



Technical Advisory Group Meeting

**OKLAHOMA CORPORATION COMMISSION PUBLIC UTILITY DIVISION
NORTH AMERICAN NUMBERING PLAN ADMINISTRATOR (NANPA)**

WEDNESDAY, OCTOBER 2, 2019

1:30 P.M.



Presentation Materials

- Available online at <http://occeweb.com/PU/pudhome.html>
 - Click on the 405 Area Code Exhaust link



Purpose and Objectives

The purpose of this workshop is to provide a forum for carriers to discuss the area code relief planning process and identify any technical issues, educate other interested persons about this process, present area code relief methods being considered by the Commission for the 405 area code (or “NPA”), and to give the public an opportunity to offer comments and concerns to Commission staff.

405 Area Code Background

- The 405 area code was created in 1947.
- The 405 area code includes the cities of Oklahoma City, Edmond, and Norman.
- Implementation of thousands-block number pooling helped to extend the life of the area code.
- 405 prefixes are forecasted to exhaust by December of 2021.





North American Numbering Plan Administrator

- The North American Numbering Plan Administrator's (NANPA) responsibilities include:
 - Assigning area codes and prefixes,
 - Tracking number usage and receiving numbering reports from the service providers,
 - Forecasting when area codes will run out of prefixes, or “exhaust”, and
 - Coordinating planning to introduce a new area code, or Area Code Relief Planning, which starts 36 months before the forecasted exhaust.



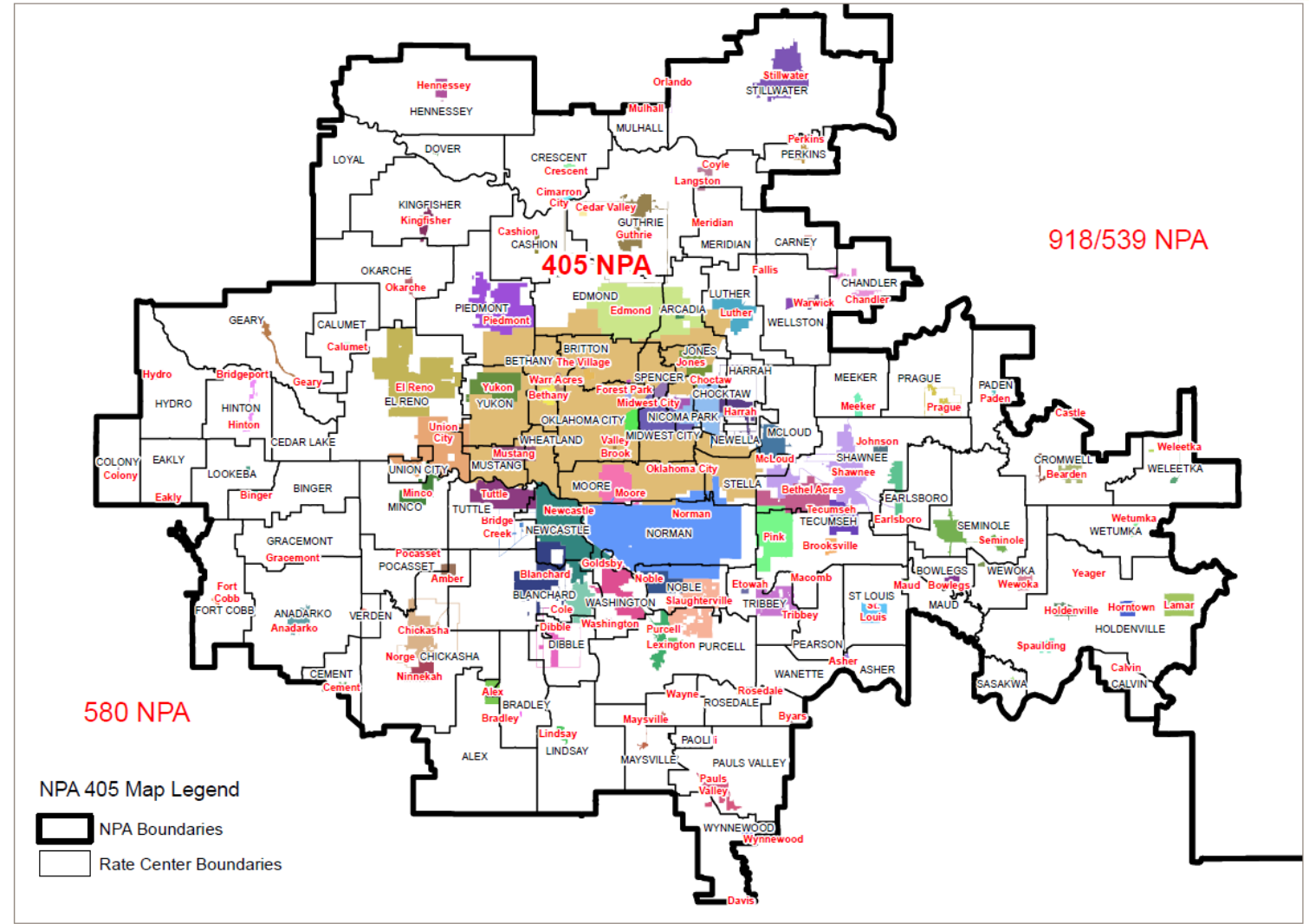
Factors to Consider in Area Code Exhaust Forecast

