	6,408
Quantity of thousands-block requests suspended	32,278
Quantity of thousand-block reservation requests	13
Quantity of thousand-blocks reclaimed	9
Quantity of new blocks on reclamation list	2,170
Total Quantity of blocks on reclamation list	5,669
Quantity of rate center status changes	134
Quantity of RCs with < 6 months inventory based on forecast	23,642
Quantity of RCs < 6 mos inv based on forecast and zero blocks	12,083
Quantity of RCs with blocks in pending status	13,345
Quantity of codes opened for pool replenishment	5,767

- **MANAGING JEOPARDY NPAS:**

NANPA declared nine NPAs to be in jeopardy in 2021 (Virginia 540 and 757, Pennsylvania 484/610, Ohio 513, Florida 305/786, 561, and 813, Missouri 314, and New York 516) and rescinded jeopardy in three NPAs (Illinois 217, District of Columbia 202, and Florida 813) due to implementation of the relief NPA. See Section 4.3.5 for details.

- **p-ANI INFORMATION:**

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

Table 2-3
P-ANI Resources Performance Measurements

PERFORMANCE MEASUREMENTS	TOTAL
Quantity of applications processed	3,647
Quantity of approved applications processed	3,638
Quantity of suspended applications processed	0
Quantity of withdrawn applications processed	8
Quantity of denied applications processed	1
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	26,506
Quantity of p-ANIs assigned	26,286
Quantity of change requests	9
Quantity of p-ANIs returned	2,014
Quantity of requests to cancel	1

- **Other RNA Activities:**

  - Worked with carriers to resolve data discrepancies
  - Continued working on reconciling duplicate assignment issues
  - Processed carriers' annual reports and semi-annual forecasts
  - Completed and posted the P-ANI Activity and Projected Exhaust Report
  - Worked with carriers on supporting documentation issues.

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
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	2
5XX	1,582
900	0
VSC	0
Changes	
CICs	47
5XX	574
900	0
VSC	0
Denials	
CICs	4
5XX	4
900	0
VSC	0
Reclamations - Returns	
CICs	27
5XX	214
900	0
VSC	0
Withdrawn	
CICs	5
5XX	0
900	0
VSC	0
Total Processed	**2,459**

2.1.3 NRUF PERFORMANCE MEASUREMENTS:

NANPA met 100% of NRUF performance measurements in 2021. For further details on NRUF performance, see Section 8.

Table 2-5
NRUF Quantitative Measurements

QUANTITATIVE MEASUREMENTS	TOTAL
Form 502 Email Submissions	6,247
Form 502 FTP Submissions	1,912
Form 502 Web Submissions	4,441
Error Notifications Sent	1,435
Missing Utilization Notifications Sent	541
Anomalous Notifications Sent	634
Confirmation Notifications Sent	6,703
State Reports Created	32

Table 2-6
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
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.	10	100%
2. 8-week, 3 wks. or 2 mo. initial meeting notification	10	100%
3. 4-week IPD distribution prior to meeting	6	100%
4. 2-week distribution of meeting minutes	32	100%
5. Minutes review 3-weeks after meeting	6	100%
6. 6-week filing of Industry relief plan	11	100%
7. NPA assignment request 1 week after regulatory approval	4	100%
8. Issue press release within 2 weeks after NPA assignment	N/A	N/A
9. Hold initial implementation meeting within 45 calendar days after NPA assignment	7	100%
10. Post PL on website 3 weeks after the initial implementation meeting	6	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	1	100%
12. Hold jeopardy meeting within 30 calendar days after jeopardy declaration	7	100%
13. Distribute meeting minutes within 15 business days of jeopardy meeting.	9	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	115	100%
Average days PMs missed	0	0

2.2 STATUS OF NPA CODES AS OF DECEMBER 31, 2021:

Of a possible 800 combinations:

- 121 NPAs are not Available for Assignment[3]
- 679 NPAs are assignable:
  - 450 are currently assigned
  - 426 are in service of which 401 are geographic and 25 are non-Geographic[4]
  - 24 are awaiting Implementation[5]
- 288 are currently unassigned
  - 188 are general purpose of which 143 are reserved[6]and 45 are available
  - 41 are Easily Recognizable Codes (ERCs) of which 5 are reserved[7] and 36 are available

3 OTHER PERFORMANCE METRICS (TRD SECTIONS 11.11, 11.12, 13.3.1, 13.3.2 AND 13.3.3):

- **SYSTEMS PERFORMANCE MEASUREMENTS:**

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

Table 2-8
Systems Performance Measurements

SYSTEMS	2021 AVAILABILITY AVERAGE
Percentage NAS Scheduled (NAS)	100%
Percentage PAS Scheduled uptime	99.99%[8]
Percentage RNAS Scheduled uptime	100%

- **SYSTEMS MAINTENANCE:**

  - Maintenance was performed on NAS, PAS and RNAS on May 6, using none of the FCC-approved downtime and with no disruption of customer accessibility

[3] 121 unavailable NPAs include the following: 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).
[4] In-service non-geographic NPAs include 500, 521, 522, 523, 524, 525, 526, 527, 533, 544, 566, 577, 588, 600, 622, 700, 710, 800, 833, 844, 855, 866, 877, 888, and 900.
[5] NPA awaiting implementation is one toll-free NPA (822). Remaining 23 NPAs are geographic NPAs and are listed in Table 3-4.
[6] 20 reserved 5XX resources included in General Purpose (528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558)
[7] Reserved ERCs include five Canadian NPAs (633, 644, 655, 677 and 688).
[8] Includes 43 minutes of unscheduled down time on April 27, 2021.

- **OTHER PERFORMANCE MEASUREMENTS:**
  - **TROUBLE TICKETS:**
    - Opened no trouble tickets.
  - **COMMUNICATIONS:**
    - Total Phone Calls: 1,213
    - Help Desk Calls: 1,541
    - Total: 2,754
  - **CHANGE ORDERS:**
    - NANPA submitted no change orders.
  - **AD HOC REPORTS:**
    - NANPA provided 133 Ad Hoc Reports
      - 12 FCC reports
      - 58 service provider reports
      - 63 state reports

4 NPA RELIEF PLANNING:

KEY 2021 NPA RELIEF PLANNING ACCOMPLISHMENTS
Managed 30 active NPA relief projects compared to 17 in 2020
Initiated nine relief projects in 2021 compared to six in 2020
Completed implementation for seven NPAs in 2021 compared to three in 2020
Made 14 regulatory filings in 2021 compared to four in 2020
Published eight Planning Letters
Declared a jeopardy condition in nine NPAs compared to two in 2020
Managed jeopardy procedures in 13 NPAs
Posted the new exhaust projections to the website on April 21 and October 14.

- **NPA Relief Planning Highlights:**
  - Worked on 30 active relief projects in 2021
  - Ended 2021 with one relief project for which an Industry meeting notice to begin relief planning was sent, eight NPA relief projects with filings pending at the state, 20 relief projects in the implementation process
  - Implemented seven new NPAs in service
  - Completed 22 regulatory submissions, 14 of which were petitions or applications
  - Facilitated a total of 38 Industry meetings, via a web meeting, compared to 18 Industry meetings facilitated in 2020
  - Attended 77 Industry NPA relief committee meetings, providing status

updates as needed
- Attended and participated in a webcast recording for the California 209 NPA in April and the California 707 NPA in June
- Attended and participated in virtual public meeting in November relating to the Florida 561 NPA relief project, and a virtual public meeting in December relating to the Florida 305/786 NPA relief project
- Attended two virtual public hearings relating to the New York 516 NPA relief project

- **Exhaust Projections:**

  - **NPA Exhaust Projections:**

    - NANPA completed two cycles of 2021 NPA exhaust projections in April and October
    - Upon approval by the FCC, the new exhaust projections were posted to the website on April 21 and October 14

  - **Delta NRUF NPA Exhaust Projections:**

    - NANPA issued four Delta NRUF projected NPA exhaust projections in 2021 for a total of 11 NPAs

5 REGULATORY:

- Provided state-specific numbering educational presentations for 13 states, conducting approximately 90-minute meetings with regulatory staff
- Sent 12 notifications to states seeking approval to disconnect a code where no service provider with blocks or ports on the code have agreed to take over the code. Block or port holders took over all of the codes to prevent disconnection

6 INDUSTRY SUPPORT:

- Participated in 177 Industry meetings either in-person or by conference call.
- Industry Meetings:
  - Industry Numbering Committee (INC):
    - Submitted 21 new issues and 45 new contributions at the INC
  - Common Interest Group on Rating and Routing (CIGRR):
    - Submitted two new issues and 45 new contributions at CIGRR
  - Attended meetings of the North American Numbering Council (NANC), Next Generation Interconnection Interoperability Forum (NGIIF), Number Portability Industry Forum (NPIF), and Telecom Management and Operations Committee (TMOC) as well as NPA Relief Industry committee meetings
- Worked closely with service providers to process three requests for expedites related to COVID-19
- Made 134 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 177 significant NANPA customer focus items
- Assisted service providers and state regulators with finding and completing CO codes transfers for LRN codes:
  - Of the 161 requests to seek a possible transfer of CO codes, NANPA is aware of approximately 100 CO codes that were saved from being assigned

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

7 REPORTING:

- Produced a total of 647 reports for the FCC, state regulators, the NANC, service providers, and other.
- Submitted all 174 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 174 reports, 133 were ad hoc reports that were produced within three business days.
- Submitted 10 Contract Data Requirements List (CDRL) Plans to the FCC on time.

8 OTHER NANPA PERFORMANCE ACTIVITIES:

Find more details on these activities in Section 4.

- **Reclamation:**

  - **CO Codes:**
    - There was a total of 497 CO Codes on the reclamation list, with 103 of those being new
    - NANPA reclaimed no CO Codes

  - **Thousands-Blocks:**
    - There was a total of 5,669 thousands-blocks on the reclamation list, with 2,170 being new
    - NANPA reclaimed nine thousands-blocks

- **Support for Interconnected VoIP Providers:**

  - Continued to support the 98 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):**

  During 2021, NANPA attempted to secure voluntary thousands-block disconnects (formerly known as "donations") for 40 rate centers being changed from Excluded to Optional. NANPA was able to obtain disconnects for seven of those rate centers, thereby potentially saving the opening of seven CO codes.

- **Seeking Voluntary Disconnects (initiated by service providers):**

  NANPA was asked by service providers to request voluntary thousands-block disconnects in 82 Optional pooling rate centers that did not have any available thousands-blocks. NANPA requested and received disconnects for 30 of the rate centers which saved 30 CO codes from being opened.

- **Abandoned Codes/Thousands-blocks (initiated by NANPA):**

  The following is a summary of abandoned CO code/thousands-block activity in 2021:
  - 26 companies in 15 states had abandoned CO codes and/or thousands-blocks
  - 62 CO codes were transferred to new code holders
  - One thousands-block was transferred to a new thousands-block holder
  - 51 CO codes and 268 thousands-blocks were made available

3 DESCRIPTION AND STATUS OF NUMBERING PLAN AREAS (NPAs)

3.1 RESOURCE REPORT— NPAS

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 406 NPA serves the entire state of Montana while the 806 NPA covers a portion of northwest Texas. NPAs used in this manner are called geographic NPA codes.

As shown in Table 3-1, there were 401 geographic NPA codes in service as of December 31, 2021. Of these, 335 serve the U.S. and its territories, 43 serve Canada, and the remaining 23 serve Bermuda and the Caribbean countries participating in the NANP.

Table 3-1
Status of NPA Codes

	December 31, 2021
Possible Combinations	800
NPAs not Available for Assignment[9]	121
Assignable NPAs	679
Currently Assigned	450
In Service	426
Geographic	401
Non-Geographic[10]	25
Awaiting Implementation[11]	24
Currently Unassigned	228
General Purpose	188
Reserved[12]	143
Available	45
ERCs	41
Reserved[13]	5
Available	36

[9] 121 unavailable NPAs include the following: 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).
[10] In-service non-geographic NPAs include 500, 521, 522, 523, 524, 525, 526, 527, 533, 544, 566, 577, 588, 600, 622, 700, 710, 800, 833, 844, 855, 866, 877, 888, and 900.
[11] NPA awaiting implementation is one toll-free NPA (822). Remaining 23 NPAs are geographic NPAs and are listed in Table 3-4.
[12] 20 reserved 5XX resources included in General Purpose including 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558.
[13] Reserved ERCs include five Canadian NPAs (633, 644, 655, 677, and 688).

Attachments 1 and 2 are tables of geographic NPA codes currently in use, sorted by location and numerically.

Other NPAs designate special services such as toll-free calling rather than geographic areas. These NPAs are non-geographic codes. Information relating to Non-Geographic Resources can be found in Section 5. 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* 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 how the new NPA is to be used. The new NPA is said to be "in service" when it becomes dialable.

3.1.1 2021 NPA ACTIVITIES

Nine new geographic and two non-geographic NPAs went into service in 2021, as shown in Table 3.2 below:

Table 3-2
NPAs Introduced in 2021

NPA	IN-SERVICE DATE	LOCATION	OVERLAY?	PARENT NPA	PLANNING LETTER (PL) NUMBER	NPA OVERLAY COMPLEX
945	1/15/21	TEXAS	Yes	214	537	214/469/945/972
526	1/28/21	NON-GEOGRAPHIC	No		558, 554	500/533/544/566/577/588/522/523/524/525/526
840	2/23/21	CALIFORNIA	Yes	909	529	840/909
447	3/27/21	ILLINOIS	Yes	217	532	217/447
582	5/1/21	PENNSYLVANIA	Yes	814	543,540	582/814
572	5/24/21	OKLAHOMA	Yes	405	535	405/572
448	6/22/21	FLORIDA	Yes	850	551,534	448/850
527	9/29/21	NON-GEOGRAPHIC	No		566,564	500/533/544/566/577/588/522/523/524/525/526/527
474	10/2/21	SASKATCHEWAN	Yes	639	530	306/474/639
742	10/16/21	ONTARIO	Yes	905	561,550	289/365/742/905
771	11/9/21	DISTRICT OF COLUMBIA	Yes	202	547	202/771

Seven geographic NPAs and one non-geographic NPA were assigned this past year, as shown in the Table 3.3 below:

Table 3.3
NPAs Assigned in 2021

NPA	ASSIGNMENT DATE	LOCATION	OVERLAY?	PARENT NPA	PLANNING LETTER NUMBER	NPA OVERLAY COMPLEX
983	5/27/21	COLORADO	Yes	303	563	303/720
472	6/28/21	NORTH CAROLINA	Yes	910	569,565	472/910
527	8/12/21	NON-GEOGRAPHIC	No		566, 564	500/533/544/566/577/ 588/522/523/524/ 525/526
263	11/10/21	CANADA	Yes	514	572	438/514
683	11/10/21	CANADA	Yes	613	570	249/705
861	11/19/21	ILLINOIS	Yes	309	543,540	309/861
468	12/1/21	CANADA	Yes	819	575	819/873
835	12/2/21	PENNSYLVANIA	Yes	610	547	484/610

At year end, 24 previously-assigned NPAs remained to be introduced, as shown in Table 3-4. The "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 plan for introducing the new NPA on hold, which that plan may be canceled, revised, or implemented in the future.

Table 3-4
NPAs planned but not yet introduced (as of December 31, 2021)

NEW NPA	LOCATION	OLD NPA	OVERLAY?	IN-SERVICE DATE	PLANNING LETTER NUMBER	STATUS
227	MARYLAND	301	Yes			Active
263	QUEBEC	514	No	10/22/2022	572	Active
274	WISCONSIN	920	Yes		442,417,385	Active
283	OHIO	513	Yes		316,286,264	Active
327	ARKANSAS	870	Yes		437,400	Active
354	QUEBEC	450	Yes	10/22/2022	573,533,526	Active
368	ALBERTA	825	Yes	4/23/2022	560,531	Active
428	NEW BRUNSWICK	506	Yes	4/29/2023	553,549,539, 522	Active
464	ILLINOIS	708	Yes	1/21/2022	562,195	Active
468	QUEBEC	819	Yes	10/22/2022	575	Active
472	NORTHCAROLINA	910	Yes	10/07/2022	569, 565	Active
557	MISSOURI	314	Yes	8/12/2022	567,303,279, 261	Active

NEW NPA	LOCATION	OLD NPA	OVERLAY?	IN-SERVICE DATE	PLANNING LETTER NUMBER	STATUS
656	FLORIDA	813	Yes	2/22/2022	552,541	Active
679	MICHIGAN	313	Yes		227,209	Suspended
683	ONTARIO	705	Yes	6/18/2022	570	Active
730	ILLINOIS	618	Yes			Active
753	ONTARIO	613	Yes	3/26/2022	574,571	Active
826	VIRGINIA	540	Yes	6/14/2022	545	Active
861	ILLINOIS	309	Yes	2/24/2023		Active
879	NEWFOUNDLAND AND LABRADOR	709	Yes		514,503	Suspended
943	GEORGIA	470	Yes	03/15/2022	559,555,269 102,IL95/06-008	Active
948	VIRGINIA	757	Yes	5/09/2022	546,536	Active
975	MISSOURI	816	Yes	2/10/2023	568,304,280, 262	Active
983	COLORADO	303	Yes	6/17/2022	563	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” describes the list of NPAs included in the overlay. 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.

Table 3-5 shows the overlay complexes in service as of December 31, 2021. The seven overlay NPAs that were placed in service in 2021 are labeled with an asterisk (*).

Table 3-5
NPA Overlays

NPA	LOCATION	OVERLAY_COMPLEX
205	ALABAMA	205/659
256	ALABAMA	256/938
659	ALABAMA	205/659
938	ALABAMA	256/938
403	ALBERTA	403/587/780
587	ALBERTA	403/587/780
780	ALBERTA	403/587/780/825

NPA	LOCATION	OVERLAY_COMPLEX
825	ALBERTA	403/587/780/825
236	BRITISH COLUMBIA	236/250/604/672/778
250	BRITISH COLUMBIA	236/250/672/778
604	BRITISH COLUMBIA	236/604/672/778
672	BRITISH COLUMBIA	236/250/604/672/778
778	BRITISH COLUMBIA	236/250/604/672/778
213	CALIFORNIA	213/323
279	CALIFORNIA	279/916
310	CALIFORNIA	310/424
323	CALIFORNIA	213/323
341	CALIFORNIA	341/510
408	CALIFORNIA	408/669
415	CALIFORNIA	415/628
424	CALIFORNIA	310/424
442	CALIFORNIA	442/760
510	CALIFORNIA	341/510
619	CALIFORNIA	619/858
628	CALIFORNIA	415/628
657	CALIFORNIA	657/714
669	CALIFORNIA	408/669
714	CALIFORNIA	657/714
747	CALIFORNIA	747/818
760	CALIFORNIA	442/760
805	CALIFORNIA	805/820
818	CALIFORNIA	747/818
820	CALIFORNIA	805/820
*840	CALIFORNIA	840/909
858	CALIFORNIA	619/858
909	CALIFORNIA	840/909
916	CALIFORNIA	279/916
303	COLORADO	303/720

NPA	LOCATION	OVERLAY_COMPLEX
720	COLORADO	303/720
203	CONNECTICUT	203/475
475	CONNECTICUT	203/475
860	CONNECTICUT	860/959
959	CONNECTICUT	860/959
202	DISTRICT OF COLUMBIA	202/771
*771	DISTRICT OF COLUMBIA	202/771
809	DOMINICAN REPUBLIC	809/829/849
829	DOMINICAN REPUBLIC	809/829/849
849	DOMINICAN REPUBLIC	809/829/849
305	FLORIDA	305/786
407	FLORIDA	321/407/689
*448	FLORIDA	448/850
689	FLORIDA	321/407/689
754	FLORIDA	754/954
786	FLORIDA	305/786
850	FLORIDA	448/850
954	FLORIDA	754/954
404	GEORGIA	404/470/678
470	GEORGIA	404/470/678/770
678	GEORGIA	404/470/678/770
706	GEORGIA	706/762
762	GEORGIA	706/762
770	GEORGIA	470/678/770
208	IDAHO	208/986
986	IDAHO	208/986
217	ILLINOIS	217/447
224	ILLINOIS	224/847
312	ILLINOIS	312/872
331	ILLINOIS	331/630
*447	ILLINOIS	217/447

NPA	LOCATION	OVERLAY_COMPLEX
630	ILLINOIS	331/630
773	ILLINOIS	773/872
779	ILLINOIS	779/815
815	ILLINOIS	779/815
847	ILLINOIS	224/847
872	ILLINOIS	312/773/872
317	INDIANA	317/463
463	INDIANA	317/463
812	INDIANA	812/930
930	INDIANA	812/930
658	JAMAICA	658/876
270	KENTUCKY	270/364
364	KENTUCKY	270/364
204	MANITOBA	204/431
431	MANITOBA	204/431
240	MARYLAND	240/301
301	MARYLAND	240/301
410	MARYLAND	410/443/667
443	MARYLAND	410/443/667
667	MARYLAND	410/443/667
339	MASSACHUSETTS	339/781
351	MASSACHUSETTS	351/978
508	MASSACHUSETTS	508/774
617	MASSACHUSETTS	617/857
774	MASSACHUSETTS	508/774
781	MASSACHUSETTS	339/781
857	MASSACHUSETTS	617/857
978	MASSACHUSETTS	351/978
248	MICHIGAN	248/947
947	MICHIGAN	248/947
601	MISSISSIPPI	601/769

NPA	LOCATION	OVERLAY_COMPLEX
769	MISSISSIPPI	601/769
402	NEBRASKA	402/531
531	NEBRASKA	402/531
702	NEVADA	702/725
725	NEVADA	702/725
201	NEW JERSEY	201/551
551	NEW JERSEY	201/551
609	NEW JERSEY	609/640
640	NEW JERSEY	609/640
732	NEW JERSEY	732/848
848	NEW JERSEY	732/848
862	NEW JERSEY	862/973
973	NEW JERSEY	862/973
212	NEW YORK	212/332/646/917
315	NEW YORK	315/680
332	NEW YORK	212/332/646/917
347	NEW YORK	347/718/917/929
518	NEW YORK	518/838
631	NEW YORK	631/934
646	NEW YORK	212/332/646/917
680	NEW YORK	315/680
718	NEW YORK	347/718/917/929
838	NEW YORK	518/838
917	NEW YORK	212/332/646/917
929	NEW YORK	347/718/917/929
934	NEW YORK	631/934
336	NORTH CAROLINA	336/743
704	NORTH CAROLINA	704/980
743	NORTH CAROLINA	336/743
919	NORTH CAROLINA	919/984
980	NORTH CAROLINA	704/980

NPA	LOCATION	OVERLAY_COMPLEX
984	NORTH CAROLINA	919/984
782	NOVA SCOTIA - PRINCE EDWARD ISLAND	782/902
902	NOVA SCOTIA - PRINCE EDWARD ISLAND	782/902
220	OHIO	220/740
234	OHIO	234/330
326	OHIO	326/937
330	OHIO	234/330
380	OHIO	380/614
419	OHIO	419/567
513	OHIO	283/513
567	OHIO	419/567
614	OHIO	380/614
740	OHIO	220/740
937	OHIO	326/937
405	OKLAHOMA	405/572
539	OKLAHOMA	539/918
*572	OKLAHOMA	405/572
918	OKLAHOMA	539/918
226	ONTARIO	226/519/548
249	ONTARIO	249/705
289	ONTARIO	289/365/742/905
343	ONTARIO	343/613
365	ONTARIO	289/365/742/905
416	ONTARIO	416/437/647
437	ONTARIO	416/437/647
519	ONTARIO	226/519/548
548	ONTARIO	226/519/548
613	ONTARIO	343/613
647	ONTARIO	416/437/647
705	ONTARIO	249/683/705

NPA	LOCATION	OVERLAY_COMPLEX
*742	ONTARIO	289/365/742/905
905	ONTARIO	289/365/742/905
458	OREGON	458/541
503	OREGON	503/971
541	OREGON	458/541
971	OREGON	503/971
215	PENNSYLVANIA	215/267/445
223	PENNSYLVANIA	223/717
267	PENNSYLVANIA	215/267/445
272	PENNSYLVANIA	272/570
412	PENNSYLVANIA	412/878
445	PENNSYLVANIA	215/267/445
484	PENNSYLVANIA	484/610
570	PENNSYLVANIA	272/570
*582	PENNSYLVANIA	582/814
610	PENNSYLVANIA	484/610
717	PENNSYLVANIA	223/717
724	PENNSYLVANIA	724/878
814	PENNSYLVANIA	582/814
878	PENNSYLVANIA	412/724/878
787	PUERTO RICO	787/939
939	PUERTO RICO	787/939
367	QUEBEC	367/418/581
418	QUEBEC	367/418/581
438	QUEBEC	438/514
450	QUEBEC	450/579
514	QUEBEC	438/514
579	QUEBEC	450/579
581	QUEBEC	367/418/581
819	QUEBEC	819/873
873	QUEBEC	819/873

NPA	LOCATION	OVERLAY_COMPLEX
306	SASKATCHEWAN	306/474/639
*474	SASKATCHEWAN	306/474/639
639	SASKATCHEWAN	306/474/639
803	SOUTH CAROLINA	803/839
839	SOUTH CAROLINA	803/839
843	SOUTH CAROLINA	843/854
854	SOUTH CAROLINA	843/854
615	TENNESSEE	615/629
629	TENNESSEE	615/629
210	TEXAS	210/726
214	TEXAS	214/469/945/972
281	TEXAS	281/346/713/832
346	TEXAS	281/346/713/832
430	TEXAS	430/903
469	TEXAS	214/469/945/972
512	TEXAS	512/737
682	TEXAS	682/817
713	TEXAS	281/346/713/832
726	TEXAS	210/726
737	TEXAS	512/737
817	TEXAS	682/817
832	TEXAS	281/346/713/832
903	TEXAS	430/903
*945	TEXAS	214/469/945/972
972	TEXAS	214/469/945/972
385	UTAH	385/801
801	UTAH	385/801
571	VIRGINIA	571/703
703	VIRGINIA	571/703
360	WASHINGTON	360/564
564	WASHINGTON	360/564

NPA	LOCATION	OVERLAY_COMPLEX
534	WISCONSIN	534/715
715	WISCONSIN	534/715
304	WEST VIRGINIA	304/681
681	WEST VIRGINIA	304/681

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. Local calls originating and terminating within the same NPA are usually dialed on a seven-digit basis, omitting the area code, except in overlay areas where the NPA must be dialed. Some states 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 also may vary according to service provider capabilities. In addition, in many areas where NPA boundaries split local calling areas, state regulatory commissions and service provider tariffs allow seven-digit dialing across NPA boundaries, including across state lines.

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 NATIONAL SUICIDE PREVENTION LIFELINE:

On July 16, 2020, the FCC adopted Report and Order FCC 20-100 (“Order”), designating 988 as the 3-digit number to reach the Suicide Prevention Lifeline. The Order required NANPA to develop, based upon input from covered service providers, an implementation schedule, for those NPAs

where 988 is a working prefix and local calls are dialed with seven-digits to transition to 10-digit local dialing as a result of the designation of 988 as the three-digit abbreviated dialing code to access the National Suicide Prevention Lifeline. NANPA worked with the FCC prior to the release of the Order by providing information on the assignment status of 988 as a CO code throughout the country. As a result of the Order, local calls will require 10-digit or 11-digit dialing in 36 states and 82 NPAs. Table 3-6 lists the affected states and NPAs.

Table 3-6
List of Area Codes Transitioning to 10-Digit[14] 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

[14] Some area codes may require 1+10 digits for local dialing.

STATE	NPAs
VIRGINIA	276, 804
WASHINGTON	509
WISCONSIN	262, 414, 608, 920

The North Dakota 701 NPA was initially included as an NPA that would be required to transition to 10-digit local dialing, but the North Dakota Public Service Commission was able to arrange for the 988 NXX to be returned to NANPA and made unavailable for use. NANPA released PL-556 on January 8, updating PL-544, to remove the 701 NPA from the list of NPAs required to transition to 10-digit local dialing.

At the start of the transition in 2020, the Industry and NANPA developed key milestones that would be required to successfully complete the steps and timeframes necessary to successfully complete the transition on time. NANPA continued facilitating this transition throughout 2021 by meeting monthly with service providers and regulators to review progress on milestones. NANPA created an area on the NANPA website dedicated solely to providing information on the transition including fact sheets, Frequently Asked Questions (FAQs), special letter samples for both permissive and mandatory dialing, sample press releases for permissive and mandatory dialing, and the *Progress on 988 Milestone* tracking sheet. On a weekly basis, NANPA updates the *Progress by State/Area Code* spreadsheet provided on the website for milestones where service providers are required to report completion. NANPA also sent courtesy reminders on milestone reporting deadlines and the need to program mandatory 10-digit (or 1+10-digit) local dialing no earlier than October 24, 2021, and no later than July 15, 2022.

NANPA facilitated 12 virtual meetings from January through December which were attended by Industry members and 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 compliance reports to state regulators when requested.

In an effort to simplify the reporting requirements for service providers, NANPA developed a *988 Milestone Confirmation Template* which provides a simplified reporting format and is available on the website. All 988-related documents can be found at: https://www.nationalnanpa.com/transition_to_10_digit_dialing_for_988/index.html.

NANPA also drafted and sent special informational letters for both permissive and mandatory dialing periods to national and state directory publishers, burglar and fire alarm associations, payphone providers, telecom associations, 911 state/county coordinators & PSAPs, highway call box agencies, tribal agencies, elevator regulatory agencies, TTY providers, parole board agencies, and senior organizations. NANPA sent hundreds of emails to these groups in March, June, and August,[15] responded to questions, and continually updated the contact lists to keep them current.

NANPA provided contact lists to service providers so they can contact each other as needed to troubleshoot any 10-digit dialing issues per Milestone 14 in April and per Milestone 26 in October. Additionally, in an effort to provide the most up-to-date information to service providers after the mandatory dialing period began on October 24, 2021, NANPA sent two contact list updates, on October 17 and October 22. Of the 33 total milestones, NANPA was responsible for completing

[15] Some emails included hundreds of recipients.

13, 9 of which were timely completed in 2021. Table 3-7 lists all of the milestones NANPA completed in 2021.[16]

Table 3-7
Milestones Completed by NANPA in 2021

MILESTONE NUMBER	DESCRIPTION	DEADLINE	DATE COMPLETED
5	Develop and supply verbiage for a press release to announce the permissive and mandatory 10-digit dialing effective dates. Provide verbiage to Industry, FCC so they can issue press releases as well, as needed.	2/23/21	2/11/21
7	Send second round of "special letters" again to Directory Publishers, Coin Operated Payphone Providers, Alarm Associations, Highway Call Box Operators, and 911 State/County Coordinators & PSAPs, reminding them of the permissive dialing effective date and the mandatory dialing effective date, and what each of these types of groups need to do to prep for mandatory 10DD. Supply these templates to Industry as well in case carriers want to use them to supplement their own customer notifications.	3/10/21	3/10/21
12	Issue first press release	4/19/21	3/29/21
14	Distribute carrier contact list to carriers so they can contact each other as needed to troubleshoot any permissive 10-digit dialing issues	4/24/21	4/23/21
18	Develop and send second round of "special letters" to Directory Publishers, Coin Operated Payphone Providers, Alarm Associations, Highway Call Box Operators, and 911 State/County Coordinators & PSAPs reminding them of the mandatory dialing effective date, and what each of these types of groups need to do to prep for mandatory 10DD. Supply these templates to Industry as well in case carriers want to use them to supplement their own customer notifications.	6/26/21	6/26/21
20	Develop and supply verbiage for a second Press Release to announce the mandatory 10-digit dialing effective date. Provide verbiage to Industry, FCC and state commissions so they can issue press releases as well, as needed.	7/26/21	6/10/21
21	Send second round of "special letters" again to Directory Publishers, Coin Operated Payphone Providers, Alarm Associations, Highway Call Box Operators, and 911 State/County Coordinators & PSAPs, reminding them of the mandatory dialing effective date, and what each of these types of groups need to do to prep for mandatory 10DD. Supply these templates to Industry as well in case carriers want to use them to supplement their own customer notifications.	9/9/21	9/9/21
26	Distribute carrier contact list to carriers so they can contact each other as needed to troubleshoot any mandatory 10-digit dialing issues	10/17/21	10/15/21[17]
27	Issue second Press Release	10/19/21	10/19/21

[16] Milestone 17, while due in 2021, was completed in 2020 and is not reflected in Table 3-7.

[17] NANPA continued to receive updates after the deadline so updated the contact list and sent the revised list on 10/22/21.

3.4 RESERVED NPAS

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

Table 3-8
Future geographic NPA codes

221	362	476	558	676	823
230	363	481	560	677	824
232	369	483	565	685	835
235	381	485	568	686	837
238	382	486	569	687	841
247	384	487	576	688	851
257	387	489	578	728	852
258	389	528	583	729	871
259	420	529	584	735	875
261	421	532	589	738	921
265	427	535	621	739	923
271	429	536	624	741	924
273	436	537	625	745	926
278	439	538	627	746	927
280	449	542	632	748	935
286	451	543	633	749	942
287	453	545	634	750	946
324	457	546	642	752	953
328	459	547	644	756	957
329	460	549	645	761	960
342	461	550	652	764	981
350	462	552	655	768	982
353	465	553	663	776	987
357	468	554	665	789	
359	471	556	673	821	

4 DESCRIPTION AND STATUS OF GEOGRAPHIC RESOURCES ACTIVITY

Geographic Resources include Central Office codes ("CO codes"), Thousands-Blocks ("blocks"), and Pseudo-Automatic Number Identification numbers ("p-ANIs"). This section will focus on 2021 activities relating to processing CO code and 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 the Resource Administrators ("RAs"). Details about Routing Number/p-ANI Administration activities can be found in Section 6.

Because the new contract combines the NANPA and PA organizations, NANPA reduced the processing time of pooled CO code applications from 14 calendar days to seven calendar days. Previously the PA was required to process CO code and block requests that came through PAS within seven calendar days. The PA then forwarded the CO code requests to NAS for an additional seven calendar days of processing time, creating a 14 calendar day timeline.

While the organizations are now combined and the application timeframe is compressed for pooled CO code applications, NANPA is still using two systems for processing applications, NAS and PAS. Since implementing the compressed timeframe, NANPA has processed all applications within seven calendar days.

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

- Respond to questions and requests for assistance from service providers,
- Review documentation to verify eligibility for requested thousands-blocks and CO codes,
- Interact with state commission staff on issues relating to certification and answer numbering related questions,
- Assist service providers with questions relating to the systems,
- Educate new users on the application process,
- Search for new thousands-block holders for thousands-blocks being returned with greater than 10% contamination,
- Search for new code holders for pooled codes being returned with thousands-blocks assigned, and
- Work closely with the NPAC to ensure that block requests are handled in accordance with Industry guidelines.

4.1 STATUS OF CENTRAL OFFICE CODE ("CODES") PRODUCTIVITY

NANPA administers all geographic CO codes (also known as prefixes, exchanges, or NXX codes) in the U.S. and its territories utilizing NAS and PAS. The Canadian Numbering Administrator (CNA) performs this function in Canada. In the remaining NANP countries, regulatory authorities play an active role in central office code administration.

CO codes are digits four through six of the 10-digit telephone number. The following information addresses CO codes within geographic NPAs.

Each CO code contains 10,000 numbers for use in the rate center the CO code serves. 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, or
- Request a CO code to meet a service provider's need for a dedicated customer (10,000 consecutive telephone numbers for a single customer).

As of the end of 2021, NANPA manages 180,625 assigned CO codes in the U.S. and its territories.

The process for applying for a CO code assignment is based on FCC rules and regulations as specified in guidelines developed by the Industry. The latest version of the guidelines, entitled *Thousands-Block (NPA-NXX- X) & Central Office Code (NPA-NXX) Administration Guidelines* (TBCOCAG), ATIS-030019, can be found at the Alliance for Telecommunications Industry Solutions (ATIS) website at http://www.atis.org/01_committ_forums/INC/documents/.

Monthly CO code application and assignment activities during 2021 are shown in Table 4-1. The rows in the table are defined as follows:

- Quantity of applications processed—Total quantity of CO code applications processed.
- Quantity of applications not processed in seven calendar days - Total quantity of CO code applications not processed within seven calendar days.
- Quantity of CO code assignments made—Applications that resulted in the assignment of a new CO code.
- Quantity of change requests to CO codes —Applications that resulted in a change to the information associated with an existing CO code assignment, for example, a change to the OCN or switch.
- Quantity of CO codes returned—Applications requesting the return of an assigned CO code.
- Quantity of CO codes reclaimed- CO codes reclaimed at the direction of the appropriate regulatory authority.
- Quantity of CO code reservation requests—Applications requesting and receiving a CO code reservation.
- Quantity of CO codes suspended- Applications suspended pending further action such as a lottery drawing for jeopardy NPAs.
- Quantity of CO code requests withdrawn —Applications withdrawn by the applicant.
- Quantity of CO code requests denied —Applications denied for not meeting the criteria for assignment as prescribed by the FCC and Industry guidelines.

Table 4-1
2021 Monthly CO Code Activity

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Quantity of applications processed	1,816	2,578	3,541	1,777	2,109	2,075	3,340	9,843	2,705	1,759	1,974	2,256	**35,773**
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	694	503	655	843	539	582	560	461	682	504	478	469	**6,970**
Quantity of change requests to CO codes	1,004	1,938	2,795	816	1,476	1,375	2,688	9,265	1,884	1,047	1,341	1,623	**27,297**
Quantity of CO codes returned	19	29	11	25	21	15	17	13	36	23	29	25	**263**
Quantity of CO codes reclaimed	0	0	0	0	0	0	0	0	0	0	0	0	**0**
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	27	20	17	24	19	21	28	14	64	36	43	51	**364**
Quantity of CO code requests withdrawn	25	16	9	15	4	0	2	10	2	5	8	13	**109**
Quantity of CO code requests denied	47	72	54	54	50	82	65	80	37	144	75	75	**835**

NANPA processed 35,773 requests in 2021 compared to 14,679 requests in 2020, which represents a 144% increase. A total of 6,970 CO code assignments were made in 2021 as compared to 4,895 in 2020, which represents a 42% increase.

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

- 5,767 for Pool Replenishment (83%),
- 1,124 for LRNs (16%),
- 58 for Dedicated Customers (1%),
- 21 for Non-Pooled CO Codes (<1%).

Of the 35,773 applications processed, 24,934 CO Code Applications were passed through to NAS from PAS as compared to 10,526 in 2020. A total of 27,297 change requests were processed in 2021 compared to 7,353 changes in 2020. These includes transfers to other service providers, switch changes, tandem changes, OCN changes due to mergers/acquisitions, and effective date changes. A total of 263 return requests were approved in 2021 as compared to 238 returns in 2020. A total of 109 applications were withdrawn, as compared to 19 withdrawals in 2020.

4.2 STATUS OF THOUSANDS-BLOCK PRODUCTIVITY

This section describes in detail thousands-block pooling processing activity in 2021, including information about applications processed, thousands-blocks assigned, and CO codes opened. Productivity statistics for the past five years can be found in Section 12, *Historical Trends Since 2017*.

NANPA administers all thousands-blocks utilizing PAS. NANPA continued its high level of performance in 2021 despite the challenges of handling an all-time record number of applications, including processing pooled CO code requests within seven calendar days versus 14 calendar days, without missing a performance measurement. NANPA processed a record 340,814 Part 3As. The previous highest annual total was in 2020, with 210,009. In addition, NANPA saw a one-month high total of 69,923 in August. The previous highest monthly total was 33,302 in August 2020.

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

Table 4-2
Thousands-Block Activity

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Quantity of applications (Part 3As) processed	22,519	26,415	28,496	21,861	24,057	24,309	26,709	69,922	29,014	19,424	22,388	25,700	**340,814**
Quantity of applications not processed in 7 calendar days	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Quantity of thousands-block assignments made	9,157	10,758	9,834	8,838	8,016	10,290	6,903	6,407	8,893	9,944	7,449	6,348	**102,837**
Quantity of change requests to existing thousands-blocks	8,929	10,738	12,276	7,706	10,639	10,205	15,633	59,304	15,545	4,729	10,153	14,147	**180,004**
Quantity of requests to cancel or withdraw	87	106	119	138	83	113	99	109	128	91	103	151	**1,327**
Quantity of thousands-block	1,189	1,636	2,187	1,734	1,987	960	1,238	1,024	1,176	1,515	1,544	1,751	**17,941**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
disconnect requests													
Quantity of thousands-block requests denied	606	449	592	643	624	446	504	420	594	573	421	536	**6,408**
Quantity of thousands-block requests suspended	2,551	2,727	3,487	2,802	2,708	2,293	2,332	2,657	2,678	2,571	2,710	2,762	**32,278**
Quantity of thousand-block reservation requests	0	1	1	0	0	1	0	1	0	1	8	0	**13**
Quantity of thousand-blocks reclaimed	0	0	0	0	1	0	0	0	2	0	6	0	**9**
Quantity of new blocks on reclamation list	120	352	282	168	112	144	72	107	189	201	270	153	**2,170**
Total Quantity of blocks on reclamation list	317	568	535	478	435	492	391	431	514	544	528	436	**5,669**
Quantity of rate center status changes	6	14	24	18	6	20	2	6	7	6	7	18	**134**
Quantity of RCs with < 6 months inventory based on forecast	1,037	967	2,331	3,066	3,689	1,724	1,860	1,851	1,773	2,010	1,771	1,563	**23,642**
Quantity of RCs < 6 mos inv based on forecast and zero blocks	524	522	1,378	1,604	1,728	965	898	879	879	995	942	769	**12,083**
Quantity of RCs with blocks in pending status	1,110	1,158	1,173	1,446	1,440	1,245	1,121	903	935	968	918	928	**13,345**
Quantity of codes opened for pool replenishment	609	425	509	637	456	532	512	422	439	455	411	360	**5,767**

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

Approvals	300,856
Denials	6,408
Suspensions	32,223
Withdrawals	1,327
TOTAL	**340,814**

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

Table 4-4
2021 Applications (Part 3A) Processed by Type

	APPROVED	DENIED	SUSPENDED	WITHDRAWN	TOTAL
Thousands-block Modifications	174,510	386	0	333	175,229
Thousands-block Disconnects	17,793	436	18,385	143	36,757
Thousands-block Cancel Disconnect	6	0	0	0	6
Individual Thousands-blocks	85,651	3,659	0	252	89,562
Thousands-block Reservations	13	4	0	1	18
Process/Cancel Thousands-block Reservations	10	0	0	0	10
Code Modifications	5,491	173	5,523	109	11,296
Code Disconnects	139	449	1,151	19	1,758
LRN Thousands-blocks	1,656	542	1,187	174	3,559
Dedicated Customer Thousands-blocks	600	28	59	2	689
Pool Replenishment Thousands-blocks	14,873	722	5,918	286	21,799
ISP Disconnects	9	0	0	8	17
ISP Modifications	3	0	0	0	3
ISP Thousands-blocks	100	9	0	0	109
TOTALS	**300,856**	**6,408**	**32,223**	**1,327**	**340,814**

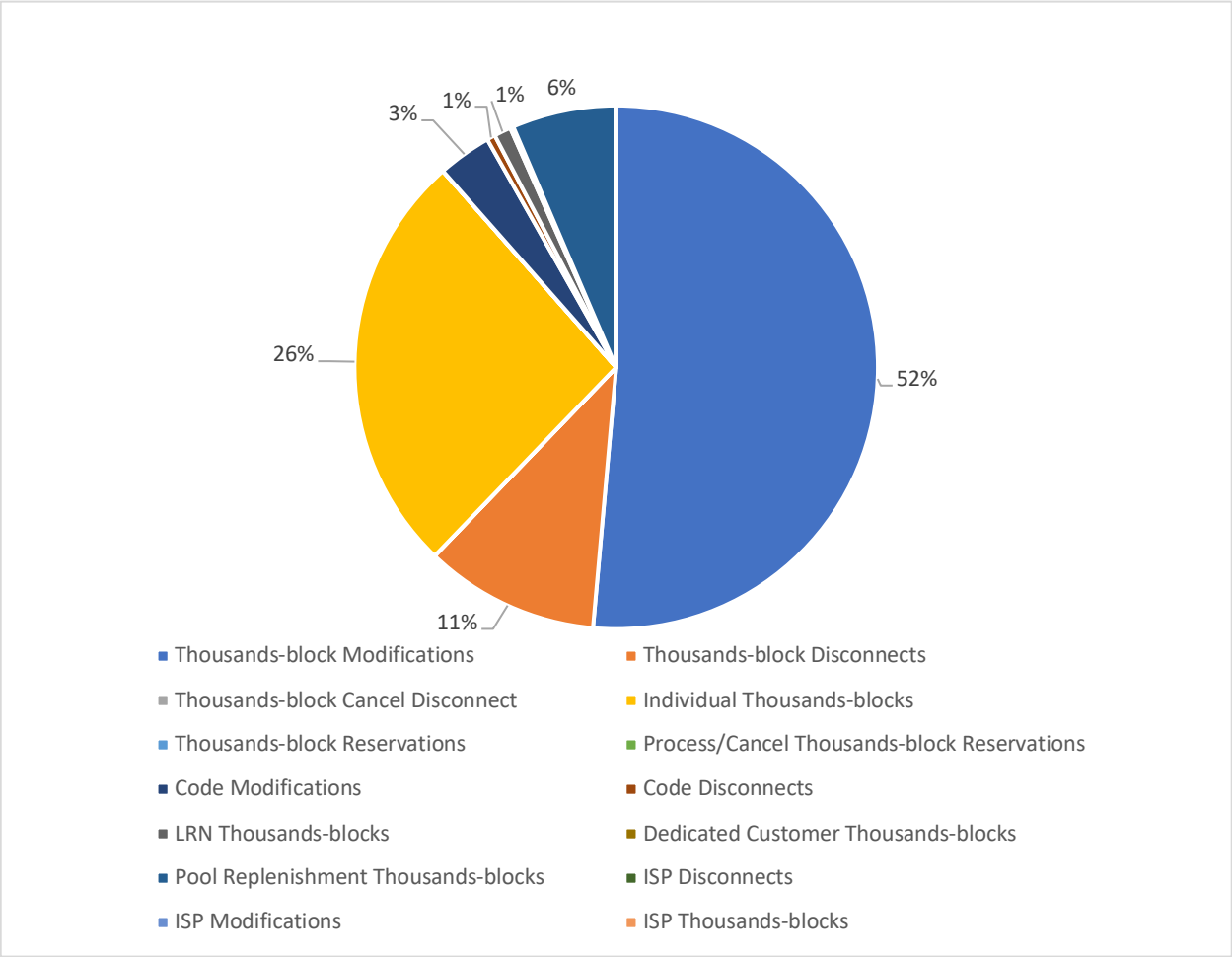

Figure 1: 2021 Pooling Applications by Type

NANPA also issued 18,050 Part 5s for thousands-block disconnects, reclamations, and exchanges during 2021, of which 17,793 were actual thousands-block disconnects.

NANPA processed 100% of the 340,814 applications (Part 3As) within seven calendar days, which exceeds the performance metric of 99%.

There were 797,535 assigned thousands-blocks in PAS at the end of 2021, an increase of 86,426 from 2020.

Figure 2 below depicts the monthly thousands-block assignments made by the NANPA during each month in 2021.

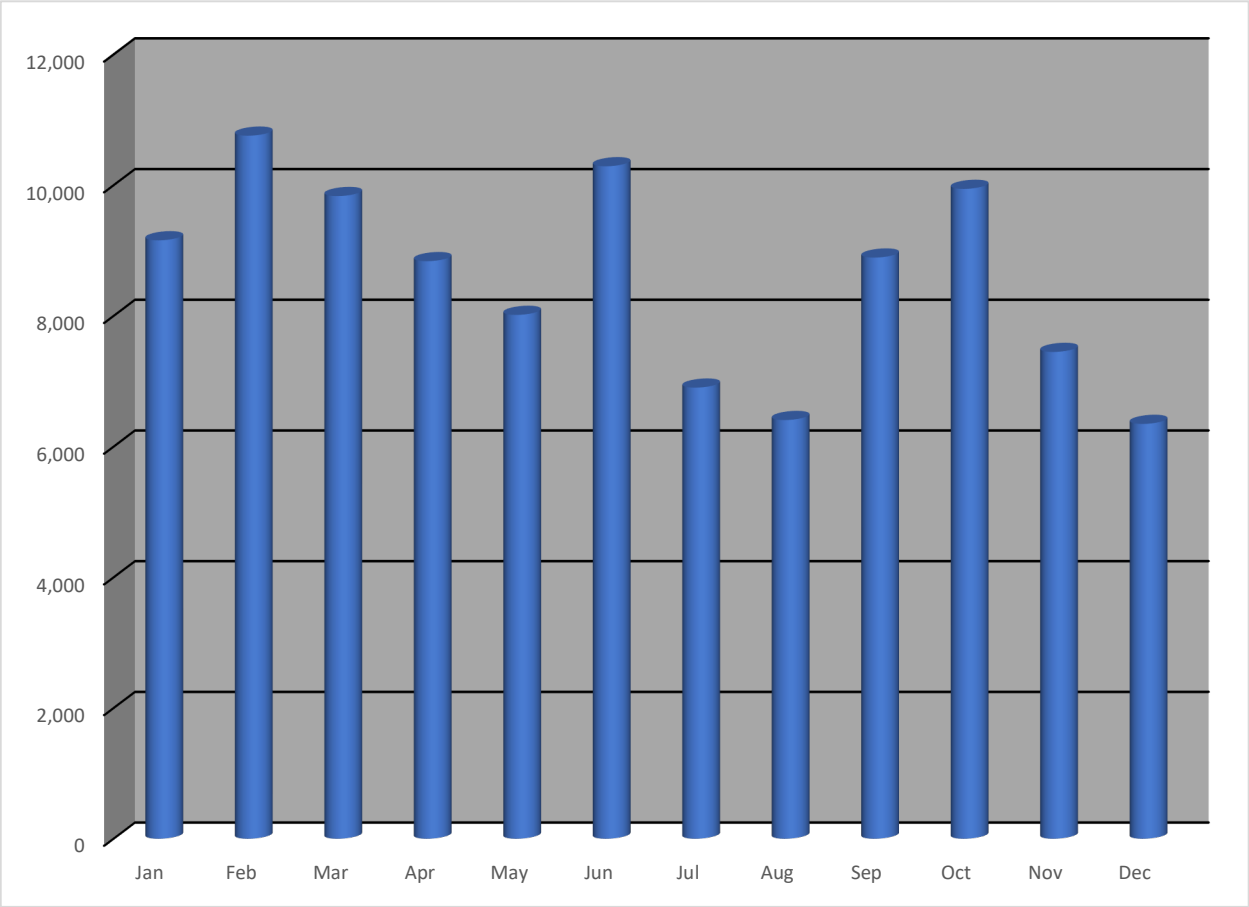

Figure 2: Thousands-blocks Assigned by NANPA in Each Month in 2021

The total number of applications (Part 3As) processed is a measure of the actual processing work performed by the Resource Administrators (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 the RA and generates a Part 3A.

Figure 3 below provides a complete overview of all applications processed in PAS for 2021, including approvals, denials, withdrawals, and suspended applications.

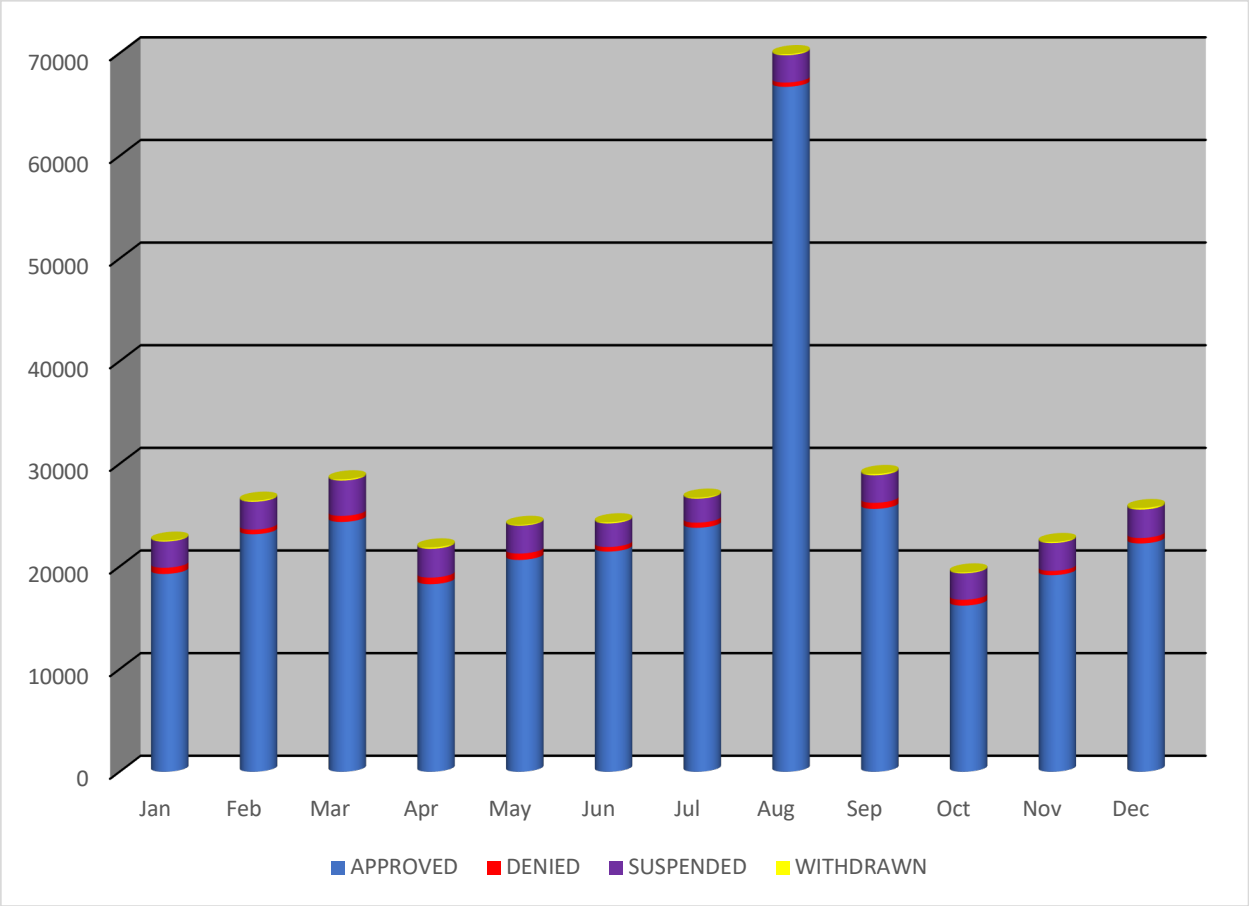

Figure 3: Overview of All 2021 Applications Processed by Status

Tables 4-5 and 4-6 list the ten states and NPAs for which the highest number of applications processed (Part 3As) occurred in 2021.

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

STATE	TOTAL PART 3As
CALIFORNIA	35,481
NEW YORK	22,291
TEXAS	21,522
FLORIDA	18,519
PENNSYLVANIA	17,882
OHIO	16,214
ILLINOIS	15,910
MASSACHUSETTS	12,124
NEW JERSEY	10,154
MICHIGAN	9,731

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

NPA	STATE	TOTAL PART 3As
267	PENNSYLVANIA	3,112
484	PENNSYLVANIA	2,874
440	OHIO	2,526
207	MAINE	2,490
316	KANSAS	2,341
657	CALIFORNIA	2,309
347	NEW YORK	2,237
315	NEW YORK	2,167
803	SOUTH CAROLNA	2,051
845	NEW YORK	2,046

Pool replenishment allows service providers to open a CO code to add thousands-blocks to a pool when a pooling rate center inventory will either be equal to or falls below the aggregated six-month service provider forecasts. NANPA manages the process by determining when a rate center inventory is not adequate to meet forecasted demand. PAS alerts a service provider about the need to replenish the pool and permits several options for the service provider. Because it is not authorized to obtain resources directly, NANPA has no authority to replenish the inventory pools itself and therefore must rely on the service providers that can meet the application requirements to maintain adequate inventories by opening a CO code, keeping the thousands-

blocks they need and then returning the remaining thousands-blocks from that CO code to the pool.

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

Table 4-7
2021 Pool Replenishment Overview

Average number of rate centers per month that had less than a six-month inventory	1,970
Percentage of total number of rate centers per month that had less than a six-month inventory	11%
Average number of rate centers per month that had no thousands-blocks available but had a forecasted need	1,006
Number of CO codes opened for pool replenishment	5,767

Table 4-8 shows the number of CO codes opened by NANPA in 2021 and for what purpose. Pool replenishment accounts for 83% of the CO codes opened.

Table 4-8
CO Codes Opened by Purpose

PURPOSE	TOTAL	PERCENT OF TOTAL
LRN	1,124	16%
Dedicated Customer	58	1%
Pool Replenishment	5,767	83%
TOTAL	**6,949**	**100%**

Tables 4-9 and 4-10 show the ten states and NPAs which had the most pool replenishment activity in 2020.

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

STATE	CODES OPENED
CALIFORNIA	640
NEW YORK	482
TEXAS	443
FLORIDA	423
ILLINOIS	286
GEORGIA	271
MICHIGAN	231
PENNSYLVANIA	225
OHIO	207
NEW JERSEY	183

Table 4-10
Ten NPAs with the Most Pool Replenishment

NPA COMPLEX	STATE	CODES OPENED
518/838	NEW YORK	93
410/443/667	MARYLAND	89
281/346/713/832	TEXAS	82
217/447	ILLINOIS	78
657/714	CALIFORNIA	77
470/678/770	GEORGIA	74
706/762	GEORGIA	72
315/680	FLORIDA	59
214/469/945/972	TEXAS	57
508/774	MASSACHUSETTS	57

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 in the event of area code relief, 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), are required to participate when a second service provider enters the rate center (Mandatory Single Service Provider), 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, please see Section 4.4.

In addition, NANPA monitors and makes all of the changes that occur as a result Office of Management and Budget (OMB) directives related to population changes that affect pooling rate center designations. NANPA found no OMB directives in 2021 that affected rate center designations and therefore made no associated changes.

Changes to rate center file information are available in real-time through the pooling website. In 2021, NANPA made 134 rate center information changes. All of the file changes related to rate center status designation changes, of which a total of 83% were for either Excluded (X) to Optional (O) or Single-Service Provider Mandatory (M*) to Mandatory (M).

Table 4-11 shows the type of rate center information change and how many were changed during each month in 2021.

Table 4-11
Summary of Rate Center File Changes

REASON	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
Changes in Status:													
M* to M	0	7	9	7	4	12	0	4	2	1	3	3	52
M* to M	3	2	5	0	1	3	0	0	2	3	3	1	23
X to O	3	5	10	11	1	5	2	2	3	2	1	14	59
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	**6**	**14**	**24**	**18**	**6**	**20**	**2**	**6**	**7**	**6**	**7**	**18**	**134**

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 the 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 2021, NANPA denied eight (8) CO code assignment requests and 101 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,” 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 operates 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.

During 2021, NANPA attempted to secure voluntary thousands-block disconnects (formerly known as “donations”) for 40 rate centers being changed from Excluded to Optional. NANPA was able to obtain disconnects for seven of those rate centers, thereby potentially saving the opening of seven CO codes.

At times a carrier will also contact NANPA to request that we seek disconnects in a pooling rate center it is entering to prevent the opening of a CO code when no thousands-blocks are available because it is either a single-service provider rate center or it is already available for pooling. This is especially useful in low population areas where thousands-blocks added to the pool from opening a CO code may never be utilized. In 2021, NANPA was asked by the carriers to request voluntary thousands-block disconnects in 82 Optional pooling rate centers that did not have any available thousands-blocks. NANPA requested and received disconnects for 30 of the rate centers which saved 30 CO codes from being opened.

4.3.4 ABANDONED CODES/THOUSANDS-BLOCKS:

When NANPA learns that a company has 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 the service provider’s resources as abandoned. Upon approval from the appropriate regulatory authority, NANPA coordinates with the NPAC to determine if there are any LRNs associated with a CO code or ported TNs on CO codes or thousands-blocks. After receiving confirmation that there are no LRNs or ported TNs on the potentially abandoned CO codes or thousands-blocks, NANPA also verifies that the thousands-blocks are 10% or less contaminated. It is only after all of these checks are made that NANPA

makes the CO code or thousands-block available for assignment to another service provider. If the CO code has ported TNs or the thousands-block is over 10% contaminated, NANPA will reach out to those service providers with ported TNs to request that they become the new CO code holder 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 with resources that were initially identified as being abandoned is still in business. NANPA stops the abandoned code 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 2021:

- 26 companies in 15 states abandoned CO codes and/or thousands-blocks
- 62 CO codes were transferred to new code holders
- One thousands-block was transferred to a new thousands-block holder
- 51 CO codes and 268 thousands-blocks were disconnected and made available

4.3.5 MANAGING JEOPARDIES

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

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 remains in effect until the Industry can develop the final jeopardy procedures. NANPA posts the interim procedures to the NANPA website within one week of jeopardy declaration. No later than three weeks after jeopardy is declared, NANPA convenes an Industry meeting to develop the final jeopardy procedures. These procedures typically 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. NANPA facilitated three jeopardy review meetings in 2021: District of Columbia 202 NPA on April 30, California 209 NPA on July 26, and Virginia 540 and 757 NPAs on December 15.

NANPA posts the final jeopardy procedures to the NANPA website within two weeks after the Industry reaches consensus on the jeopardy procedures. 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 submitted within the submission timeframe and meet the assignment criteria, usually between the first and fifth business days of the month, are suspended until the lottery 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, there is no lottery, and the requests are processed. If there are more requests than the monthly 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 2021, there were four NPAs in jeopardy: Illinois, 217 and 618, District of Columbia 202, and California 209. Nine NPAs were declared in jeopardy in 2021: Virginia 540 and 757, Pennsylvania 484/610, Ohio 513, Florida 305/786, 561, and 813, Missouri 314, and New York 516. Table 4-12 depicts the 13 NPAs in jeopardy in 2021:

Table 4-12
NPAs in Jeopardy in 2021

STATE	NPA	DATE JEOPARDY DECLARED	CO CODES ALLOCATED PER MONTH[18]	NUMBER OF REQUESTS PERMITTED PER OCN
ILLINOIS	618	7/11/2000	5	5
ILLINOIS	217	3/17/2003	1	1
DISTRICT OF COLUMBIA	202	8/3/2020	3	3
CALIFORNIA	209	12/16/20	2	2
VIRGINIA	757	05/25/21	1	1
VIRGINIA	540	05/25/21	2	2
PENNSYLVANIA	484/610	06/17/21	1	1
OHIO	513	06/17/21	1	1
FLORIDA	305/786	09/23/21	4	4
FLORIDA	561	09/23/21	3	3
FLORIDA	813	09/23/21	2	2
MISSOURI	314	09/23/21	2	2
NEW YORK	516	09/23/21	1	1

Once 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 three NPAs in 2021, after CO codes were made available for assignment in the new NPA: Illinois 217 (January), District of Columbia 202 (September), and Florida 813 (December).

[18] The monthly allocation shown is as of December 31, 2021. The monthly allocations changed during the year for California 209, and Virginia 540 and 757.

NANPA facilitated a total of nine jeopardy meetings in 2021: six meetings to set the jeopardy procedures (Pennsylvania 484/610 NPA, Ohio 513 NPA, New York 516 NPA, Missouri 314 NPA, FL 305/786 NPA, 561 NPA, 813 NPA, and VA 540 NPA, 757 NPA) and three meetings to review jeopardy procedures (District of Columbia 202 NPA, Virginia 540 and 740 NPAs, and California 209).

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 directly from the NANPA. 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 2021, a total of 149 applications had been submitted to the FCC for direct access authorization, with a total of 98 approved. Of those, 34 new applications were submitted in 2021, and the FCC issued 30 authorizations.

NANPA continues to support and educate iVoIP providers on application processing requirements, proper supporting documentation, and the information needed in 30-day notification letters. NANPA provides a "Getting Started for Interconnected VoIP Providers" quick sheet that offers 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 has spent a vast amount of time with individual iVoIP provider's personnel going over the process for registering in PAS, what documentation they need and how to submit applications.

In addition, NANPA continues sending regular updates to the state commissions whenever new applications or filings are made and when initial requests to open CO codes for LRNs are submitted in their states. NANPA continues to respond to questions from states about the 30-day notification process and works with the states and the FCC on whether the iVoIP entities must follow state-specific regulations.

NANPA created the "VoIP Provider 30-day Notification State Regulatory Sheet" which is posted to our 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 about how to submit 30-day notifications, as well as contact information for each state. NANPA updates the information when notified about any changes.

In 2021, there were 51,412 applications (Part 3As) processed for iVoIP providers (IPES OCN), which is approximately 15% of the total number of Parts 3As processed. Table 4-13 details the total number of applications processed for iVoIP providers in 2021:

Table 4-13
2021 iVoIP Applications (Part 3As) Processed

Approvals	43,350
Denials	1,988
Suspensions	5,667
Withdrawals	407
TOTAL	**51,412**

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 161 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 but based on responses from SPs, NANPA estimates at least 100 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 records when such changes impact 50 or more CO codes. In 2021, NANPA processed 20,428 CO code changes and 139,160 changes for thousands-blocks via the mass modification process.

4.3.9 RECLAMATION

4.3.9.1 CO CODE RECLAMATION

Each CO code assignment has an associated “effective date” when the CO code will be placed in service. The assignment guidelines require that the CO code be placed in service no later than six-months after the original effective date. The assignee confirms that the CO code is in service by submitting a Part 4. If a Part 4 has not been received by NANPA during the first five months following the original effective date, NANPA will send a reminder notice to the code assignee. In 2021, 6,888 Part 4s were processed by NANPA. In order to process the Part 4 to show the code is in service, NANPA must complete the work item in NAS as well as update the in-service indicator on the ACD screen in iconectiv®’s BIRRDS (Business Integrated Rating and Routing Database System).

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

NANPA monitors the number of delinquent CO codes on which it begins the reclamation process, the number of overdue Part 4s overall, as well as the number of CO codes actually reclaimed each month. The recovery of a CO code must be directed by the appropriate regulatory authority. NANPA initiated reclamation for four CO codes in 2021. As shown in Table 4-13, there was no actual reclamation of CO codes in 2021.

Table 4-14
2021 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[19]	TOTAL NUMBER OF CO CODES RECLAIMED
January	30	4	0	0
February	46	6	0	0
March	51	20	0	0
April	54	16	0	0
May	43	2	2	0
June	41	6	0	0
July	34	3	0	0
August	43	13	0	0
September	49	11	2	0
October	43	8	0	0
November	34	7	0	0
December	29	7	0	0
TOTAL	**497**	**103**	**4**	**0**

4.3.9.2 THOUSANDS-BLOCK RECLAMATION

NANPA initiates thousands-block reclamation according to the TBCOCAG, which directs that, "[a] thousands-block assigned to a service provider should be placed into service by the applicable activation deadline, that is, six-months after the original effective date returned on the Part 3A and entered on the BCD/BCR screen in BIRRDS." Each thousands-block assignment has an associated "Part 3A effective date," which is the date the individual numbers in the thousands-block become available to be assigned to customers. The thousands-block holder confirms that the thousands-block is in service by submitting a Part 4A to NANPA. If NANPA does not receive the Part 4A during the first five months following the original effective date identified on the Part 3A, NANPA sends a reminder notice to the thousands-block holder. NANPA also sends a second reminder to the SP on the day after the Part 4A was due. In 2021, NANPA processed 99,515 Part 4As.

[19] While a state may authorize the NANPA to initiate CO code reclamation, not all CO codes 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.

If the Part 4A is not received within six-months of the original Part 3A effective date, the Part 4A is considered delinquent and the thousands-block is eligible to be reclaimed. By the 10th calendar day of each month, NANPA sends a list of delinquent Part 4As for the thousands-blocks to each appropriate state commission and FCC contact. NANPA sent 391 monthly reports to regulatory staff to address a total of 5,669 thousands-blocks on the overdue Part 4/4A reports in 2021. Of those, 2,170 thousands-blocks were new.

An appropriate regulatory agency must authorize NANPA to initiate thousands-block reclamation, but then may halt the reclamation process if, for example, it is determined that numbers in the thousands-blocks are actually in service. In 2021, regulators authorized NANPA to initiate reclamation on 23 thousands-blocks. Of those, nine thousands-blocks were actually reclaimed: six in New York, two in Florida and one in Michigan. Table 4-15 depicts all of the 2021 thousands-block reclamation activity:

Table 4-15
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[20]	TOTAL NUMBER OF THOUSANDS-BLOCKS RECLAIMED
January	317	120	2	0
February	568	352	1	0
March	535	282	1	0
April	478	168	0	0
May	435	112	2	1
June	492	144	7	0
July	391	72	5	0
August	431	107	0	0
September	514	189	1	2
October	544	201	1	0
November	528	270	1	6
December	436	153	2	0
TOTAL	**5,669**	**2,170**	**23**	**9**

4.4 IDENTIFICATION OF EXISTING AND POTENTIAL THOUSANDS-BLOCK POOLING AREAS

As of December 31, 2021, there are 16,797 distinct thousands-block pooling rate centers (i.e., pooling areas), which constitute 90.8% 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 delegated authority. North Dakota, South Dakota, and Wyoming have no mandatory pooling rate centers. While NANPA cannot

[20] 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.

speculate about “potential” pooling areas, there are currently 1,752 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.

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 16,797 distinct pooling rate centers (*i.e.*, pooling areas), and their status designations, by state, as of December 31, 2021. Pooling rate centers are identified as either “mandatory” or “optional.” Rate centers with a designation of “excluded” are not considered pooling areas.

Table 4-16
Summary of all Rate Centers by Status Designation

STATE	MANDATORY (M)	MANDATORY STATE (M)	OPTIONAL	MANDATORY SINGLE SP(M*)	MANDATORY STATE SINGLE SP (M*)	EXCLUDED	TOTAL
ALABAMA	58	86	135			20	299
ALASKA		76			184		260
ARIZONA	45		69	2		14	130
ARKANSAS	47		287			46	380
CALIFORNIA	440	83	179	14		23	739
COLORADO	23	5	137			43	208
CONNECTICUT	74	15					89
DISTRICT OF COLUMBIA	1						1
DELAWARE	8		22				30
FLORIDA	129	14	124			1	268
GEORGIA	79		243	2		36	360
HAWAII	1		5				6
IDAHO	17	113		2	13		145
ILLINOIS	238		645	14		87	984
INDIANA	221	264	16	4	18	2	525
IOWA	83	63	465	18		182	811
KANSAS	75		357	18		124	574
KENTUCKY	47	148	139		15	23	372
LOUISIANA	66		204			7	277
MAINE	50	101	94			4	249
MARYLAND	112	53					165
MASSACHUSETS	234	30	2				266
MICHIGAN	228	112	289	1	1	3	634
MINNESOTA	63		434			141	638
MISSISSIPPI	46	96	88	3	2	4	239
MISSOURI	140	464		18	99		721
MONTANA		154			106		260
NORTH CAROLINA	155	17	241	3		15	431
NORTH DAKOTA			129			170	299
NEBRASKA	28	197	170	4	52		451
NEVADA	25		48			23	96
NEW HAMPSHIRE	32	92	24				148
NEW JERSEY	187		21				208
NEW MEXICO	7		87			60	154

STATE	MANDATORY (M)	MANDATORY STATE (M)	OPTIONAL	MANDATORY SINGLE SP(M*)	MANDATORY STATE SINGLE SP (M*)	EXCLUDED	TOTAL
NEW YORK	407	261	79				747
OHIO	383	163	165			28	739
OKLAHOMA	119	15	213	21		161	529
OREGON	36	103	78			38	255
PENNSYLVANIA	415	347	12		2		776
PUERTO RICO	49		35				84
RHODE ISLAND	25						25
SOUTH CAROLINA	112		123			5	240
SOUTH DAKOTA			111			158	269
TENNESSEE	122		191	5		22	340
TEXAS	325	7	759	8		178	1,277
UTAH	36	1	51	7		37	132
VERMONT		101	40				141
VIRGINIA	125	178	66				369
WASHINGTON	55	151	1	2	14		223
WEST VIRGINIA	7	156	61			4	228
WISCONSIN	131	321	121	7	22		602
WYOMING			63			29	92
GRAND TOTAL	**5,306**	**3,987**	**6,823**	**153**	**528**	**1,688**	**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
Summarized Information about Existing and "Potential" Pooling Areas

Total Number of Distinct Rate Centers Available for Pooling	**16,797**
Percentage of Distinct Rate Centers Available for Pooling	90.8%
Total Number of Mandatory (M and M) Distinct Rate Centers	**9,293**
Percentage of Distinct Rate Centers that are Mandatory	50.3%
Total Number of Distinct Mandatory Single-Service Provider (M*and M*) Rate Centers	**681**

Percentage of Distinct Rate Centers that are Mandatory Single-Service Provider	3.6%
Total Number of Distinct Optional Rate Centers	**6,823**
Percentage of Distinct Rate Centers that are Optional	37.0%
Total Number of Distinct Rate Centers Excluded from Pooling	**1,688**
Percentage of Distinct Rate Centers that are Excluded from Pooling	9.1%
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 2021 can be found as Attachment 5. There are 1,141 distinct service providers[21] participating in 16,797 distinct pooled rate centers in 239 NPA and NPA complexes covering 52 jurisdictions -- 50 states, the District of Columbia, and Puerto Rico.

[21] 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 for the current year and the previous years, as specifically required by the contract.

HIGHLIGHTS OF 2021 FORECAST DATA
There were forecasts in 239 NPA and NPA complexes:
▪ **13,940 distinct rate areas with forecasts**
▪ **152,341 forecasted thousands-blocks**
▪ **102,759 thousands-blocks assigned**
▪ **67.45% of the thousands-blocks forecasted were assigned**

In 2021, 152,341 thousands-blocks were forecasted, and 102,759 thousands-blocks were assigned in 239 NPA and NPA complexes. This resulted in 67.45% of the forecasted thousands-blocks being assigned.

In 2021, out of the 16,797 pooling rate centers, carriers forecasted a need for thousands-blocks in 13,940 of those rate centers, or in 83% of the pooling rate centers, leaving only 2,850 pooling rate centers where no thousands-blocks were forecasted during 2021. 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 2021

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
201/551	NEW JERSEY	659	449	68.13%
202/771	DISTRICT OF COLUMBIA	395	220	55.70%
203/475	CONNECTICUT	775	490	63.23%
205/659	ALABAMA	799	536	67.08%
206	WASHINGTON	359	217	60.45%
207	MAINE	665	307	46.17%
208/986	IDAHO	802	615	76.68%
209	CALIFORNIA	771	459	59.53%
210/726	TEXAS	409	289	70.66%
212/332/646/917	NEW YORK	513	338	65.89%
213/323	CALIFORNIA	972	681	70.06%
214/469/945/972	TEXAS	1,527	1,048	68.63%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
215/267/445	PENNSYLVANIA	1,257	758	60.30%
216	OHIO	392	275	70.15%
217/447	ILLINOIS	1,765	968	54.84%
218	MINNESOTA	751	466	62.05%
219	INDIANA	508	306	60.24%
220/740	OHIO	1,124	829	73.75%
223/717	PENNSYLVANIA	1,074	694	64.62%
224/847	ILLINOIS	958	598	62.42%
225	LOUISIANA	401	343	85.54%
228	MISSISSIPPI	252	190	75.40%
229	GEORGIA	692	467	67.49%
231	MICHIGAN	657	514	78.23%
234/330	OHIO	938	680	72.49%
239	FLORIDA	449	354	78.84%
240/301	MARYLAND	1,303	884	67.84%
248/947	MICHIGAN	687	356	51.82%
251	ALABAMA	614	504	82.08%
252	NORTH CAROLINA	756	449	59.39%
253	WASHINGTON	369	200	54.20%
254	TEXAS	873	715	81.90%
256/938	ALABAMA	997	740	74.22%
260	INDIANA	436	300	68.81%
262	WISCONSIN	651	524	80.49%
269	MICHIGAN	568	380	66.90%
270/364	KENTUCKY	586	397	67.75%
272/570	PENNSYLVANIA	1,034	608	58.80%
276	VIRGINIA	439	295	67.20%
279/916	CALIFORNIA	702	520	74.07%
281/346/713/832	TEXAS	1,698	1,192	70.20%
302	DELAWARE	322	223	69.25%
303/720	COLORADO	541	352	65.06%
304/681	WEST VIRGINIA	1,578	1,158	73.38%
305/786	FLORIDA	944	624	66.10%
307	WYOMNING	440	316	71.82%
308	NEBRASKA	538	282	52.42%
309	ILLINOIS	809	588	72.68%
310/424	CALIFORNIA	587	431	73.42%
312/872	ILLINOIS	229	134	58.52%
313	MICHIGAN	375	238	63.47%
314	MISSOURI	424	266	62.74%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
315/680	NEW YORK	1,379	969	70.27%
316	KANSAS	429	184	42.89%
317/463	INDIANA	669	448	66.97%
318	LOUISIANA	361	270	74.79%
319	IOWA	487	296	60.78%
320	MINNESOTA	413	282	68.28%
321 (Brevard Cty)	FLORIDA	375	275	73.33%
321/407/689	FLORIDA	866	663	76.56%
325	TEXAS	353	278	78.75%
326/937	OHIO	790	543	68.73%
331/630	ILLINOIS	562	374	66.55%
334	ALABAMA	632	490	77.53%
336/743	NORTH CCAROLINA	635	464	73.07%
337	LOUISIANA	333	251	75.38%
339/781	MASSACHUSETTS	711	498	70.04%
341/510	CALIFORNIA	571	400	70.05%
347/718/917/929	NEW YORK	1,182	807	68.27%
347/718/929	NEW YORK	191	128	67.02%
351/978	MASSACHUSETTS	874	675	77.23%
352	FLORIDA	744	560	75.27%
360/564	WASHINGTON	684	510	74.56%
361	TEXAS	429	293	68.30%
380/614	OHIO	494	315	63.77%
385/801	UTAH	909	549	60.40%
386	FLORIDA	439	318	72.44%
401	RHODE ISLAND	431	313	72.62%
402/531	NEBRASKA	1,064	802	75.38%
404/470/678	GEORGIA	617	360	58.35%
405/572	OKLAHOMA	718	565	78.69%
406	MONTANA	590	411	69.66%
408/669	CALIFORNIA	475	305	64.21%
409	TEXAS	382	286	74.87%
410/443/667	MARYLAND	1,391	1,077	77.43%
412/878	PENNSYLVANIA	453	185	40.84%
413	MASSACHUSETTS	699	524	74.96%
414	WISCONSIN	226	154	68.14%
415/628	CALIFORNIA	533	297	55.72%
417	MISSOURI	582	424	72.85%
419/567	OHIO	1,089	780	71.63%
423	TENNESSEE	728	532	73.08%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
425	WASHINGTON	400	243	60.75%
430/903	TEXAS	1,112	954	85.79%
432	TEXAS	236	190	80.51%
434	VIRGINIA	439	332	75.63%
435	UTAH	409	294	71.88%
440	OHIO	664	496	74.70%
442/760	CALIFORNIA	966	736	76.19%
448/850	FLORIDA	704	439	62.36%
458/541	OREGON	796	623	78.27%
708	ILLINOIS	608	424	69.74%
470/678/770	GEORGIA	1,707	842	49.33%
478	GEORGIA	325	274	84.31%
479	ARKANSAS	557	374	67.15%
480	ARIZONA	395	222	56.20%
484/610	PENNSYLVANIA	1,063	717	67.45%
501	ARKANSAS	645	366	56.74%
502	KENTUCKY	616	381	61.85%
503/971	OREGON	660	450	68.18%
504	LOUISIANA	191	137	71.73%
505	NEW MEXICO	509	355	69.74%
507	MINNESOTA	808	450	55.69%
508/774	MASSACHUSETTS	1,056	786	74.43%
509	WASHINGTON	641	402	62.71%
512/737	TEXAS	863	638	73.93%
513	OHIO	549	270	49.18%
515	IOWA	362	191	52.76%
516	NEW YORK	542	318	58.67%
517	MICHIGAN	587	352	59.97%
518/838	NEW YORK	1,452	850	58.54%
520	ARIZONA	566	406	71.73%
530	CA CALIFORNIA	612	499	81.54%
534/715	WISCONSIN	648	474	73.15%
539/918	OKLAHOMA	720	551	76.53%
540	VRIGINIA	802	534	66.58%
559	CALIFORNIA	713	545	76.44%
561	FLORIDA	631	419	66.40%
562	CALIFORNIA	428	302	70.56%
563	IOWA	301	211	70.10%
571/703	VRGINIA	688	518	75.29%
573	MISSOURI	765	575	75.16%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
574	INDIANA	425	282	66.35%
575	NEW MEXICO	323	243	75.23%
580	OKLAHOMA	530	405	76.42%
582/814	PENNSYLVANIA	909	600	66.01%
585	NEW YORK	796	524	65.83%
586	MICHIGAN	227	177	77.97%
601/769	MISSISSIPPI	867	627	72.32%
602	ARIZONA	310	205	66.13%
603	NEW HAMPSHIRE	705	349	49.50%
605	SOUTH DAKOTA	560	306	54.64%
606	KENTUCKY	388	299	77.06%
607	NEW YORK	675	526	77.93%
608	WISCONSIN	709	564	79.55%
609/640	NEW JERSEY	777	563	72.46%
612	MINNESOTA	253	150	59.29%
615/629	TENNESSEE	742	545	73.45%
616	MICHIGAN	416	303	72.84%
617/857	MASSACHUSETTS	743	472	63.53%
618	ILLINOIS	1,173	629	53.62%
619/858	CALIFORNIA	997	674	67.60%
620	KANSAS	563	394	69.98%
623	ARIZONA	301	113	37.54%
626	CALIFORNIA	436	322	73.85%
631/934	NEW YORK	1,168	702	60.10%
636	MISSOURI	403	302	74.94%
641	IOWA	540	323	59.81%
650	CALIFORNIA	378	242	64.02%
651	MINNESOTA	203	105	51.72%
813	FLORIDA	662	422	63.75%
657/714	CALIFORNIA	1,306	830	63.55%
660	MISSOURI	411	294	71.53%
661	CALIFORNIA	533	395	74.11%
662	MISSISSIPPI	749	577	77.04%
682/817	TEXAS	781	526	67.35%
701	NORTH DAKOTA	328	198	60.37%
702/725	NEVADA	589	421	71.48%
704/980	NORTH CAROLINA	851	563	66.16%
706/762	GEORGIAA	1,374	843	61.35%
707	CALIFORNIA	541	370	68.39%
712	IOWA	572	422	73.78%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
716	NEW YORK	1,021	548	53.67%
719	COLORADO	475	276	58.11%
724/878	PENNSYLVANIA	824	613	74.39%
727	FLORIDA	325	241	74.15%
731	TENNESSEE	383	264	68.93%
732/848	NEW JERSEY	706	468	66.29%
734	MICHIGAN	600	303	50.50%
747/818	CALIFORNIA	554	408	73.65%
754/954	FLORIDA	623	439	70.47%
757	VIRGINIA	556	301	54.14%
763	MINNESOTA	196	94	47.96%
765	INDIANA	687	499	72.63%
772	FLORIDA	274	214	78.10%
773/872	ILLINOIS	567	402	70.90%
775	NEVADA	410	319	77.80%
779/815	ILLINOIS	1,050	742	70.67%
785	KANSAS	489	313	64.01%
787/939	PUERTO RICO	830	398	47.95%
802	VERMONT	327	259	79.20%
803/839	SOUTH CAROLINA	590	385	65.25%
804	VIRGINIA	610	448	73.44%
805/820	CALIFORNIA	685	406	59.27%
806	TEXAS	320	287	89.69%
808	HAWAII	284	213	75.00%
810	MICHIGAN	530	327	61.70%
812/930	INDIANA	866	468	54.04%
816	MISSOURI	562	409	72.78%
828	NORTH CAROLINA	593	407	68.63%
830	TEXAS	688	536	77.91%
831	CALIFORNIA	310	180	58.06%
840/909	CALIFORNIA	731	460	62.93%
843/854	SOUTH CAROLINA	520	408	78.46%
845	NEW YORK	1,345	625	46.47%
856	NEW JERSEY	566	384	67.84%
859	KENTUCKY	412	232	56.31%
860/959	CONNECTICUT	758	519	68.47%
862/973	NEW JERSEY	826	601	72.76%
863	FLORIDA	468	362	77.35%
864	SOUTH CAROLINA	529	441	83.36%
865	TENNESSEE	383	265	69.19%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
870	ARKANSAS	857	418	48.77%
901	TENNESSEE	419	253	60.38%
904	FLORIDA	524	388	74.05%
906	MICHIGAN	240	167	69.58%
907	ALASKA	334	57	17.07%
908	NEW JERSEY	509	374	73.48%
910	NORTH CAROLINA	562	354	62.99%
912	GEORGIA	725	486	67.03%
913	KANSAS	310	225	72.58%
914	NEW YORK	644	383	59.47%
915	TEXAS	279	206	73.84%
919/984	NORTH CAROLINA	615	401	65.20%
920	WISCONSIN	811	600	73.98%
925	CALIFORNIA	419	268	63.96%
928	ARIZONA	640	506	79.06%
931	TENNESSEE	485	326	67.22%
936	TEXAS	508	426	83.86%
940	TEXAS	337	299	88.72%
941	FLORIDA	314	240	76.43%
949	CALIFORNIA	616	357	57.95%
951	CALIFORNIA	560	334	59.64%
952	MINNESOTA	120	44	36.67%
956	TEXAS	591	387	65.48%
970	COLORADO	470	320	68.09%
979	TEXAS	380	316	83.16%
985	LOUISIANA	315	253	80.32%
989	MICHIGAN	480	338	70.42%

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 Alaska 907 NPA had the lowest percentage of thousands-blocks assigned compared to total thousands-blocks forecasted, at 17.07%, while the Texas 806 NPA had the highest ratio at 89.69%.