- History of prefix code assignments.
- Current growth in the telecommunications industry.
- Annual increase in the demand for prefixes in the area code.
- Telecommunications Service Provider semi-annual growth forecast.



OKLAHOMA NPA 405 RATE CENTER MAP, CITIES

405 Rate Center Map

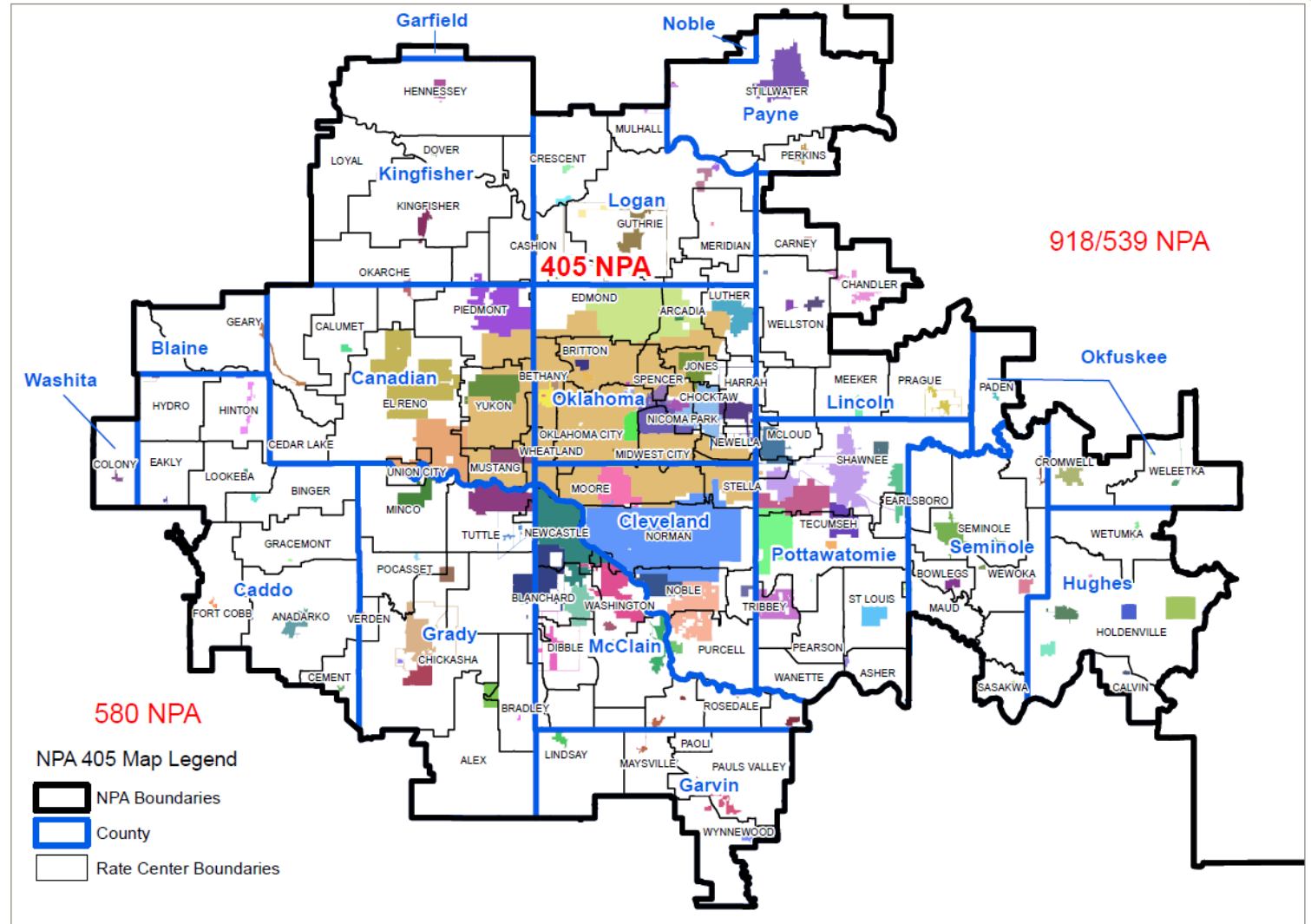


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OKLAHOMA NPA 405 RATE CENTER MAP, COUNTIES



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Counties included in the 405 Area Code

All or portions of:

Blaine, Caddo, Canadian, Cleveland, Garfield, Garvin, Grady, Hughes, Kingfisher, Lincoln, Logan, McClain, Noble, Okfuskee, Oklahoma, Payne, Pottawatomie, Seminole, and Washita



Number of Prefixes Remaining

- As of October 2, 2019, the 405 area code has 33 useable prefixes, or approximately 4% of prefixes available for assignment, remaining at this time.
- A new area code is needed to replenish the supply of prefixes.

Relief Methods

Geographic Split	All-Services Overlay/Boundary Elimination Overlay
<ul style="list-style-type: none"> • Splits maintain a single area code for each geographic area. This may minimize confusion for customers outside the area. 	<ul style="list-style-type: none"> • With an overlay there will be more than one area code in a geographic area.
<ul style="list-style-type: none"> • Splits require an area code change for approximately one-half of customers in a two-way split, and two-thirds of customers in a three-way split. 	<ul style="list-style-type: none"> • An overlay will not require existing customers to change their area code.
<ul style="list-style-type: none"> • Geographic splits permit 7-digit dialing within an area code. 	<ul style="list-style-type: none"> • An overlay requires customers to dial 10-digits (or 1 + 10-digits) for all calls.
<ul style="list-style-type: none"> • Stationery, business cards and advertising, as well as non-telephone databases containing a 10-digit phone number will need to be revised by customers receiving the new area code. 	<ul style="list-style-type: none"> • There is no need to revise stationary, business cards and advertising, as well as non-telephony databases, unless they contain only 7-digit phone numbers.
<ul style="list-style-type: none"> • Future splits will reduce the geographic size of the area code. 	<ul style="list-style-type: none"> • An overlay will end further shrinking of the geographic size of the area code because subsequent relief will likely be another overlay.