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
907	ALASKA	334	57	17.07%
952	MINNESOTA	120	44	36.67%
623	ARIZONA	301	113	37.54%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
412/878	PENNSYLVANIA	453	185	40.84%
316	KANSAS	429	184	42.89%
207	MAINE	665	307	46.17%
845	NEW YORK	1,345	625	46.47%
787/939	PUERTO RICO	830	398	47.95%
763	MINNESOTA	196	94	47.96%
870	ARKANSAS	857	418	48.77%
513	OHIO	549	270	49.18%
470/678/770	GEORGIA	1,707	842	49.33%
603	NEW HAMPSHIRE	705	349	49.50%
734	MICHIGAN	600	303	50.50%
651	MINNESOTA	203	105	51.72%
248/947	MICHIGAN	687	356	51.82%
308	NEBRASKA	538	282	52.42%
515	IOWA	362	191	52.76%
618	ILLINOIS	1,173	629	53.62%
716	NEW YORK	1021	548	53.67%
812/930	INDIANA	866	468	54.04%
757	VIRGINIA	556	301	54.14%
253	WASHINGTON	369	200	54.20%
605	SOUTH DAKOTA	560	306	54.64%
217/447	ILLINOIS	1,765	968	54.84%
507	MINNESOTA	808	450	55.69%
202/771	DISTRICT OF COLUMBIA	395	220	55.70%
415/628	CALIFORNIA	533	297	55.72%
480	ARIZONA	395	222	56.20%
859	KENTUCKY	412	232	56.31%
501	ARIZONA	645	366	56.74%
949	CALIFORNIA	616	357	57.95%
831	CALIFORNIA	310	180	58.06%
719	COLORADO	475	276	58.11%
404/470/678	GEORGIA	617	360	58.35%
312/872	ILLINOIS	229	134	58.52%
518/838	NEW YORK	1,452	850	58.54%
516	NEW YORK	542	318	58.67%
272/570	PENNSYLVANIA	1,034	608	58.80%
805/820	CALIFORNIA	685	406	59.27%
612	MINNESOTA	253	150	59.29%
252	NORTH CAROLINA	756	449	59.39%
914	NEW YORK	644	383	59.47%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
209	CALIFORNIA	771	459	59.53%
951	CALIFORNIA	560	334	59.64%
641	IOWA	540	323	59.81%
517	MICHIGAN	587	352	59.97%
631/934	NEW YORK	1,168	702	60.10%
219	INDIANA	508	306	60.24%
215/267/445	PENNSYLVANIA	1,257	758	60.30%
701	NORTH DAKOTA	328	198	60.37%
901	TENNESSEE	419	253	60.38%
385/801	UTAH	909	549	60.40%
206	WASHINGTON	359	217	60.45%
425	WASHINGTON	400	243	60.75%
319	IOWA	487	296	60.78%
706/762	GEORGIA	1,374	843	61.35%
810	MICHIGAN	530	327	61.70%
502	KENTUCKY	616	381	61.85%
218	MINNESOTA	751	466	62.05%
448/850	FLORIDA	704	439	62.36%
224/847	ILLINOIS	958	598	62.42%
509	WASHINGTON	641	402	62.71%
314	MISSOURI	424	266	62.74%
840/909	CALIFORNIA	731	460	62.93%
910	NORTH CAROLINA	562	354	62.99%
203/475	CONNECTICUT	775	490	63.23%
313	MICHIGAN	375	238	63.47%
617/857	MASSACHUSETTS	743	472	63.53%
657/714	CALIFORNIA	1,306	830	63.55%
813	FLORIDA	662	422	63.75%
380/614	OHIO	494	315	63.77%
925	CALIFORNIA	419	268	63.96%
785	KANSAS	489	313	64.01%
650	CALIFORNIA	378	242	64.02%
408/669	CALIFORNIA	475	305	64.21%
223/717	PENNSYLVANIA	1,074	694	64.62%
303/720	COLORADO	541	352	65.06%
919/984	NORTH CAROLINA	615	401	65.20%
803/839	SOUTH CAROLINA	590	385	65.25%
956	TEXAS	591	387	65.48%
585	NEW YORK	796	524	65.83%
212/332/646/917	NEW YORK	513	338	65.89%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
582/814	PENNSYLVANIA	909	600	66.01%
305/786	FLORIDA	944	624	66.10%
602	ARIZONA	310	205	66.13%
704/980	NORTH CAROLINA	851	563	66.16%
732/848	NEW JERSEY	706	468	66.29%
574	INDIANA	425	282	66.35%
561	FLORIDA	631	419	66.40%
331/630	ILLINOIS	562	374	66.55%
540	VIRGINIA	802	534	66.58%
269	MICHIGAN	568	380	66.90%
317/463	INDIANA	669	448	66.97%
347/718/929	NEW YORK	191	128	67.02%
912	GEORGIA	725	486	67.03%
205/659	ALABAMA	799	536	67.08%
479	ARKANSAS	557	374	67.15%
276	VIRGINIA	439	295	67.20%
931	TENNESSEE	485	326	67.22%
682/817	TEXAS	781	526	67.35%
484/610	PENNSYLVANIA	1,063	717	67.45%
229	GEORGIA	692	467	67.49%
619/858	CALIFORNIA	997	674	67.60%
270/364	KENTUCKY	586	397	67.75%
240/301	MARYLAND	1,303	884	67.84%
856	NEW JERSEY	566	384	67.84%
970	COLORADO	470	320	68.09%
201/551	NEW JERSEY	659	449	68.13%
414	WISCONSIN	226	154	68.14%
503/971	OREGON	660	450	68.18%
347/718/917/929	NEW YORK	1,182	807	68.27%
320	MINNESOTA	413	282	68.28%
361	TEXAS	429	293	68.30%
707	CALIFORNIA	541	370	68.39%
860/959	CONNECTICUT	758	519	68.47%
214/469/945/972	TEXAS	1,527	1,048	68.63%
828	NORTH CAROLINA	593	407	68.63%
326/937	OHIO	790	543	68.73%
260	INDIANA	436	300	68.81%
731	TENNESSEE	383	264	68.93%
865	TENNESSEE	383	265	69.19%
302	DELAWARE	322	223	69.25%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
906	MICHIGAN	240	167	69.58%
406	MONTANA	590	411	69.66%
708	ILLINOIS	608	424	69.74%
505	NEW MEXICO	509	355	69.74%
620	KANSAS	563	394	69.98%
339/781	MA	711	498	70.04%
341/510	CALIFORNIA	571	400	70.05%
213/323	CALIFORNIA	972	681	70.06%
563	IOWA	301	211	70.10%
216	OHIO	392	275	70.15%
281/346/713/832	TEXAS	1,698	1,192	70.20%
315/680	NEW YORK	1,379	969	70.27%
989	MICHIGAN	480	338	70.42%
754/954	FLORIDA	623	439	70.47%
562	CALIFORNIA	428	302	70.56%
210/726	TEXAS	409	289	70.66%
779/815	ILLINOIS	1,050	742	70.67%
773/872	ILLINOIS	567	402	70.90%
702/725	NEVADA	589	421	71.48%
660	MISSOURI	411	294	71.53%
419/567	OHIO	1,089	780	71.63%
504	LOUISIANA	191	137	71.73%
520	ARIZONA	566	406	71.73%
307	WYOMING	440	316	71.82%
435	UTAH	409	294	71.88%
601/769	MISSISSIPPI	867	627	72.32%
386	FLORIDA	439	318	72.44%
609/640	NEW JERSEY	777	563	72.46%
234/330	OHIO	938	680	72.49%
913	KANSAS	310	225	72.58%
401	RHODE ISLAND	431	313	72.62%
765	INDIANA	687	499	72.63%
309	ILLINOIS	809	588	72.68%
862/973	NEW JERSEY	826	601	72.76%
816	MISSOURI	562	409	72.78%
616	MICHIGAN	416	303	72.84%
417	MISSOURI	582	424	72.85%
336/743	NORTH CAROLINA	635	464	73.07%
423	TENNESSEE	728	532	73.08%
534/715	WISCONSIN	648	474	73.15%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
321	FLORIDA	375	275	73.33%
304/681	WEST VIRGINIA	1,578	1,158	73.38%
310/424	CALIFORNIA	587	431	73.42%
804	VIRGINIA	610	448	73.44%
615/629	TENNESSEE	742	545	73.45%
908	NEW JERSEY	509	374	73.48%
747/818	CALIFORNIA	554	408	73.65%
220/740	OHIO	1,124	829	73.75%
712	IOWA	572	422	73.78%
915	TEXAS	279	206	73.84%
626	CALIFORNIA	436	322	73.85%
512/737	TEXAS	863	638	73.93%
920	WISCONSIN	811	600	73.98%
904	FLORIDA	524	388	74.05%
279/916	CALIFORNIA	702	520	74.07%
661	CALIFORNIA	533	395	74.11%
727	FLORIDA	325	241	74.15%
256/938	ALABAMA	997	740	74.22%
724/878	PENNSYLVANIA	824	613	74.39%
508/774	MASSACHUSETTS	1,056	786	74.43%
360/564	WASHINGTON	684	510	74.56%
440	OHIO	664	496	74.70%
318	LOUISIANA	361	270	74.79%
409	TEXAS	382	286	74.87%
636	MISSOURI	403	302	74.94%
413	MASSACHUSETTS	699	524	74.96%
808	HAWAII	284	213	75.00%
573	MISSOURI	765	575	75.16%
575	NEW MEXICO	323	243	75.23%
352	FLORIDA	744	560	75.27%
571/703	VIRGINIA	688	518	75.29%
337	LOUISIANA	333	251	75.38%
402/531	NEBRASKA	1,064	802	75.38%
228	MISSISSIPPI	252	190	75.40%
434	VIRGINIA	439	332	75.63%
442/760	CALIFORNIA	966	736	76.19%
580	OKLAHOMA	530	405	76.42%
941	FLORIDA	314	240	76.43%
559	CALIFORNIA	713	545	76.44%
539/918	OKLAHOMA	720	551	76.53%

NPA COMPLEX	STATE	BLOCKS FORECASTED	BLOCKS ASSIGNED	PERCENTAGE ASSIGNED
321/407/689	FLORIDA	866	663	76.56%
208/986	IDAHO	802	615	76.68%
662	MISSISSIPPI	749	577	77.04%
606	KENTUCKY	388	299	77.06%
351/978	MASSACHUSETTS	874	675	77.23%
863	FLORIDA	468	362	77.35%
410/443/667	MARYLAND	1,391	1,077	77.43%
334	ALABAMA	632	490	77.53%
775	NEVADA	410	319	77.80%
830	TEXAS	688	536	77.91%
607	NEW YORK	675	526	77.93%
586	MICHIGAN	227	177	77.97%
772	FLORIDA	274	214	78.10%
231	MICHIGN	657	514	78.23%
458/541	OREGON	796	623	78.27%
843/854	SOUTH CAROLINA	520	408	78.46%
405/572	OKLAHOMA	718	565	78.69%
325	TEXAS	353	278	78.75%
239	FLORIDA	449	354	78.84%
928	ARIZONA	640	506	79.06%
802	VERMONT	327	259	79.20%
608	WISCONSIN	709	564	79.55%
985	LOUISIANA	315	253	80.32%
262	WISCONSIN	651	524	80.49%
432	TEXAS	236	190	80.51%
530	CALIFORNIA	612	499	81.54%
254	TX TEXAS	873	715	81.90%
251	ALABAMA	614	504	82.08%
979	TEXAS	380	316	83.16%
864	SOUTH CAROLINA	529	441	83.36%
936	TEXAS	508	426	83.86%
478	GEORGIA	325	274	84.31%
225	LOUISIANA	401	343	85.54%
430/903	TEXAS	1,112	954	85.79%
940	TEXAS	337	299	88.72%
806	TEXAS	320	287	89.69%

For the last five years, the highest percentage of forecasted to actual assigned thousands-blocks was 67.4% in 2021 and the lowest was in 2017 at 32.7%.

Table 5-3 below illustrates the ratio between forecasts and actual assigned thousands-blocks from 2017 through 2021, ranked from highest percentage to lowest.

Table 5-3
Summary of Forecasted and Actual Assigned Thousands-Blocks from 2017 through 2021

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	2020	134,203	74,078	55.2%
3	2019	114,472	51,929	45.4%
4	2018	116,958	46,588	39.8%
5	2017	121,477	39,728	32.7%

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. This section describes each of these resources including details about 2021 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 applicant is a long distance carrier, the access provider must separately provide NANPA with a copy of the Access Service Request (ASR) to verify that FG D trunk access has been ordered. If the CIC applicant is a Local Exchange Carrier (LEC), incumbent LEC (ILEC) or competitive LEC (CLEC), a copy of the authorization from a state regulatory commission granting the applicant authority must 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 guidelines for the administration of CICs, *Carrier Identification Code (CIC) Assignment Guidelines, ATIS 0300050,* may be found on the ATIS website at http://www.atis.org/01_committ_forums/INC/documents/. The assignment guidelines require all CIC assignees to submit "Entity Semi-Annual" CIC reports. In addition, access providers providing FG B and/or FG D access service, particularly access providers with more than 30 CICs programmed in their switches, 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 "BC Clearinghouses", are required to submit semi-annual "Entity Access/Usage" reports to NANPA. These reports demonstrate whether access or usage has been established as well as document that assigned CICs are being used in accordance with the CIC Assignment Guidelines.

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 2021, NANPA assigned two new FG D CICs and 20 FG B CICs were returned, as shown in Table 6-1. At the end of 2021, 1,744 FG D CICs were assigned in total, leaving 8,033 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 2021, NANPA reclaimed two FG D CICs.

Table 6-1
2021 Monthly FG D CIC assignments, denials and returns/reclaimed

Month	Assigned	Returned/ Reclaimed	Denied	Withdrawn
January	0	13	1	0
February	1	1	0	0
March	0	0	0	0
April	0	4	2	4
May	0	0	0	1
June	0	0	0	0
July	0	2	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	1	0	1	0
December	0	0	0	0
TOTAL	**2**	**20**	**4**	**5**

6.1.3 FG B CIC ACTIVITY

In 2021, no FG B CICs were assigned and seven FG B CICs were returned, as shown in Table 6-2. At the end of 2021, 180 FG B CICs were assigned in total. The potential exhaust of the FG B CIC resource is not a concern based on the current rate of assignment.

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 2021, NANPA reclaimed one FG B CIC.

Table 6-2
2021 Monthly FG B CIC assignments, denials and returns/reclaimed

Month	Assigned	Returned /Reclaimed	Denied	Withdrawn
January	0	2	0	0
February	0	0	0	0
March	0	0	0	0
April	0	4	0	0
May	0	0	0	0
June	0	1	0	0
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
TOTAL	**0**	**7**	**0**	**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, ATIS 0300052*, which may be downloaded from the ATIS website (http://www.atis.org/01_committ_forums/INC/documents/). It should be noted that the 5XX resource is not portable.

There were 13 5XX NPAs in-service at the end of 2021: NPAs 500, 521, 533, 544,

566, 577, 588, 522, 523, 524, 525, 526 and 527. In January 2021, NANPA initiated NXX assignments from the 526 NPA and published Planning Letter 558. In August 2021, NANPA published Planning Letter 564 (Assignment of NPA 527 for Non-Geographic Services). In September 2021, NANPA initiated NXX assignments from the 527 NPA and published Planning Letter 566.

During 2021, NANPA assigned 1,582 new 5XX-NXX codes compared to 1,186 5XX-NXX codes assigned in 2020 and 214 5XX-NXX codes were returned. At the end of 2021, 9,885 5XX-NXX codes remain as assigned, and 415 5XX-NXX codes available for assignment.

There are a total of 26 5XX-NXX codes that are not available for assignment within the 5XX-555 and 5XX-911. Based on NRUF forecast data and assignment information, it is projected that multiple 5XX-NXXs will be needed over the next several years.

There are 20 reserved 5XX NPAs: 528, 529, 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, ATIS-0300060,* that may be found on the ATIS website at http://www.atis.org/01_committ_forums/INC/documents/.

There were no 900-NXX codes assigned and no 900-NXX codes returned in 2021. 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 2021, there were 53 900-NXXs that remain as assigned and 608 900-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 Routing Guide.

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:

- 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, ATIS-0300049*, and age the 456 NPA for five years before the NPA is returned to the general purpose NPA code pool. This means the 456 NPA will be returned to the general purpose NPA code pool in 2023.

6.6 RESOURCE REPORT—N11 CODES

N11 codes, listed with their descriptions in Table 6-3, are the only valid three-digit telephone numbers in the NANP.[22]

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

N11 CODE	DESCRIPTION
211	Community information and referral services
311	Non-emergency police and other governmental services (U.S.)
411	Local directory assistance
511	Traffic and transportation information (U.S.); Provision of Weather and Traveler Information Services (Canada)
611	Repair service

[22] In 2020, the FCC approved the use of the 988 three-digit abbreviated code to access the National Suicide Prevention Lifeline. The 988 abbreviated code will be available for use after July 15, 2022.

N11 CODE	DESCRIPTION
711	Telecommunications Relay Service (TRS)
811	Access to One Call Services to Protect Pipeline and Utilities from Excavation Damage (U.S.); Non-Urgent Health Teletriage Services (Canada)
911	Emergency

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 that may be found on the ATIS website at http://www.atis.org/01_committ_forums/INC/documents/. The guidelines are entitled *Automatic Number Identification (ANI) Information Digits Codes*, *ATIS- 0300064*. Requests for the assignment of ANI II digits are referred to the INC for consideration. If the INC approves the request, NANPA makes the assignment.

No ANI II digit assignments were made in 2021. 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, ATIS-0300058*, that may be found on the ATIS website at http://www.atis.org/01_committ_forums/INC/documents/.

No VSC assignments were made in 2021. There are 62 assigned VSCs. The following are the list of assigned VSCs[23]:

*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

[23] VSC codes *94 though *99 are reserved for future assignment.

*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
*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 - Automatic - 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 - 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
*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 ADMINISTRATOR (RNA) PRODUCTIVITY:

The P-ANI Administrator (RNA) processes p-ANI 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 addresses the count of p-ANIs requested, assigned, returned, or modified on a monthly basis in 2021. This is not to be confused with the number of applications processed.

Table 7-1
Total Number of p-ANIs by Activity Type

	REQUESTED	ASSIGNED	RETURNED	MODIFIED
Jan	578	548	12	0
Feb	4,500	4,500	44	0
Mar	3,031	3,031	1,699	0
Apr	943	943	24	0
May	1,203	1,203	38	2
Jun	604	604	27	2
Jul	4,787	4,677	64	0
Aug	3,702	3,667	24	4
Sep	2,645	2,635	22	0
Oct	2,348	2,328	18	0
Nov	1,375	1,375	9	1
Dec	790	775	33	0
TOTAL	**26,506**	**26,286**	**2,014**	**9**

Table 7-2 depicts the number of applications processed by p-ANI request type.

Table 7-2
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	9	0	0	0	**9**
New p-ANI Request	1,614	1	0	8	**1,623**
P-ANI Return Request	2,014	0	0	0	**2,014**
TOTAL	**3,638**	**1**	**0**	**8**	**3,647**

The following table is a summary of p-ANI inventory as of December 31, 2021:

Table 7-3
P-ANI Inventory

STATUS	TOTAL p-ANIs	211	511
Assigned	989,762	412,591	577,171
Aging	74	45	29
Available	5,691,918	2,920,193	2,771,725
Unavailable	18,246	17,171	1,075
TOTALS	**6,700,000**	**3,350,000**	**3,350,000**

7.2 OTHER P-ANI ADMINISTRATOR ACTIVITIES

In addition to processing requests for p-ANI ranges, the RNA performed many other functions during 2021.

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 2021, there were 64 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 2021, the RNA was notified of 87 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 that the original range had been 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 our assumption of assignment responsibility.

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. The RNA also assists carriers who are having difficulties locating the correct documentation to help alleviate any delays in obtaining these critical resources. In 2021, the RNA sent courtesy emails for 96 requests. In addition, the RNA provided documents for 37 requests.

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, 2021 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

NANPA also notified the INC and RNAS users that the information was available and included it in the subsequent Report required by the FCC contract.

Table 7-4 below contains the first five NPAs that are projected to exhaust 211/511/p-ANIs as of December 31, 2021.

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

NPA	STATE	TOTAL p-ANI	FORECASTED p-ANI	EXHAUST YEAR	EXHAUST QTR.
281	TEXAS	11,126	921	2026	3
817	TEXAS	6,706	1,028	2029	4
662	MISSISSIPPI	11,925	590	2030	3
214	TEXAS	8,214	800	2031	3
405	OKLAHOMA	14,211	392	2031	4

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 commissions.

Service providers are required to report both thousands-block and CO code 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 Technical Requirements Document (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 2021, 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 11 and August 20.

Table 8-1 contains the thousands-block NRUF/forecast results for both semi-annual reporting periods in 2021.

Table 8-1
Thousands-Block NRUF/Forecast Results

DATE	NPAs	JURISDICTIONS	THOUSANDS-BLOCKS FORECASTED	THOUSANDS-BLOCKS AVAILABLE	CODES FORECASTED
February	327	52	40,037	116,567	3,339
August	333	52	25,628	108,410	2,297

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 regulatory commissions for heightened reporting enforcement, including the responsibility to withhold numbering resources from service providers that fail to file utilization and forecast reports.

NANPA collects, sorts and stores NRUF data submitted by service providers. Data may be submitted via NAS, email (i.e., Excel™), or File Transfer Protocol Format (FTP). In 2021, NANPA processed 12,600 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 also provided 32 reports to the states, covering both NRUF submission cycles in 2021.

NANPA sent Industry notifications to assist service providers with accurately filing their NRUF, including notifications on the need to maintain current user profile information in NAS, approaching NRUF filing due dates, and notification of an FCC order affecting how service providers report reserved numbers for the NRUF (Form 502) due to circumstances presented by the COVID-19 pandemic. 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 the completeness and accuracy of 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 2021

MEASUREMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Form 502 Email Submissions	2,303	425	203	64	29	32	2,517	347	172	55	35	65	6,247
Form 502 FTP Submissions	799	164	8	21	0	0	733	181	4	1	1	0	1,912
Form 502 Web Submissions	986	310	268	177	247	303	1,051	298	238	176	231	156	4,441
Total Form 502 Submissions	**4,088**	**899**	**479**	**262**	**276**	**335**	**4,301**	**826**	**414**	**232**	**267**	**221**	**12,600**
Error Notifications Sent	493	114	57	16	4	13	551	95	38	20	8	26	1435
Missing Utilization Notifications Sent	0	216	0	0	0	0	0	323	2	0	0	0	541
Anomalous Notifications Sent	0	0	372	12	0	0	0	0	229	21	0	0	634
Confirmation Notifications Sent	2,602	473	154	67	27	19	2,693	426	139	36	28	39	6,703
State Reports Created	0	0	10	2	2	1	0	0	13	3	1	0	32

NANPA met 100% of its NRUF performance measurements in 2021 as shown in Table 8-3 below.

Table 8-3
Summary of 2021 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%	N/A	N/A	N/A	N/A	N/A	100%	100%	N/A	N/A	N/A	N/A
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	N/A
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. The volume of area code relief projects has been increasing over the past three years and 2021 was no exception.

NANPA follows the relief planning process described in detail in the *NPA Code Relief Planning and Notification Guidelines ("Guidelines")*, *ATIS-0300061*, which can be found on the ATIS website at http://www.atis.org/01_committ_forums/INC/documents/. At least 36 months prior to the anticipated exhaust of an NPA in the U.S. or its territories, NANPA's relief planners prepare and distribute relief planning documents to the Industry.

For relief projects involving an existing area code overlay, a single NPA with only one rate center, a single NPA area and NANPA determined that only an overlay alternative will meet the guidelines, or the NPA is scheduled to transition to 10-digit dialing or has already transitioned to 10-digit dialing, NANPA skips the IPD and NPA relief planning meeting and moves directly to the development of a draft petition recommending an overlay. This draft petition is reviewed and approved by the Industry prior to NANPA filing it with the appropriate regulatory authority.

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 of specific circumstances in that state and NPA. For an NPA with multiple relief alternatives, NANPA will provide an Initial Planning Document ("IPD"). NANPA leads the Industry in discussion about choosing one of the proposed alternatives for relief and then drafts a petition for review at a subsequent meeting based on the Industry's consensus relief decision.

During 2021, NANPA continued to simplify the relief planning process, when only an overlay alternative meets the Guidelines. For relief projects involving an existing area code overlay, a single NPA with only one rate center, a single NPA area and NANPA determined that only an overlay alternative will meet the guidelines, or the NPA is scheduled to transition to 10-digit dialing or has already transitioned to 10-digit dialing, NANPA replaces the lengthier IPD and moves directly to the development of a draft petition recommending an overlay. NANPA provides a draft petition of the petition to the Industry with the meeting notice. During the meeting, the Industry reviews the draft petition 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.

Once a filing is made, the respective state commission reviews the proposed plan and often invites public comment and conducts public meetings. Some states use the internet to gather public comments in lieu of in-person public meetings in an attempt to solicit greater feedback. During 2021, state commissions held virtual public meetings. The relief planners actively participate in these meetings and are called upon to discuss various aspects of the proposed relief plan.

After the state commission has approved an NPA Relief plan, which may not be one of the options considered by the Industry, NANPA requests assignment of the relief NPA to implement the plan, and then convenes and facilitates the first Industry implementation meeting. Using decisions made at the initial implementation meeting, the relief planner then prepares and publishes a Planning Letter (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, a rate center map, contact information for every service provider that is a code and/or block holder and, in the case of a split, a list of the prefixes moving to the new NPA, and those remaining in the NPA that is receiving relief.

9.2 RELIEF PLANNING PROCESS

NANPA's relief planners conduct all meetings via an on-line meeting platform, allowing participants to view relevant documentation and where appropriate, make real-time updates.

NANPA has created various tools to be used during the Industry meetings. 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 new area code.
- Dialing plans and implementation schedules that permit the Industry to reach a near instant decision on what information to include in the relief petition.
- Excerpts from the *NPA Code Relief Planning & Notification Guidelines, ATIS-0300061*, 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.
- An implementation meeting agenda template to ensure the Industry addresses all relevant activities associated with the introduction of a new NPA.

NANPA employs various practices to ensure an efficient and successful relief planning process:

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.

NANPA attends Industry NPA implementation 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, change in exhaust, any pertinent information that may impact the implementation of the new NPA, and gather and share knowledge gained via these activities in other similar relief efforts.

NANPA publishes daily reports on the status of NPA relief projects. In addition, during the NPA relief planning process, a state regulator or the Industry may specify further action that NANPA is required to undertake based on a related event or trigger point expected to occur sometime in the future. NANPA provides a report that lists these events and associated activities on its website.

9.3 2021 NPA RELIEF ACTIVITIES:

9.3.1 ACTIVE NPA RELIEF PROJECTS

There are many different stages to the relief process. Prior to initiating an NPA relief project, NANPA notified the state commission, prepares documents for the Industry meeting and notifies the Industry about the upcoming meeting. Once the recommended relief method has been determined by the Industry, a filing is electronically submitted to the state. Once NANPA receives regulatory approval of a relief alternative, NANPA begin the implementation process and assigns a new NPA, drafts a Planning Letter and arranges an Industry meeting to set the implementation milestones. At the end of 2021, there were 21 active NPA relief projects.

There was one project in the initial stage of relief planning at the end of 2021. On December 16, NANPA published a notice for an Industry meeting for the Florida 904 NPA that included an IPD for determining the form of relief. The Industry meeting to reach consensus on an alternative for relief is scheduled for January 13, 2022.

Table 9-1 shows the eight relief projects in the state filing stage, where the petition or other regulatory filing has been made but no regulatory approval has been released.

Table 9-1
State Filing Stage

STATE	NPA	FILING TYPE	DATE FILED	STATUS
CALIFORNIA	209	Application	4/9/21	Pending
CALIFORNIA	707	Application	4/16/21	Pending
NEW YORK	516	Petition	9/2/21	Pending
FLORIDA	561	Petition	10/22/21	Pending
ARKANSAS	870	Report and Recommendation	10/28/21	Pending
NEW YORK	845	Petition	11/30/21	Pending
FLORIDA	305/786	Petition	12/2/21	Pending
WISCONSIN	920	Letter	12/29/21	Pending

Table 9-2 depicts the 19 relief projects in the implementation stage. Of these 19 projects, seven were put into service in 2021:

Table 9-2
2021 Relief Projects in the Implementation Stage

STATE	NPA	REGULATORY APPROVAL DATE	NEW NPA	RELIEF TYPE	IN-SERVICE DATE	PLANNING LETTER #
TEXAS	214/469/972	2/27/20	945	Overlay	1/15/21	537
CALIFORNIA	909	6/13/19	840	Overlay	2/23/21	529
FLORIDA	850	11/5/19	448	Overlay	3/20/21	534
ILLINOIS	217	8/16/06	447	Overlay	3/27/21	532
OKLAHOMA	405	1/8/20	572	Overlay	5/24/21	535
PENNSYLVANIA	814	4/30/20	582	Overlay	5/1/21	543
DISTRICT OF COLUMBIA	202	9/16/20	771	Overlay	11/9/21	547
ILLINOIS	708	6/30/1999	464	Overlay	1/21/22	562
FLORIDA	813	3/31/20	656	Overlay	2/22/22	656
GEORGIA	404/470/678/770	10/6/20	943	Overlay	3/15/22	559
VIRGINIA	757	2/5/20	948	Overlay	5/9/22	546
VIRGINIA	540	6/17/20	826	Overlay	6/14/22	545
COLORADO	303/720	5/21/21	983	Overlay	6/17/22	563
MISSOURI	314	8/11/21	557	Overlay	8/12/22	567
PENNSYLVANIA	484/610	12/2/21	835	Overlay	9/22/22	578
NORTH CAROLINA	910	6/25/21	472	Overlay	10/7/22	569
MISSOURI	816	8/11/21	975	Overlay	2/10/23	568
ILLINOIS	309	11/11/21	861	Overlay	2/24/23	577
ARIZONA	480/602/623	11/9/21	N/A	Boundary Elimination Overlay	8/12/23	576
OHIO	513	12/15/21	283	Overlay	*	*

* This implementation meeting will be held in 2022.

9.3.2 NPA RELIEF REGULATORY SUBMISSIONS

Table 9-3 shows the 22 regulatory submissions NANPA made in 2021.

Table 9-3
Regulatory Submissions

DATE	STATE	NPA/S	SUBMISSION TYPE	SUBJECT
4/9	CALIFORNIA	209	Application	NPA Relief – All-Services Distributed Overlay
4/16	CALIFORNIA	707	Application	NPA Relief – All-Services Distributed Overlay
4/22	COLORADO	303/720	Letter	Exhaust Date Change
5/13	COLORADO	303/720	Letter	New Implementation Schedule
5/21	COLORADO	303/720	Letter	Request for Press Release Announcing New Area Code
6/3	ILLINOIS	708	Letter	Notification of Need for Relief

DATE	STATE	NPA/S	SUBMISSION TYPE	SUBJECT
6/8	ARIZONA	480	Application	NPA Relief – Boundary Elimination
6/30	MISSOURI	314 & 816	Letter	Notification of Need for Relief
7/26	ILLINOIS	708	Letter	Notification of Past Overlay Order Implementation
8/13	ILLINOIS	309	Letter	Request to Implement All-Services Distributed Overlay
8/17	PENNSYLVANIA	484/610	Petition	NPA Relief – All-Services Distributed Overlay
8/26	OHIO	513	Petition	NPA Relief – All-Services Distributed Overlay
9/2	NEW YORK	516	Petition	NPA Relief – All-Services Distributed Overlay
10/5	NEW YORK	516	Letter	Change in Exhaust Date
10/7	ARKANSAS	870	Letter	Legal Entity Name Change
10/22	ARIZONA	480	Comments	NANPA comments on Proposed Order
10/22	FLORIDA	561	Petition	NPA Relief – All-Services Distributed Overlay
10/28	ARKANSAS	870	Report	NPA Relief Report and Recommendation
11/3	ARKANSAS	870	Comments	NANPA comments in response to Order #9
11/30	NEW YORK	845	Petition	NPA Relief – All-Services Distributed Overlay
12/2	FLORIDA	305/786	Petition	NPA Relief – All-Services Distributed Overlay
12/29	WISCONSIN	920	Letter	Notification of Past Overlay Order Implementation

9.3.3 PLANNING LETTERS

NANPA published eight Planning Letters (PLs) related to active NPA relief projects, as shown in Table 9-4:

Table 9-4
Planning Letters Published

PLANNING LETTER #	DATE	DESCRIPTION
PL-559	5/10/21	NPA 943 to Overlay NPA 404/470/678/770 (Georgia) supersedes PL-555
PL-562	7/16/21	NPA 464 to Overlay NPA 708 (Illinois)
PL-563	7/29/21	NPA 983 to Overlay NPA 303/720 (Colorado)
PL-565	9/1/21	NPA 472 to Overlay NPA 910 (North Carolina)
PL-567	10/28/21	NPA 557 to Overlay NPA 314 (Missouri)
PL-568	10/28/21	NPA 975 to Overlay NPA 816 (Missouri)
PL-569	11/9/21	NPA 472 to Overlay NPA 910 (North Carolina) supersedes PL-565
PL-576	12/30/21	NPA 480, 602 and 623 Boundary Elimination Overlay (Arizona)

In addition to the PLs listed above, NANPA also published PLs relating to Canada NPAs (9), non-geographics NPAs (3), and the Transition to 10-Digit Dialing for use of the 988 abbreviated code (1).

9.3.4 OTHER NPA RELIEF PLANNING TASKS

NPA Relief Planners also complete the following tasks as part of the relief planning process:

- Facilitated a total of 38 Industry meetings, via a web meeting, compared to 18 Industry meetings facilitated in 2020.
- Attended 77 Industry NPA relief subcommittee meetings, providing status updates as needed.
- Attended and participated in a webcast recording for the California 209 NPA in April and the California 707 NPA in June.
- Attended and participated in a virtual public meeting in November relating to the Florida 561 NPA relief project, and a virtual public meeting in December relating to the Florida 305/786 NPA relief project.
- Attended two virtual public hearings relating to the New York 516 NPA relief project.

NANPA issued 240 NANP Notification System (NNS) notifications relating to NPA relief in 2021, compared to 100 in 2020, 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 51 NNS notifications relating to the transition to 10-digit local dialing for use of the 988 abbreviated code for the National Suicide Prevention Lifeline.

NOTIFICATION CATEGORY	NUMBER OF NOTIFICATIONS
NPA Relief Planning	240
Other Non-Geographic	35
NRUF	9
Planning Letters	18
Code Administration	1
INC Guidelines	4
Jeopardy	22
Other Geographic	0
TOTAL	**329**

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.

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

9.4 2021 NRUF EXHAUST FORECASTS

9.4.1 SEMI-ANNUAL NPA 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 2021 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. Exhaust projections are available at the end of April and October. 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." NANPA issued revised "Delta NRUF" exhaust dates three time in 2021: in February, March, June, and September.

Table 9-5
2021 Delta NRUFs

STATE	NPA	DATE POSTED	NRUF CYCLE	EXHAUST DATE	DELTA EXHAUST DATE
NEW YORK	845	2/2/21	October 2020	1Q2025	2Q2024
MISSOURI	816	3/29/21	October 2020	4Q2025	3Q2024
NEW YORK	516	3/29/21	October 2020	1Q2024	3Q2023
PENNSYLVANIA	484/610	6/17/21	April 2021	2Q2024	2Q2023
OHIO	513	6/17/21	April 2021	2Q2024	2Q2023
FLORIDA	305/786	9/23/21	April 2021	4Q2024	1Q2024
FLORIDA	561	9/23/21	April 2021	3Q2024	3Q2023
MISSOURI	314	9/23/21	April 2021	2Q2023	3Q2022
MISSOURI	816	9/23/21	April 2021	3Q2024	3Q2023
NEW YORK	516	9/23/21	April 2021	3Q2023	2Q2023
WASHINGTON	509	9/23/21	April 2021	3Q2024	1Q2025

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 2021, the number of tracked instances of performance measurements increased 80% from 2020. As shown in Table 9-6, NANPA completed 100% of the 115 tracked events of the performance measurements on schedule.

Table 9-6
2021 Relief Planning Performance Measurements

PERFORMANCE MEASUREMENT	EVENTS	TOTAL COMPLETED ON TIME	% ON-TIME COMPLETION
Initiated NPA relief planning within 36 months of NPA exhaust.	10	10	100%
Distributed initial Industry meeting notice within 8 weeks, 3 weeks, or 2 months of relief meeting date.	10	10	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.	32	32	100%
Held minutes review by date set at the meeting.	6	6	100%
Filed relief–related petitions by date set at the meeting.	11	11	100%
Requested relief NPA assignment within 1 week of regulatory approval.	4	4	100%
Issued press release within 2 weeks after relief NPA code assignment.	0	N/A	N/A
Held implementation meeting within 45 days after relief NPA code assignment.	7	7	100%
Posted planning letter or notice of Industry meeting on website within 3 weeks after implementation meeting.	6	6	100%
Posted planning letter on website within 10 business days after regulatory change.	1	1	100%
Held jeopardy meeting within 30 calendar days after jeopardy declaration.	7	7	100%
Distribute meeting minutes within 15 business days of jeopardy meeting.	9	9	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	**115**	**115**	**100%**

10 SYSTEMS AND PERFORMANCE METRICS

In 2021, NANPA utilized the three existing resource administration systems: NAS, PAS, and RNAS.

Per Section 10.1.1, *System Availability*, in the Technical Requirements Document (TRD)[24], 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 2021, 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)

NAS provides an automated system for 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.

Table 10-1
Summary of Actual 2021 NAS Performance

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
January	744	744	0	N/A
February	672	672	0	N/A
March	744	744	0	N/A
April	720	720	0	N/A
May	744	744	0	N/A
June	720	720	0	N/A
July	744	744	0	N/A

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

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
August	744	744	0	N/A
September	720	720	0	N/A
October	744	744	0	N/A
November	720	720	0	N/A
December	744	744	0	N/A

10.1.1 NAS ACTUAL PERFORMANCE

In 2021, NAS was available for use **100%** of scheduled uptime during the 12-month period, which meets the NAS performance metric of a *minimum* of 99.9% scheduled uptime.

Table 10-1 summarizes actual NAS performance in 2021.

10.1.2 NAS PERFORMANCE METRICS

In 2021, as outlined in Table 10-2, NAS met the required performance metrics set forth in the TRD:

Table 10-2
NAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
NAS Availability	NAS is available	99.9%	**MET THE REQUIREMENT WITH A *SCHEDULED* AVAILABILITY LEVEL OF 100%**
Maintenance	Unscheduled maintenance of NAS is less than nine hours in any 12-month period	100%	**MET THE REQUIREMENT WITH NO INSTANCES OF UNSCHEDULED 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 one maintenance activity in 2021, on May 6, with none of the three hours of approved scheduled downtime used.

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. There were no NAS change orders submitted, approved, or implemented in 2021.

10.2 POOLING ADMINISTRATION SYSTEM (PAS)

PAS provides an automated system for 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 2021, PAS was available for use **99.99%** of scheduled uptime during the 12-month period, which meets the PAS performance metric of a minimum of 99.9% scheduled uptime. PAS had 43 minutes of unscheduled downtime in April.

Table 10-3 summarizes actual PAS performance in 2021.

Table 10-3
Summary of Actual 2021 PAS Performance

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
January	744	744	0	N/A
February	672	672	0	N/A
March	744	744	0	N/A
April	720	719 hours 17 minutes	43 minutes	U
May	744	744	0	N/A
June	720	720	0	N/A
July	744	744	0	N/A
August	744	744	0	N/A
September	720	720	0	N/A

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
October	744	744	0	N/A
November	720	720	0	N/A
December	744	744	0	N/A

10.2.2 PAS PERFORMANCE METRICS

In 2021, as outlined in Table 10-4, PAS met the required performance metrics set forth in the TRD:

Table 10-4
PAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
PAS Availability	PAS is available	99.9%	**MET THE REQUIREMENT WITH A *SCHEDULED* AVAILABILITY LEVEL OF 99.99%**
Maintenance	Unscheduled maintenance of PAS is less than nine hours in any 12-month period	100%	**MET THE REQUIREMENT WITH ONE INSTANCE OF UNSCHEDULED PAS AVAILABILITY FOR 43 MINUTES**
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 one maintenance activity in 2021, on May 6, with none of the three hours of approved scheduled downtime used.

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. There were no PAS change orders submitted, approved, or implemented in 2021.

10.3 ROUTING NUMBER ADMINISTRATION SYSTEM (RNAS) PERFORMANCE

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 2021, RNAS was available for use **100%** of scheduled time for the year and continued meeting the RNAS performance metric of a minimum of 99.9% scheduled uptime.

As outlined in Table 10-5, in 2021 RNAS met the performance metrics set forth in the TRD:

Table 10-5
Summary of Actual 2021 RNAS Performance

MONTH	NUMBER OF POSSIBLE AVAILABLE HOURS	NUMBER OF ACTUAL HOURS AVAILABLE	TOTAL UNAVAILABILITY	SCHEDULED (S) OR UNSCHEDULED (U)
January	744	744	0	N/A
February	672	672	0	N/A
March	744	744	0	N/A
April	720	720	0	N/A
May	744	744	0	N/A
June	720	720	0	N/A
July	744	744	0	N/A
August	744	744	0	N/A
September	720	720	0	N/A
October	744	744	0	N/A
November	720	720	0	N/A
December	744	744	0	N/A

10.3.2 RNAS PERFORMANCE METRICS

In 2021, as outlined in Table 10-6, RNAS met the required performance metrics set forth in the TRD:

Table 10-6
2021 RNAS Performance Metrics

REQUIRED SERVICE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL	ACCOMPLISHMENT
RNAS Availability	RNAS is available	99.9%	**MET THE REQUIREMENT WITH A *SCHEDULED* AVAILABILITY LEVEL OF 100%**
Maintenance	Unscheduled maintenance of RNAS is less than nine 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 one maintenance activity in 2021, on May 6, with none of the three hours of approved scheduled downtime used.

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. There were no RNAS Change Orders submitted or implemented in 2021.

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 2021.

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 AWS cloud environment. NANPA systems were not affected by the December 2021 AWS outages.

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

11 STATUS OF REQUIRED TRANSFERABLE PROPERTY

From January 1, 2021, through September 13, 2021, NANPA maintained the last remaining transferable property, ten printers, in the Concord, CA office.

On September 8, 2021, in accordance NANPA reported to the FCC Property Management Division via Form A-480 that the ten remaining printers were antiquated and no longer in use. The reported transferable property inventory was destroyed per FCC Warehouse instructions with photos and video evidence of the destruction of the property certified by the Business Operations Manager (BOM) as required by the FCC Property Management Division. The photos and video evidence were accepted as proof of inventory destruction by the FCC's Asset and Inventory Manager on September 13, 2021.

NANPA, therefore, maintains no transferable property.

12 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 NAOWG. This section contains information on NANPA's 2021 participation in the Industry and regulatory forums, including the number of issues and contributions that the NANPA submitted, a description of NANPA's interaction with the NAOWG, as well as formal complaints, quarterly *Tips* and Customer Support call information.

12.1 PARTICIPATION IN INDUSTRY AND REGULATORY FORUMS

12.1.1 INDUSTRY FORUMS

As the NANPA, our participation at Industry forums includes:

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

NANPA participated in the following Industry forums in 2021:

- **Common Interest Group on Rating and Routing (CIGRR)** – NANPA participated in 15 meetings and submitted two issues in coordination with iconectiv® TRA. 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) reports monthly. When requested NANPA also researched other data comparison requests sent by iconectiv® TRA. NANPA continued to address issues and concerns in the committee from participants.

- **Industry Numbering Committee (INC)** – NANPA participated in 23 meetings, submitted 21 new issues and 45 new contributions in 2021.

- **Next Generation Interconnection Interoperability Forum (NGIIF)** –NANPA participated in three meetings as a subject matter resource.

- **Number Portability Industry Forum (NPIF) -** NANPA participated in 11 NPIF meetings and conference calls as a subject matter resource.

- **Telecom Management and Operations Committee (TMOC)** – NANPA attended TMOC meetings for issues where they may be needed as a subject matter resource.

12.1.2 REGULATORY FORUMS

NANPA attended the 2021 meetings of the North American Numbering Council (NANC) on February 4, April 15, June 23, and October 13. In addition, NANPA attended and

participated in meetings of the National Association of Regulatory Utility Commissioners (NARUC). NANPA attended the NARUC summer meeting in July and provided a numbering overview at the Commissioner's meeting on October 1. In addition, NANPA attended the Annual NARUC Meeting in November and participated in a panel on numbering topics.

12.2 NANPA INTERACTION WITH THE NAOWG

The NAOWG reviews NANPA's performance throughout the year. The NAOWG's interactions with the NANPA in 2021 consisted primarily of conducting meetings with the NANPA Sr. Director to review each month's performance.

The NAOWG and the NANPA Sr. Director met 11 times to discuss NANPA's monthly performance on January 28, February 25, March 25, April 29, May 20, July 29 (covering May and June activity), August 26, September 23, October 28, November 18, and December 16.

Prior to each meeting, NANPA provided the NAOWG with a summary report of its performance for the previous month's performance which included updates on status 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, three quarterly self-assessments, two NANP resource reports, and mid-year highlights to the NAOWG.

Table 12-1 contains the description of the standing summary report agenda items.

Table 12-1
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
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
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. The NANPA reported a total of 177 customer focus items in 2021.

12.3 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 2021, NANPA received ***no formal complaints***.

12.4 NANPA AND ROUTING NUMBER ADMINISTRATOR QUARTERLY TIPS ("TIPS")

12.4.1 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. *Tip*s are sent via email to the system distribution list during each quarter and provides helpful information regarding the NAS, PAS, and thousands-block pooling process, as well as serving as a useful reference for all NAS and PAS users. Often NANPA will send a "Supplemental" *Tip* during a quarter if a topic surfaces that would benefit customers right away. Archive files for *Tips* from previous years can be found on our website.

Table 12-2 lists all of the 2021 NANPA *Tip* topics:

Table 12-2
2021 NANPA Tips

MONTH	TOPIC
February (PAS)	Helpful Tip for Locating a PAS Request
March (Supplemental PAS)	Appendix A
April (PAS)	Helpful Tip for Locating a PAS Request
July (PAS)	Pooling in a NPA that is in Jeopardy
July (NAS)	New NPA-NXX Assignments
September (NAS)	CO Code Assignment Preference
September (Supplemental PAS)	CO Code Assignment Preference
October (PAS)	Voluntary Code Transfer Process for Establishing an LRN

12.4.2 P-ANI *Tips*

The p-ANI *Tip* is sent via email to the RNAS distribution list 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 12-3 lists all of the p-ANI *Tip* topics that were covered by quarter:

Table 12-3
2021 P-ANI Tips

MONTH	TOPIC
January	**p-ANI Forecast Report**
April	Returning p-ANIs
July	New p-ANI Requests
October	Mass New, Modify, or Return p-ANI Requests

12.5 NANPA CUSTOMER SUPPORT

The NANPA Customer Support Representative (CSR or Help Desk) respond 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, and
- Working with carriers to troubleshoot problems and assist in resolving technical problems.

In May 2021, NANPA combined the NANPA and Pooling Administrator Help Desk support under a single support telephone number and email address. NANPA made the existing NANPA toll-free number, 1-866-623-2282, and support@nanpa.com , the single point of contact for NANPA support services. Any calls made to the Pooling Support 1-866-638-7665 and p-ANI Support 1-888-415-5234 numbers were automatically forwarded to **1-866-623-2282** and any emails sent to nanpa-login@somos.com, poolingsupport@somos.com and panisupport@somos.com were automatically forwarded to support@nanpa.com.

There were 1,541 customer support phone calls in 2021. Table 12-4 shows the numbers of calls handled by the Help Desk.

Table 12-4
2021 Help Desk Calls

MONTH	TOTAL NUMBER OF HELP DESK CALLS
JANUARY	211
FEBRUARY	134
MARCH	154
APRIL	145
MAY	101
JUNE	159
JULY	165
AUGUST	95
SEPTEMBER	89
OCTOBER	114
NOVEMBER	81
DECEMBER	93
TOTAL	**1,541**

13 VOLUME OF REPORTS PRODUCED IN 2021 AGGREGATED BY REGULATORY AGENCY, NANC, NANPA/PA, AND SERVICE PROVIDERS OR OTHER ASSIGNEES

13.1 TOTAL REPORTS

NANPA produced 647 reports in 2021. The total in each section includes standard contract reports as well as non-standard (ad hoc) reports. These totals *do not* include reports that were obtained directly from the NANPA, Pooling or p-ANI Administrators' websites, or from NAS, PAS, or RNAS.

Table 13-1 shows the total number of reports produced during 2021 aggregated by regulatory agency (FCC and STATES), service providers and other. The total number of reports includes:

- **FCC:** Contract Data Requirements List (CDRL), *ad hoc*, and other reports required by the contract.
- **STATES:** reclamation, educational sessions, 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 13-1
Total 2021 Reports

TYPE	TOTAL NUMBER OF REPORTS
FCC	60
STATES	499
SERVICE PROVIDERS	70
OTHER	18
TOTAL	**647**

SECTION 13.2 REPORTS COMPLIANCE

This section describes the reports that are required in the TRD. Some reports are CDRL reports and others are required by the TRD. Table 13-2 shows the report type, contract reference, required interval, dates the reports were submitted, the total number of each required report submitted for the year, and whether the requirement was met. All report requirements were met in 2021.

Table 13-2
2021 Required Reports Compliance

REPORT TYPE	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
STAFFING REPORT	TRD 14.12 per Section 2.5	1st working day of the month	1/4, 2/1, 3/1, 4/1, 5/3, 6/1, 7/1, 8/2, 9/1, 10/1, 11/1, 12/1	12	Y
NANPA MONTHLY REPORT[25]	Sections 11.3, 11.4, 11.5, 11.6, 11.11, 11.12, 13.3	Monthly	1/14, 2/9, 3/10, 4/13, 5/13, 6/11, 7/14, 8/13, 9/15, 10/13, 11/12, 12/13	12	Y
QUARTERLY POOLING MATRICES REPORT	Section 13.3.5	Quarterly	1/14, 4/13, 7/14, 10/13	4	Y
QUARTERLY SELF-ASSESSMENT	Section 13.1.5	Quarterly	4/29, 7/29, 10/28	3	Y
INVENTORY	Per Section 3.21	Quarterly	1/25, 4/23, 7/29, 9/13	4	Y
FORECASTED DEMAND (POOLING)	Section 13.3.5	Semi-Annual	2/7, 8/6	2	Y
RATE AREA INVENTORY POOL STATUS (POOLING AND RNA)	Section 11.5.2 and 13.3.5	Semi-Annual	2/7, 8/6	2	Y
ANNUAL (NANPA AND POOLING)	CDRL 14.2 Per Section 11.1	Annual	3/26	2	Y
AD HOC REPORTS	CDRL 14.1 per Section 11	Within three business days	January (7 reports) February (9 reports) March (3 reports) April (22 reports) May (8 reports) June (7 reports) July (15 reports) August (6 reports) September (23 reports) October (19 reports) November (5 reports) December (9 reports)	133	Y

[25] Includes monthly reporting for NPA Relief Activity, CO Code Activity Report, 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, 5XX and Other Resources details.

REPORT TYPE	SECTION REFERENCE	REQUIRED INTERVAL	DATES SUBMITTED	TOTAL	MET REQUIREMENTS
TOTAL REPORTS				174	

SECTION 13.3 CONTRACT DATA REQUIREMENTS LIST (CDRL) PLANS

The Contract Data Requirements List (CDRL) is a list of authorized data requirements for a specific procurement that forms a part of the contract that are delivered to the FCC. Table 13-3 outlines the list of required CDRL plans that NANPA delivered to the FCC in 2021:

Table 13-3
2021 Delivered CDRL Plans

CDRL PLAN	TRD SECTION/s	DATE SUBMITTED
IMPLEMENTATION	14.6 and 14.14	1/15
SYSTEM TEST AND ACCEPTANCE	14.13	1/15
SECURITY	14.4	1/15
MANAGEMENT REPORTING	14.7	2/1
DISASTER RECOVERY	14.5	2/1
SYSTEM DOCUMENTATION	14.15	3/1
CHANGE MANAGEMENT	14.3	3/1
TRAINING	14.19	3/15
SYSTEM MAINTENANCE	14.16	3/30
QUALITY ASSURANCE	14.10	3/30

14 HISTORICAL TRENDS FROM 2017 THROUGH 2021

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 2017 through 2021.

14.1 GEOGRAPHIC RESOURCES ACTIVITY SINCE 2017

NANPA also tracks assignment data to identify any trends in CO code and Thousands-Block assignment rates. Table 14-1 shows the total quantity of CO codes assigned in 2021 compared with assignments over the last five years and Table 14-4 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. 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. Table 14-2 shows the number of Part 3s that were processed, and Table 14-5 shows the numbers of Part 3As that were processed in 2021.

Table 14-1:
CO Code Assignment Activity from 2017 through 2021 At-A-Glance

YEAR	ANNUAL GROSS CO CODE DEMAND	QUANTITY OF RETURNED CODES	ANNUAL NET CO CODE DEMAND
2017	2,713	211	2,502
2018	2,846	279	2,567
2019	3,433	305	3,128
2020	4,895	238	4,657
2021	6,970	263	6,707

Table 14-2:
CO Code Applications (Part 3s) Processed from 2017 through 2021

MONTH	2017	2018	2019	2020	2021
JANUARY	565	1,168	486	1,636	1,816
FEBRUARY	1,428	486	554	641	2,578
MARCH	1,594	892	529	621	3,541
APRIL	1,148	731	467	440	1,777
MAY	1,162	541	832	740	2,109
JUNE	912	925	572	800	2,075
JULY	847	535	467	1,879	3,340
AUGUST	699	754	674	1,374	9,843
SEPTEMBER	637	693	883	1,709	2,705

MONTH	2017	2018	2019	2020	2021
OCTOBER	630	1,870	1,319	1,171	1,759
NOVEMBER	1,058	397	643	1,798	1,974
DECEMBER	811	575	443	1,870	2,256
TOTAL	**11,491**	**9,567**	**7,869**	**14,679**	**35,773**

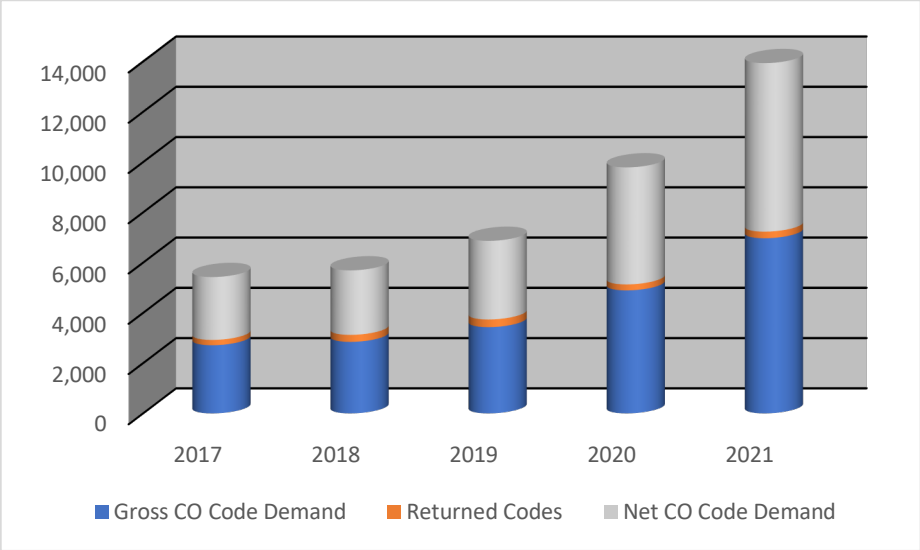

Figure 4: CO Code Assignment Activity from 2017 through 2021

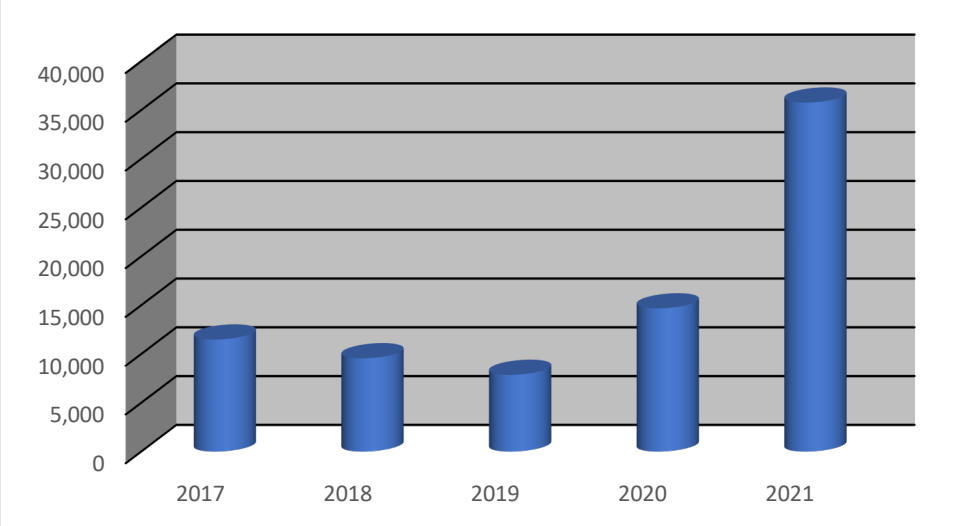

Figure 5: CO Code Applications (Part 3s) Processed From Years 2017 through 2021

Table 14-3
CO Codes Assigned through PAS by Type from 2017 through 2021 At-A-Glance

	2017 STATISTICS	2018 STATISTICS	2019 STATISTICS	2020 STATISTICS	2021 STATISTICS
NXXS OPENED FOR LRNS	436	481	682	691	1,124
NXXS OPENED FOR DEDICATED CUSTOMERS	91	54	47	44	58
NXXS OPENED FOR POOL REPLENISHMENT	2,165	2,262	2,651	4,152	5,767

Table 14-4
Thousands- Block Assignment Activity from 2017 through 2021 At-A-Glance

	2017 STATISTICS	2018 STATISTICS	2019 STATISTICS	2020 STATISTICS	2021 STATISTICS
THOUSANDS-BLOCKS ASSIGNED BY PA DURING YEAR	39,728	36,602	51,969	74,078	102,837
TOTAL ASSIGNED THOUSANDS-BLOCKS IN PAS AT YEAR END	568,959	605,561	647,827	711,109	797,535

Table 14-5
Total Applications Processed (Part 3As) Since 2017

MONTH	2017	2018	2019	2020	2021
JANUARY	11,063	13,652	7,412	13,655	22,519
FEBRUARY	15,301	5,317	7,422	10,687	26,415
MARCH	17,491	9,334	9,102	11,776	28,496
APRIL	12,298	11,348	11,355	11,047	21,861
MAY	12,187	11,214	11,684	9,851	24,058
JUNE	10,004	11,611	8,962	28,554	24,309
JULY	8,547	6,899	8,691	14,720	26,709
AUGUST	7,667	7,979	13,186	33,302	69,923
SEPTEMBER	7,262	8,146	10,930	17,123	29,015
OCTOBER	7,110	15,080	10,660	17,959	19,426
NOVEMBER	10,782	7,790	9,611	20,990	22,388

DECEMBER	14,677	6,949	7,782	20,345	25,695
TOTAL	**134,389**	**115,319**	**116,797**	**210,009**	**340,814**

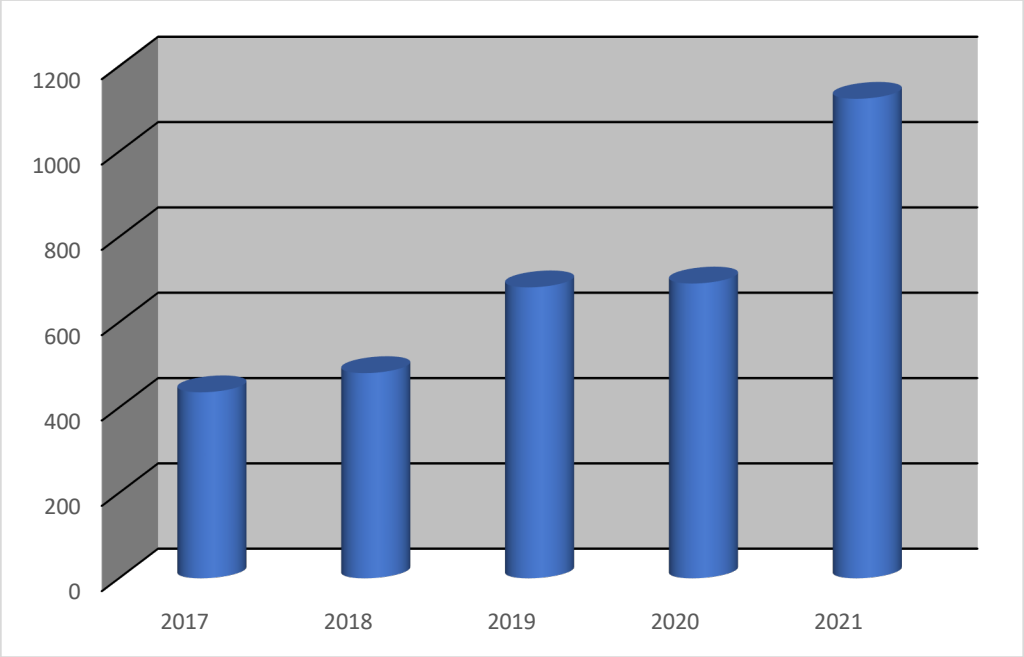

Figure 6: CO Codes Opened for LRNs from 2017 through 2021

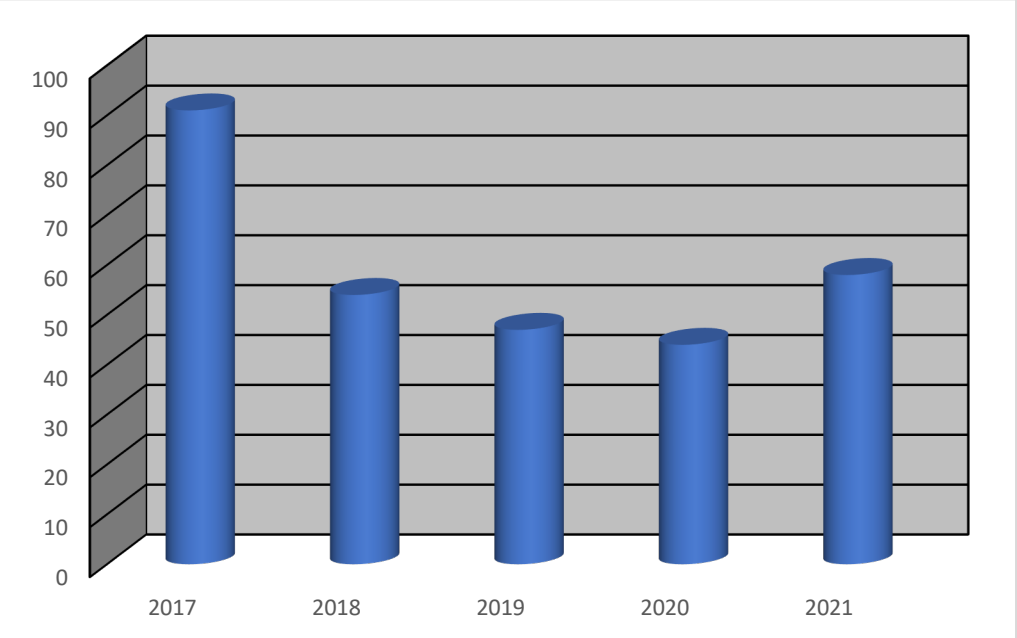

Figure 7: CO Codes Opened for Dedicated Customers from 2017 through 2021

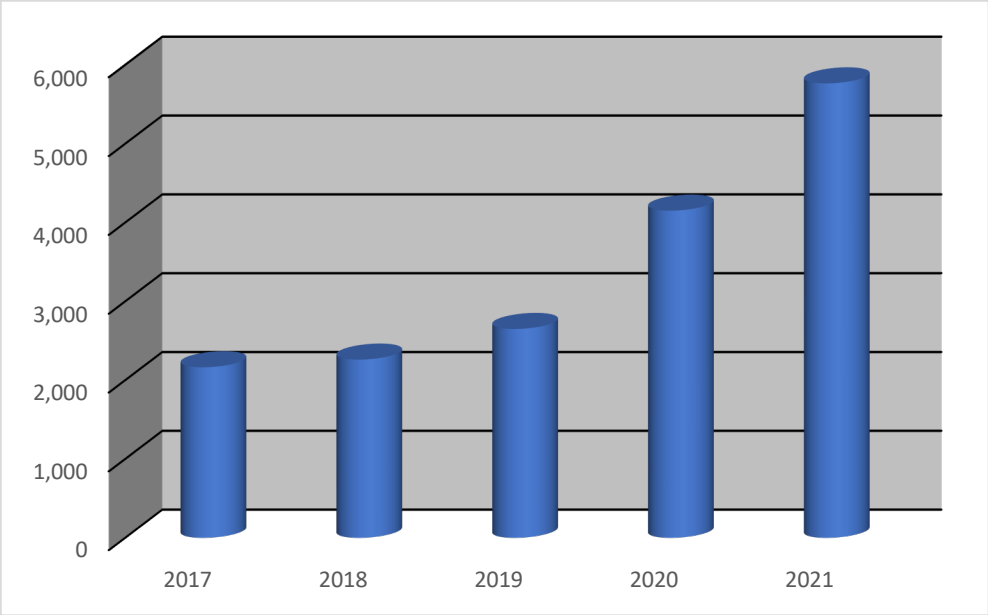

Figure 8: CO Codes Opened for Pool Replenishment from 2017 through 2021

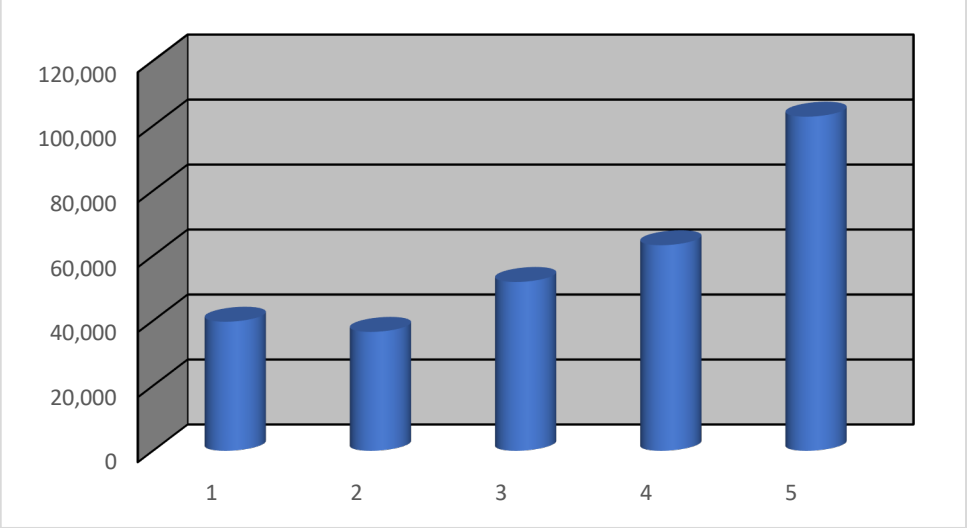

Figure 9: Blocks Assigned During Years 2017 through 2021

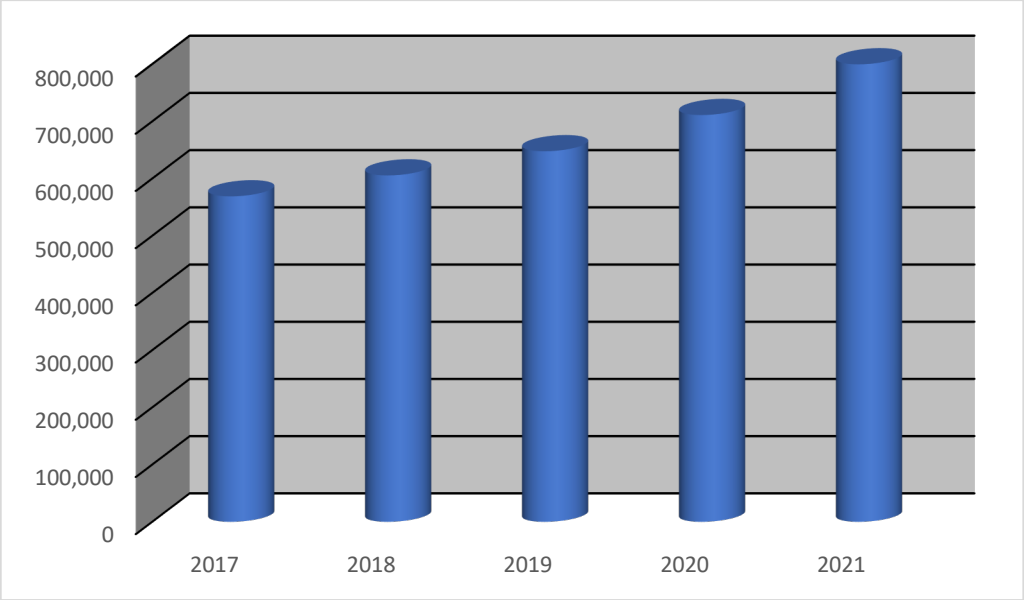

Figure 10: Assigned Blocks at End of Year 2017 through 2021

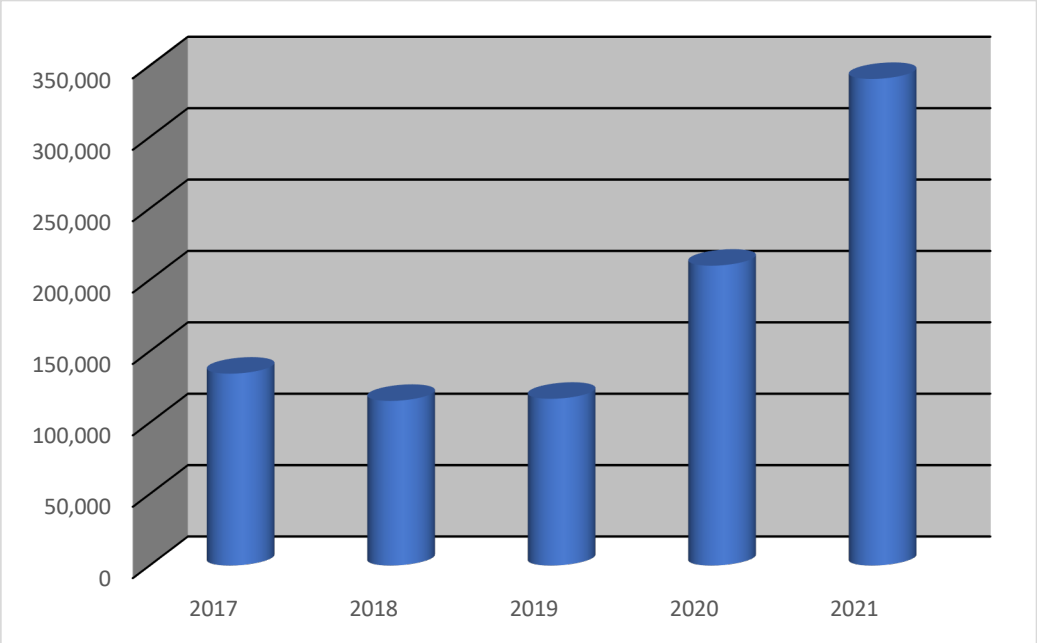

Figure 11: Applications (Part 3As) Processed From Years 2017 through 2021

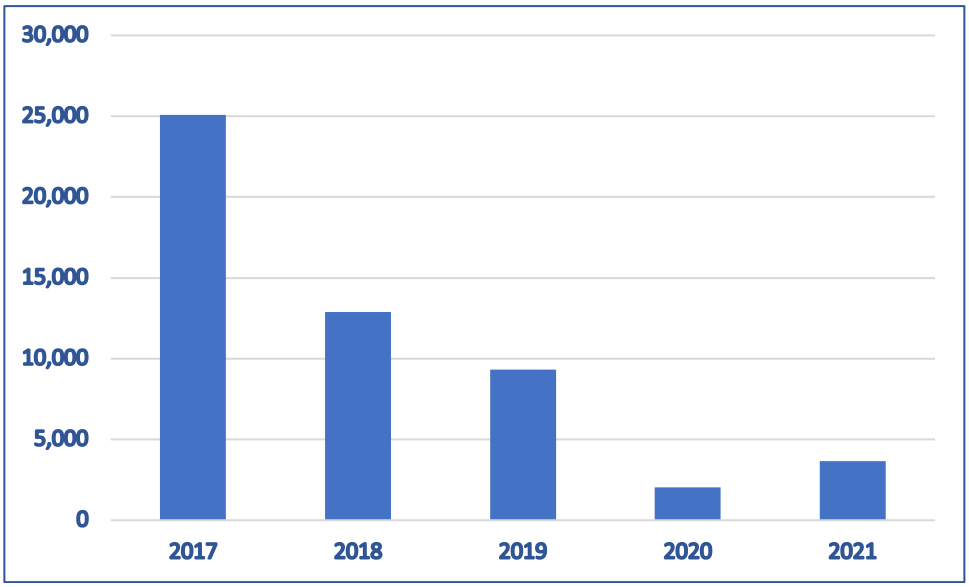

Figure 12: p-ANI Applications Processed From Years 2017 through 2021

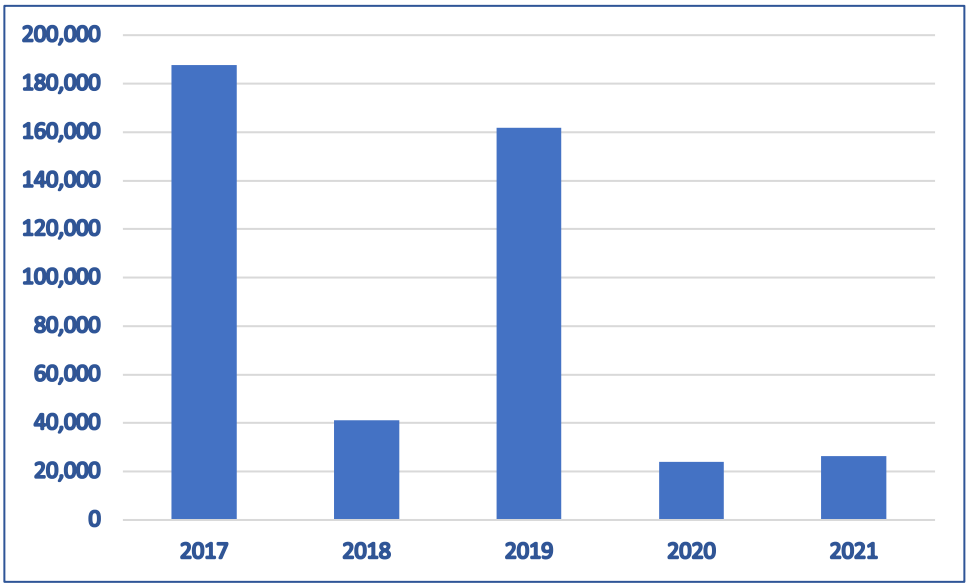

Figure 13: p-ANI Applications Processed From Years 2017 through 2021

14.2 NXXS SAVED BY POOLING

NANPA calculates that ***114,918 NXXs*** have been saved by pooling since pooling began, which is the equivalent to 114 NPAs.

Table 14-6 illustrates by NPA/NPA complex[26] the NXXs that have been saved in all NPA areas, in 50 states and the District of Columbia and Puerto Rico.

Table 14-6
NXXs Saved by Pooling

STATE	NPA	QUANTITY OF NXXS SAVED
NJ	201/551	440
DC	202/771	31
CT	203/475	386
AL	205/659	494
WA	206	74
ME	207	897
ID	208/986	533
CA	209	482
TX	210/726	32
NY	212/332/646/917	45
CA	213/323	270
TX	214/469/945/972	625
PA	215/267/445	599
OH	216	74
IL	217/447	988
MN	218	511
IN	219	408
OH	220/740	1,379
PA	223/717	926
IL	224/847	774
LA	225	260
MS	228	137
GA	229	372
MI	231	739
OH	234/330	883

STATE	NPA	QUANTITY OF NXXS SAVED
FL	239	165
MD	240/301	788
MI	248/947	378
AL	251	215
NC	252	626
WA	253	123
TX	254	526
AL	256/938	612
IN	260	457
WI	262	543
MI	269	653
KY	270/364	640
PA	272/570	1,219
VA	276	465
CA	279/916	227
TX	281/346/713/832	654
DE	302	382
CO	303/720	117
WV	304/681	1,525
FL	305/786	153
WY	307	284
NE	308	278
IL	309	835
CA	310/424	366
IL	312/872	36
MI	313	130

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

STATE	NPA	QUANTITY OF NXXS SAVED
MO	314	113
NY	315/680	1,140
KS	316	154
IN	317/463	416
LA	318	441
IA	319	405
MN	320	489
FL	321	88
FL	321/407/689	284
TX	325	259
OH	326/937	783
IL	331/630	458
AL	334	481
NC	336/743	517
LA	337	350
MA	339/781	638
CA	341/510	262
NY	347/718/917/929	314
NY	347/718/929	48
MA	351/978	870
FL	352	523
WA	360/564	446
TX	361	433
OH	380/614	236
UT	385/801	234
FL	386	330
RI	401	325
NE	402/531	828
GA	404/470/678	37
OK	405/572	533
MT	406	407
CA	408/669	206
TX	409	263
MD	410/443/667	1,219
PA	412/878	364
MA	413	629
WI	414	65
CA	415/628	268
MO	417	811

STATE	NPA	QUANTITY OF NXXS SAVED
OH	419/567	1,140
TN	423	511
WA	425	147
TX	430/903	964
TX	432	232
VA	434	497
UT	435	250
OH	440	567
CA	442/760	932
FL	448/850	375
OR	458/541	964
IL	708	550
GA	470/678/770/943	559
GA	478	196
AR	479	272
AZ	480	23
PA	484/610	1,137
AR	501	415
KY	502	352
OR	503/971	429
LA	504	64
NM	505	186
MN	507	679
MA	508/774	1,306
WA	509	496
TX	512/737	433
OH	513	251
IA	515	389
NY	516	244
MI	517	490
NY	518/838	1,455
AZ	520	168
CA	530	810
WI	534/715	749
OK	539/918	739
VA	540	737
CA	559	478
FL	561	180
CA	562	148

STATE	NPA	QUANTITY OF NXXS SAVED
IA	563	361
VA	571/703	323
MO	573	1,313
IN	574	341
NM	575	344
OK	580	668
PA	582/814	1,074
NY	585	725
MI	586	188
MS	601/769	765
AZ	602	16
NH	603	803
SD	605	286
KY	606	477
NY	607	704
WI	608	676
NJ	609/640	677
MN	612	31
TN	615/629	419
MI	616	455
MA	617/857	370
IL	618	1,122
CA	619/858	288
KS	620	808
AZ	623	14
CA	626	173
NY	631/934	937
MO	636	496
IA	641	646
CA	650	260
MN	651	128
FL	813	190
CA	657/714	262
MO	660	592
CA	661	342
MS	662	1,049
TX	682/817	318
ND	701	227
NV	702/725	103

STATE	NPA	QUANTITY OF NXXS SAVED
NC	704/980	594
GA	706/762	825
CA	707	931
IL	708	8
IA	712	462
NY	716	780
CO	719	323
PA	724/878	1,358
FL	727	104
TN	731	474
NJ	732/848	701
MI	734	511
CA	747/818	299
FL	754/954	130
VA	757	371
MN	763	68
IN	765	889
FL	772	184
IL	773/872	231
NV	775	334
IL	779/815	1,474
KS	785	626
PR	787/939	326
VT	802	663
SC	803/839	493
VA	804	600
CA	805/820	521
TX	806	320
HI	808	83
MI	810	553
IN	812/930	879
MO	816	514
NC	828	525
TX	830	621
CA	831	269
CA	840/909	387
SC	843/854	491
NY	845	1,116
NJ	856	542

STATE	NPA	QUANTITY OF NXXS SAVED
KY	859	311
CT	860/959	640
NJ	862/973	765
FL	863	312
SC	864	503
TN	865	297
AR	870	773
TN	901	128
FL	904	270
MI	906	335
AK	907	46
NJ	908	505
NC	910	588
GA	912	318
KS	913	173
NY	914	473
TX	915	71
NC	919/984	413
WI	920	911
CA	925	305
AZ	928	377
TN	931	532
TX	936	402
TX	940	315
FL	941	229
CA	949	140
CA	951	357
MN	952	34
TX	956	263
CO	970	679
NJ	973	7
TX	979	359
LA	985	399
MI	989	800

14.3 RECLAMATION 2017 THROUGH 2021

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 initiated[27], 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 halted if it is determined that the resources are actually in service. In 2021, NANPA was authorized to initiate reclamation for two CO codes but actually reclaimed none and initiated reclamation for 11 thousands-blocks but actually reclaimed nine.

Table 14-7
CO Code Reclamation from 2017 through 2021 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
2017	159	N/A	N/A	1
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

Table 14-8
Thousands-Block Reclamation from 2017 through 2021 At-A-Glance

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
2017	3,703	1,117	32	12
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

[27] The CO code information was not reported prior to 2021.

The PA has been authorized to reclaim 36 thousands-blocks since 2017. Table 14-9 shows the total number of thousands-blocks reclaimed by state since 2017, ranked from highest to lowest.

Table 14-9
Total Number of Thousands-Blocks Reclaimed by State from 2017 through 2021

STATE	2017	2018	2019	2020	2021	Total
GEORGIA	6	2	2	2		12
WASHINGTON	2	1	3			6
NEW YORK					6	6
IOWA				3		3
FLORIDA					2	2
ALABAMA	1					1
COLORADO	1					1
MISSISSIPPI	1					1
OREGON	1					1
DISTRICT OF COLUMBIA			1			1
VIRGINIA			1			1
MICHIGAN					1	1
TOTAL	**12**	**3**	**7**	**5**	**9**	**36**

14.4 SUMMARY OF POOLED AREAS SINCE 2017

Table 14-10 below depicts the trends in rate center thousand-block pooling statuses between 2017 through 2021.

Table 14-10
Pooling Rate Center Facts Comparison by Year from 2017 through 2021

	2017	2018	2019	2020	2021
TOTAL NUMBER OF DISTINCT RATE CENTERS	18,490	18,485	18,485	18,484	18,484
TOTAL NUMBER OF DISTINCT RATE CENTERS AVAILABLE FOR POOLING	16,447	16,592	16,672	16,732	16,790
PERCENTAGE OF DISTINCT RATE CENTERS THAT ARE AVAILABLE FOR POOLING	88.95%	89.8%	90.2%	90.5%	90.8%
TOTAL NUMBER OF MANDATORY DISTINCT RATE CENTERS	8,983	9,006	9,068	9,168	9,293
PERCENTAGE OF DISTINCT RATE CENTERS THAT ARE MANDATORY	48.58%	48.7%	49.1%	49.6%	50.3%
TOTAL NUMBER OF DISTINCT MANDATORY SINGLE-SERVICE PROVIDER RATE CENTERS	969	941	905	805	681

	2017	2018	2019	2020	2021
PERCENTAGE OF DISTINCT RATE CENTERS THAT ARE MANDATORY SINGLE-SERVICE PROVIDER	5.24%	5.0%	4.9%	4.3%	3.6%
TOTAL NUMBER OF DISTINCT OPTIONAL RATE CENTERS	6,495	6,645	6,699	6,759	6,823
PERCENTAGE OF DISTINCT RATE CENTERS THAT ARE OPTIONAL	35.12%	35.9%	36.2%	36.5%	37.0%
TOTAL NUMBER OF DISTINCT RATE CENTERS EXCLUDED FROM POOLING	2,043	1,893	1,813	1,752	1,688
PERCENTAGE OF DISTINCT RATE CENTERS THAT ARE EXCLUDED FROM POOLING	11.04%	10.2%	9.8%	9.4%	9.1%
TOTAL NUMBER OF RATE CENTER DESIGNATIONS CHANGED (SEE SECTION 2.4.2 FOR DETAIL)	283	204	293	212	134

14.5 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 2 in 2017 to 9 in 2021. The totals do not represent all active NPA relief projects.

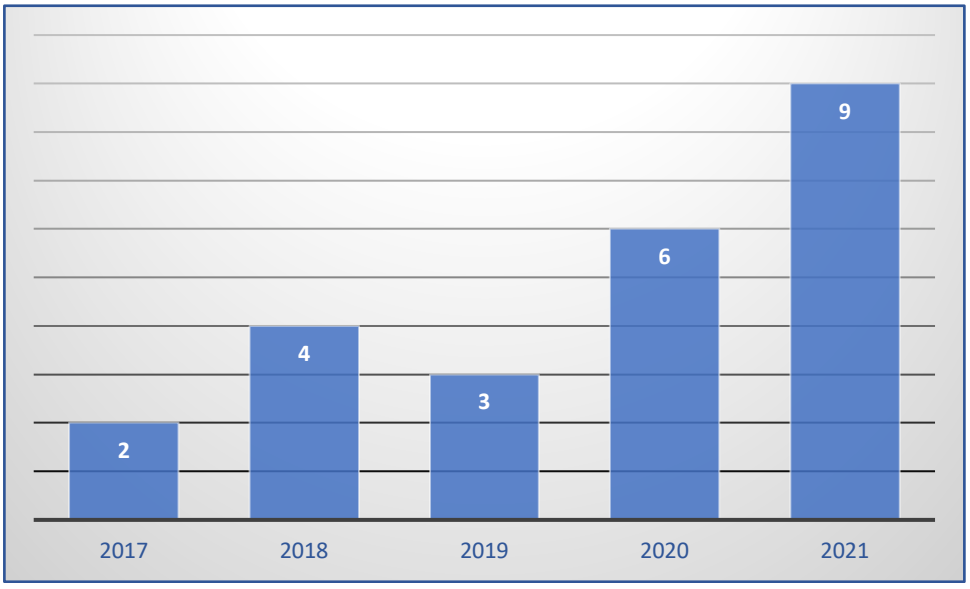

Figure 15: NPA Relief Projects Initiated by Year from 2017 through 2021

14.6 TOTAL ACTIVE NPA RELIEF PROJECTS FROM 2017 THROUGH 2021

The total number of active relief projects depicted below represent NPA relief projects on which NANPA worked from 2017 through 2021. NANPA involvement includes initiating relief, making a regulatory filing, establishing or maintaining jeopardy procedures, and attending Industry committee meetings.

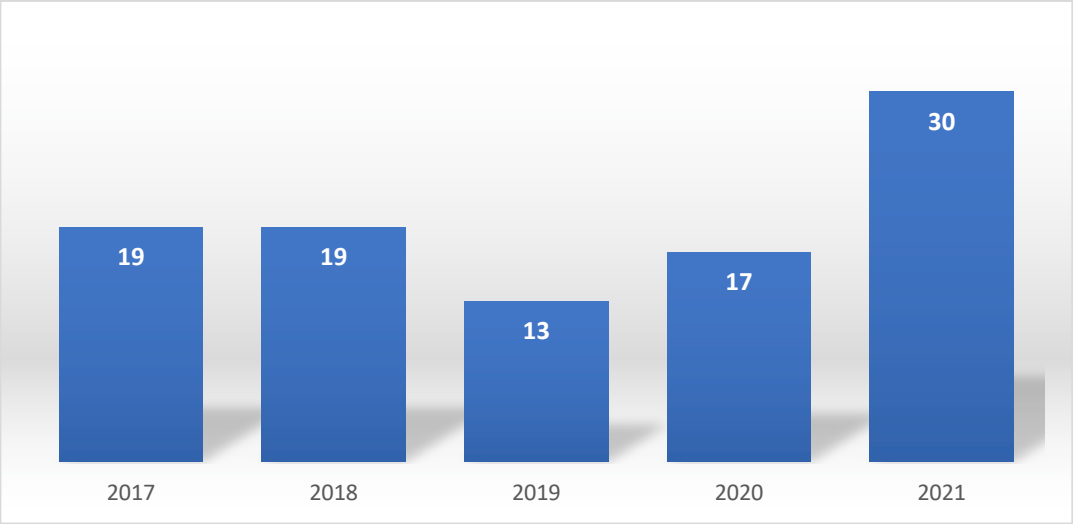

Figure 16: Total Active NPA Relief Projects by Year from 2017 through 2021

14.7 STATE REGULATORY NPA RELIEF SUBMISSIONS FROM 2017 THROUGH 2021

As shown in Figure 1, NANPA made 14 submissions with state regulators in 2021 relating to NPA relief projects as compared to a total of 15 submissions spanning from 2017 through 2020.