Relief Methods

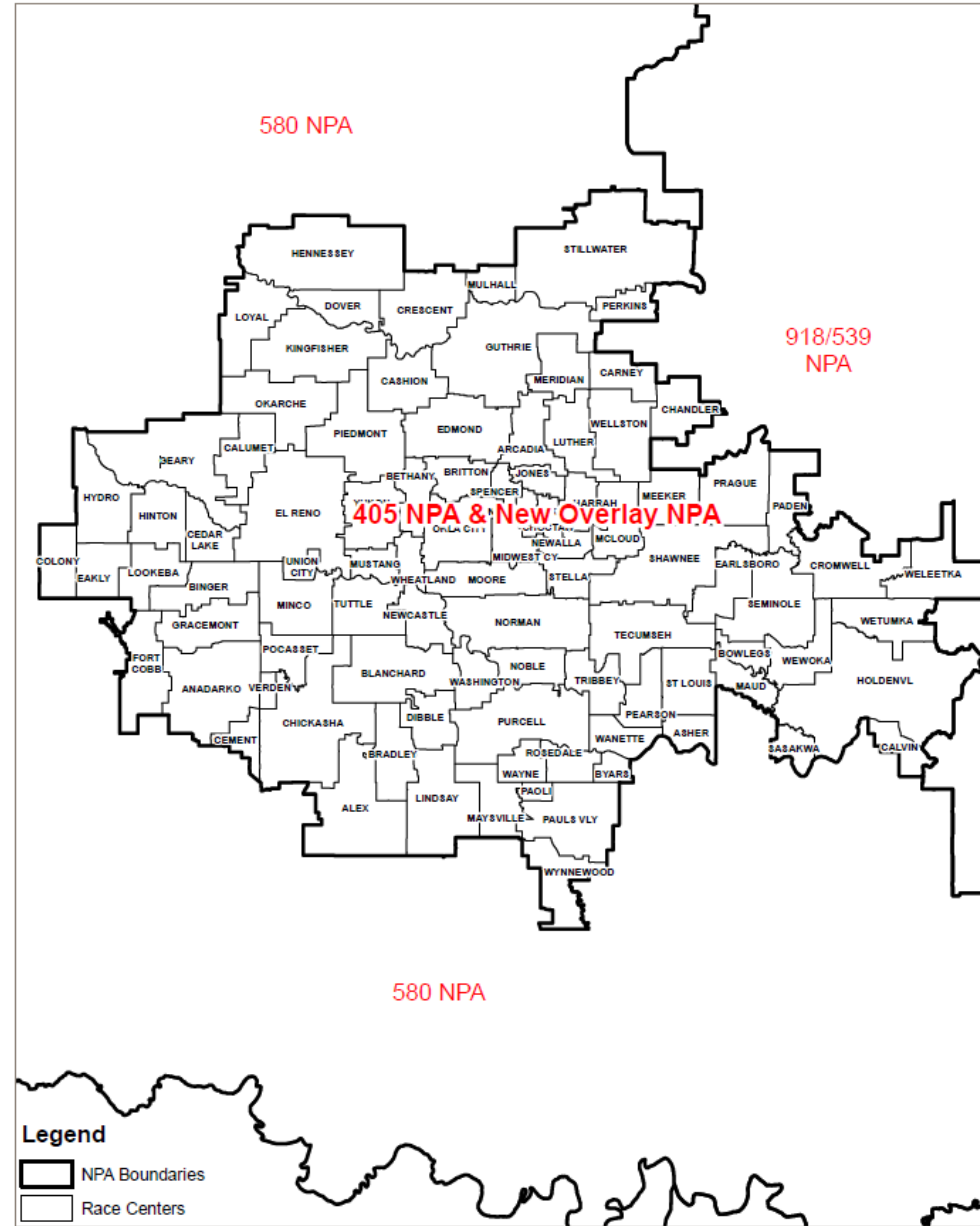
- There hasn't been an area code split in the nation in the last 12 years.
- The last split in Oklahoma was twenty-two years ago.
- Oklahoma has introduced one new area code using the overlay method.
 - The OCC approved an overlay as the relief method for the 918 area code in January 2010, and the 539 area code was put into service in April 2011.
- The overlay method has become the preferred form of area code relief nationwide.