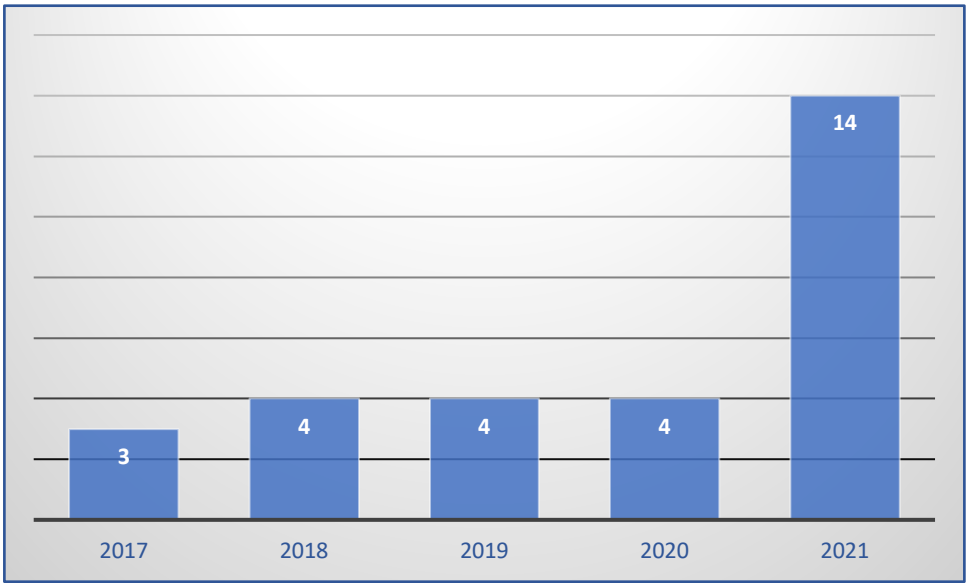

Figure 17: State Regulatory NPA Relief Submissions from 2017 through 2021

14.8 NPAS ASSIGNED FROM 2017 THROUGH 2021

Figure 18 shows the number of new NPAs assigned by NANPA between 2017 and 2020.

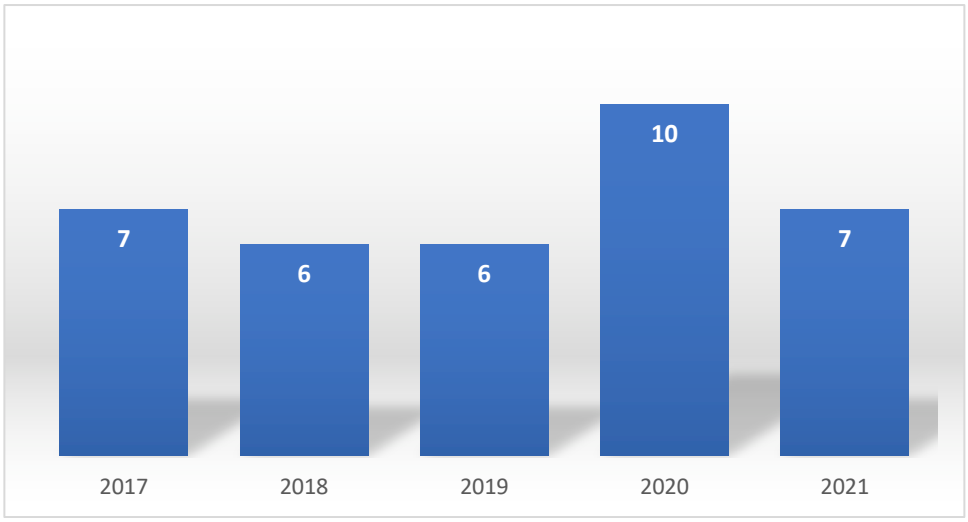

Figure 18: NPAs Assigned from 2017 through 2021

14.9 NPAS INTRODUCED FROM 2017 THROUGH 2021

The following chart illustrates the declining trend of NPAs being introduced between 2017 and 2020, then significantly increased by more than 266% in 2021.

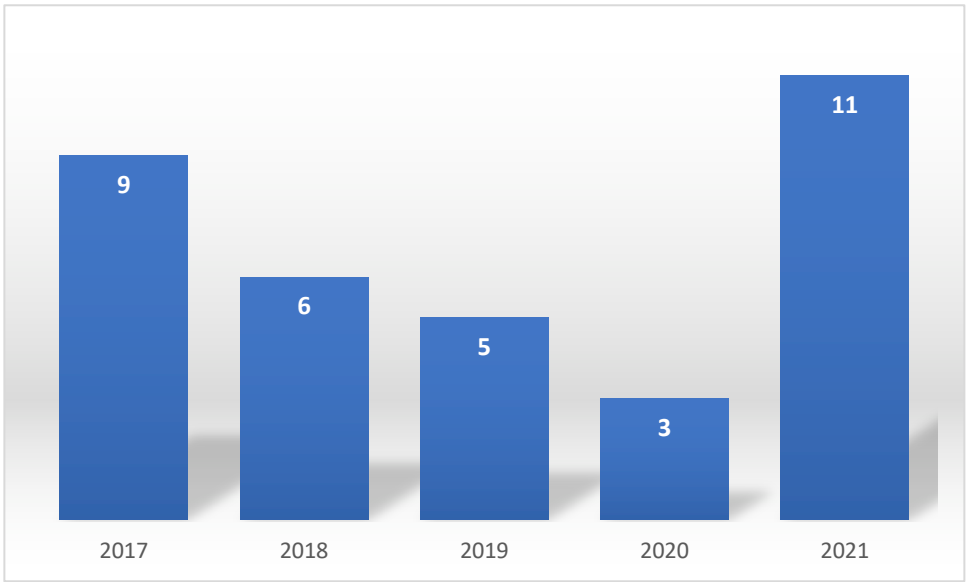

Figure 19: NPA s Introduced from 2017 through 2021

14.10 JEOPARDY DECLARED FROM 2017 THROUGH 2021

The numbers of NPAs declared to be in jeopardy increased by 200% in 2021 from 2017 through 2020.

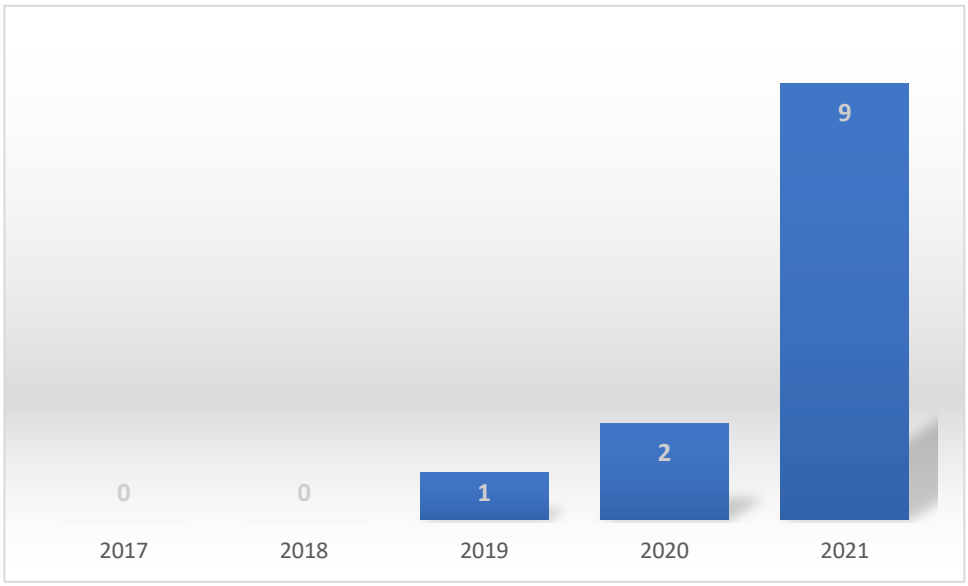

Figure 20: Jeopardy Declared 2017 through 2021

14.11 NPAS IN JEOPARDY FROM 2017 THROUGH 2021

In the past five years, prior to 2021, the highest number of NPAs in a jeopardy condition was four.

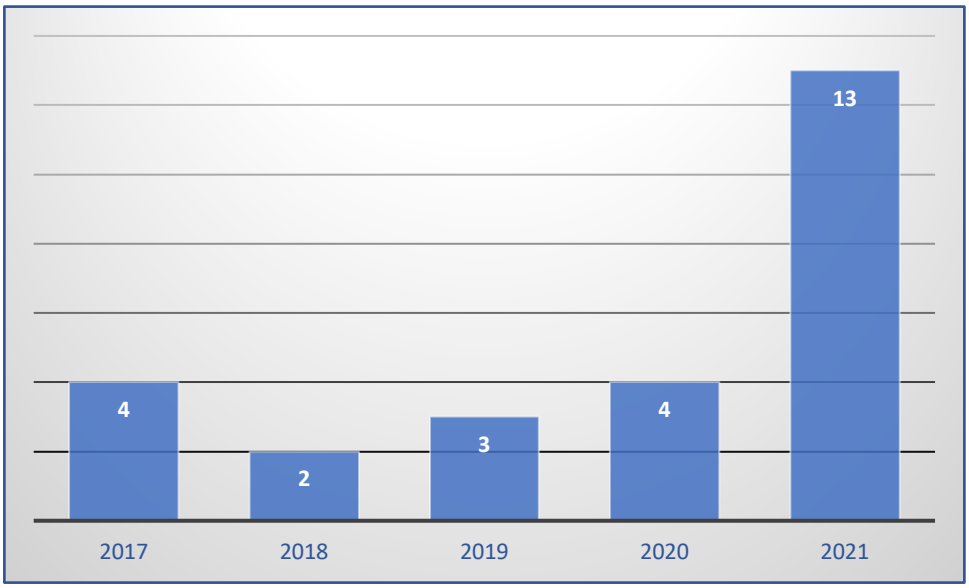

Figure 21: NPAs In Jeopardy from 2017 through 2021

15 ADDITIONAL INFORMATIONAL OFFERINGS

15.1 ADMINISTRATIVE OPERATING COMPANY NUMBER ("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.

15.2 NANPA TESTIMONY IN STATE REGULATORY HEARINGS

NANPA will prepare, file and present oral and written testimony at no charge. Should the state require a NANPA witness(es) to attend the hearing in person 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.

In 2021, NANPA participated in two virtual pre-hearing conferences, for the California 209 NPA and 707 NPA relief proceedings, and two virtual public hearings for the New York 516 NPA.

15.3 NANPA WEBSITES

The NANPA, Thousands-Block Pooling ("Pooling"), and 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, 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 as well as contact information for NANPA staff members 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 on 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 Utilization* 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.
- 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 Pooling website include:
- The *Block Report* that displays a list of blocks that are available, assigned or retained by State, NPA and Rate Center. On the Blocks Available Report blocks in **RED** are pending verification of activation in PSTN. Blocks in **BLACK** are Available Blocks with a future 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 and if applicable the FCC top 100 MSA Name.
- The *Pool Tracking Report* shows the forecast and usage 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 Job Aids, 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 Administration and Area Code Relief Planning. 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 links such as the "NANPA Fast Track" and 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, and the Safety Valve (State Waiver) Process.

- The NRUF Geographic and Non Geographic Job Aids and the NRUF Common Errors and Fixes located under NRUF/Submission Methods and Resources.

- The 988 Transition section of the NANPA website.

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

- For the NANPA website, there were 96 views for five videos. The most popular video was "How to Request an Initial Central Office Code in a Pooling Area" which had 49 views.
- For the pooling website, there were 131 views for 13 videos. The most popular was "New To Pooling - Quick Start" which had 64 views.
- For the p-ANI website, there were 11 views for five videos with the most popular being "FCC License Search" with six views.

15.4 SUPPORT FOR NANP COUNTRIES OTHER THAN THE U.S.

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

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, but there are others. For example, entities in the U.S., Canada, Anguilla, Sint Maarten and Bermuda use CICs. U.S. and Canadian entities offer 900 services and thus share the supply of 9YY-NXX codes. NANPA may interface with other countries' national numbering administrators during the resource request and assignment process. Normally, the national administrator receives the requests, ensures that their country's regulatory requirements are met, and forwards the requests to NANPA. NANPA verifies that Industry requirements are met and assigns the resources if appropriate to do so.

15.5 SUPPORT TO STATE COMMISSIONS

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

In 2021, NANPA continued to provide states with the number utilization data collected via semi-annual NRUF reporting and assisted state regulators in following up with the appropriate service providers with regard to this data. This included providing real-time access to NRUF data via NAS, with various reports and queries available to search and analyze the data, as well as 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 abandoned CO codes, seeking a service provider to take over disconnected CO Codes and blocks, as well as transferring assigned CO codes to avoid opening new CO codes for LRN purposes.

NANPA continued to supply state regulators 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 their respective area codes. These reports include the tracking numbers, the Parent Company Name and Parent Company Operating Company Number associated with the application and the application type (e.g., LRN request, pool replenishment, dedicated customer).

NANPA interfaced with state regulators to address specific issues or concerns associated with individual service provider requests for resources. For example, as a specific NPA exhaust approached, NANPA ensured that the state regulators were kept informed of the latest exhaust projections and provided updated information concerning NPA relief alternatives, to include refreshing the projected lives of proposed relief alternatives. NANPA representatives and state commissions regularly discuss specific activity and issues associated with active, pending or planned NPA relief projects.

NANPA continued to facilitate quarterly meetings with the state commission staff, providing updates on resources administration activity, NPA Relief Planning, NRUF, iVoIP provider authorizations and 30-day notification processes, relevant INC issues, federal robocall prevention activities, and the transition to 10-digit dialing for the three-digit abbreviated 988 code to reach the National Suicide Prevention 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 also supports state regulators 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, iVoIP processes, and reclamation.

NANPA conducted 13 virtual educational meetings about the numbering processes for state regulatory staff. The goal in conducting numbering overview sessions for regulators is to make it easier for them to respond to numbering issues in their states. During the educational sessions, NANPA reviews various numbering procedures such as applications processing, reclamation, forecasting, and iVoIP requirements and activity, NPA relief processes, the 988 transition, as well as information about reports available through the websites.

ATTACHMENT 1
NPAs In Service – By Location

LOCATION	NPA
ALASKA	907
ALABAMA	205
ALABAMA	251
ALABAMA	256
ALABAMA	334
ALABAMA	659
ALABAMA	938
ALBERTA	403
ALBERTA	587
ALBERTA	780
ALBERTA	825
AMERICAN SAMOA	684
ANGUILLA	264
ANTIGUA/BARBUDA	268
ARIZONA	480
ARIZONA	520
ARIZONA	602
ARIZONA	623
ARIZONA	928
ARKANSAS	479
ARKANSAS	501
ARKANSAS	870
BAHAMAS	242
BARBADOS	246
BERMUDA	441
BRITISH COLUMBIA	236
BRITISH COLUMBIA	250
BRITISH COLUMBIA	604
BRITISH COLUMBIA	672
BRITISH COLUMBIA	778
BRITISH VIRGIN ISLANDS	284
CALIFORNIA	209
CALIFORNIA	213
CALIFORNIA	279
CALIFORNIA	310
CALIFORNIA	323
CALIFORNIA	341

CALIFORNIA	408
CALIFORNIA	415
CALIFORNIA	424
CALIFORNIA	442
CALIFORNIA	510
CALIFORNIA	530
CALIFORNIA	559
CALIFORNIA	562
CALIFORNIA	619
CALIFORNIA	626
CALIFORNIA	628
CALIFORNIA	650
CALIFORNIA	657
CALIFORNIA	661
CALIFORNIA	669
CALIFORNIA	707
CALIFORNIA	714
CALIFORNIA	747
CALIFORNIA	760
CALIFORNIA	805
CALIFORNIA	818
CALIFORNIA	820
CALIFORNIA	831
CALIFORNIA	840
CALIFORNIA	858
CALIFORNIA	909
CALIFORNIA	916
CALIFORNIA	925
CALIFORNIA	949
CALIFORNIA	951
CAYMAN ISLANDS	345
COLORADO	303
COLORADO	719
COLORADO	720
COLORADO	970
COMMONWEALTH OF NORTHERN MARIANA ISLANDS (CNMI)	670
CONNECTICUT	203
CONNECTICUT	475
CONNECTICUT	860
CONNECTICUT	959
DELAWARE	302

DISTRICT OF COLUMBIA	202
DISTRICT OF COLUMBIA	771
DOMINICA	767
DOMINICAN REPUBLIC	809
DOMINICAN REPUBLIC	829
DOMINICAN REPUBLIC	849
FLORIDA	239
FLORIDA	305
FLORIDA	321
FLORIDA	352
FLORIDA	386
FLORIDA	407
FLORIDA	448
FLORIDA	561
FLORIDA	689
FLORIDA	727
FLORIDA	754
FLORIDA	772
FLORIDA	786
FLORIDA	813
FLORIDA	850
FLORIDA	863
FLORIDA	904
FLORIDA	941
FLORIDA	954
GEORGIA	229
GEORGIA	404
GEORGIA	470
GEORGIA	478
GEORGIA	678
GEORGIA	706
GEORGIA	762
GEORGIA	770
GEORGIA	912
GRENADA	473
GUAM	671
HAWAII	808
IDAHO	208
IDAHO	986
ILLINOIS	217
ILLINOIS	224

ILLINOIS	309
ILLINOIS	312
ILLINOIS	331
ILLINOIS	447
ILLINOIS	618
ILLINOIS	630
ILLINOIS	708
ILLINOIS	773
ILLINOIS	779
ILLINOIS	815
ILLINOIS	847
ILLINOIS	872
INDIANA	219
INDIANA	260
INDIANA	317
INDIANA	463
INDIANA	574
INDIANA	765
INDIANA	812
INDIANA	930
IOWA	319
IOWA	515
IOWA	563
IOWA	641
IOWA	712
JAMAICA	658
JAMAICA	876
KANSAS	316
KANSAS	620
KANSAS	785
KANSAS	913
KENTUCKY	270
KENTUCKY	364
KENTUCKY	502
KENTUCKY	606
KENTUCKY	859
LOUISIANA	225
LOUISIANA	318
LOUISIANA	337
LOUISIANA	504
LOUISIANA	985

MAINE	207
MANITOBA	204
MANITOBA	431
MARYLAND	240
MARYLAND	301
MARYLAND	410
MARYLAND	443
MARYLAND	667
MASSACHUSETTS	339
MASSACHUSETTS	351
MASSACHUSETTS	413
MASSACHUSETTS	508
MASSACHUSETTS	617
MASSACHUSETTS	774
MASSACHUSETTS	781
MASSACHUSETTS	857
MASSACHUSETTS	978
MICHIGAN	231
MICHIGAN	248
MICHIGAN	269
MICHIGAN	313
MICHIGAN	517
MICHIGAN	586
MICHIGAN	616
MICHIGAN	734
MICHIGAN	810
MICHIGAN	906
MICHIGAN	947
MICHIGAN	989
MINNESOTA	218
MINNESOTA	320
MINNESOTA	507
MINNESOTA	612
MINNESOTA	651
MINNESOTA	763
MINNESOTA	952
MISSISSIPPI	228
MISSISSIPPI	601
MISSISSIPPI	662
MISSISSIPPI	769
MISSOURI	314

MISSOURI	417
MISSOURI	573
MISSOURI	636
MISSOURI	660
MISSOURI	816
MONTANA	406
MONTSERRAT	664
NEBRASKA	308
NEBRASKA	402
NEBRASKA	531
NEVADA	702
NEVADA	725
NEVADA	775
NEW BRUNSWICK	506
NEWFOUNDLAND AND LABRADOR	709
NEW HAMPSHIRE	603
NEW JERSEY	201
NEW JERSEY	551
NEW JERSEY	609
NEW JERSEY	640
NEW JERSEY	732
NEW JERSEY	848
NEW JERSEY	856
NEW JERSEY	862
NEW JERSEY	908
NEW JERSEY	973
NEW MEXICO	505
NEW MEXICO	575
NEW YORK	212
NEW YORK	315
NEW YORK	332
NEW YORK	347
NEW YORK	516
NEW YORK	518
NEW YORK	585
NEW YORK	607
NEW YORK	631
NEW YORK	646
NEW YORK	680
NEW YORK	716
NEW YORK	718

NEW YORK	838
NEW YORK	845
NEW YORK	914
NEW YORK	917
NEW YORK	929
NEW YORK	934
NORTH CAROLINA	252
NORTH CAROLINA	336
NORTH CAROLINA	704
NORTH CAROLINA	743
NORTH CAROLINA	828
NORTH CAROLINA	910
NORTH CAROLINA	919
NORTH CAROLINA	980
NORTH CAROLINA	984
NORTH DAKOTA	701
NOVA SCOTIA - PRINCE EDWARD ISLAND	782
NOVA SCOTIA - PRINCE EDWARD ISLAND	902
OHIO	216
OHIO	220
OHIO	234
OHIO	326
OHIO	330
OHIO	380
OHIO	419
OHIO	440
OHIO	513
OHIO	567
OHIO	614
OHIO	740
OHIO	937
OKLAHOMA	405
OKLAHOMA	539
OKLAHOMA	572
OKLAHOMA	580
OKLAHOMA	918
ONTARIO	226
ONTARIO	249
ONTARIO	289
ONTARIO	343

ONTARIO	365
ONTARIO	416
ONTARIO	437
ONTARIO	519
ONTARIO	548
ONTARIO	613
ONTARIO	647
ONTARIO	705
ONTARIO	742
ONTARIO	807
ONTARIO	905
OREGON	458
OREGON	503
OREGON	541
OREGON	971
PENNSYLVANIA	215
PENNSYLVANIA	223
PENNSYLVANIA	267
PENNSYLVANIA	272
PENNSYLVANIA	412
PENNSYLVANIA	445
PENNSYLVANIA	484
PENNSYLVANIA	570
PENNSYLVANIA	582
PENNSYLVANIA	610
PENNSYLVANIA	717
PENNSYLVANIA	724
PENNSYLVANIA	814
PENNSYLVANIA	878
PUERTO RICO	787
PUERTO RICO	939
QUEBEC	367
QUEBEC	418
QUEBEC	438
QUEBEC	450
QUEBEC	514
QUEBEC	579
QUEBEC	581
QUEBEC	819
QUEBEC	873
RHODE ISLAND	401

SASKATCHEWAN	306
SASKATCHEWAN	474
SASKATCHEWAN	639
SINT MAARTEN	721
SOUTH CAROLINA	803
SOUTH CAROLINA	839
SOUTH CAROLINA	843
SOUTH CAROLINA	854
SOUTH CAROLINA	864
SOUTH DAKOTA	605
ST. KITTS & NEVIS	869
ST. LUCIA	758
ST. VINCENT & GRENADINES	784
TENNESSEE	423
TENNESSEE	615
TENNESSEE	629
TENNESSEE	731
TENNESSEE	865
TENNESSEE	901
TENNESSEE	931
TEXAS	210
TEXAS	214
TEXAS	254
TEXAS	281
TEXAS	325
TEXAS	346
TEXAS	361
TEXAS	409
TEXAS	430
TEXAS	432
TEXAS	469
TEXAS	512
TEXAS	682
TEXAS	713
TEXAS	726
TEXAS	737
TEXAS	806
TEXAS	817
TEXAS	830
TEXAS	832
TEXAS	903

TEXAS	915
TEXAS	936
TEXAS	940
TEXAS	945
TEXAS	956
TEXAS	972
TEXAS	979
TRINIDAD & TOBAGO	868
TURKS & CAICOS ISLANDS	649
US VIRGIN ISLANDS	340
UTAH	385
UTAH	435
UTAH	801
VERMONT	802
VIRGINIA	276
VIRGINIA	434
VIRGINIA	540
VIRGINIA	571
VIRGINIA	703
VIRGINIA	757
VIRGINIA	804
WASHINGTON	206
WASHINGTON	253
WASHINGTON	360
WASHINGTON	425
WASHINGTON	509
WASHINGTON	564
WEST VIRGINIA	304
WEST VIRGINIA	681
WISCONSIN	262
WISCONSIN	414
WISCONSIN	534
WISCONSIN	608
WISCONSIN	715
WISCONSIN	920
WYOMING	307
YUKON-NW TERR. - NUNAVUT	867

ATTACHMENT 2
NPAS IN SERVICE - SORTED BY NPA

NPA	LOCATION
201	NEW JERSEY
202	DISTRICT OF COLUMBIA
203	CONNECTICUT
204	MANITOBA
205	ALABAMA
206	WASHINGTON
207	MAINE
208	IDAHO
209	CALIFORNIA
210	TEXAS
212	NEW YORK
213	CALIFORNIA
214	TEXAS
215	PENNSYLVANIA
216	OHIO
217	ILLINOIS
218	MINNESOTA
219	INDIANA
220	OHIO
223	PENNSYLVANIA
224	ILLINOIS
225	LOUISIANA
226	ONTARIO
228	MISSISSIPPI
229	GEORGIA
231	MICHIGAN
234	OHIO
236	BRITISH COLUMBIA
239	FLORIDA
240	MARYLAND
242	BAHAMAS
246	BARBADOS
248	MICHIGAN
249	ONTARIO
250	BRITISH COLUMBIA
251	ALABAMA

NPA	LOCATION
252	NORTH CAROLINA
253	WASHINGTON
254	TEXAS
256	ALABAMA
260	INDIANA
262	WISCONSIN
264	ANGUILLA
267	PENNSYLVANIA
268	ANTIGUA/BARBUDA
269	MICHIGAN
270	KENTUCKY
272	PENNSYLVANIA
276	VIRGINIA
279	CALIFORNIA
281	TEXAS
284	BRITISH VIRGIN ISLANDS
289	ONTARIO
301	MARYLAND
302	DELAWARE
303	COLORADO
304	WEST VIRGINIA
305	FLORIDA
306	SASKATCHEWAN
307	WYOMING
308	NEBRASKA
309	ILLINOIS
310	CALIFORNIA
312	ILLINOIS
313	MICHIGAN
314	MISSOURI
315	NEW YORK
316	KANSAS
317	INDIANA
318	LOUISIANA
319	IOWA
320	MINNESOTA
321	FLORIDA
323	CALIFORNIA

NPA	LOCATION
325	TEXAS
326	OHIO
330	OHIO
331	ILLINOIS
332	NEW YORK
334	ALABAMA
336	NORTH CAROLINA
337	LOUISIANA
339	MASSACHUSETTS
340	US VIRGIN ISLANDS
341	CALIFORNIA
343	ONTARIO
345	CAYMAN ISLANDS
346	TEXAS
347	NEW YORK
351	MASSACHUSETTS
352	FLORIDA
360	WASHINGTON
361	TEXAS
364	KENTUCKY
365	ONTARIO
367	QUEBEC
380	OHIO
385	UTAH
386	FLORIDA
401	RHODE ISLAND
402	NEBRASKA
403	ALBERTA
404	GEORGIA
405	OKLAHOMA
406	MONTANA
407	FLORIDA
408	CALIFORNIA
409	TEXAS
410	MARYLAND
412	PENNSYLVANIA
413	MASSACHUSETTS
414	WISCONSIN

NPA	LOCATION
415	CALIFORNIA
416	ONTARIO
417	MISSOURI
418	QUEBEC
419	OHIO
423	TENNESSEE
424	CALIFORNIA
425	WASHINGTON
430	TEXAS
431	MANITOBA
432	TEXAS
434	VIRGINIA
435	UTAH
437	ONTARIO
438	QUEBEC
440	OHIO
441	BERMUDA
442	CALIFORNIA
443	MARYLAND
445	PENNSYLVANIA
447	ILLINOIS
448	FLORIDA
450	QUEBEC
458	OREGON
463	INDIANA
469	TEXAS
470	GEORGIA
473	GRENADA
474	SASKATCHEWAN
475	CONNECTICUT
478	GEORGIA
479	ARKANSAS
480	ARIZONA
484	PENNSYLVANIA
501	ARKANSAS
502	KENTUCKY
503	OREGON
504	LOUISIANA

NPA	LOCATION
505	NEW MEXICO
506	NEW BRUNSWICK
507	MINNESOTA
508	MASSACHUSETTS
509	WASHINGTON
510	CALIFORNIA
512	TEXAS
513	OHIO
514	QUEBEC
515	IOWA
516	NEW YORK
517	MICHIGAN
518	NEW YORK
519	ONTARIO
520	ARIZONA
530	CALIFORNIA
531	NEBRASKA
534	WISCONSIN
539	OKLAHOMA
540	VIRGINIA
541	OREGON
548	ONTARIO
551	NEW JERSEY
559	CALIFORNIA
561	FLORIDA
562	CALIFORNIA
563	IOWA
564	WASHINGTON
567	OHIO
570	PENNSYLVANIA
571	VIRGINIA
572	OKLAHOMA
573	MISSOURI
574	INDIANA
575	NEW MEXICO
579	QUEBEC
580	OKLAHOMA
581	QUEBEC

NPA	LOCATION
582	PENNSYLVANIA
585	NEW YORK
586	MICHIGAN
587	ALBERTA
601	MISSISSIPPI
602	ARIZONA
603	NEW HAMPSHIRE
604	BRITISH COLUMBIA
605	SOUTH DAKOTA
606	KENTUCKY
607	NEW YORK
608	WISCONSIN
609	NEW JERSEY
610	PENNSYLVANIA
612	MINNESOTA
613	ONTARIO
614	OHIO
615	TENNESSEE
616	MICHIGAN
617	MASSACHUSETTS
618	ILLINOIS
619	CALIFORNIA
620	KANSAS
623	ARIZONA
626	CALIFORNIA
628	CALIFORNIA
629	TENNESSEE
630	ILLINOIS
631	NEW YORK
636	MISSOURI
639	SASKATCHEWAN
640	NEW JERSEY
641	IOWA
646	NEW YORK
647	ONTARIO
649	TURKS & CAICOS ISLANDS
650	CALIFORNIA
651	MINNESOTA

NPA	LOCATION
657	CALIFORNIA
658	JAMAICA
659	ALABAMA
660	MISSOURI
661	CALIFORNIA
662	MISSISSIPPI
664	MONTSERRAT
667	MARYLAND
669	CALIFORNIA
670	COMMONWEALTH OF NORTH MARIANA ISLANDS
671	GUAM
672	BRITISH COLUMBIA
678	GEORGIA
680	NEW YORK
681	WEST VIRGINIA
682	TEXAS
684	AMERICAN SAMOA
689	FLORIDA
701	NORTH DAKOTA
702	NEVADA
703	VIRGINIA
704	NORTH CAROLINA
705	ONTARIO
706	GEORGIA
707	CALIFORNIA
708	ILLINOIS
709	NEWFOUNDLAND AND LABRADOR
712	IOWA
713	TEXAS
714	CALIFORNIA
715	WISCONSIN
716	NEW YORK
717	PENNSYLVANIA
718	NEW YORK
719	COLORADO
720	COLORADO
721	SINT MAARTEN
724	PENNSYLVANIA

NPA	LOCATION
725	NEVADA
726	TEXAS
727	FLORIDA
731	TENNESSEE
732	NEW JERSEY
734	MICHIGAN
737	TEXAS
740	OHIO
742	ONTARIO
743	NORTH CAROLINA
747	CALIFORNIA
754	FLORIDA
757	VIRGINIA
758	ST. LUCIA
760	CALIFORNIA
762	GEORGIA
763	MINNESOTA
765	INDIANA
767	DOMINICA
769	MISSISSIPPI
770	GEORGIA
771	DISTRICT OF COLUMBIA
772	FLORIDA
773	ILLINOIS
774	MASSACHUSETTS
775	NEVADA
778	BRITISH COLUMBIA
779	ILLINOIS
780	ALBERTA
781	MASSACHUSETTS
782	NOVA SCOTIA - PRINCE EDWARD ISLAND
784	ST. VINCENT & GRENADINES
785	KANSAS
786	FLORIDA
787	PUERTO RICO
801	UTAH
802	VERMONT
803	SOUTH CAROLINA

NPA	LOCATION
804	VIRGINIA
805	CALIFORNIA
806	TEXAS
807	ONTARIO
808	HAWAII
809	DOMINICAN REPUBLIC
810	MICHIGAN
812	INDIANA
813	FLORIDA
814	PENNSYLVANIA
815	ILLINOIS
816	MISSOURI
817	TEXAS
818	CALIFORNIA
819	QUEBEC
820	CALIFORNIA
825	ALBERTA
828	NORTH CAROLINA
829	DOMINICAN REPUBLIC
830	TEXAS
831	CALIFORNIA
832	TEXAS
838	NEW YORK
839	SOUTH CAROLINA
840	CALIFORNIA
843	SOUTH CAROLINA
845	NEW YORK
847	ILLINOIS
848	NEW JERSEY
849	DOMINICAN REPUBLIC
850	FLORIDA
854	SOUTH CAROLINA
856	NEW JERSEY
857	MASSACHUSETTS
858	CALIFORNIA
859	KENTUCKY
860	CONNECTICUT
862	NEW JERSEY

NPA	LOCATION
863	FLORIDA
864	SOUTH CAROLINA
865	TENNESSEE
867	YUKON-NW TERR. - NUNAVUT
868	TRINIDAD & TOBAGO
869	ST. KITTS & NEVIS
870	ARKANSAS
872	ILLINOIS
873	QUEBEC
876	JAMAICA
878	P\ENNSYLVANIA
901	TENNESSEE
902	NOVA SCOTIA - PRINCE EDWARD ISLAND
903	TEXAS
904	FLORIDA
905	ONTARIO
906	MICHIGAN
907	ALASKA
908	NEW JERSEY
909	CALIFORNIA
910	NORTH CAROLINA
912	GEORGIA
913	KANSAS
914	NEW YORK
915	TEXAS
916	CALIFORNIA
917	NEW YORK
918	OKLAHOMA
919	NORTH CAROLINA
920	WISCONSIN
925	CALIFORNIA
928	ARIZONA
929	NEW YORK
930	INDIANA
931	TENNESSEE
934	NEW YORK
936	TEXAS
937	OHIO

NPA	LOCATION
938	ALABAMA
939	PUERTO RICO
940	TEXAS
941	FLORIDA
945	TEXAS
947	MICHIGAN
949	CALIFORNIA
951	CALIFORNIA
952	MINNESOTA
954	FLORIDA
956	TEXAS
959	CONNECTICUT
970	COLORADO
971	OREGON
972	TEXAS
973	NEW JERSEY
978	MASSACHUSETTS
979	TXEXAS
980	NORTH CAROLINA
984	NORTH CAROLINA
985	LOUISIANA
986	IDAHO
989	MICHIGAN

ATTACHMENT 3
NON-GEOGRAPHIC NPAS IN SERVICE

The table below lists the non-geographic NPAs in service as of December 31, 2021, 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
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, 533, 544, 566, 577, and 588 (known as 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 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546, and 558 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

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
ALASKA	907*	10D	1+10D	NA	1+10D
ALABAMA	938	10D	1+10D	10D	1+10D
ALABAMA	334	7D	1+10D	10D	1+10D
ALABAMA	659	10D	1+10D	10D	1+10D
ALABAMA	205	10D	1+10D	10D	1+10D
ALABAMA	251*	10D	1+10D	10D	1+10D
ALABAMA	256	10D	1+10D	10D	1+10D
ALBERTA	825	10D	1+10D	10D	1+10D
ALBERTA	780	10D	1+10D	10D	1+10D
ALBERTA	587	10D	1+10D	10D	1+10D
ALBERTA	403	10D	1+10D	10D	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	520*	10D	1+10D	10D	1+10D
ARIZONA	480*	10D	1+10D	10D	1+10D
ARIZONA	928*	10D	1+10D	10D	1+10D
ARIZONA	602	7D	1+10D	10D	1+10D
ARIZONA	623	7D	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 COLUMBIA	236	10D	1+10D	10D	1+10D
BRITISH COLUMBIA	604	10D	1+10D	10D	1+10D
BRITISH COLUMBIA	250	10D	1+10D	10D	1+10D
BRITISH COLUMBIA	672	10D	1+10D	10D	1+10D
BRITISH COLUMBIA	778	10D	1+10D	10D	1+10D
BRITISH VIRGIN ISLANDS	284	7D	1+10D	NA	1+10D
CALIFORNIA	619	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	626*	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	949*	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	562*	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	559	7D	7D	1+10D	1+10D
CALIFORNIA	510	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	341	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	323	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	310	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	279	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	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	209*	1+10D	1+10D	1+10D	1+10D
CALIFORNIA	213	1+10D	1+10D	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	951*	1+10D	1+10D	1+10D	1+10D
CAYMAN ISLANDS	345	7D	1+10D	NA	1+10D
COMMONWEALTH NORTH MARIANA ISLANDS (CNMI)	670	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

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
CONNECTICUT	475	10D	1+10D	10D	1+10D
CONNECTICUT	959	10D	1+10D	10D	1+10D
CONNECTICUT	203	10D	1+10D	10D	1+10D
CONNECTICUT	860	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	849	10D	1+10D	10D	1+10D
DOMINICAN REPUBLIC	829	10D	1+10D	10D	1+10D
DOMINICAN REPUBLIC	809	10D	1+10D	10D	1+10D
FLORIDA	407	10D	1+10D	10D	1+10D
FLORIDA	561*	10D	1+10D	10D	1+10D
FLORIDA	239	7D	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
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	448	10D	1+10D	10D	1+10D
GEORGIA	404	10D	1+10D	10D	1+10D
GEORGIA	229	7D	1+10D	10D	1+10D
GEORGIA	762	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	912*	10D	1+10D	10D	1+10D
GEORGIA	770	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
GEORGIA	470	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	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
ILLINOIS	708**	1+10D	1+10D	1+10D	1+10D
ILLINOIS	224	1+10D	1+10D	1+10D	1+10D
ILLINOIS	217	10D	1+10D	10D	1+10D
ILLINOIS	464	1+10D	1+10D	1+10D	1+10D
ILLINOIS	447	10D	1+10D	10D	1+10D
ILLINOIS	309*	10D	1+10D	10D	1+10D
ILLINOIS	618*	10D	1+10D	10D	1+10D
ILLINOIS	630	1+10D	1+10D	1+10D	1+10D
ILLINOIS	331	1+10D	1+10D	1+10D	1+10D
ILLINOIS	312	1+10D	1+10D	1+10D	1+10D
INDIANA	317	10D	1+10D	10D	1+10D
INDIANA	463	10D	1+10D	10D	1+10D
INDIANA	765	7D	1+10D	10D	1+10D
INDIANA	260	7D	1+10D	10D	1+10D
INDIANA	574*	10D	1+10D	10D	1+10D
INDIANA	219*	10D	1+10D	10D	1+10D
INDIANA	812	10D	1+10D	10D	1+10D
INDIANA	930	10D	1+10D	10D	1+10D
IOWA	712	7D	1+10D	10D	1+10D
IOWA	563	7D	1+10D	10D	1+10D
IOWA	641	7D	1+10D	10D	1+10D
IOWA	319*	10D	1+10D	10D	1+10D
IOWA	515*	10D	1+10D	10D	1+10D
JAMAICA	876	7D	1+10D	NA	1+10D
JAMAICA	658	10D	1+10D	10D	1+10D
KANSAS	913	7D	1+10D	10D	1+10D
KANSAS	316	7D	1+10D	10D	1+10D
KANSAS	785*	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
KANSAS	620*	10D	1+10D	10D	1+10D
KENTUCKY	502	7D	1+10D	7D	1+10D
KENTUCKY	859*	10D	1+10D	10D	1+10D
KENTUCKY	364	10D	1+10D	10D	1+10D
KENTUCKY	270	10D	1+10D	10D	1+10D
KENTUCKY	606	7D	1+10D	10D	1+10D
LOUISIANA	225	7D	1+10D	10D	1+10D
LOUISIANA	985	7D	1+10D	10D	1+10D
LOUISIANA	504*	10D	1+10D	10D	1+10D
LOUISIANA	337*	10D	1+10D	10D	1+10D
LOUISIANA	318	7D	1+10D	10D	1+10D
MAINE	207	7D	7D	1+10D	1+10D
MANITOBA	431	10D	1+10D	10D	1+10D
MANITOBA	204	10D	1+10D	10D	1+10D
MARYLAND	443	10D	1+10D	10D	1+10D
MARYLAND	301	10D	1+10D	10D	1+10D
MARYLAND	240	10D	1+10D	10D	1+10D
MARYLAND	410	10D	1+10D	10D	1+10D
MARYLAND	667	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	617	10D	1+10D	10D	1+10D
MASSACHUSETTS	508	10D	1+10D	10D	1+10D
MASSACHUSETTS	978	10D	1+10D	10D	1+10D
MASSACHUSETTS	413	7D	1+10D	10D	1+10D
MASSACHUSETTS	339	10D	1+10D	10D	1+10D
MASSACHUSETTS	351	10D	1+10D	10D	1+10D
MICHIGAN	734	7D	1+10D	10D	1+10D
MICHIGAN	248	10D	1+10D	10D	1+10D
MICHIGAN	231	7D	1+10D	10D	1+10D
MICHIGAN	810*	10D	1+10D	10D	1+10D
MICHIGAN	906*	10D	1+10D	10D	1+10D
MICHIGAN	616*	10D	1+10D	10D	1+10D
MICHIGAN	586	7D	1+10D	10D	1+10D
MICHIGAN	517	7D	1+10D	10D	1+10D
MICHIGAN	313	7D	1+10D	10D	1+10D
MICHIGAN	269	7D	1+10D	10D	1+10D
MICHIGAN	989*	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
MICHIGAN	947	10D	1+10D	10D	1+10D
MINNESOTA	612	7D	1+10D	10D	1+10D
MINNESOTA	952*	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	651	7D	1+10D	10D	1+10D
MINNESOTA	763	7D	1+10D	10D	1+10D
MISSISSIPPI	601	10D	1+10D	10D	1+10D
MISSISSIPPI	662*	10D	1+10D	10D	1+10D
MISSISSIPPI	228	7D	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	636	7D	1+10D	10D	1+10D
MISSOURI	660*	10D	1+10D	10D	1+10D
MISSOURI	573	7D	1+10D	10D	1+10D
MISSOURI	816*	10D	1+10D	10D	1+10D
MONTANA	406*	10D	1+10D	10D	1+10D
MONTSERRAT	664	7D	1+10D	NA	1+10D
NORTH CAROLINA	919	10D	1+10D	10D	1+10D
NORTH CAROLINA	980	10D	1+10D	10D	1+10D
NORTH CAROLINA	336	10D	1+10D	10D	1+10D
NORTH CAROLINA	704	10D	1+10D	10D	1+10D
NORTH CAROLINA	984	10D	1+10D	10D	1+10D
NORTH CAROLINA	828	7D	1+10D	10D	1+10D
NORTH CAROLINA	252	7D	1+10D	10D	1+10D
NORTH CAROLINA	743	10D	1+10D	10D	1+10D
NORTH CAROLINA	910*	10D	1+10D	10D	1+10D
NORTH DAKOTA	701	7D	1+10D	7D	1+10D
NEBRASKA	308	7D	1+10D	7D	1+10D
NEBRASKA	531	10D	1+10D	10D	1+10D
NEBRASKA	402	10D	1+10D	10D	1+10D
NEVADA	702	10D	1+10D	1+10D	1+10D
NEVADA	775*	10D	1+10D	1+10D	1+10D
NEVADA	725	10D	1+10D	10D	1+10D
NEW BRUNSWICK	506	7D	1+10D	NA	1+10D
NEW HAMPSHIRE	603*	10D	10D	1+10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
NEW JERSEY	640	10D	10D	1+10D	1+10D
NEW JERSEY	862	10D	10D	1+10D	1+10D
NEW JERSEY	973	10D	10D	1+10D	1+10D
NEW JERSEY	551	10D	10D	1+10D	1+10D
NEW JERSEY	908*	10D	10D	1+10D	1+10D
NEW JERSEY	201	10D	10D	1+10D	1+10D
NEW JERSEY	856*	10D	10D	1+10D	1+10D
NEW JERSEY	848	10D	10D	1+10D	1+10D
NEW JERSEY	732	10D	10D	1+10D	1+10D
NEW JERSEY	609	10D	10D	1+10D	1+10D
NEW MEXICO	575*	10D	1+10D	10D	1+10D
NEW MEXICO	505*	10D	1+10D	10D	1+10D
NEW YORK	607*	10D	10D	1+10D	1+10D
NEW YORK	585	7D	7D	1+10D	1+10D
NEW YORK	518	10D	10D	1+10D	1+10D
NEW YORK	516*	10D	10D	1+10D	1+10D
NEW YORK	347	1+10D	1+10D	1+10D	1+10D
NEW YORK	332	1+10D	1+10D	1+10D	1+10D
NEW YORK	315	10D	10D	1+10D	1+10D
NEW YORK	934	10D	10D	1+10D	1+10D
NEW YORK	929	1+10D	1+10D	1+10D	1+10D
NEW YORK	917	1+10D	1+10D	1+10D	1+10D
NEW YORK	845*	10D	10D	1+10D	1+10D
NEW YORK	838	10D	10D	1+10D	1+10D
NEW YORK	718	1+10D	1+10D	1+10D	1+10D
NEW YORK	716*	10D	10D	1+10D	1+10D
NEW YORK	680	10D	10D	1+10D	1+10D
NEW YORK	212	1+10D	1+10D	1+10D	1+10D
NEW YORK	646	1+10D	1+10D	1+10D	1+10D
NEW YORK	914*	10D	10D	1+10D	1+10D
NEW YORK	631	10D	10D	1+10D	1+10D
NEWFOUNDLAND AND LABRADOR	709	7D	1+10D	NA	1+10D
NOVA SCOTIA - PRINCE EDWARD ISLAND	902	10D	1+10D	NA	1+10D
NOVA SCOTIA - PRINCE EDWARD ISLAND	782	10D	1+10D	NA	1+10D
OHIO	740	10D	1+10D	10D	1+10D
OHIO	614	10D	1+10D	10D	1+10D
OHIO	567	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
OHIO	513*	10D	1+10D	10D	1+10D
OHIO	380	10D	1+10D	10D	1+10D
OHIO	419	10D	1+10D	10D	1+10D
OHIO	234	10D	1+10D	10D	1+10D
OHIO	440*	10D	1+10D	10D	1+10D
OHIO	326	10D	1+10D	10D	1+10D
OHIO	216	7D	1+10D	10D	1+10D
OHIO	220	10D	1+10D	10D	1+10D
OHIO	937	10D	1+10D	10D	1+10D
OHIO	330	10D	1+10D	10D	1+10D
OKLAHOMA	405	10D	1+10D	10D	1+10D
OKLAHOMA	580	7D	1+10D	7D	1+10D
OKLAHOMA	572	10D	1+10D	10D	1+10D
OKLAHOMA	539	10D	1+10D	10D	1+10D
OKLAHOMA	918	10D	1+10D	10D	1+10D
ONTARIO	905	10D	1+10D	10D	1+10D
ONTARIO	705	10D	1+10D	10D	1+10D
ONTARIO	226	10D	1+10D	10D	1+10D
ONTARIO	647	10D	1+10D	10D	1+10D
ONTARIO	249	10D	1+10D	10D	1+10D
ONTARIO	742	10D	10D	10D	10D
ONTARIO	807	7D	1+10D	NA	1+10D
ONTARIO	289	10D	10D	10D	10D
ONTARIO	437	10D	1+10D	10D	1+10D
ONTARIO	343	10D	1+10D	10D	1+10D
ONTARIO	365	10D	1+10D	10D	1+10D
ONTARIO	416	10D	1+10D	10D	1+10D
ONTARIO	519	10D	1+10D	10D	1+10D
ONTARIO	613	10D	1+10D	10D	1+10D
ONTARIO	548	10D	1+10D	10D	1+10D
OREGON	503	10D	1+10D	10D	1+10D
OREGON	458	10D	1+10D	10D	1+10D
OREGON	541	10D	1+10D	10D	1+10D
OREGON	971	10D	1+10D	10D	1+10D
PENNSYLVANIA	610	10D	10D	NA	1+10D
PENNSYLVANIA	582	10D	10D	1+10D	1+10D
PENNSYLVANIA	445	10D	10D	1+10D	1+10D
PENNSYLVANIA	215	10D	10D	NA	1+10D
PENNSYLVANIA	223	10D	10D	1+10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
PENNSYLVANIA	717	10D	10D	1+10D	1+10D
PENNSYLVANIA	724	10D	10D	(see note)	(see note)
PENNSYLVANIA	412	10D	10D	(see note)	(see note)
PENNSYLVANIA	570	10D	10D	1+10D	1+10D
PENNSYLVANIA	814	10D	10D	1+10D	1+10D
PENNSYLVANIA	878	10D	10D	(see note)	(see note)
PENNSYLVANIA	267	10D	10D	NA	1+10D
PENNSYLVANIA	272	10D	10D	1+10D	1+10D
PENNSYLVANIA	484	10D	10D	NA	1+10D
PUERTO RICO	939	10D	1+10D	10D	1+10D
PUERTO RICO	787	10D	1+10D	10D	1+10D
QUEBEC	418	10D	1+10D	10D	1+10D
QUEBEC	438	10D	1+10D	10D	1+10D
QUEBEC	450	10D	1+10D	1+10D	1+10D
QUEBEC	819	10D	1+10D	1+10D	1+10D
QUEBEC	581	10D	1+10D	10D	1+10D
QUEBEC	367	10D	1+10D	10D	1+10D
QUEBEC	514	10D	1+10D	10D	1+10D
QUEBEC	579	10D	10D	10D	10D
QUEBEC	873	10D	1+10D	1+10D	1+10D
RHODE ISLAND	401	7D	7D	1+10D	1+10D
SASKATCHEWAN	474	10D	1+10D	10D	1+10D
SASKATCHEWAN	639	10D	1+10D	10D	1+10D
SASKATCHEWAN	306	7D	1+10D	10D	1+10D
SINT MAARTEN	721	7D	NA	NA	1+10D
SOUTH CAROLINA	854	10D	1+10D	10D	1+10D
SOUTH CAROLINA	803	10D	1+10D	10D	1+10D
SOUTH CAROLINA	864	7D	1+10D	10D	1+10D
SOUTH CAROLINA	839	10D	1+10D	10D	1+10D
SOUTH CAROLINA	843	10D	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
TENNESSEE	615	10D	1+10D	10D	1+10D
TENNESSEE	629	10D	1+10D	10D	1+10D
TENNESSEE	931	7D	1+10D	7D	1+10D
TENNESSEE	901	7D	1+10D	10D	1+10D
TENNESSEE	865*	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
TENNESSEE	731*	10D	1+10D	10D	1+10D
TENNESSEE	423	7D	1+10D	10D	1+10D
TEXAS	254*	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	512	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	832	10D	1+10D	10D	1+10D
TEXAS	409*	10D	1+10D	10D	1+10D
TEXAS	830*	10D	1+10D	10D	1+10D
TEXAS	903	10D	1+10D	10D	1+10D
TEXAS	915*	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
TEXAS	936	7D	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	469	10D	1+10D	10D	1+10D
TEXAS	432	7D	1+10D	10D	1+10D
TEXAS	430	10D	1+10D	10D	1+10D
TEXAS	361*	10D	1+10D	10D	1+10D
TEXAS	940*	10D	1+10D	10D	1+10D
TEXAS	210	10D	1+10D	10D	1+10D
TEXAS	214	10D	1+10D	10D	1+10D
TRINIDAD & TOBAGO	868	7D	1+10D	NA	1+10D
TURKS & CAICOS ISLANDS	649	7D	1+10D	NA	1+10D
US 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
VERMONT	802*	10D	1+10D	1+10D	1+10D
VIRGINIA	434	7D	1+10D	10D	1+10D
VIRGINIA	703	10D	1+10D	10D	1+10D

LOCATION	NPA	STANDARD HNPA LOCAL	STANDARD HNPA TOLL	STANDARD FNPA LOCAL	STANDARD FNPA TOLL
VIRGINIA	757	7D	1+10D	10D	1+10D
VIRGINIA	804*	10D	1+10D	10D	1+10D
VIRGINIA	276*	10D	1+10D	10D	1+10D
VIRGINIA	540	7D	1+10D	10D	1+10D
VIRGINIA	571	10D	1+10D	10D	1+10D
WASHINGTON	360	10D	1+10D	10D	1+10D
WASHINGTON	206	10D	1+10D	10D	1+10D
WASHINGTON	425	10D	1+10D	10D	1+10D
WASHINGTON	564	10D	1+10D	10D	1+10D
WASHINGTON	253	10D	1+10D	10D	1+10D
WASHINGTON	509*	10D	1+10D	10D	1+10D
WEST VIRGINIA	681	10D	1+10D	10D	1+10D
WEST VIRGINIA	304	10D	1+10D	10D	1+10D
WISCONSIN	262*	10D	1+10D	1+10D	1+10D
WISCONSIN	920*	10D	1+10D	1+10D	1+10D
WISCONSIN	715	10D	1+10D	10D	1+10D
WISCONSIN	608*	10D	1+10D	1+10D	1+10D
WISCONSIN	414*	10D	1+10D	1+10D	1+10D
WISCONSIN	534	10D	1+10D	10D	1+10D
WYOMING	307	7D	1+10D	7D	1+10D
YUKON-NW TERR. - NUNAVUT	867	7D	1+10D	NA	1+10D

*Carriers to enforce mandatory 10-digit dialing no earlier than October 24, 2021, and no later than July 15, 2022.

**Carriers to enforce mandatory 1+10 digit dialing no earlier than October 24, 2021, and no later than January 8, 2022 due to NPA relief.

ATTACHMENT 5
Aggregated Total by Pool of the Service Providers Participating in the Pooled Areas

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
201/551	63	22
202/771	53	1
203/475	42	32
205/659	64	37
206	58	4
207	63	50
208/986	72	19
209	50	28
210/726	53	1
212/332/646/917	77	1
213/323	62	15
214/469/945/972	87	43
215/267/445	69	36
216	51	4
217/447	55	17
218	60	0
219	43	38
220/740	57	63
223/717	68	61
224/847	49	41
225	44	34
228	40	0
229	42	0
231	50	20
234/330	59	78
239	41	7
240/301	72	42
248/947	48	20
251	50	15
252	45	14
253	40	10
254	54	10

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
256/938	58	5
260	41	49
262	44	45
269	50	26
270/364	64	7
272/570	69	72
276	49	0
279/916	57	16
281/346/713/832	75	45
302	41	8
303/720	61	8
304/681	56	7
305/786	66	5
307	38	0
308	39	0
309	55	0
310/424	54	16
312/872	60	1
313	53	6
314	44	7
315/680	63	74
316	43	14
317/463	53	36
318	41	0
319	52	0
320	59	25
321	40	5
321/407/689	66	17
325	42	0
326/937	59	83
331/630	48	25
334	51	1

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
336/743	69	62
337	40	1
339/781	42	40
341/510	52	13
347/718/917/929	68	11
347/718/929	48	2
351/978	45	58
352	49	17
360/564	67	26
361	50	1
380/614	55	16
385/801	45	19
386	52	15
401	38	25
402/531	73	32
404/470/678	65	1
405/572	54	63
406	54	0
408/669	59	11
409	49	12
410/443/667	69	70
412/878	55	23
413	48	48
414	41	4
415/628	62	14
417	55	1
419/567	59	52
423	60	18
425	41	14
430/903	63	34
432	36	1
434	43	7
435	44	24
440	48	62
442/760	64	62
448/850	51	0
458/541	57	1
470/678/770	67	37

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
478	49	2
479	34	0
480	41	1
484/610	67	77
501	43	37
502	52	26
503/971	61	35
504	43	5
505	50	3
507	58	16
508/774	50	68
509	71	3
512/737	64	25
513	49	25
515	58	28
516	60	11
517	65	27
518/838	77	54
520	49	20
530	62	25
534/715	92	25
539/918	64	69
540	62	32
559	49	38
561	54	7
562	52	9
563	49	0
571/703	58	19
573	58	28
574	47	1
575	44	4
580	45	8
582/814	64	9
585	55	59
586	44	11
601/769	55	25
602	36	1
603	50	32

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
605	52	0
606	45	4
607	57	10
608	76	53
609/640	59	21
612	52	1
615/629	58	49
616	55	36
617/857	57	20
618	53	77
619/858	56	19
620	72	37
623	30	1
626	52	10
631/934	57	53
636	43	45
641	50	33
650	49	15
651	52	8
657/714	54	13
660	52	23
661	56	29
662	57	24
682/817	61	24
701	55	0
702/725	51	16
704/980	61	47
706/762	78	41
707	60	14
708	45	31
712	70	40
716	65	39
719	52	15
724/878	60	137
727	47	5
731	49	0
732/848	57	36
734	55	33

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
747/818	50	16
754/954	55	5
757	44	26
763	52	10
765	60	53
772	48	1
773/872	53	10
775	46	9
779/815	71	50
785	61	15
787/939	18	49
802	42	0
803/839	63	44
804	50	41
805/820	62	18
806	46	0
808	30	1
810	44	28
812/930	68	48
813	61	8
816	56	54
828	53	1
830	53	48
831	50	8
840/909	56	21
843/854	56	22
845	75	65
856	59	29
859	50	10
860/959	43	42
862/973	77	41
863	54	12
864	54	46
865	51	29
870	47	10
901	50	14
904	53	17
906	28	0

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
907	24	0
908	61	38
910	51	1
912	57	0
913	54	27
914	60	28
915	37	11
919/984	62	33
920	72	11
925	48	17
928	54	24
931	48	17

NPA/NPA COMPLEX	Pooling OCNs	Pooled RCs
936	50	22
940	63	25
941	52	8
949	53	7
951	50	20
952	46	3
956	45	13
970	50	0
979	57	18
985	37	26
989	58	22

ATTACHMENT 6
NATIONAL ROUTING NUMBER ADMINISTRATION
2021 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, 2021, 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_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
201	NEW JERSEY	9,408	40	2,281	4
202	DISTRICT OF COLUMBIA	617	0	N/A	N/A
203	CONNECTICUT	7,467	0	N/A	N/A
205	ALABAMA	5,607	180	2,096	4
206	WASHINGTON	1,262	55	2,357	3
207	MAINE	7,714	10	3,245	3
208	IDAHO	5,961	367	2,054	2
209	CALIFORNIA	5,382	0	N/A	N/A
210	TEXAS	7,187	30	2,443	1
212	NEW YORK	5,135	0	N/A	N/A
213	CALIFORNIA	3,104	50	2,354	4
214	TEXAS	8,214	800	2,031	3
215	PENNSYLVANIA	1,890	0	N/A	N/A
216	OHIO	1,155	100	2,204	2
217	ILLINOIS	5,566	0	N/A	N/A
218	MINNESOTA	3,659	75	2,234	4
219	INDIANA	4,149	0	N/A	N/A
220	OHIO	50	0	N/A	N/A
223	PENNSYLVANIA	50	0	N/A	N/A
224	ILLINOIS	8,888	61	2,198	1
225	LOUISIANA	1,987	0	N/A	N/A
228	MISSISSIPPI	2,446	350	2,066	1
229	GEORGIA	3,800	125	2,146	3
231	MICHIGAN	4,261	100	2,173	2
234	OHIO	305	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
239	FLORIDA	1,412	50	2,388	4
240	MARYLAND	565	0	N/A	N/A
248	MICHIGAN	6,104	120	2,132	4
251	ALABAMA	1,836	0	N/A	N/A
252	NORTH CAROLINA	4,980	20	2,767	1
253	WASHINGTON	1,303	50	2,390	4
254	TEXAS	8,208	265	2,060	2
256	ALABAMA	3,620	50	2,344	3
260	INDIANA	2,162	100	2,194	2
262	WISCONSIN	310	0	N/A	N/A
267	PENNSYLVANIA	50	0	N/A	N/A
269	MICHIGAN	1,930	0	N/A	N/A
270	KENTUCKY	4,812	120	2,143	3
272	PENNSYLVANIA	145	0	N/A	N/A
276	VIRGINIA	2,257	80	2,238	4
279	CALIFORNIA	50	0	N/A	N/A
281	TEXAS	11,126	921	2,026	3
301	MARYLAND	1,787	50	2,380	2
302	DELAWARE	2,131	110	2,178	2
303	COLORADO	4,405	0	N/A	N/A
304	WEST VIRGINIA	10,275	60	2,178	1
305	FLORIDA	2,326	150	2,134	4
307	WYOMING	3,909	135	2,135	1
308	NEBRASKA	2,652	84	2,223	3
309	ILLINOIS	4,733	211	2,088	2
310	CALIFORNIA	3,178	0	N/A	N/A
312	ILLINOIS	4,887	50	2,318	2
313	MICHIGAN	713	100	2,209	4
314	MISSOURI	10,272	30	2,340	2
315	NEW YORK	7,776	75	2,179	4
316	KANSAS	5,416	0	N/A	N/A
317	INDIANA	4,245	200	2,095	4
318	LOUISIANA	4,275	0	N/A	N/A
319	IOWA	1,331	0	N/A	N/A
320	MINNESOTA	1,620	0	N/A	N/A
321	FLORIDA	2,202	0	N/A	N/A
323	CALIFORNIA	4,157	50	2,333	4
325	TEXAS	8,090	20	2,612	3
326	OHIO	50	0	N/A	N/A
330	OHIO	7,321	166	2,092	2
331	ILLINOIS	75	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
332	NEW YORK	50	0	N/A	N/A
334	ALABAMA	5,602	50	2,304	4
336	NORTH CAROLINA	3,567	270	2,077	4
337	LOUISIANA	2,618	25	2,711	2
339	MASSACHUSETTS	50	0	N/A	N/A
340	US VIRGIN ISLANDS	360	0	N/A	N/A
341	CALIFORNIA	50	0	N/A	N/A
346	TEXAS	50	0	N/A	N/A
347	NEW YORK	50	0	N/A	N/A
351	MASSACHUSETTS	60	0	N/A	N/A
352	FLORIDA	2,664	10	3,750	3
360	WASHINGTON	2,984	50	2,356	2
361	TEXAS	7,138	120	2,123	1
364	KENTUCKY	110	0	N/A	N/A
380	OHIO	50	0	N/A	N/A
385	UTAH	50	0	N/A	N/A
386	FLORIDA	1,784	0	N/A	N/A
401	RHODE ISLAND	1,135	0	N/A	N/A
402	NEBRASKA	8,293	169	2,085	2
404	GEORGIA	2,642	0	N/A	N/A
405	OKLAHOMA	14,211	392	2,031	4
406	MONTANA	5,259	55	2,284	1
407	FLORIDA	2,300	50	2,370	1
408	CALIFORNIA	2,752	0	N/A	N/A
409	TEXAS	3,652	195	2,100	4
410	MARYLAND	4,692	200	2,093	3
412	PENNSYLVANIA	899	0	N/A	N/A
413	MASSACHUSETTS	3,792	0	N/A	N/A
414	WISCONSIN	6,485	115	2,134	3
415	CALIFORNIA	1,916	0	N/A	N/A
417	MISSOURI	4,776	176	2,102	3
419	OHIO	6,096	130	2,123	4
423	TENNESSEE	4,703	70	2,235	3
424	CALIFORNIA	50	0	N/A	N/A
425	WASHINGTON	757	0	N/A	N/A
430	TEXAS	1,202	20	2,956	4
432	TEXAS	3,321	45	2,387	3
434	VIRGINIA	3,578	0	N/A	N/A
435	UTAHIO	2,549	25	2,714	1
440	OH	2,483	130	2,151	3
442	CALIFORNIA	90	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
443	MARYLAND	100	0	N/A	N/A
445	PENNSYLVANIA	50	0	N/A	N/A
447	ILLINOIS	50	0	N/A	N/A
448	FLORIDA	50	0	N/A	N/A
458	OREGON	50	0	N/A	N/A
463	INDIANA	50	0	N/A	N/A
469	TEXAS	3,494	45	2,383	4
470	GEORGIA	173	0	N/A	N/A
475	CONNECTICUT	1,206	0	N/A	N/A
478	GEORGIA	2,432	166	2,122	4
479	ARKANSAS	3,805	30	2,556	4
480	ARIZONA	511	0	N/A	N/A
484	PENNSYLVANIAA	100	0	N/A	N/A
501	ARKANSAS	7,762	90	2,152	4
502	KENTUCKY	2,137	25	2,731	3
503	OREGON	3,273	151	2,127	4
504	LOUISIANA	1,678	25	2,749	4
505	NEW MEXICO	3,488	110	2,166	1
507	MINNESOTA	2,881	100	2,187	1
508	MASSACHUSETTS	7,540	5	4,508	1
509	WASHINGTON	3,601	404	2,057	3
510	CALIFORNIA	2,683	51	2,356	3
512	TEXAS	10,000	20	2,516	1
513	OHIO	4,450	0	N/A	N/A
515	IOWA	8,368	111	2,121	4
516	NEW YORK	1,376	0	N/A	N/A
517	MICHIGAN	519	0	N/A	N/A
518	NEW YORK	5,983	50	2,296	2
520	ARIZONA	2,887	0	N/A	N/A
530	CALIFORNIA	8,409	30	2,402	2
531	NEBRASKA	50	0	N/A	N/A
534	WISCONSIN	50	0	N/A	N/A
539	OKLAHOMA	50	0	N/A	N/A
540	VIRGINIA	6,217	0	N/A	N/A
541	OREGON	6,388	115	2,134	2
551	NEW JERSEY	120	50	2,414	3
559	CALIFORNIA	4,356	0	N/A	N/A
561	FLORIDA	3,023	10	3,714	3
562	CALIFORNIA	3,204	0	N/A	N/A
563	IOWA	1,042	100	2,206	3
564	WASHINGTON	50	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
567	OHIO	299	0	N/A	N/A
570	PENNSYLVANIA	5,892	0	N/A	N/A
571	VIRGINIA	50	0	N/A	N/A
572	OKLAHOMA	50	0	N/A	N/A
573	MISSOURI	3,775	80	2,219	4
574	INDIANA	2111	0	N/A	N/A
575	NEW MEXICO	1,933	35	2,532	1
580	OKLAHOMA	1,560	320	2,074	3
582	PENNSYLVANIA	50	0	N/A	N/A
585	NEW YORK	2,001	0	N/A	N/A
586	MICHIGAN	150	0	N/A	N/A
601	MISSISSIPPI	5,276	45	2,343	1
602	ARIZONA	1,985	75	2,256	1
603	NEW HAMPSHIRE	1,360	0	N/A	N/A
605	SOUTH DAKOTA	2,823	125	2,153	2
606	KENTUCKY	4,171	386	2,057	1
607	NEW YORK	2,874	0	N/A	N/A
608	WISCONSIN	3,963	170	2,110	2
609	NEW JERSEY	9,555	115	2,107	4
610	PENNSYLVANIA	3,048	0	N/A	N/A
612	MINNESOTA	3,453	0	N/A	N/A
614	OHIO	1,812	0	N/A	N/A
615	TENNESSEE	4,509	255	2,077	3
616	MICHIGAN	4,571	0	N/A	N/A
617	MASSACHUSETTS	1,180	0	N/A	N/A
618	ILLINOIS	10,680	261	2,052	3
619	CALIFORNIA	2996	0	N/A	N/A
620	KANSAS	3,430	40	2,430	2
623	ARIZONA	136	0	N/A	N/A
626	CALIFORNIA	3,253	11	3,538	2
628	CALIFORNIA	60	0	N/A	N/A
629	TENNESSEE	50	0	N/A	N/A
630	ILLINOIS	4,642	19	2,824	2
631	NEW YORK	1854	0	N/A	N/A
636	MISSOURI	2,428	55	2,335	2
640	NEW JERSEY	50	0	N/A	N/A
641	IOWA	1,930	100	2,197	3
646	NEW YORK	50	0	N/A	N/A
650	CALIFORNIA	3,057	11	3,556	2
651	MINNESOTA	453	0	N/A	N/A
657	CALIFORNIA	60	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
659	ALABAMA	50	0	N/A	N/A
660	MISSOURI	2,801	140	2,139	4
661	CALIFORNIA	2,378	30	2,603	2
662	MISSISSIPPI	11,925	590	2,030	3
667	MARYLAND	85	0	N/A	N/A
669	CALIFORNIA	50	0	N/A	N/A
678	GEORGIA	6,301	76	2,196	2
680	NEW YORK	50	0	N/A	N/A
681	WEST VIRGINIA	195	0	N/A	N/A
682	TEXAS	8,035	85	2,157	4
689	FLORIDA	50	0	N/A	N/A
701	NORTH DAKOTA	2,088	75	2,255	4
702	NEVADA	1,237	0	N/A	N/A
703	VIRGINIA	1,482	30	2,633	2
704	NORTH CAROLINA	2,369	20	2,898	3
706	GEORGIA	5,897	111	2,143	1
707	CALIFORNIA	6,727	111	2,136	3
708	ILLINOIS	8,944	408	2,043	1
712	IOWA	1,614	100	2,200	4
713	TEXAS	3,096	895	2,035	4
714	CALIFORNIA	4,454	0	N/A	N/A
715	WISCONSIN	4,885	175	2,102	2
716	CALIFORNIA	2,153	0	N/A	N/A
717	PENNSYLVANIA	2,256	0	N/A	N/A
718	NEW YORK	4,191	0	N/A	N/A
719	COLORADO	4,248	50	2,331	1
720	COLORADO	675	0	N/A	N/A
724	PENNSYLVANIA	2,927	0	N/A	N/A
725	NEVADA	50	0	N/A	N/A
726	TEXAS	50	0	N/A	N/A
727	FLORIDA	958	0	N/A	N/A
731	TENNESSEE	2,253	0	N/A	N/A
732	NEW JERSEY	8,685	81	2,156	3
734	MICHIGAN	7,359	100	2,142	2
737	TEXAS	50	0	N/A	N/A
740	OHIO	7,061	0	N/A	N/A
743	NORTH CAROLINA	50	0	N/A	N/A
747	CALIFORNIA	50	0	N/A	N/A
754	FLORIDA	790	0	N/A	N/A
757	VIRGINIA	3,115	0	N/A	N/A
760	CALIFORNIA	6,392	25	2,560	2

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
762	GEORGIA	50	0	N/A	N/A
763	MINNESOTA	786	0	N/A	N/A
765	INDIANA	8,004	105	2,130	1
769	MISSISSIPPI	1,122	0	N/A	N/A
770	GEORGIA	2,265	185	2,112	4
771	DISTRICT OF COLUMBIA	50	0	N/A	N/A
772	FLORIDA	708	10	3,945	1
773	ILLINOIS	50	0	N/A	N/A
774	MASSACHUSETTS	745	0	N/A	N/A
775	NEVADA	2,335	0	N/A	N/A
779	ILLINOIS	140	0	N/A	N/A
781	MASSACHUSETTS	2,685	0	N/A	N/A
785	KANSAS	7,811	50	2,260	4
786	FLORIDA	202	0	N/A	N/A
787	PUERTO RICO	402	0	N/A	N/A
801	UTAH	2,337	300	2,075	4
802	VERMONT	1,650	5	5,686	1
803	SOUTH CAROLINA	4214	0	N/A	N/A
804	VIRGINIA	4,497	40	2,404	3
805	CALIFORNIA	4,590	0	N/A	N/A
806	TEXAS	9,094	120	2,107	4
808	HAWAII	1,584	0	N/A	N/A
810	MICHIGAN	475	0	N/A	N/A
812	INDIANA	6,087	190	2,089	1
813	FLORIDA	1,273	50	2,391	3
814	PENNSYLVANIA	3,943	0	N/A	N/A
815	ILLINOIS	4,032	161	2,115	1
816	MISSOURI	6,912	725	2,034	1
817	TEXAS	6,706	1028	2,029	4
818	CALIFORNIA	1,165	0	N/A	N/A
820	CALIFORNIA	50	0	N/A	N/A
828	NORTH CAROLINA	3,862	20	2,823	4
830	TEXAS	2,886	20	2,872	3
831	CALIFORNIA	2,565	11	3,601	1
832	TEXAS	6,048	30	2,481	1
838	NEW YORK	50	0	N/A	N/A
839	SOUTH CAROLINA	50	0	N/A	N/A
840	CALIFORNIA	50	0	N/A	N/A
843	SOUTH CAROLINA	3,948	0	N/A	N/A
845	NEW YORK	3,392	50	2,348	1
847	ILLINOIS	5,676	623	2,039	4

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
848	NEW JERSEY	55	0	N/A	N/A
850	FLORIDA	3,032	0	N/A	N/A
854	SOUTH CAROLINA	50	0	N/A	N/A
856	NEW JERSEY	4,885	121	2,141	4
857	MASSACHUSETTS	50	0	N/A	N/A
858	CALIFORNIA	3,847	65	2,265	3
859	KENTUCKY	5,012	75	2,216	4
860	CONNECTICUT	11,401	120	2,088	3
862	NEW JERSEY	330	0	N/A	N/A
863	FLORIDA	1,547	0	N/A	N/A
864	SOUTH CAROLINA	3,619	50	2,344	3
865	TENNESSEE	2,088	0	N/A	N/A
870	ARKANSAS	7,184	125	2,119	3
872	ILLINOIS	50	0	N/A	N/A
878	PENNSYLVANIA	50	0	N/A	N/A
901	TENNESSEE	2,428	0	N/A	N/A
903	TEXAS	10,999	195	2,062	1
904	FLORIDA	1,928	20	2,920	3
906	MICHIGAN	2,142	22	2,828	3
907	ALASKA	2,405	110	2,176	4
908	NEW JERSEY	6,727	110	2,137	3
909	CALIFORNIA	4,134	0	N/A	N/A
910	NORTH CAROLINA	4,135	0	N/A	N/A
912	GEORGIA	3,503	125	2,148	4
913	KANSAS	3,599	332	2,065	2
914	NEW YORK	2,275	50	2,370	3
915	TEXAS	1,096	128	2,164	3
916	CALIFORNIA	3,594	0	N/A	N/A
917	NEW YORK	50	0	N/A	N/A
918	OKLAHOMA	8,031	0	N/A	N/A
919	NORTH CAROLINA	3,442	225	2,090	3
920	WISCONSIN	4,398	100	2,172	1
925	CALIFORNIA	2,804	0	N/A	N/A
928	ARIZONA	2,703	170	2,118	3
929	NEW YORK	50	0	N/A	N/A
930	INDIANA	50	0	N/A	N/A
931	TENNESSEE	3,988	150	2,123	3
934	NEW YORK	50	0	N/A	N/A
936	TEXAS	316	121	2,179	3
937	OHIO	4,190	0	N/A	N/A
938	ALABAMA	50	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
939	PUERTO RICO	50	0	N/A	N/A
940	TEXAS	4,767	95	2,176	2
941	FLORIDA	961	24	2,809	2
947	MICHIGAN	1,627	0	N/A	N/A
948	VIRGINIA	50	0	N/A	N/A
949	CALIFORNIA	1,488	0	N/A	N/A
951	CALIFORNIA	3,131	10	3,703	4
952	MINNESOTA	355	0	N/A	N/A
954	FLORIDA	2,461	0	N/A	N/A
956	TEXAS	6,918	31	2,438	1
959	CONNECTICUT	50	0	N/A	N/A
970	COLORADO	4,365	30	2,537	1
971	OREGON	111	0	N/A	N/A
972	TEXAS	4,703	275	2,072	3
973	NEW JERSEY	11,513	335	2,041	2
978	MASSACHUSETTS	3,954	25	2,658	4
979	TEXAS	3,408	445	2,053	2
980	NORTH CAROLINA	370	0	N/A	N/A
984	NORTH CAROLINA	60	0	N/A	N/A
985	LOUISIANA	2,627	260	2,083	4
986	IDAHO	50	0	N/A	N/A
989	MICHIGAN	3,631	0	N/A	N/A

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

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
205	ALABAMA	5,607	180	2,096	4
251	ALABAMA	1,836	0	N/A	N/A
256	ALABAMA	3,620	50	2,344	3
334	ALABAMA	5,602	50	2,304	4
659	ALABAMA	50	0	N/A	N/A
938	ALABAMA	50	0	N/A	N/A
907	ALASKA	2,405	110	2,176	4
480	ARIZONA	511	0	N/A	N/A
520	ARIZONA	2,887	0	N/A	N/A
602	ARIZONA	1,985	75	2,256	1
623	ARIZONA	136	0	N/A	N/A
928	ARIZONA	2,703	170	2,118	3
479	ARKANSAS	3,805	30	2,556	4
501	ARKANSAS	7,762	90	2,152	4
870	ARKANSAS	7,184	125	2,119	3
209	CALIFORNIA	5,382	0	N/A	N/A
213	CALIFORNIA	3,104	50	2,354	4
279	CALIFORNIA	50	0	N/A	N/A
310	CALIFORNIA	3,178	0	N/A	N/A
323	CALIFORNIA	4,157	50	2,333	4
341	CALIFORNIA	50	0	N/A	N/A
408	CALIFORNIA	2,752	0	N/A	N/A
415	CALIFORNIA	1,916	0	N/A	N/A
424	CALIFORNIA	50	0	N/A	N/A
442	CALIFORNIA	90	0	N/A	N/A
510	CALIFORNIA	2,683	51	2,356	3
530	CALIFORNIA	8,409	30	2,402	2
559	CALIFORNIA	4,356	0	N/A	N/A
562	CALIFORNIA	3,204	0	N/A	N/A
619	CALIFORNIA	2,996	0	N/A	N/A
626	CALIFORNIA	3,253	11	3,538	2
628	CALIFORNIA	60	0	N/A	N/A
650	CALIFORNIA	3,057	11	3,556	2
657	CALIFORNIA	60	0	N/A	N/A
661	CALIFORNIA	2,378	30	2,603	2
669	CALIFORNIA	50	0	N/A	N/A
707	CALIFORNIA	6,727	111	2,136	3
714	CALIFORNIA	4,454	0	N/A	N/A
747	CALIFORNIA	50	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
760	CALIFORNIA	6,392	25	2,560	2
805	CALIFORNIA	4,590	0	N/A	N/A
818	CALIFORNIA	1,165	0	N/A	N/A
820	CALIFORNIA	50	0	N/A	N/A
831	CALIFORNIA	2,565	11	3,601	1
840	CALIFORNIA	50	0	N/A	N/A
858	CALIFORNIA	3,847	65	2,265	3
909	CALIFORNIA	4,134	0	N/A	N/A
916	CALIFORNIA	3,594	0	N/A	N/A
925	CALIFORNIA	2,804	0	N/A	N/A
949	CALIFORNIA	1,488	0	N/A	N/A
951	CALIFORNIA	3,131	10	3,703	4
303	COLORADO	4,405	0	N/A	N/A
719	COLORADO	4,248	50	2,331	1
720	COLORADO	675	0	N/A	N/A
970	COLORADO	4,365	30	2,537	1
203	CONNECTICUT	7,467	0	N/A	N/A
475	CONNECTICUT	1,206	0	N/A	N/A
860	CONNECTICUT	11,401	120	2,088	3
959	CONNECTICUT	50	0	N/A	N/A
302	DELAWARE	2,131	110	2,178	2
202	DISTRICT OF COLUMBIA	617	0	N/A	N/A
771	DISTRICT OF COLUMBIA	50	0	N/A	N/A
239	FLORIDA	1,412	50	2,388	4
305	FLORIDA	2,326	150	2,134	4
321	FLORIDA	2,202	0	N/A	N/A
352	FLORIDA	2,664	10	3,750	3
386	FLORIDA	1,784	0	N/A	N/A
407	FLORIDA	2,300	50	2,370	1
448	FLORIDA	50	0	N/A	N/A
561	FLORIDA	3,023	10	3,714	3
689	FLORIDA	50	0	N/A	N/A
727	FLORIDA	958	0	N/A	N/A
754	FLORIDA	790	0	N/A	N/A
772	FLORIDA	708	10	3,945	1
786	FLORIDA	202	0	N/A	N/A
813	FLORIDA	1,273	50	2,391	3
850	FLORIDA	3,032	0	N/A	N/A
863	FLORIDA	1,547	0	N/A	N/A
904	FLORIDA	1,928	20	2,920	3
941	FLORIDA	961	24	2,809	2
954	FLORIDA	2,461	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
229	GEORGIA	3,800	125	2,146	3
404	GEORGIA	2,642	0	N/A	N/A
470	GEORGIA	173	0	N/A	N/A
478	GEORGIA	2,432	166	2,122	4
678	GEORGIA	6,301	76	2,196	2
706	GEORGIA	5,897	111	2,143	1
762	GEORGIA	50	0	N/A	N/A
770	GEORGIA	2,265	185	2,112	4
912	GEORGIA	3,503	125	2,148	4
808	HAWAII	1,584	0	N/A	N/A
208	IDAHO	5,961	367	2054	2
986	IDAHO	50	0	N/A	N/A
217	ILLINOIS	5,566	0	N/A	N/A
224	ILLINOIS	8,888	61	2,198	1
309	ILLINOIS	4,733	211	2,088	2
312	ILLINOIS	4,887	50	2,318	2
331	ILLINOIS	75	0	N/A	N/A
447	ILLINOIS	50	0	N/A	N/A
618	ILLINOIS	10680	261	2,,052	3
630	ILLINOIS	4,642	19	2,824	2
708	ILLINOIS	8,944	408	2,043	1
773	ILLINOIS	50	0	N/A	N/A
779	ILLINOIS	140	0	N/A	N/A
815	ILLINOIS	4,032	161	2,115	1
847	ILLINOIS	5,676	623	2,039	4
872	ILLINOIS	50	0	N/A	N/A
219	INDIANA	4,149	0	N/A	N/A
260	INDIANA	2,162	100	2,194	2
317	INDIANA	4,245	200	2,095	4
463	INDIANA	50	0	N/A	N/A
574	INDIANA	2,111	0	N/A	N/A
765	INDIANA	8,004	105	2,130	1
812	INDIANA	6,087	190	2,089	1
930	INDIANA	50	0	N/A	N/A
319	IOWA	1,331	0	N/A	N/A
515	IOWA	8,368	111	2,121	4
563	IOWA	1,042	100	2,206	3
641	IOWA	1,930	100	2,197	3
712	IOWA	1,614	100	2,200	4
316	KANSAS	5,416	0	N/A	N/A
620	KANSAS	3,430	40	2,430	2
785	KANSAS	7,811	50	2,260	4

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
913	KANSAS	3,599	332	2,065	2
270	KENTUCKY	4,812	120	2,143	3
364	KENTUCKY	110	0	N/A	N/A
502	KENTUCKY	2,137	25	2,731	3
606	KENTUCKY	4,171	386	2,057	1
859	KENTUCKY	5,012	75	2,216	4
225	LOUISIANA	1,987	0	N/A	N/A
318	LOUISIANA	4,275	0	N/A	N/A
337	LOUISIANA	2,618	25	2,711	2
504	LOUISIANA	1,678	25	2,749	4
985	LOUISIANA	2,,627	260	2083	4
207	MAINE	7,714	10	3,245	3
240	MARYLAND	565	0	N/A	N/A
301	MARYLAND	1,787	50	2,380	2
410	MARYLAND	4,692	200	2,093	3
443	MARYLAND	100	0	N/A	N/A
667	MARYLAND	85	0	N/A	N/A
339	MASSACHUSETTS	50	0	N/A	N/A
351	MASSACHUSETTS	60	0	N/A	N/A
413	MASSACHUSETTS	3,792	0	N/A	N/A
508	MASSACHUSETTS	7,540	5	4508	1
617	MASSACHUSETTS	1,180	0	N/A	N/A
774	MASSACHUSETTS	745	0	N/A	N/A
781	MASSACHUSETTS	2,685	0	N/A	N/A
857	MASSACHUSETTS	50	0	N/A	N/A
978	MASSACHUSETTS	3,954	25	2,658	4
231	MICHIGAN	4,261	100	2,173	2
248	MICHIGAN	6,104	120	2,132	4
269	MICHIGAN	1,930	0	N/A	N/A
313	MICHIGAN	713	100	2,209	4
517	MICHIGAN	519	0	N/A	N/A
586	MICHIGAN	150	0	N/A	N/A
616	MICHIGAN	4,571	0	N/A	N/A
734	MICHIGAN	7,359	100	2,142	2
810	MICHIGAN	475	0	N/A	N/A
906	MICHIGAN	2,142	22	2,828	3
947	MICHIGAN	1,627	0	N/A	N/A
989	MICHIGAN	3,631	0	N/A	N/A
218	MINNESOTA	3,659	75	2,234	4
320	MINNESOTA	1,620	0	N/A	N/A
507	MINNESOTA	2,881	100	2,187	1
612	MINNESOTA	3,453	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
651	MINNESOTA	453	0	N/A	N/A
763	MINNESOTA	786	0	N/A	N/A
952	MINNESOTA	355	0	N/A	N/A
228	MISSISSIPPI	2,446	350	2,066	1
601	MISSISSIPPI	5,276	45	2,343	1
662	MISSISSIPPI	11,925	590	2,030	3
769	MISSISSIPPI	1,122	0	N/A	N/A
314	MISSOURI	10,272	30	2,340	2
417	MISSOURI	4,776	176	2,102	3
573	MISSOURI	3,775	80	2,219	4
636	MISSOURI	2,428	55	2,335	2
660	MISSOURI	2,801	140	2,139	4
816	MISSOURI	6,912	725	2,034	1
406	MONTANA	5,259	55	2,284	1
252	NORTH CAROLINA	4,980	20	2,767	1
336	NORTH CAROLINA	3,567	270	2,077	4
704	NORTH CAROLINA	2,369	20	2,898	3
743	NORTH CAROLINA	50	0	N/A	N/A
828	NORTH CAROLINA	3,862	20	2,823	4
910	NORTH CAROLINA	4,135	0	N/A	N/A
919	NORTH CAROLINA	3,442	225	2,090	3
980	NORTH CAROLINA	370	0	N/A	N/A
984	NORTH CAROLINA	60	0	N/A	N/A
701	NORTH DAKOTA	2,088	75	2,255	4
308	NEBRASKA	2,652	84	2,223	3
402	NEBRASKA	8,293	169	2,085	2
531	NEBRASKA	50	0	N/A	N/A
702	NEVADA	1,237	0	N/A	N/A
725	NEVADA	50	0	N/A	N/A
775	NEVADA	2,335	0	N/A	N/A
603	NEW HAMPSHIRE	1,360	0	N/A	N/A
201	NEW JERSEY	9,408	40	2,281	4
551	NEW JERSEY	120	50	2,414	3
609	NEW JERSEY	9,555	115	2,107	4
640	NEW JERSEY	50	0	N/A	N/A
732	NEW JERSEY	8,685	81	2,156	3
848	NEW JERSEY	55	0	N/A	N/A
856	NEW JERSEY	4,885	121	2,141	4
862	NEW JERSEY	330	0	N/A	N/A
908	NEW JERSEY	6,727	110	2,137	3
973	NEW JERSEY	11,513	335	2,041	2
505	NEW MEXICO	3,488	110	2,166	1

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
575	NEW MEXICO	1,,933	35	2532	1
212	NEW YORK	5,135	0	N/A	N/A
315	NEW YORK	7,776	75	2,179	4
332	NEW YORK	50	0	N/A	N/A
347	NEW YORK	50	0	N/A	N/A
516	NEW YORK	1,376	0	N/A	N/A
518	NEW YORK	5,983	50	2,296	2
585	NEW YORK	2,001	0	N/A	N/A
607	NEW YORK	2,874	0	N/A	N/A
631	NEW YORK	1,854	0	N/A	N/A
646	NEW YORK	50	0	N/A	N/A
680	NEW YORK	50	0	N/A	N/A
716	NEW YORK	2,153	0	N/A	N/A
718	NEW YORK	4,191	0	N/A	N/A
838	NEW YORK	50	0	N/A	N/A
845	NEW YORK	3,392	50	2,348	1
914	NEW YORK	2,275	50	2,370	3
917	NEW YORK	50	0	N/A	N/A
929	NEW YORK	50	0	N/A	N/A
934	NEW YORK	50	0	N/A	N/A
216	OHIO	1,155	100	2,204	2
220	OHIO	50	0	N/A	N/A
234	OHIO	305	0	N/A	N/A
326	OHIO	50	0	N/A	N/A
330	OHIO	7,321	166	2,092	2
380	OHIO	50	0	N/A	N/A
419	OHIO	6,096	130	2,123	4
440	OHIO	2,483	130	2,151	3
513	OHIO	4,450	0	N/A	N/A
567	OHIO	299	0	N/A	N/A
614	OHIO	1,812	0	N/A	N/A
740	OHIO	7,061	0	N/A	N/A
937	OHIO	4,190	0	N/A	N/A
405	OKLAHOMA	14,211	392	2,031	4
539	OKLAHOMA	50	0	N/A	N/A
572	OKLAHOMA	50	0	N/A	N/A
580	OKLAHOMA	1,560	320	2,074	3
918	OKLAHOMA	8031	0	N/A	N/A
458	OREGON	50	0	N/A	N/A
503	OREGON	3,273	151	2,127	4
541	OREGON	6,388	115	2,134	2
971	OREGON	111	0	N/A	N/A