Alternative #1 - 405 NPA & NEW NPA OVERLAY MAP

Alternative #1

All-Services Distributed Overlay

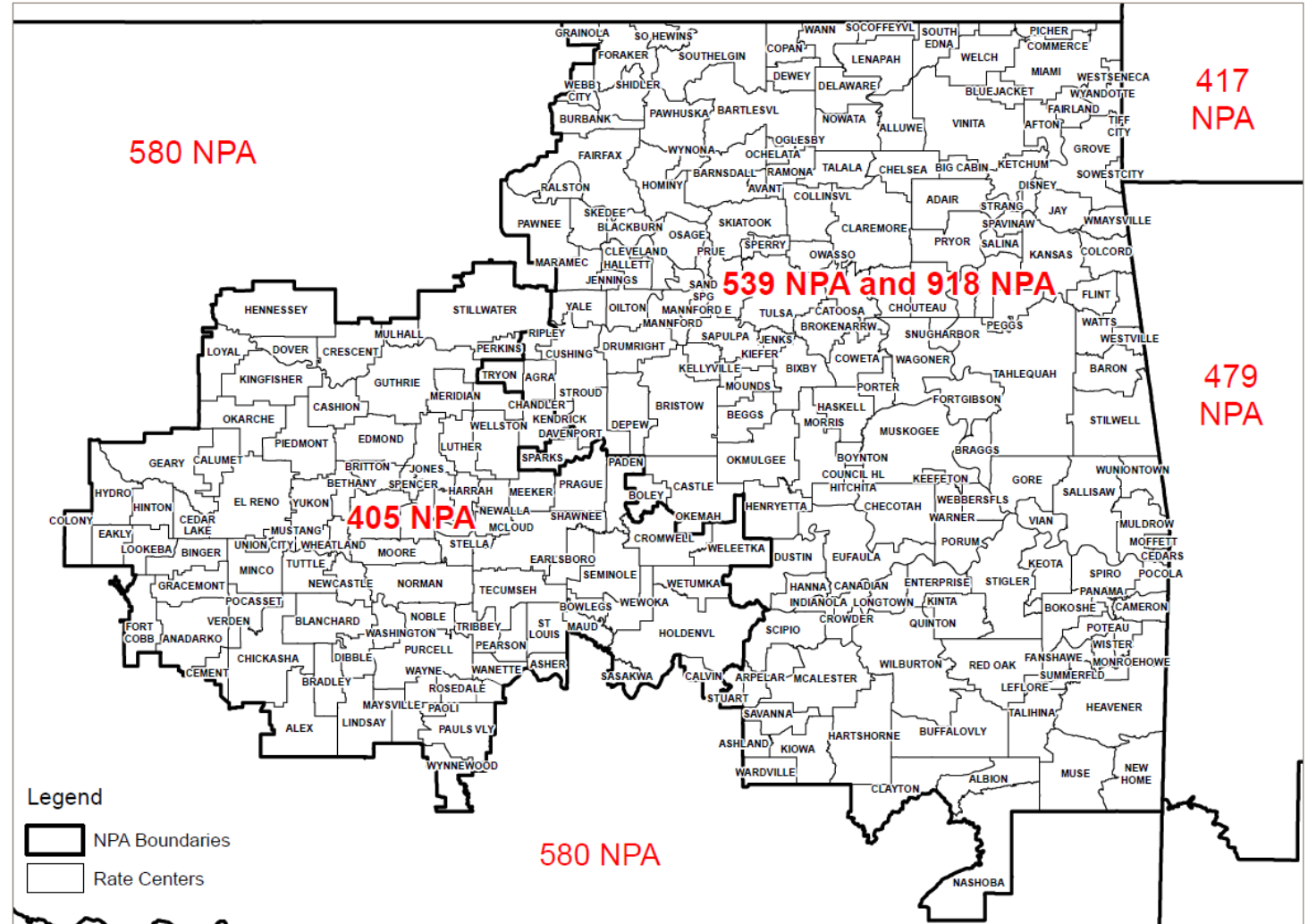


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Alternative #2 - Rate Center Map of Boundary Elimination Overlay of 405 and 918/539



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Alternative #2

Boundary Elimination Overlay



405 Area Code Proposed Relief Method

- The Oklahoma Telecommunications Industry proposed an All-Services Distributed Overlay over the 405 area code (Alternative #1) as the preferred relief method.
- The projected life of an All-Services Distributed Overlay is about 43 years.



Impacts of the Proposed All-Services Distributed Overlay

-
- All current customers will keep their existing area code and telephone numbers.
 - All customers must dial 10-digits to complete all calls, including local calls.
 - 10-digit dialing is a FCC requirement so that all customers in the two area codes are treated alike.
 - Dialing an area code does not change what a call costs, and does not mean that a call is a toll or long distance call.
 - Calling areas and rates will not change.
 - What is a local call now will remain a local call after the All-Services Distributed Overlay is implemented.
 - Calls to 911, as well as 211, 311, 411, 511, 611, 711 and 811 will not be affected, and will continue to be dialed with 3-digits.