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
215	PENNSYLVANIA	1,890	0	N/A	N/A
223	PENNSYLVANIA	50	0	N/A	N/A
267	PENNSYLVANIA	50	0	N/A	N/A
272	PENNSYLVANIA	145	0	N/A	N/A
412	PENNSYLVANIA	899	0	N/A	N/A
445	PENNSYLVANIA	50	0	N/A	N/A
484	PENNSYLVANIA	100	0	N/A	N/A
570	PENNSYLVANIA	5,892	0	N/A	N/A
582	PENNSYLVANIA	50	0	N/A	N/A
610	PENNSYLVANIA	3,048	0	N/A	N/A
717	PENNSYLVANIA	2,256	0	N/A	N/A
724	PENNSYLVANIA	2,927	0	N/A	N/A
814	PENNSYLVANIA	3,943	0	N/A	N/A
878	PENNSYLVANIA	50	0	N/A	N/A
787	PUERTO RICO	402	0	N/A	N/A
939	PUERTO RICO	50	0	N/A	N/A
401	RHODE ISLAND	1,135	0	N/A	N/A
803	SOUTH CAROLINA	4,214	0	N/A	N/A
839	SOUTH CAROLINA	50	0	N/A	N/A
843	SOUTH CAROLINA	3,948	0	N/A	N/A
854	SOUTH CAROLINA	50	0	N/A	N/A
864	SOUTH CAROLINA	3,619	50	2,344	3
605	SOUTH DAKOTA	2,823	125	2,153	2
423	TENNESSEE	4,703	70	2,235	3
615	TENNESSEE	4,509	255	2,077	3
629	TENNESSEE	50	0	N/A	N/A
731	TENNESSEE	2,253	0	N/A	N/A
865	TENNESSEE	2,088	0	N/A	N/A
901	TENNESSEE	2,428	0	N/A	N/A
931	TENNESSEE	3,988	150	2,123	3
210	TEXAS	7,187	30	2,443	1
214	TEXAS	8,214	800	2,031	3
254	TEXAS	8,208	265	2,060	2
281	TEXAS	11,126	921	2,026	3
325	TEXAS	8,090	20	2,612	3
346	TEXAS	50	0	N/A	N/A
361	TEXAS	7,138	120	2,123	1
409	TEXAS	3,652	195	2,100	4
430	TEXAS	1,202	20	2,956	4
432	TEXAS	3,321	45	2,387	3
469	TEXAS	3,494	45	2,383	4
512	TEXAS	10,000	20	2,516	1

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
682	TEXAS	8,035	85	2,157	4
713	TEXAS	3,096	895	2,035	4
726	TEXAS	50	0	N/A	N/A
737	TEXAS	50	0	N/A	N/A
806	TEXAS	9,094	120	2,107	4
817	TEXAS	6,706	1028	2,029	4
830	TEXAS	2,886	20	2,872	3
832	TEXAS	6,048	30	2,481	1
903	TEXAS	10,999	195	2,062	1
915	TEXAS	1,096	128	2,164	3
936	TEXAS	316	121	2,179	3
940	TEXAS	4,767	95	2,176	2
956	TEXAS	6,918	31	2,438	1
972	TEXAS	4,703	275	2,072	3
979	TEXAS	3,,408	445	2053	2
340	US VIRGIN ISLANDS	360	0	N/A	N/A
385	UTAH	50	0	N/A	N/A
435	UTAH	2,549	25	2,714	1
801	UTAH	2,337	300	2,075	4
802	VERMONT	1,650	5	5,,686	1
276	VIRGINIA	2,257	80	2,238	4
434	VIRGINIA	3,578	0	N/A	N/A
540	VIRGINIA	6,217	0	N/A	N/A
571	VIRGINIA	50	0	N/A	N/A
703	VIRGINIA	1,482	30	2,633	2
757	VIRGINIA	3,115	0	N/A	N/A
804	VIRGINIA	4,497	40	2,404	3
948	VIRGINIA	50	0	N/A	N/A
206	WASHINGTON	262	55	2,357	3
253	WASHINGTON	1,303	50	2,390	4
360	WASHINGTON	2,984	50	2,356	2
425	WASHINGTON	757	0	N/A	N/A
509	WASHINGTON	3,601	404	2,057	3
564	WASHINGTON	50	0	N/A	N/A
304	WEST VIRGINIA	10,275	60	2,178	1
681	WEST VIRGINIA	195	0	N/A	N/A
262	WISCONSIN	310	0	N/A	N/A
414	WISCONSIN	6,485	115	2,134	3
534	WISCONSIN	50	0	N/A	N/A
608	WISCONSIN	3,963	170	2,110	2
715	WISCONSIN	4,885	175	2,102	2
920	WISCONSIN	4,398	100	2,172	1

NPA	STATE_ABBR	TOTAL P-ANI	FORECASTED P-ANI	EXHAUST YEAR	EXHAUST QTR
307	WYOMING	3,909	135	2,135	1

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

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
281	TEXAS	11,126	921	2,026	3
817	TEXAS	6,706	1028	2,029	4
662	MISSISSIPPI	11,925	590	2,030	3
214	TEXAS	8,214	800	2,031	3
405	OKLAHOMA	14,211	392	2,031	4
816	MISSOURI	6,912	725	2,034	1
713	TEXAS	3,096	895	2,035	4
847	ILLINOIS	5,676	623	2,039	4
973	NEW JERSEY	11,513	335	2,041	2
708	ILLINOIS	8,944	408	2,043	1
618	ILLINOIS	10,680	261	2,052	3
979	TEXAS	3,408	445	2,053	2
208	IDAHO	5,961	367	2,054	2
606	KENTUCKY	4,171	386	2,057	1
509	WASHINGTON	3,601	404	2,057	3
254	TEXAS	8,208	265	2,060	2
903	TEXAS	10,999	195	2,062	1
913	KANSAS	3,599	332	2,065	2
228	MISSISSIPPI	2,446	350	2,066	1
972	TEXAS	4,703	275	2,072	3
580	OKLAHOMA	1,560	320	2,074	3
801	UTAH	2,337	300	2,075	4
615	TENNESSEE	4,509	255	2,077	3
336	NORTH CAROLINA	3,567	270	2,077	4
985	LOUISIANA	2,,627	260	2,083	4
402	NEBRASKA	8,293	169	2,085	2
309	ILLINOIS	4,733	211	2,088	2
860	CONNECTICUT	11,401	120	2,088	3
812	INDIANA	6,087	190	2,089	1
919	NORTH CAROLINA	3,442	225	2,090	3
330	OHIO	7,321	166	2,092	2
410	MARYLAND	4,692	200	2,093	3
317	INDIANA	4,245	200	2,095	4
205	ALABAMA	5,607	180	2,096	4
409	TEXAS	3,652	195	2,100	4

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
715	WISCONSIN	4,885	175	2,102	2
417	MISSOURI	4,776	176	2,102	3
609	NEW JERSEY	9,555	115	2,107	4
806	TEXAS	9,094	120	2,107	4
608	WISCONSIN	3,963	170	2,110	2
770	GEORGIA	2,265	185	2,112	4
815	ILLINOIS	4,032	161	2,115	1
928	ARIZONA	2,703	170	2,118	3
870	ARKANSAS	7,184	125	2,119	3
515	IOWA	8,368	111	2,121	4
478	GEORGIA	2,432	166	2,122	4
361	TEXAS	7,138	120	2,123	1
931	TENNESSEE	3,988	150	2,123	3
419	OHIO	6,096	130	2,123	4
503	OREGON	3,273	151	2,127	4
765	INDIANA	8,004	105	2,130	1
248	MICHIGAN	6,104	120	2,132	4
541	OREGON	6,388	115	2,134	2
414	WISCONSIN	6,485	115	2,134	3
305	FLORIDA	2,326	150	2,134	4
307	WYOMING	3,909	135	2,135	1
707	CALIFORNIA	6,727	111	2,136	3
908	NEW JERSEY	6,727	110	2,137	3
660	MISSOURI	2,801	140	2,139	4
856	NEW JERSEY	4,885	121	2,141	4
734	MICHIGAN	7,359	100	2,142	2
706	GEORGIA	5,897	111	2,143	1
270	KENTUCKY	4,812	120	2,143	3
229	GEORGIA	3,800	125	2,146	3
912	GEORGIA	3,503	125	2,148	4
440	OHIO	2,483	130	2,151	3
501	ARKANSAS	7,,762	90	2,152	4
605	SOUT DAKOTA	2,823	125	2,153	2
732	NEW JERSEY	8,685	81	2,156	3
682	TEXAS	8,035	85	2,157	4
915	TEXAS	1,096	128	2,164	3
505	NEW MEXICO	3,488	110	2,166	1
920	WISCONSIN	4,398	100	2,172	1
231	MICHIGAN	4,261	100	2,173	2
940	TEXAS	4,767	95	2,176	2
907	ALASKA	2,405	110	2,176	4

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
304	WEST VIRGINIA	10,275	60	2,178	1
302	DELAWARE	2,131	110	2,178	2
936	TEXAS	316	121	2,179	3
315	NEW YORK	7,776	75	2,179	4
507	MINNESOTA	2,881	100	2,187	1
260	INDIANA	2,162	100	2,194	2
678	GEORGIA	6,301	76	2,196	2
641	IOWA	1,930	100	2,197	3
224	ILLINOIS	8,888	61	2,198	1
712	IOWA	1,614	100	2,200	4
216	OHIO	1,155	100	2,204	2
563	IOWA	1,042	100	2,206	3
313	MICHIGAN	713	100	2,209	4
859	KENTUCKY	5,012	75	2,216	4
573	MISSOURI	3,775	80	2,219	4
308	NEBRASKA	2,652	84	2,223	3
218	MINNESOTA	3,659	75	2,234	4
423	TENNESSEE	4,703	70	2,235	3
276	VIRGINIA	2,257	80	2,238	4
701	NORTH DAKOTA	2,088	75	2,255	4
602	ARIZONA	1,985	75	2,256	1
785	KANSAS	7,811	50	2,260	4
858	CALIFORNIA	3,847	65	2,265	3
201	NEW JERSEY	9,408	40	2,281	4
406	MONTANA	5,259	55	2,284	1
518	NEW YORK	5,983	50	2,296	2
334	ALABAMA	5,602	50	2,304	4
312	ILLINOIS	4,887	50	2,318	2
719	COLORADO	4,248	50	2,331	1
323	GEORGIA	4,157	50	2,333	4
636	MISSOURI	2,428	55	2,335	2
314	MISSOURI	10,272	30	2,340	2
601	MISSISSIPP[I	5,276	45	2,343	1
256	ALABAMA	3,620	50	2,344	3
864	SOUTH CAROLINA	3,619	50	2,344	3
845	NEW YORK	3,392	50	2,348	1
213	CALIFORNIA	3,104	50	2,354	4
360	WASHINGTON	2,984	50	2,356	2
510	CALIFORNIA	2,683	51	2,356	3
206	WASHINGTON	1,262	55	2,357	3
407	FLORIDA	2,300	50	2,370	1

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
914	NEW YORK	2,275	50	2,370	3
301	MARYLAND	1,787	50	2,380	2
469	TEXAS	3,494	45	2,383	4
432	TEXAS	3,321	45	2,387	3
239	FLORIDA	1,412	50	2,388	4
253	WASHINGTON	1,303	50	2,390	4
813	FLORIDA	1,273	50	2,391	3
530	CALIFORNIA	8,409	30	2,402	2
804	VIRGINIA	4,497	40	2,404	3
551	NEW JERSEY	120	50	2,414	3
620	KANSAS	3,430	40	2,430	2
956	TEXAS	6,918	31	2,438	1
210	TEXAS	7,187	30	2,443	1
832	TEXAS	6,048	30	2,481	1
512	TEXAS	10,000	20	2,516	1
575	NEW MEXICO	1,933	35	2,532	1
970	COLORADO	4,365	30	2,537	1
479	ARKANSAS	3,805	30	2,556	4
760	CALIFORNIA	6,392	25	2,560	2
661	CALIFORNIA	2,378	30	2,603	2
325	TEXAS	8,090	20	2,612	3
703	VIRGINIA	1,482	30	2,633	2
978	MASSACHUSETTS	3,954	25	2,658	4
337	LOUISIANA	2,618	25	2,711	2
435	UTAH	2,549	25	2,714	1
502	KENTUCKY	2,137	25	2,731	3
504	LOUISIANA	1,678	25	2,749	4
252	NORTH CAROLINA	4,980	20	2,767	1
941	FLORIDA	961	24	2,809	2
828	NORTH CAROLINA	3,862	20	2,823	4
630	ILLINOIS	4,642	19	2,824	2
906	MICHIGAN	2,142	22	2,828	3
830	TEXAS	2,886	20	2,872	3
704	NORTH CAROLINA	2,369	20	2,898	3
904	FLORIDA	1,928	20	2,920	3
430	TEXAS	1,202	20	2,956	4
207	MAINE	7,714	10	3,245	3
626	CALIFORNIA	3,253	11	3,538	2
650	CALIFORNIA	3,057	11	3,556	2
831	CALIFORNIA	2,565	11	3,601	1
951	CALIFORNIA	3,131	10	3,703	4

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
561	FLORIDA	3,023	10	3,714	3
352	FLORIDA	2,664	10	3,750	3
772	FLORIDA	708	10	3,945	1
508	MASSACHUSETTS	7,540	5	4,508	1
802	VERMONT	1,650	5	5,686	1
251	ALABAMA	1,836	0	N/A	N/A
659	ALABAMA	50	0	N/A	N/A
938	ALABAMA	50	0	N/A	N/A
480	ARIZONA	511	0	N/A	N/A
520	ARIZONA	2,887	0	N/A	N/A
623	ARIZONA	136	0	N/A	N/A
209	CALIFORNIA	5,382	0	N/A	N/A
279	CALIFORNIA	50	0	N/A	N/A
310	CALIFORNIA	3,178	0	N/A	N/A
341	CALIFORNIA	50	0	N/A	N/A
408	CALIFORNIA	2,752	0	N/A	N/A
415	CALIFORNIA	1,916	0	N/A	N/A
424	CALIFORNIA	50	0	N/A	N/A
442	CALIFORNIA	90	0	N/A	N/A
559	CALIFORNIA	4,356	0	N/A	N/A
562	CALIFORNIA	3,204	0	N/A	N/A
619	CALIFORNIA	2,996	0	N/A	N/A
628	CALIFORNIA	60	0	N/A	N/A
657	CALIFORNIA	60	0	N/A	N/A
669	CALIFORNIA	50	0	N/A	N/A
714	CALIFORNIA	4,454	0	N/A	N/A
747	CALIFORNIA	50	0	N/A	N/A
805	CALIFORNIA	4,590	0	N/A	N/A
818	CALIFORNIA	1,165	0	N/A	N/A
820	CALIFORNIA	50	0	N/A	N/A
840	CALIFORNIA	50	0	N/A	N/A
909	CALIFORNIA	4,134	0	N/A	N/A
916	CALIFORNIA	3,594	0	N/A	N/A
925	CALIFORNIA	2,804	0	N/A	N/A
949	CALIFORNIA	1,488	0	N/A	N/A
303	COLORADO	4,405	0	N/A	N/A
720	COLORADO	675	0	N/A	N/A
203	CONNECTICUT	7,467	0	N/A	N/A
475	CONNECTICUT	1,206	0	N/A	N/A
959	CONNECTICUT	50	0	N/A	N/A
202	DISTRICT OF COLUMBIA	617	0	N/A	N/A

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
771	DISTRICT OF COLUMBIA	50	0	N/A	N/A
321	FLORIDA	2,202	0	N/A	N/A
386	FLORIDA	1,784	0	N/A	N/A
448	FLORIDA	50	0	N/A	N/A
689	FLORIDA	50	0	N/A	N/A
727	FLORIDA	958	0	N/A	N/A
754	FLORIDA	790	0	N/A	N/A
786	FLORIDA	202	0	N/A	N/A
850	FLORIDA	3,032	0	N/A	N/A
863	FLORIDA	1,547	0	N/A	N/A
954	FLORIDA	2,461	0	N/A	N/A
404	GEORGIA	2,642	0	N/A	N/A
470	GEORGIA	173	0	N/A	N/A
762	GEORGIA	50	0	N/A	N/A
808	HAWAII	1,584	0	N/A	N/A
986	IDAHO	50	0	N/A	N/A
217	ILLINOIS	5,566	0	N/A	N/A
331	ILLINOIS	75	0	N/A	N/A
447	ILLINOIS	50	0	N/A	N/A
773	ILLINOIS	50	0	N/A	N/A
779	ILLINOIS	140	0	N/A	N/A
872	ILLINOIS	50	0	N/A	N/A
219	INDIANA	4,149	0	N/A	N/A
463	INDIANA	50	0	N/A	N/A
574	INDIANA	2,111	0	N/A	N/A
930	INDIANA	50	0	N/A	N/A
319	IOWA	1,331	0	N/A	N/A
316	KANSAS	5,416	0	N/A	N/A
364	KENTUCKY	110	0	N/A	N/A
225	LOUISIANA	1,987	0	N/A	N/A
318	LOUISIANA	4,275	0	N/A	N/A
240	MARYLAND	565	0	N/A	N/A
443	MARYLAND	100	0	N/A	N/A
667	MARYLAND	85	0	N/A	N/A
339	MASSACHUSETTS	50	0	N/A	N/A
351	MASSACHUSETTS	60	0	N/A	N/A
413	MASSACHUSETTS	3,792	0	N/A	N/A
617	MASSACHUSETTS	1,180	0	N/A	N/A
774	MASSACHUSETTS	745	0	N/A	N/A
781	MASSACHUSETTS	2,685	0	N/A	N/A
857	MASSACHUSETTS	50	0	N/A	N/A

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
269	MICHIGAN	1,930	0	N/A	N/A
517	MICHIGAN	519	0	N/A	N/A
586	MICHIGAN	150	0	N/A	N/A
616	MICHIGAN	4,571	0	N/A	N/A
810	MICHIGAN	475	0	N/A	N/A
947	MICHIGAN	1,627	0	N/A	N/A
989	MICHIGAN	3,631	0	N/A	N/A
320	MINNESOTA	1,620	0	N/A	N/A
612	MINNESOTA	3,453	0	N/A	N/A
651	MINNESOTA	453	0	N/A	N/A
763	MINNESOTA	786	0	N/A	N/A
952	MINNESOTA	355	0	N/A	N/A
769	MISSISSIPPI	1,122	0	N/A	N/A
743	NORTH CAROLINA	50	0	N/A	N/A
910	NORTH CAROLINA	4,135	0	N/A	N/A
980	NORTH CAROLINA	370	0	N/A	N/A
984	NORTH CAROLINA	60	0	N/A	N/A
531	NEBRASKA	50	0	N/A	N/A
702	NEVADA	1,237	0	N/A	N/A
725	NEVADA	50	0	N/A	N/A
775	NEVADA	2,335	0	N/A	N/A
603	NEW HAMPSHIRE	1,360	0	N/A	N/A
640	NEW JERSEY	50	0	N/A	N/A
848	NEW JERSEY	55	0	N/A	N/A
862	NEW JERSEY	330	0	N/A	N/A
212	NEW YORK	5,135	0	N/A	N/A
332	NEW YORK	50	0	N/A	N/A
347	NEW YORK	50	0	N/A	N/A
516	NEW YORK	1,376	0	N/A	N/A
585	NEW YORK	2,001	0	N/A	N/A
607	NEW YORK	2,874	0	N/A	N/A
631	NEW YORK	1,854	0	N/A	N/A
646	NEW YORK	50	0	N/A	N/A
680	NEW YORK	50	0	N/A	N/A
716	NEW YORK	2,153	0	N/A	N/A
718	NEW YORK	4,191	0	N/A	N/A
838	NEW YORK	50	0	N/A	N/A
917	NEW YORK	50	0	N/A	N/A
929	NEW YORK	50	0	N/A	N/A
934	NEW YORK	50	0	N/A	N/A
220	OHIO	50	0	N/A	N/A

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
234	OHIO	305	0	N/A	N/A
326	OHIO	50	0	N/A	N/A
380	OHIO	50	0	N/A	N/A
513	OHIO	4,450	0	N/A	N/A
567	OHIO	299	0	N/A	N/A
614	OHIO	1,812	0	N/A	N/A
740	OHIO	7,061	0	N/A	N/A
937	OHIO	4,190	0	N/A	N/A
539	OKLAHOMA	50	0	N/A	N/A
572	OKLAHOMA	50	0	N/A	N/A
918	OKLAHOMA	8,031	0	N/A	N/A
458	OREGON	50	0	N/A	N/A
971	ORREGON	111	0	N/A	N/A
215	PENNSYLVANIA	1,890	0	N/A	N/A
223	PENNSYLVANIA	50	0	N/A	N/A
267	PENNSYLVANIA	50	0	N/A	N/A
272	PENNSYLVANIA	145	0	N/A	N/A
412	PENNSYLVANIA	899	0	N/A	N/A
445	PENNSYLVANIA	50	0	N/A	N/A
484	PENNSYLVANIA	100	0	N/A	N/A
570	PENNSYLVANIA	5,892	0	N/A	N/A
582	PENNSYLVANIA	50	0	N/A	N/A
610	PENNSYLVANIA	3,048	0	N/A	N/A
717	PENNSYLVANIA	2,256	0	N/A	N/A
724	PENNSYLVANIA	2,927	0	N/A	N/A
814	PENNSYLVANIA	3,943	0	N/A	N/A
878	PENNSYLVANIA	50	0	N/A	N/A
787	PUERTO RICO	402	0	N/A	N/A
939	PUERTO RICO	50	0	N/A	N/A
401	RHODE ISLAND	1,135	0	N/A	N/A
803	SOUTH CAROLINA	4,214	0	N/A	N/A
839	SOUTH CAROLINA	50	0	N/A	N/A
843	SOUTH CAROLINA	3,948	0	N/A	N/A
854	SOUTH CAROLINA	50	0	N/A	N/A
629	TENNESSEE	50	0	N/A	N/A
731	TENNESSEE	2,253	0	N/A	N/A
865	TENNESSEE	2,088	0	N/A	N/A
901	TENNESSEE	2,428	0	N/A	N/A
346	TEXAS	50	0	N/A	N/A
726	TEXAS	50	0	N/A	N/A
737	TEXAS	50	0	N/A	N/A

NPA	STATE_ABBR	Total p_ANI	Forecasted p_ANI	Exhaust Year	Exhaust Qtr
340	US VIRGIN ISLANDS	360	0	N/A	N/A
385	UTAH	50	0	N/A	N/A
434	VIRGINIA	3,578	0	N/A	N/A
540	VIRGINIA	6,217	0	N/A	N/A
571	VIRGINIA	50	0	N/A	N/A
757	VIRGINIA	3,115	0	N/A	N/A
948	VIRGINIA	50	0	N/A	N/A
425	WASHINGTON	757	0	N/A	N/A
564	WASHINGTON	50	0	N/A	N/A
262	WISCONSIN	310	0	N/A	N/A
534	WISCONSIN	50	0	N/A	N/A
681	WEST VIRGINIA	195	0	N/A	N/A

ATTACHMENT 7
2021 NPA EXHAUST PROJECTIONS

NANPA projects NPA exhaust on a semi-annual basis in April and October of each calendar year. Tables 6-1 through 6-3 below show the exhaust projections for each NPA, based on the analysis performed in April 2021 (2021.1) and October 2021 (2021.2)[28]. 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 normally provides only one projection per year. Change is from last forecast provided.
d. Canadian NPA. 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.

Table 6-1
Projected Exhaust Dates by NPA

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
NEW JERSEY	201/551	2045	3Q	2048	1Q	-10Q	b,h
DISTRICT OF COLUMBIA	202	2021	4Q	2021	3Q	1Q	a
CONNECTICUT	203/475	2049	1Q	2046	3Q	10Q	a,h
CANADA	204/431			2035	1Q		c
ALABAMA	205/659	2035	4Q	2036	1Q	-1Q	b
WASHINGTON	206	2026	1Q	2025	4Q	1Q	a
MAINE	207	2025	1Q	2024	4Q	1Q	a
IDAHO	208/986	2042	3Q	2044	4Q	-9Q	b,h
CALIFORNIA	209	2022	4Q	2022	4Q	N/C	
TEXAS	210/726	2058	4Q	2063	4Q	-20Q	b,h
NEW YORK	212/646/332	2049	4Q	2050	2Q	-2Q	b,h
CALIFORNIA	213/323	2026	2Q	2026	3Q	-1Q	b
TEXAS	214/469/945/972	2031	4Q	2032	1Q	-1Q	b
PENNSYLVANIA	215/267/445	2055	3Q	2054	2Q	5Q	a,h
OHIO	216	2038	1Q	2038	3Q	-2Q	b,h

[28] The full NRUF Exhaust Report detailing three full years of projected forecasts, from 2019.1 through 2021.2 can be found on the NANPA website at https://www.nationalnanpa.com/reports/reports_npa.html.

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
ILLINOIS	217/447	2035	1Q	2078	1Q	-172Q	b
MINNESOTA	218	2029	1Q	2031	3Q	-10Q	b,h
INDIANA	219	2043	4Q	2046	4Q	-12Q	b,h
OHIO	220/740	2051	3Q	2086	1Q	-138Q	b,h
PENNSYLVANIA	223/717	2038	2Q	2043	4Q	-22Q	b,h
ILLINOIS	224/847	2033	1Q	2036	1Q	-12Q	b,h
LOUISIANA	225	2048	4Q	2062	1Q	-53Q	b,h
CANADA	226/519/548			2034	3Q		c
MISSISSIPPI	228	2102	2Q	2104	1Q	-7Q	b,h
GEORGIA	229	2030	2Q	2034	3Q	-17Q	b,h
MICHIGAN	231	2034	3Q	2048	3Q	-56Q	b,h
OHIO	234/330	2038	4Q	2045	2Q	-26Q	b,h
CANADA	236/250/604/672/778			2040	2Q		c
FLORIDA	239	2040	2Q	2040	4Q	-2Q	b,h
MARYLAND	240/301	2024	2Q	2024	4Q	-2Q	b
MICHIGAN	248/947	2053	4Q	2060	4Q	-28Q	b,h
CANADA	249/705			2042	3Q		c
ALABAMA	251	2036	3Q	2041	1Q	-18Q	b,h
NORTH CAROLINA	252	2030	4Q	2036	3Q	-23Q	b,h
WASHINGTON	253	2052	1Q	2058	2Q	-25Q	b,h
TEXAS	254	2028	3Q	2029	4Q	-5Q	b,h
ALABAMA	256/938	2045	4Q	2050	3Q	-19Q	b,h
INDIANA	260	2049	2Q	2057	1Q	-31Q	b,h
WISCONSIN	262	2033	3Q	2039	4Q	-25Q	b,h
MICHIGAN	269	2041	3Q	2055	3Q	-56Q	b,h
KENTUCKY	270/364	2082	2Q	2102	1Q	-79Q	b,h
PENNSYLVANIA	272/570	2043	1Q	2053	3Q	-42Q	b,h
VIRGINIA	276	2051	3Q	2054	1Q	-10Q	b,h
CALIFORNIA	279/916	2047	3Q	2054	4Q	-29Q	b,h
TEXAS	281/346/713/832	2027	1Q	2028	1Q	-4Q	b
CANADA	289/365/905			2039	3Q		c
DELAWARE	302	2033	2Q	2035	1Q	-7Q	b
COLORADO	303/720	2023	2Q	2022	4Q	2Q	a
WEST VIRGINIA	304/681	2030	3Q	2031	3Q	-4Q	b
FLORIDA	305/786	2024	1Q	2024	4Q	-3Q	b
CANADA	306/639			2035	3Q		c
WYOMING	307	2041	3Q	2045	1Q	-14Q	b,h
NEBRASKA	308	2030	4Q	2040	1Q	-37Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
ILLINOIS	309	2023	4Q	2024	2Q	-2Q	b
CALIFORNIA	310/424	2045	2Q	2045	2Q	N/C	
ILLINOIS	312/773/872	2049	4Q	2050	1Q	-1Q	b,h
MICHIGAN	313	2025	2Q	2025	3Q	-1Q	b
MISSOURI	314	2022	3Q	2023	2Q	-3Q	b
NEW YORK	315/680	2039	2Q	2053	4Q	-58Q	b,h
KANSAS	316	2056	2Q	2075	2Q	-76Q	b,h
INDIANA	317/463	2048	1Q	2052	2Q	-17Q	b,h
LOUISIANA	318	2028	1Q	2030	2Q	-9Q	b
IOWA	319	2047	1Q	2050	3Q	-14Q	b,h
MINNESOTA	320	2042	3Q	2045	4Q	-13Q	b,h
FLORIDA	321/407/689	2043	4Q	2070	4Q	-108Q	b,h
FLORIDA	321A	2049	2Q	2078	3Q	-117Q	b,g,h
TEXAS	325	2043	3Q	2049	3Q	-24Q	b,h
OHIO	326/937	2057	2Q	2067	2Q	-40Q	b,h
ILLINOIS	331/630	2063	4Q	2073	4Q	-40Q	b,h
ALABAMA	334	2025	4Q	2026	2Q	-2Q	b
NORTH CAROLINA	336/743	2052	2Q	2055	4Q	-14Q	b,h
LOUISIANA	337	2052	1Q	2054	1Q	-8Q	b,h
MASSACHUSETTS	339/781	2087	1Q	2122	1Q	-140Q	b'h
VIRGIN ISLANDS	340	2090	1Q	2097	1Q	-28Q	b,h
CALIFORNIA	341/510	2057	4Q	2063	2Q	-22Q	b,h
CANADA	343/613			2032	2Q		c
NEW YORK	347/718/929	2028	2Q	2028	4Q	-2Q	b
MASSACHUSETTS	351/978	2064	2Q	2102	2Q	-152Q	b,h
FLORIDA	352	2026	3Q	2028	3Q	-8Q	b
WASHINGTON	360/564	2066	4Q	2078	3Q	-47Q	b,h
TEXAS	361	2039	4Q	2049	1Q	-37Q	b,h
OHIO	380/614	2060	1Q	2078	3Q	-29Q	b,h
UTAH	385/801	2032	4Q	2034	3Q	-7Q	b
FLORIDA	386	2041	2Q	2045	3Q	-17Q	b,h
RHODE ISLAND	401	2053	3Q	2068	3Q	-60Q	b,h
NEBRASKA	402/531	2045	4Q	2052	1Q	-25Q	b,h
CANADA	403/587/780/825			2041	1Q		c
GEORGIA	404/470/678/770	2022	2Q	2022	2Q	N/C	
OKLAHOMA	405/572	2050	2Q	2022	2Q	112Q	f
MONTANA	406	2027	3Q	2028	2Q	-3Q	b
CALIFORNIA	408/669	2055	3Q	2061	1Q	-22Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
TEXAS	409	2047	1Q	2055	1Q	-32Q	b,h
MARYLAND	410/443/667	2031	4Q	2040	1Q	-33Q	b
PENNSYLVANIA	412/724/878	2043	2Q	2046	3Q	-13Q	b,h
MASSACHUSETTS	413	2030	2Q	2041	1Q	-43Q	b,h
WISCONSIN	414	2048	1Q	2049	4Q	-7Q	b,h
CALIFORNIA	415/628	2059	3Q	2063	1Q	-14	b,h
CANADA	416/437/647			2038	1Q		c
MISSOURI	417	2028	1Q	2027	4Q	1Q	a
CANADA	418/581/367			2037	3Q		c
OHIO	419/567	2039	1Q	2045	2Q	-25Q	b,h
TENNESSEE	423	2026	2Q	2027	4Q	-6Q	b
WASHINGTON	425	2035	2Q	2040	1Q	-19Q	b
TEXAS	430/903	2037	1Q	2040	1Q	-12Q	b,h
TEXAS	432	2054	3Q	2070	3Q	-64Q	b,h
VIRGINIA	434	2034	3Q	2035	4Q	-5Q	b,h
UTAH	435	2044	1Q	2052	2Q	-33Q	b,h
CANADA	438/514			2036	4Q		c
OHIO	440	2025	2Q	2030	1Q	-19Q	b
CALIFORNIA	442/760	2035	4Q	2036	3Q	-3Q	b,h
FLORIDA	448/850	2053	2Q	2021	3Q	127Q	a,f
CANADA	450/579			2046	2Q		c
OREGON	458/541	2055	4Q	2062	4Q	-28Q	b,h
GEORGIA	478	2046	3Q	2062	1Q	-62Q	b,h
ARKANSAS	479	2033	1Q	2035	1Q	-8Q	b
ARIZONA	480	2024	1Q	2024	1Q	N/C	
PENNSYLVANIA	484/610	2023	2Q	2023	2Q	N/C	
ARKANSAS	501	2030	4Q	2033	1Q	-9Q	b,h
KENTUCKY	502	2031	2Q	2036	2Q	-20Q	b
OREGON	503/971	2041	3Q	2042	2Q	-3Q	b,h
LOUISIANA	504	2065	2Q	2061	2Q	16Q	a,h
NEW MEXICO	505	2030	2Q	2032	4Q	-10Q	b
CANADA	506			2024	1Q		c
MINNESOTA	507	2025	2Q	2025	4Q	-2Q	b
MASSACHUSETTS	508/774	2029	4Q	2041	4Q	-48Q	b
WASHINGTON	509	2025	1Q	2024	3Q	2Q	a
TEXAS	512/737	2036	2Q	2036	3Q	-1Q	b
OHIO	513	2023	4Q	2023	2Q	2Q	a
IOWA	515	2038	4Q	2037	4Q	4Q	a

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
NEW YORK	516	2023	2Q	2023	3Q	-1Q	b
MICHIGAN	517	2038	1Q	2048	3Q	-42Q	b,h
NEW YORK	518/838	2031	4Q	2042	3Q	-43Q	b,h
ARIZONA	520	2029	3Q	2030	1Q	-2Q	b,h
CALIFORNIA	530	2028	2Q	2029	3Q	-5Q	b
WISCONSIN	534/715	2058	3Q	2071	2Q	-51Q	b,h
OKLAHOMA	539/918	2048	2Q	2053	3Q	-21Q	b,h
VIRGINIA	540	2022	2Q	2022	2Q	N/C	
CALIFORNIA	559	2029	3Q	2034	1Q	-18Q	b
FLORIDA	561	2023	3Q	2024	3Q	-4Q	b
CALIFORNIA	562	2032	3Q	2034	3Q	-8Q	b
IOWA	563	2047	4Q	2052	1Q	-17Q	b,h
VIRGINIA	571/703	2030	4Q	2031	3Q	-3Q	b
MISSOURI	573	2025	1Q	2025	1Q	N/C	
INDIANA	574	2061	1Q	2067	1Q	-24Q	b,h
NEW MEXICO	575	2044	1Q	2049	2Q	-21Q	b,h
OKLAHOMA	580	2029	3Q	2031	1Q	-6Q	b
PENNSYLVANIA	582/814	2050	2Q	2093	3Q	-173Q	b
NEW YORK	585	2026	2Q	2029	4Q	-14Q	b
MICHIGAN	586	2058	4Q	2090	4Q	-128Q	b,h
MISSISSIPPI	601/769	2048	2Q	2073	4Q	-102Q	b,h
ARIZONA	602	2026	2Q	2026	2Q	N/C	
NEW HAMPSHIRE	603	2028	2Q	2028	4Q	-2Q	b
SOUTH DAKOTA	605	2025	3Q	2027	4Q	-9Q	b
KENTUCKY	606	2048	4Q	2046	2Q	10Q	a,h
NEW YORK	607	2033	3Q	2041	3Q	-32Q	b,h
WISCONSIN	608	2025	2Q	2025	1Q	1Q	a
NEW JERSEY	609/640	2056	3Q	2072	4Q	-65Q	b,h
MINNESOTA	612	2040	2Q	2038	1Q	9Q	a
TENNESSEE	615/629	2058	2Q	2066	4Q	-34Q	b,h
MICHIGAN	616	2042	3Q	2048	2Q	-23Q	b
MASSACHUSETTS	617/857	2043	3Q	2052	2Q	-35Q	b,h
ILLINOIS	618	2025	4Q	2026	2Q	-2Q	b
CALIFORNIA	619/858	2030	2Q	2031	4Q	-6Q	b
KANSAS	620	2030	2Q	2032	4Q	-10Q	b
ARIZONA	623	2069	4Q	2069	4Q	N/C	h
CALIFORNIA	626	2029	3Q	2031	3Q	-8Q	b
NEW YORK	631/934	2044	2Q	2061	3Q	-69Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
MISSOURI	636	2063	1Q	2078	2Q	-61Q	b,h
IOWA	641	2039	2Q	2042	1Q	-11Q	b,h
CALIFORNIA	650	2034	4Q	2033	2Q	6Q	a
MINNESOTA	651	2055	3Q	2055	3Q	N/C	h
CALIFORNIA	657/714	2027	4Q	2029	1Q	-5Q	b
MISSOURI	660	2047	2Q	2047	2Q	N/C	h
CALIFORNIA	661	2033	1Q	2032	4Q	1Q	a
MISSISSIPPI	662	2033	4Q	2036	2Q	-10Q	b
CNMI	670	2110	1Q	2112	1Q	-8Q	b,h
GUAM	671	2150	1Q	2150	1Q	N/C	h
TEXAS	682/817	2038	2Q	2039	2Q	-4Q	b,h
AMERICAN SAMOA	684			2186	1Q		h
NORTH DAKOTA	701	2026	4Q	2026	1Q	3Q	a
NEVADA	702/725	2050	2Q	2055	3Q	-21Q	b,h
NORTH CAROLINA	704/980	2040	1Q	2042	2Q	-9Q	b
GEORGIA	706/762	2032	4Q	2042	3Q	-39Q	b,h
CALIFORNIA	707	2023	4Q	2023	4Q	N/C	
ILLINOIS	708	2022	1Q	2022	1Q	N/C	
CANADA	709			2026	3Q		c
IOWA	712	2031	3Q	2032	3Q	-4Q	b
NEW YORK	716	2025	2Q	2027	1Q	-7Q	b
COLORADO	719	2036	1Q	2034	4Q	5Q	a
FLORIDA	727	2035	3Q	2036	2Q	-3Q	b
TENNESSEE	731	2088	1Q	2089	2Q	-5Q	b,h
NEW JERSEY	732/848	2043	1Q	2044	2Q	-5Q	b,h
MICHIGAN	734	2029	2Q	2032	4Q	-14Q	b
CALIFORNIA	747/818	2048	4Q	2050	2Q	-6Q	b,h
FLORIDA	754/954	2047	1Q	2052	3Q	-22Q	b,h
VIRGINIA	757	2022	1Q	2022	1Q	N/C	
MINNESOTA	763	2066	4Q	2066	3Q	1Q	a,h
INDIANA	765	2027	4Q	2032	2Q	-18Q	b
FLORIDA	772	2060	1Q	2069	1Q	-36Q	b,h
NEVADA	775	2040	2Q	2045	1Q	-19Q	b,h
ILLINOIS	779/815	2033	4Q	2034	2Q	-2Q	b,h
CANADA	782/902			2029	4Q		c
KANSAS	785	2027	1Q	2030	1Q	-12Q	b
PUERTO RICO	787/939	2049	2Q	2053	2Q	-16Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
VERMONT	802	2034	4Q	2038	4Q	-16Q	b,h
SOUTH CAROLINA	803/839	2052	2Q	2055	1Q	-11Q	b,h
VIRGINIA	804	2025	3Q	2025	3Q	N/C	
CALIFORNIA	805/820	2068	4Q	2076	2Q	-30Q	b,h
TEXAS	806	2026	3Q	2027	1Q	-2Q	b
CANADA	807			2043	1Q		c
HAWAII	808	2035	3Q	2040	4Q	-21Q	b
MICHIGAN	810	2049	2Q	2077	4Q	-114Q	b,h
INDIANA	812/930	2044	3Q	2048	3Q	-16Q	b,h
FLORIDA	813	2022	1Q	2022	1Q	N/C	
MISSOURI	816	2023	3Q	2024	3Q	-4Q	b
CANADA	819/873			2034	3Q		c
NORTH CAROLINA	828	2031	4Q	2038	1Q	-25Q	b
TEXAS	830	2050	3Q	2066	1Q	-62Q	b,h
CALIFORNIA	831	2087	4Q	2097	4Q	-40Q	b,h
CALIFORNIA	840/909	2046	4Q	2048	2Q	-6Q	b
SOUTH CAROLINA	843/854	2052	4Q	2052	1Q	3Q	a,h
NEW YORK	845	2024	3Q	2024	3Q	N/C	
NEW JERSEY	856	2032	1Q	2039	4Q	-31Q	b
KENTUCKY	859	2051	4Q	2065	3Q	-55Q	b,h
CONNECTICUT	860/959	2052	1Q	2058	3Q	-26Q	b,h
NEW JERSEY	862/973	2038	1Q	2044	1Q	-24Q	b,h
FLORIDA	863	2050	3Q	2064	2Q	-55Q	b,h
SOUTH CAROLINA	864	2025	3Q	2025	3Q	N/C	
TENNESSEE	865	2063	4Q	2068	4Q	-20Q	b,h
CANADA	867			2043	1Q		c
ARKANSAS	870	2025	1Q	2025	1Q	N/C	
TENNESSEE	901	2036	4Q	2038	2Q	-6Q	b
FLORIDA	904	2024	4Q	2025	1Q	-1Q	b
MICHIGAN	906	2087	2Q	2133	1Q	-183Q	b,h
ALASKA	907	2043	4Q	2055	3Q	-47Q	b,h
NEW JERSEY	908	2028	3Q	2030	4Q	-9Q	b
NORTH CAROLINA	910	2022	4Q	2023	2Q	-2Q	b
GEORGIA	912	2028	2Q	2031	4Q	-14Q	b
KANSAS	913	2042	2Q	2046	1Q	-15Q	b
NEW YORK	914	2027	1Q	2031	1Q	-16Q	b
TEXAS	915	2060	4Q	2083	1Q	-89Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
NEW YORK	917						e
NORTH CAROLINA	919/984	2046	3Q	2049	4Q	-13Q	b,h
WISCONSIN	920	2025	3Q	2027	1Q	-6Q	b
CALIFORNIA	925	2041	3Q	2043	2Q	-7Q	b,h
ARIZONA	928	2030	1Q	2030	3Q	-2Q	b,h
TENNESSEE	931	2062	2Q	2062	2Q	N/C	h
TEXAS	936	2043	4Q	2053	1Q	-37Q	b,h
TEXAS	940	2038	2Q	2040	4Q	-10Q	b,h
FLORIDA	941	2048	1Q	2054	3Q	-26Q	b,h
CALIFORNIA	949	2026	1Q	2026	4Q	-3Q	b
CALIFORNIA	951	2030	1Q	2030	4Q	-3Q	b
MINNESOTA	952	2106	1Q	2098	1Q	32Q	a,h
TEXAS	956	2027	2Q	2027	3Q	-1Q	b
COLORADO	970	2028	2Q	2028	2Q	N/C	
TEXAS	979	2056	3Q	2074	2Q	-71Q	b,h
LOUISIANA	985	2060	3Q	2075	4Q	-61Q	b,h
MICHIGAN	989	2027	1Q	2031	2Q	-17Q	b