Implementation Periods of the Proposed All-Services Distributed Overlay

- Permissive 10-digit dialing period
 - Customers may dial numbers from the 405 area code to other 405 numbers using 7-digits or 10-digits, but are encouraged to use the new 10-digit procedure.
 - Permissive period usually lasts several months.
- Mandatory 10-digit dialing period
 - All calls must be dialed using 10-digits.
 - Customers who dial 7-digits will reach a recording stating the call must be redialed using 10-digits.
- Introduction of the new area code
 - One month after mandatory dialing period.



Important Dates

- Hearing on the Merits – November 20, 2019, 1:30 p.m.
 - Courtroom B of the Jim Thorpe Building
- Virtual Town Hall Meeting via Facebook Live (<https://www.facebook.com/occpud/>)
 - Date and time to be announced via GovDelivery, the OCC's social media platforms, and PUD's website.
- PUD's website
 - http://www.occeweb.com/PU/Telco_NonOUSF/405Exhaust/405Exhaust.htm



PUD Contact Information

- Cause No. PUD 201800086
- Telecom@occ.ok.gov
 - Subject line should include “405 Area Code Relief”
- Lauren Willingham, Assistant General Counsel
 - Oklahoma Corporation Commission, Fourth Floor, Jim Thorpe Office Building, Oklahoma City, Oklahoma 73105
 - (405) 522-8954