Table 6-2
Projected Exhaust Dates by Exhaust Date

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
DISTRICT OF COLUMBIA	202	2021	4Q	2021	3Q	1Q	a
ILLINOIS	708	2022	1Q	2022	1Q	N/C	
VIRGINIA	757	2022	1Q	2022	1Q	N/C	
FLORIDA	813	2022	1Q	2022	1Q	N/C	
GEORGIA	404/470/678/770	2022	2Q	2022	2Q	N/C	
VIRGINIA	540	2022	2Q	2022	2Q	N/C	
MISSOURI	314	2022	3Q	2023	2Q	-3Q	b
CALIFORNIA	209	2022	4Q	2022	4Q	N/C	
NORTH CAROLINA	910	2022	4Q	2023	2Q	-2Q	b
COLORADO	303/720	2023	2Q	2022	4Q	2Q	a
PENNSYLVANIA	484/610	2023	2Q	2024	2Q	-4Q	b
NEW YORK	516	2023	2Q	2023	3Q	-1Q	b
FLORIDA	561	2023	3Q	2024	3Q	-4Q	b
MISSOURI	816	2023	3Q	2024	3Q	-4Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
ILLINOIS	309	2023	4Q	2024	2Q	-2Q	b
OHIO	513	2023	4Q	2024	2Q	2Q	a
CALIFORNIA	707	2023	4Q	2023	4Q	N/C	
FLORIDA	305/786	2024	1Q	2024	4Q	-3Q	b
ARIZONA	480	2024	1Q	2024	1Q	N/C	
MARYLAND	240/301	2024	2Q	2024	4Q	-2Q	b
NEW YORK	845	2024	3Q	2024	3Q	N/C	
FLORIDA	904	2024	4Q	2025	1Q	-1Q	b
MAINE	207	2025	1Q	2024	4Q	1Q	a
WASHINGTON	509	2025	1Q	2024	3Q	2Q	a
MISSOURI	573	2025	1Q	2025	1Q	N/C	
ARKANSAS	870	2025	1Q	2025	1Q	N/C	
MICHIGAN	313	2025	2Q	2025	3Q	-1Q	b
OHIO	440	2025	2Q	2030	1Q	-19Q	b
MINNESOTA	507	2025	2Q	2025	4Q	-2Q	b
WISCONSIN	608	2025	2Q	2025	1Q	1Q	a
NEW YORK	716	2025	2Q	2027	1Q	-7Q	b
SOUTH DAKOTA	605	2025	3Q	2027	4Q	-9Q	b,h
VIRGINIA	804	2025	3Q	2025	3Q	N/C	
SOUTH CAROLINA	864	2025	3Q	2025	3Q	N/C	
WISCONSIN	920	2025	3Q	2027	1Q	-6Q	b
ALABAMA	334	2025	4Q	2026	2Q	-2Q	b
ILLINOIS	618	2025	4Q	2026	2Q	-2Q	b
WASHINGTON	206	2026	1Q	2025	4Q	1Q	a
CALIFORNIA	949	2026	1Q	2026	4Q	-3Q	b
CALIFORNIA	213/323	2026	2Q	2026	3Q	-1Q	b
TENNESSEE	423	2026	2Q	2027	4Q	-6Q	b
NEW YORK	585	2026	2Q	2029	4Q	-14Q	b
ARIZONA	602	2026	2Q	2026	2Q	N/C	
FLORIDA	352	2026	3Q	2028	3Q	-8Q	b
TEXAS	806	2026	3Q	2027	1Q	-2Q	b
NORTH DAKOTA	701	2026	4Q	2026	1Q	3Q	a
TEXAS	281/346/713/832	2027	1Q	2028	1Q	-4Q	b
KANSAS	785	2027	1Q	2030	1Q	-12Q	b
NEW YORK	914	2027	1Q	2031	1Q	-16Q	b
MICHIGAN	989	2027	1Q	2031	2Q	-17Q	b
TEXAS	956	2027	2Q	2027	3Q	-1Q	b
MONTANA	406	2027	3Q	2028	2Q	-3Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
CALIFORNIA	657/714	2027	4Q	2029	1Q	-5Q	b
INDIANA	765	2027	4Q	2032	2Q	-18Q	b,h
LOUISIANA	318	2028	1Q	2030	2Q	-9Q	b
MISSOURI	417	2028	1Q	2027	4Q	1Q	a
NEW YORK	347/718/929	2028	2Q	2028	4Q	-2Q	b
CALIFORNIA	530	2028	2Q	2029	3Q	-5Q	b
NEW HAMPSHIRE	603	2028	2Q	2028	4Q	-2Q	b
GEORGIA	912	2028	2Q	2031	4Q	-14Q	b,h
COLORADO	970	2028	2Q	2028	2Q	N/C	
TEXAS	254	2028	3Q	2029	4Q	-5Q	b,h
NEW JERSEY	908	2028	3Q	2030	4Q	-9Q	b
MINNESOTA	218	2029	1Q	2031	3Q	-10Q	b,h
MICHIGAN	734	2029	2Q	2032	4Q	-14Q	b
ARIZONA	520	2029	3Q	2030	1Q	-2Q	b,h
CALIFORNIA	559	2029	3Q	2034	1Q	-18Q	b
OKLAHOMA	580	2029	3Q	2031	1Q	-6Q	b
CALIFORNIA	626	2029	3Q	2031	3Q	-8Q	b
MASSACHUSETTS	508/774	2029	4Q	2041	4Q	-48Q	b
ARIZONA	928	2030	1Q	2030	3Q	-2Q	b,h
CALIFORNIA	951	2030	1Q	2030	4Q	-3Q	b
GEORGIA	229	2030	2Q	2034	3Q	-17Q	b,h
MASSACHUSETTS	413	2030	2Q	2041	1Q	-43Q	b,h
NEW MEXICO	505	2030	2Q	2032	4Q	-10Q	b
CALIFORNIA	619/858	2030	2Q	2031	4Q	-6Q	b
KANSAS	620	2030	2Q	2032	4Q	-10Q	b
WEST VIRGINIA	304/681	2030	3Q	2031	3Q	-4Q	b
NORTH CAROLINA	252	2030	4Q	2036	3Q	-23Q	b,h
NEBRASKA	308	2030	4Q	2040	1Q	-37Q	b,h
ARKANSAS	501	2030	4Q	2033	1Q	-9Q	b,h
VIRGINIA	571/703	2030	4Q	2031	3Q	-3Q	b
KENTUCKY	502	2031	2Q	2036	2Q	-20Q	b
IOWA	712	2031	3Q	2032	3Q	-4Q	b
TEXAS	214/469/945/972	2031	4Q	2032	1Q	-1Q	b
MARYLAND	410/443/667	2031	4Q	2040	1Q	-33Q	b
NEW YORK	518/838	2031	4Q	2042	3Q	-43Q	b,h
NORTH CAROLINA	828	2031	4Q	2038	1Q	-25Q	b
NEW JERSEY	856	2032	1Q	2039	4Q	-31Q	b,h
CALIFORNIA	562	2032	3Q	2034	3Q	-8Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
UTAH	385/801	2032	4Q	2034	3Q	-7Q	b
GEORGIA	706/762	2032	4Q	2042	3Q	-39Q	b,h
ILLINOIS	224/847	2033	1Q	2036	1Q	-12Q	b,h
ARKANSAS	479	2033	1Q	2035	1Q	-8Q	b
CALIFORNIA	661	2033	1Q	2032	4Q	1Q	a
DELAWARE	302	2033	2Q	2035	1Q	-7Q	b
WISCONSIN	262	2033	3Q	2039	4Q	-25Q	b,h
NEW YORK	607	2033	3Q	2041	3Q	-32Q	b,h
MISSISSIPPI	662	2033	4Q	2036	2Q	-10Q	b
ILLINOIS	779/815	2033	4Q	2034	2Q	-2Q	b,h
MICHIGAN	231	2034	3Q	2048	3Q	-56Q	b,h
VIRGINIA	434	2034	3Q	2035	4Q	-5Q	b,h
CALIFORNIA	650	2034	4Q	2033	2Q	6Q	a
VERMONT	802	2034	4Q	2038	4Q	-16Q	b,h
ILLINOIS	217/447	2035	1Q	2078	1Q	-172Q	b
WASHINGTON	425	2035	2Q	2040	1Q	-19Q	b,h
FLORIDA	727	2035	3Q	2036	2Q	-3Q	b
HAWAII	808	2035	3Q	2040	4Q	-21Q	b
ALABAMA	205/659	2035	4Q	2036	1Q	-1Q	b
CALIFORNIA	442/760	2035	4Q	2036	3Q	-3Q	b,h
COLORADO	719	2036	1Q	2034	4Q	5Q	a
TEXAS	512/737	2036	2Q	2036	3Q	-1Q	b
ALABAMA	251	2036	3Q	2041	1Q	-18Q	b,h
TENNESSEE	901	2036	4Q	2038	2Q	-6Q	b
TEXAS	430/903	2037	1Q	2040	1Q	-12Q	b,h
OHIO	216	2038	1Q	2038	3Q	-2Q	b,h
MICHIGAN	517	2038	1Q	2048	3Q	-42Q	b,h
NEW JERSEY	862/973	2038	1Q	2044	1Q	-24Q	b,h
PENNSYLVANIA	223/717	2038	2Q	2043	4Q	-22Q	b,h
TEXAS	682/817	2038	2Q	2039	2Q	-4Q	b,h
TEXAS	940	2038	2Q	2040	4Q	-10Q	b,h
OHIO	234/330	2038	4Q	2045	2Q	-26Q	b,h
IOWA	515	2038	4Q	2037	4Q	4Q	a
OHIO	419/567	2039	1Q	2045	2Q	-25Q	b,h
NEW YORK	315/680	2039	2Q	2053	4Q	-58Q	b,h
IOWA	641	2039	2Q	2042	1Q	-11Q	b,h
TEXAS	361	2039	4Q	2049	1Q	-37Q	b,h
NORTH CAROLINA	704/980	2040	1Q	2042	2Q	-9Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
FLORIDA	239	2040	2Q	2040	4Q	-2Q	b,h
MINNESOTA	612	2040	2Q	2038	1Q	9Q	a
NEVADA	775	2040	2Q	2045	1Q	-19Q	b,h
FLORIDA	386	2041	2Q	2045	3Q	-17Q	b,h
MICHIGAN	269	2041	3Q	2055	3Q	-56Q	b,h
WYOMING	307	2041	3Q	2045	1Q	-14Q	b,h
OREGON	503/971	2041	3Q	2042	2Q	-3Q	b,h
CALIFORNIA	925	2041	3Q	2043	2Q	-7Q	b,h
KANSAS	913	2042	2Q	2046	1Q	-15Q	b
IDAHO	208/986	2042	3Q	2044	4Q	-9Q	b,h
MINNESOTA	320	2042	3Q	2045	4Q	-13Q	b,h
MICHIGAN	616	2042	3Q	2048	2Q	-23Q	b,h
PENNSYLVANIA	272/570	2043	1Q	2053	3Q	-42Q	b,h
NEW JERSEY	732/848	2043	1Q	2044	2Q	-5Q	b,h
PENNSYLVANIA	412/724/878	2043	2Q	2046	3Q	-13Q	b,h
TEXAS	325	2043	3Q	2049	3Q	-24Q	b,h
MASSACHUSETTS	617/857	2043	3Q	2052	2Q	-35Q	b,h
INDIANA	219	2043	4Q	2046	4Q	-12Q	b,h
FLORIDA	321/407/689	2043	4Q	2070	7Q	-108Q	b,h
ALASKA	907	2043	4Q	2055	3Q	-47Q	b,h
TEXAS	936	2043	4Q	2053	1Q	-37Q	b,h
UTAH	435	2044	1Q	2052	2Q	-33Q	b,h
NEW MEXICO	575	2044	1Q	2049	2Q	-21Q	b,h
NEW YORK	631/934	2044	2Q	2061	3Q	-69Q	b,h
INDIANA	812/930	2044	3Q	2048	3Q	-16Q	b,h
CALIFORNIA	310/424	2045	2Q	2045	2Q	N/C	
NEW JERSEY	201/551	2045	3Q	2048	1Q	-10Q	b,h
ALABAMA	256/938	2045	4Q	2050	3Q	-19Q	b,h
NEBRASKA	402/531	2045	4Q	2052	1Q	-25Q	b,h
GEORGIA	478	2046	3Q	2062	1Q	-62Q	b,h
NORTH CAROLINA	919/984	2046	3Q	2049	4Q	-13Q	b,h
CALIFORNIA	840/909	2046	4Q	2048	2Q	-6Q	b
IOWA	319	2047	1Q	2050	3Q	-14Q	b,h
TEXAS	409	2047	1Q	2055	1Q	-32Q	b,h
FLORIDA	754/954	2047	1Q	2052	3Q	-22Q	b,h
MISSOURI	660	2047	2Q	2047	2Q	N/C	h
CALIFORNIA	279/916	2047	3Q	2054	4Q	-29Q	b,h
IOWA	563	2047	4Q	2052	1Q	-17Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
INDIANA	317/463	2048	1Q	2052	2Q	-17Q	b,h
WISCONSIN	414	2048	1Q	2049	4Q	-7Q	b,h
FLORIDA	941	2048	1Q	2054	3Q	-26Q	b,h
OKLAHOMA	539/918	2048	2Q	2053	3Q	-21Q	b,h
MISSISSIPPI	601/769	2048	2Q	2073	4Q	-102Q	b,h
LOUISIANA	225	2048	4Q	2062	1Q	-53Q	b,h
KENTUCKY	606	2048	4Q	2046	2Q	10Q	a,h
CALIFORNIA	747/818	2048	4Q	2050	2Q	-6Q	b,h
CONNECTICUT	203/475	2049	1Q	2046	3Q	10Q	a,h
INDIANA	260	2049	2Q	2057	1Q	-31Q	b,h
FLORIDA	321A	2049	2Q	2078	3Q	-117Q	b,g,h
PUERTO RICO	787/939	2049	2Q	2053	2Q	-16Q	b,h
MICHIGAN	810	2049	2Q	2077	4Q	-114Q	b,h
NEW YORK	212/646/332	2049	4Q	2050	2Q	-2Q	b,h
ILLINOIS	312/773/872	2049	4Q	2050	1Q	-1Q	b,h
OKLAHOMA	405/572	2050	2Q	2022	2Q	112Q	a,f
PENNSYLVANIA	582/814	2050	2Q	2093	3Q	-173Q	b
NEVADA	702/725	2050	2Q	2055	3Q	-21Q	b,h
TEXAS	830	2050	3Q	2066	1Q	-62Q	b,h
FLORIDA	863	2050	3Q	2064	2Q	-55Q	b,h
OHIO	220/740	2051	3Q	2086	1Q	-138Q	b,h
VIRGINIA	276	2051	3Q	2054	1Q	-10Q	b,h
KENTUCKY	859	2051	4Q	2065	3Q	-55Q	b,h
WASHINGTON	253	2052	1Q	2058	2Q	-25Q	b,h
LOUISIANA	337	2052	1Q	2054	1Q	-8Q	b,h
CONNECTICUT	860/959	2052	1Q	2058	3Q	-26Q	b,h
NORTH CAROLINA	336/743	2052	2Q	2055	4Q	-14Q	b,h
SOUTH CAROLINA	803/839	2052	2Q	2055	1Q	-11Q	b,h
SOUTH CAROLINA	843/854	2052	4Q	2052	1Q	3Q	a,h
FLORIDA	448/850	2053	2Q	2021	3Q	127Q	a,f
RHODE ISLAND	401	2053	3Q	2068	3Q	-60Q	b,h
MICHIGAN	248/947	2053	4Q	2060	4Q	-28Q	b,h
TEXAS	432	2054	3Q	2070	3Q	-64Q	b,h
PENNSYLVANIA	215/267/445	2055	3Q	2054	2Q	5Q	a,h
CALIFORNIA	408/669	2055	3Q	2061	1Q	-22Q	b,h
MINNESOTA	651	2055	3Q	2055	3Q	N/C	h
OREGON	458/541	2055	4Q	2062	4Q	-28Q	b,h
KANSAS	316	2056	2Q	2075	2Q	-76Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
NEW JERSEY	609/640	2056	3Q	2072	4Q	-65Q	b,h
TEXAS	979	2056	3Q	2074	2Q	-71Q	b,h
OHIO	326/937	2057	2Q	2067	2Q	-40Q	b,h
CALIFORNIA	341/510	2057	4Q	2063	2Q	-22Q	b,h
TENNESSEE	615/629	2058	2Q	2066	4Q	-34Q	b,h
WISCONSIN	534/715	2058	3Q	2071	2Q	-51Q	b,h
TEXAS	210/726	2058	4Q	2063	4Q	-20Q	b,h
MICHIGAN	586	2058	4Q	2090	4Q	-128Q	b,h
CALIFORNIA	415/628	2059	3Q	2063	1Q	-14	b,h
OHIO	380/614	2060	1Q	2078	3Q	-29Q	b,h
FLORIDA	772	2060	1Q	2069	1Q	-36Q	b,h
LOUISIANA	985	2060	3Q	2075	4Q	-61Q	b,h
TEXAS	915	2060	4Q	2083	1Q	-89Q	b,h
INDIANA	574	2061	1Q	2067	1Q	-24Q	b,h
TENNESSEE	931	2062	2Q	2062	2Q	N/C	h
MISSOURI	636	2063	1Q	2078	2Q	-61Q	b,h
ILLINOIS	331/630	2063	4Q	2073	4Q	-40Q	b,h
TENNESSEE	865	2063	4Q	2068	4Q	-20Q	b,h
MASSACHUSETTS	351/978	2064	2Q	2102	2Q	-152Q	b,h
LOUISIANA	504	2065	2Q	2061	2Q	16Q	a,h
WASHINGTON	360/564	2066	4Q	2078	3Q	-47Q	b,h
MINNESOTA	763	2066	4Q	2066	3Q	1Q	a,h
CALIFORNIA	805/820	2068	4Q	2076	2Q	-30Q	b,h
ARIZONA	623	2069	4Q	2069	4Q	N/C	h
KENTUCKY	270/364	2082	2Q	2102	1Q	-79Q	b,h
MASSACHUSETTS	339/781	2087	1Q	2122	1Q	-140Q	b'h
MICHIGAN	906	2087	2Q	2133	1Q	-183Q	b,h
CALIFORNIA	831	2087	4Q	2097	4Q	-40Q	b,h
TENNESSEE	731	2088	1Q	2089	2Q	-5Q	b,h
VIRGIN ISLANDS	340	2090	1Q	2097	1Q	-28Q	b,h
MISSISSIPPI	228	2102	2Q	2104	1Q	-7Q	b,h
MINNESOTA	952	2106	1Q	2098	1Q	32Q	a,h
CNMI	670	2110	1Q	2112	1Q	-8Q	b,h
GUAM	671	2150	1Q	2150	1Q	N/C	h
CANADA	204/431			2035	1Q		c
CANADA	226/519/548			2034	3Q		c
CANADA	236/250/604/672/778			2040	2Q		c
CANADA	249/705			2042	3Q		c

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
CANADA	289/365/905			2039	3Q		c
CANADA	306/639			2035	3Q		c
CANADA	343/613			2032	2Q		c
CANADA	403/587/780/825			2041	1Q		c
CANADA	416/437/647			2038	1Q		c
CANADA	418/581/367			2037	3Q		c
CANADA	438/514			2036	4Q		c
CANADA	450/579			2046	2Q		c
CANADA	506			2024	1Q		c
AMERICAN SAMOA	684			2186	1Q		h
CANADA	709			2026	3Q		c
CANADA	782/902			2029	4Q		c
CANADA	807			2043	1Q		c
CANADA	819/873			2034	3Q		c
CANADA	867			2043	1Q		c
NEW YORK	917						e

Table 6-3
Projected Exhaust Dates by Location

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
ALABAMA	251	2036	3Q	2041	1Q	-18Q	b,h
ALABAMA	334	2025	4Q	2026	2Q	-2Q	b
ALABAMA	205/659	2035	4Q	2036	1Q	-1Q	b
ALABAMA	256/938	2045	4Q	2050	3Q	-19Q	b,h
ALASKA	907	2043	4Q	2055	3Q	-47Q	b,h
AMERICAN SAMOA	684			2186	1Q		h
ARIZONA	480	2024	1Q	2024	1Q	N/C	
ARIZONA	520	2029	3Q	2030	1Q	-2Q	b,h
ARIZONA	602	2026	2Q	2026	2Q	N/C	
ARIZONA	623	2069	4Q	2069	4Q	N/C	h
ARIZONA	928	2030	1Q	2030	3Q	-2Q	b,h
ARKANSAS	479	2033	1Q	2035	1Q	-8Q	b
ARKANSAS	501	2030	4Q	2033	1Q	-9Q	b,h
ARKANSAS	870	2025	1Q	2025	1Q	N/C	

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
CALIFORNIA	209	2022	4Q	2022	4Q	N/C	
CALIFORNIA	530	2028	2Q	2029	3Q	-5Q	b
CALIFORNIA	559	2029	3Q	2034	1Q	-18Q	b
CALIFORNIA	562	2032	3Q	2034	3Q	-8Q	b
CALIFORNIA	626	2029	3Q	2031	3Q	-8Q	b
CALIFORNIA	650	2034	4Q	2033	2Q	6Q	a
CALIFORNIA	661	2033	1Q	2032	4Q	1Q	a
CALIFORNIA	707	2023	4Q	2023	4Q	N/C	
CALIFORNIA	831	2087	4Q	2097	4Q	-40Q	b,h
CALIFORNIA	925	2041	3Q	2043	2Q	-7Q	b,h
CALIFORNIA	949	2026	1Q	2026	4Q	-3Q	b
CALIFORNIA	213/323	2026	2Q	2026	3Q	-1Q	b
CALIFORNIA	279/916	2047	3Q	2054	4Q	-29Q	b,h
CALIFORNIA	310/424	2045	2Q	2045	2Q	N/C	
CALIFORNIA	341/510	2057	4Q	2063	2Q	-22Q	b,h
CALIFORNIA	408/669	2055	3Q	2061	1Q	-22Q	b,h
CALIFORNIA	415/628	2059	3Q	2063	1Q	-14	b,h
CALIFORNIA	442/760	2035	4Q	2036	3Q	-3Q	b,h
CALIFORNIA	619/858	2030	2Q	2031	4Q	-6Q	b
CALIFORNIA	657/714	2027	4Q	2029	1Q	-5Q	b
CALIFORNIA	747/818	2048	4Q	2050	2Q	-6Q	b,h
CALIFORNIA	805/820	2068	4Q	2076	2Q	-30Q	b,h
CALIFORNIA	840/909	2046	4Q	2048	2Q	-6Q	b
CALIFORNIA	951	2030	1Q	2030	4Q	-3Q	b
CANADA	506			2024	1Q		c
CANADA	709			2026	3Q		c
CANADA	867			2043	1Q		c
CANADA	204/431			2035	1Q		c
CANADA	226/519/548			2034	3Q		c
CANADA	236/250/604/672/778			2040	2Q		c
CANADA	249/705			2042	3Q		c
CANADA	289/365/905			2039	3Q		c
CANADA	306/639			2035	3Q		c
CANADA	343/613			2032	2Q		c
CANADA	403/587/780/825			2041	1Q		c
CANADA	416/437/647			2038	1Q		c
CANADA	418/581/367			2037	3Q		c
CANADA	438/514			2036	4Q		c

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
CANADA	450/579			2046	2Q		c
CANADA	782/902			2029	4Q		c
CANADA	807			2043	1Q		c
CANADA	819/873			2034	3Q		c
CNMI	670	2110	1Q	2112	1Q	-8Q	b,h
COLORADO	719	2036	1Q	2034	4Q	5Q	a
COLORADO	970	2028	2Q	2028	2Q	N/C	
COLORADO	303/720	2023	2Q	2022	4Q	2Q	a
CONNECTICUT	203/475	2049	1Q	2046	3Q	10Q	a,h
CONNECTICUT	860/959	2052	1Q	2058	3Q	-26Q	b,h
DELAWARE	302	2033	2Q	2035	1Q	-7Q	b
DISTRICT OF COLUMBIA	202	2021	4Q	2021	3Q	1Q	a
FLORIDA	239	2040	2Q	2040	4Q	-2Q	b,h
FLORIDA	352	2026	3Q	2028	3Q	-8Q	b
FLORIDA	386	2041	2Q	2045	3Q	-17Q	b,h
FLORIDA	561	2023	3Q	2024	3Q	-4Q	b
FLORIDA	727	2035	3Q	2036	2Q	-3Q	b
FLORIDA	772	2060	1Q	2069	1Q	-36Q	b,h
FLORIDA	813	2022	1Q	2022	1Q	N/C	
FLORIDA	863	2050	3Q	2064	2Q	-55Q	b,h
FLORIDA	904	2024	4Q	2025	1Q	-1Q	b
FLORIDA	941	2048	1Q	2054	3Q	-26Q	b,h
FLORIDA	305/786	2024	1Q	2024	4Q	-3Q	b
FLORIDA	321/407/689	2043	4Q	2070	7Q	-108Q	b,h
FLORIDA	321A	2049	2Q	2078	3Q	-117Q	b,g,h
FLORIDA	448/850	2053	2Q	2021	3Q	127Q	a,f
FLORIDA	754/954	2047	1Q	2052	3Q	-22Q	b,h
GEORGIA	229	2030	2Q	2034	3Q	-17Q	b,h
GEORGIA	478	2046	3Q	2062	1Q	-62Q	b,h
GEORGIA	912	2028	2Q	2031	4Q	-14Q	b,h
GEORGIA	404/470/678/770	2022	2Q	2022	2Q	N/C	
GEORGIA	706/762	2032	4Q	2042	3Q	-39Q	b,h
GUAM	671	2150	1Q	2150	1Q	N/C	h
HAWAII	808	2035	3Q	2040	4Q	-21Q	b
IDAHO	208/986	2042	3Q	2044	4Q	-9Q	b,h
ILLINOIS	309	2023	4Q	2024	2Q	-2Q	b
ILLINOIS	618	2025	4Q	2026	2Q	-2Q	b
ILLINOIS	708	2022	1Q	2022	1Q	N/C	
ILLINOIS	217/447	2035	1Q	2078	1Q	-172Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
ILLINOIS	224/847	2033	1Q	2036	1Q	-12Q	b,h
ILLINOIS	312/773/872	2049	4Q	2050	1Q	-1Q	b,h
ILLINOIS	331/630	2063	4Q	2073	4Q	-40Q	b,h
ILLINOIS	779/815	2033	4Q	2034	2Q	-2Q	b,h
INDIANA	219	2043	4Q	2046	4Q	-12Q	b,h
INDIANA	260	2049	2Q	2057	1Q	-31Q	b,h
INDIANA	574	2061	1Q	2067	1Q	-24Q	b,h
INDIANA	765	2027	4Q	2032	2Q	-18Q	b,h
INDIANA	317/463	2048	1Q	2052	2Q	-17Q	b,h
INDIANA	812/930	2044	3Q	2048	3Q	-16Q	b,h
IOWA	319	2047	1Q	2050	3Q	-14Q	b,h
IOWA	515	2038	4Q	2037	4Q	4Q	a
IOWA	563	2047	4Q	2052	1Q	-17Q	b,h
IOWA	641	2039	2Q	2042	1Q	-11Q	b,h
IOWA	712	2031	3Q	2032	3Q	-4Q	b
KANSAS	316	2056	2Q	2075	2Q	-76Q	b,h
KANSAS	620	2030	2Q	2032	4Q	-10Q	b
KANSAS	785	2027	1Q	2030	1Q	-12Q	b
KANSAS	913	2042	2Q	2046	1Q	-15Q	b
KENTUCKY	502	2031	2Q	2036	2Q	-20Q	b
KENTUCKY	606	2048	4Q	2046	2Q	10Q	a,h
KENTUCKY	859	2051	4Q	2065	3Q	-55Q	b,h
KENTUCKY	270/364	2082	2Q	2102	1Q	-79Q	b,h
LOUISIANA	225	2048	4Q	2062	1Q	-53Q	b,h
LOUISIANA	318	2028	1Q	2030	2Q	-9Q	b
LOUISIANA	337	2052	1Q	2054	1Q	-8Q	b,h
LOUISIANA	504	2065	2Q	2061	2Q	16Q	a,h
LOUISIANA	985	2060	3Q	2075	4Q	-61Q	b,h
MAINE	207	2025	1Q	2024	4Q	1Q	a
MARYLAND	240/301	2024	2Q	2024	4Q	-2Q	b
MARYLAND	410/443/667	2031	4Q	2040	1Q	-33Q	b
MASSACHUSETTS	413	2030	2Q	2041	1Q	-43Q	b,h
MASSACHUSETTS	339/781	2087	1Q	2122	1Q	-140Q	b'h
MASSACHUSETTS	351/978	2064	2Q	2102	2Q	-152Q	b,h
MASSACHUSETTS	508/774	2029	4Q	2041	4Q	-48Q	b
MASSACHUSETTS	617/857	2043	3Q	2052	2Q	-35Q	b,h
MICHIGAN	231	2034	3Q	2048	3Q	-56Q	b,h
MICHIGAN	269	2041	3Q	2055	3Q	-56Q	b,h

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
MICHIGAN	313	2025	2Q	2025	3Q	-1Q	b
MICHIGAN	517	2038	1Q	2048	3Q	-42Q	b,h
MICHIGAN	586	2058	4Q	2090	4Q	-128Q	b,h
MICHIGAN	616	2042	3Q	2048	2Q	-23Q	b,h
MICHIGAN	734	2029	2Q	2032	4Q	-14Q	b
MICHIGAN	810	2049	2Q	2077	4Q	-114Q	b,h
MICHIGAN	906	2087	2Q	2133	1Q	-183Q	b,h
MICHIGAN	989	2027	1Q	2031	2Q	-17Q	b
MICHIGAN	248/947	2053	4Q	2060	4Q	-28Q	b,h
MINNESOTA	218	2029	1Q	2031	3Q	-10Q	b,h
MINNESOTA	320	2042	3Q	2045	4Q	-13Q	b,h
MINNESOTA	507	2025	2Q	2025	4Q	-2Q	b
MINNESOTA	612	2040	2Q	2038	1Q	9Q	a
MINNESOTA	651	2055	3Q	2055	3Q	N/C	h
MINNESOTA	763	2066	4Q	2066	3Q	1Q	a,h
MINNESOTA	952	2106	1Q	2098	1Q	32Q	a,h
MISSISSIPPI	228	2102	2Q	2104	1Q	-7Q	b,h
MISSISSIPPI	662	2033	4Q	2036	2Q	-10Q	b
MISSISSIPPI	601/769	2048	2Q	2073	4Q	-102Q	b,h
MISSOURI	417	2028	1Q	2027	4Q	1Q	a
MISSOURI	573	2025	1Q	2025	1Q	N/C	
MISSOURI	636	2063	1Q	2078	2Q	-61Q	b,h
MISSOURI	660	2047	2Q	2047	2Q	N/C	h
MISSOURI	816	2023	3Q	2024	3Q	-4Q	b
MISSOURI	314	2022	3Q	2023	2Q	-3Q	b
MONTANA	406	2027	3Q	2028	2Q	-3Q	b
NEBRASKA	308	2030	4Q	2040	1Q	-37Q	b,h
NEBRASKA	402/531	2045	4Q	2052	1Q	-25Q	b,h
NEVADA	775	2040	2Q	2045	1Q	-19Q	b,h
NEVADA	702/725	2050	2Q	2055	3Q	-21Q	b,h
NEW HAMPSHIRE	603	2028	2Q	2028	4Q	-2Q	b
NEW JERSEY	856	2032	1Q	2039	4Q	-31Q	b,h
NEW JERSEY	908	2028	3Q	2030	4Q	-9Q	b
NEW JERSEY	201/551	2045	3Q	2048	1Q	-10Q	b,h
NEW JERSEY	609/640	2056	3Q	2072	4Q	-65Q	b,h
NEW JERSEY	732/848	2043	1Q	2044	2Q	-5Q	b,h
NEW JERSEY	862/973	2038	1Q	2044	1Q	-24Q	b,h
NEW MEXICO	505	2030	2Q	2032	4Q	-10Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
NEW MEXICO	575	2044	1Q	2049	2Q	-21Q	b,h
NEW YORK	516	2023	2Q	2023	3Q	-1Q	b
NEW YORK	585	2026	2Q	2029	4Q	-14Q	b
NEW YORK	607	2033	3Q	2041	3Q	-32Q	b,h
NEW YORK	716	2025	2Q	2027	1Q	-7Q	b
NEW YORK	845	2024	3Q	2024	3Q	N/C	
NEW YORK	914	2027	1Q	2031	1Q	-16Q	b
NEW YORK	917						e
NEW YORK	212/646/332	2049	4Q	2050	2Q	-2Q	b,h
NEW YORK	315/680	2039	2Q	2053	4Q	-58Q	b,h
NEW YORK	347/718/929	2028	2Q	2028	4Q	-2Q	b
NEW YORK	518/838	2031	4Q	2042	3Q	-43Q	b,h
NEW YORK	631/934	2044	2Q	2061	3Q	-69Q	b,h
NORTH CAROLINA	252	2030	4Q	2036	3Q	-23Q	b,h
NORTH CAROLINA	828	2031	4Q	2038	1Q	-25Q	b
NORTH CAROLINA	910	2022	4Q	2023	2Q	-2Q	b
NORTH CAROLINA	336/743	2052	2Q	2055	4Q	-14Q	b,h
NORTH CAROLINA	704/980	2040	1Q	2042	2Q	-9Q	b
NORTH CAROLINA	919/984	2046	3Q	2049	4Q	-13Q	b,h
NORTH DAKOTA	701	2026	4Q	2026	1Q	3Q	a
OHIO	216	2038	1Q	2038	3Q	-2Q	b,h
OHIO	440	2025	2Q	2030	1Q	-19Q	b
OHIO	513	2023	4Q	2024	2Q	2Q	a
OHIO	220/740	2051	3Q	2086	1Q	-138Q	b,h
OHIO	234/330	2038	4Q	2045	2Q	-26Q	b,h
OHIO	326/937	2057	2Q	2067	2Q	-40Q	b,h
OHIO	380/614	2060	1Q	2078	3Q	-29Q	b,h
OHIO	419/567	2039	1Q	2045	2Q	-25Q	b,h
OKLAHOMA	580	2029	3Q	2031	1Q	-6Q	b
OKLAHOMA	405/572	2050	2Q	2022	2Q	112Q	a,f
OKLAHOMA	539/918	2048	2Q	2053	3Q	-21Q	b,h
OREGON	458/541	2055	4Q	2062	4Q	-28Q	b,h
OREGON	503/971	2041	3Q	2042	2Q	-3Q	b,h
PENNSYLVANIA	215/267/445	2055	3Q	2054	2Q	5Q	a,h
PENNSYLVANIA	223/717	2038	2Q	2043	4Q	-22Q	b,h
PENNSYLVANIA	272/570	2043	1Q	2053	3Q	-42Q	b,h
PENNSYLVANIA	412/724/878	2043	2Q	2046	3Q	-13Q	b,h
PENNSYLVANIA	484/610	2023	2Q	2024	2Q	-4Q	b

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
PENNSYLVANIA	582/814	2050	2Q	2093	3Q	-173Q	b
PUERTO RICO	787/939	2049	2Q	2053	2Q	-16Q	b,h
RHODE ISLAND	401	2053	3Q	2068	3Q	-60Q	b,h
SOUTH CAROLINA	864	2025	3Q	2025	3Q	N/C	
SOUTH CAROLINA	803/839	2052	2Q	2055	1Q	-11Q	b,h
SOUTH CAROLINA	843/854	2052	4Q	2052	1Q	3Q	a,h
SOUTH DAKOTA	605	2025	3Q	2027	4Q	-9Q	b,h
TENNESSEE	423	2026	2Q	2027	4Q	-6Q	b
TENNESSEE	731	2088	1Q	2089	2Q	-5Q	b,h
TENNESSEE	865	2063	4Q	2068	4Q	-20Q	b,h
TENNESSEE	901	2036	4Q	2038	2Q	-6Q	b
TENNESSEE	931	2062	2Q	2062	2Q	N/C	h
TENNESSEE	615/629	2058	2Q	2066	4Q	-34Q	b,h
TEXAS	254	2028	3Q	2029	4Q	-5Q	b,h
TEXAS	325	2043	3Q	2049	3Q	-24Q	b,h
TEXAS	361	2039	4Q	2049	1Q	-37Q	b,h
TEXAS	409	2047	1Q	2055	1Q	-32Q	b,h
TEXAS	432	2054	3Q	2070	3Q	-64Q	b,h
TEXAS	806	2026	3Q	2027	1Q	-2Q	b
TEXAS	830	2050	3Q	2066	1Q	-62Q	b,h
TEXAS	915	2060	4Q	2083	1Q	-89Q	b,h
TEXAS	936	2043	4Q	2053	1Q	-37Q	b,h
TEXAS	940	2038	2Q	2040	4Q	-10Q	b,h
TEXAS	956	2027	2Q	2027	3Q	-1Q	b
TEXAS	979	2056	3Q	2074	2Q	-71Q	b,h
TEXAS	210/726	2058	4Q	2063	4Q	-20Q	b,h
TEXAS	214/469/945/972	2031	4Q	2032	1Q	-1Q	b
TEXAS	281/346/713/832	2027	1Q	2028	1Q	-4Q	b
TEXAS	430/903	2037	1Q	2040	1Q	-12Q	b,h
TEXAS	512/737	2036	2Q	2036	3Q	-1Q	b
TEXAS	682/817	2038	2Q	2039	2Q	-4Q	b,h
UTAH	435	2044	1Q	2052	2Q	-33Q	b,h
UTAH	385/801	2032	4Q	2034	3Q	-7Q	b
VERMONT	802	2034	4Q	2038	4Q	-16Q	b,h
VIRGIN ISLANDS	340	2090	1Q	2097	1Q	-28Q	b,h
VIRGINIA	276	2051	3Q	2054	1Q	-10Q	b,h
VIRGINIA	434	2034	3Q	2035	4Q	-5Q	b,h
VIRGINIA	540	2022	2Q	2022	2Q	N/C	

LOCATION	NPA	2021.2 FCST		2021.1 FCST		Change	Notes Comments
		Year	Quarter	Year	Quarter	2021.1 to 2021.2	
VIRGINIA	757	2022	1Q	2022	1Q	N/C	
VIRGINIA	804	2025	3Q	2025	3Q	N/C	
VIRGINIA	571/703	2030	4Q	2031	3Q	-3Q	b
WASHINGTON	206	2026	1Q	2025	4Q	1Q	a
WASHINGTON	253	2052	1Q	2058	2Q	-25Q	b,h
WASHINGTON	425	2035	2Q	2040	1Q	-19Q	b,h
WASHINGTON	509	2025	1Q	2024	3Q	2Q	a
WASHINGTON	360/564	2066	4Q	2078	3Q	-47Q	b,h
WEST VIRGINIA	304/681	2030	3Q	2031	3Q	-4Q	b
WISCONSIN	262	2033	3Q	2039	4Q	-25Q	b,h
WISCONSIN	414	2048	1Q	2049	4Q	-7Q	b,h
WISCONSIN	608	2025	2Q	2025	1Q	1Q	a
WISCONSIN	920	2025	3Q	2027	1Q	-6Q	b
WISCONSIN	534/715	2058	3Q	2071	2Q	-51Q	b,h
WYOMING	307	2041	3Q	2045	1Q	-14Q	b,h

ATTACHMENT 8
2021 NANP EXHAUST ANALYSES

Introduction

NANPA also projects the exhaust of the NANP twice a year in April and October based upon the utilization and forecast data submitted by service providers via the NRUF process. The following assumptions were used in these exhaust analyses.

2021 NANP Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the 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., SP 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 codes in the existing NPAs are duplicated in the new NPA. There may be times, however, when additional codes in the new NPA are marked unassignable.

5. No assumptions were made with regard to the relief method implemented (*i.e.,* NPA split vs. overlay). However, it was assumed that the selected relief method did not require the duplication or protection of central office codes other than those identified in number 4 above.

6. The CO code demand for an exhausting NPA will be continued after NPA relief. By doing so, the demand for both the existing and new NPAs will be considered for the geographic area covered by the original NPA.

7. The total quantity of available NPA codes will be 679 for both April and October 2021 derived starting with 800 NPAs less 121 unavailable NPAs.[29]

8. To account for the variability of demand, a sensitivity analysis was performed to the CO code

[29] Reserved for NANP expansion (80), N11 codes (8), 555 and 950 NPAs (2), toll-free 880-887, 889 NPAs (9), non-geographic NPAs (20), 1 (456 which will be made available in 2022) and 1 (988).

demand (i.e., demand will be increased and decreased by increments of 10%) to understand the impact on NANP exhaust.

April 2021 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 2021 NPA Exhaust Analysis and the CO code demand included in NRUF submissions, an average yearly demand rate of 4,722 CO codes was calculated. This yearly demand rate was compared with U.S. CO code demand rates in 2016 through 2021.

YEAR	ANNUAL GROSS CO CODE DEMAND	ANNUAL NET CO CODE DEMAND
2016	3,500	3,300
2017	2,700	2,500
2018	2,800	2,500
2019	2,926	2,650
2020	4,030	3,346
2021	4,722	3,220

To project the exhaust of the NANP, an average annual demand of 4,722 CO codes was used. This demand factors in the forecast data submitted as part of the February 2021 NRUF process and the demand in non-US NANP member area codes.[30]

Model Based on Projected Demand

Using an average CO code demand rate of 4,722 codes assigned per year, the projected NANP exhaust date is 2065, assuming the quantity of NPAs available remains 679.

Sensitivity Analysis

For comparison purposes, NANPA performed a sensitivity analysis using an average annual demand to 5,666 CO codes, a 20% increase in the base model demand. This analysis resulted in a projected exhaust of 2057.

October 2021 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 2021 NPA Exhaust Analysis and the CO code demand included in NRUF submissions, an average yearly CO code demand rate of 4,721 was calculated. This yearly demand rate was compared with U.S. CO code demand rates in 2016 through 2021.

[30] NANPA included an annual forecast of 690 CO codes for non-US NANP member countries.

YEAR	ANNUAL GOSS CO CODE DEMAND	ANNUAL NET CO CODE DEMAND
2016	3,500	3,300
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

To project the exhaust of the NANP, an average annual demand of 4,966 CO codes was used. This demand factors in the forecast data submitted as part of the August 2021 NRUF process and the demand in non-US NANP member area codes.[31]

Model Based on Projected Demand

Using an average CO code demand rate of 4,721 codes assigned per year, the projected NANP exhaust date is 2063, assuming the quantity of NPAs assignable remains 679.

Sensitivity Analysis

For comparison purposes, NANPA performed a sensitivity analysis using an average annual demand to 5,959 CO codes, a 20% increase in the base model demand. This analysis resulted in a projected exhaust of 2056.

[31] NANPA included an annual forecast of 935 CO codes for non-US NANP member countries.

ATTACHMENT 9
2021 5XX NPA EXHAUST ANALYSES

Introduction

NANPA projects the exhaust of the 5XX NPA resource 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 include the 500, 533, 544, 566, 577, 588, 521, 522, 523, 524, 525, 526, and 527.

April 2021 5XX NPA Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the April 2021 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.[32]

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 2021 NRUF data, the aggregated forecasted demand for 5XX-NXXs for 2021 through 2025 ranges from 1600 NXXs to 2100 NXXs per year. Below is the demand rate versus the actual assignment rate from 2016 through 2020.

YEAR	ANNUAL GROSS 5XXNXX CODE DEMAND	ANNUAL NET 5XXNXX CODE DEMAND
2016	827	777
2017	781	700
2018	1,146	1,108
2019	700	618
2020	1,356	1,186

The average annual demand for non-geographic 5XX NPA NXX codes for the next 5 years is 1,900

[32] The 5XX NPAs reserved for future expansion include the following: (527, 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558).

NXX codes. It is expected that 12 new 5XX NPAs will be needed over the next five years.

In projecting the exhaust of the assigned and reserved 5XX NPAs (12 assigned 5XX NPAs and 21 reserved 5XX NPAs), an annual demand rate of 1,900 5XX-NXXs was used, resulting in the projected exhaust in 9 years.

October 2021 5XX Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the October 2021 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.[33]

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 2021 NRUF data, the aggregated forecasted demand for 5XX-NXXs for 2021 through 2025 ranges from 1,200 NXXs to 2,100 NXXs per year. Below is the demand rate versus the actual assignment rate from 2016 through 2020.

YEAR	ANNUAL GROSS 5XX NXX CODE DEMAND	ANNUAL NET 5XX NXX CODE DEMAND
2016	827	777
2017	781	700
2018	1,146	1,108
2019	700	618
2020	1,356	1,186

The average annual demand for non-geographic 5XX NPA NXX codes for the next 5 years is 1,800 NXX codes. It is expected that 12 new 5XX NPAs is needed over the next five years.

In projecting the exhaust of the assigned and reserved 5XX NPAs (13 assigned 5XX NPAs and 20 reserved 5XX NPAs), an annual demand rate of 1,800 5XX-NXXs was used, resulting in the projected exhaust in 9 years.

[33] The 5XX NPAs reserved for future expansion include the following: 528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558.