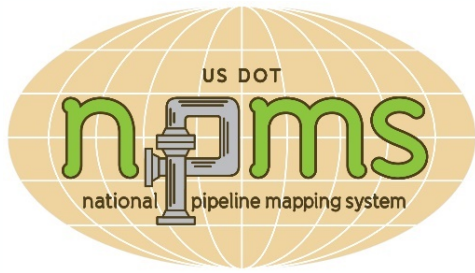
A photograph of a pipeline facility. Large, grey, cylindrical pipes are supported by a series of metal structures. The pipes are arranged in a line, receding into the distance. The structures consist of vertical brown metal posts and horizontal grey metal beams. The facility is situated in a rural area with green trees and a dirt road in the foreground. The sky is overcast.

National Pipeline Mapping System

www.npms.phmsa.dot.gov

Leigha Gooding
GIS Manager, US DOT PHMSA



Today's NPMS Topics

30 minutes

- What is the NPMS?
- How can I access the NPMS?
- What NPMS data and maps can I see?
- What is the difference between the NPMS Public Map Viewer and PIMMA?
- Can I use NPMS data in my agency's GIS?
- What is new in the NPMS?
- NPMS Technical Support.
- Brief Q&A on presentation content.

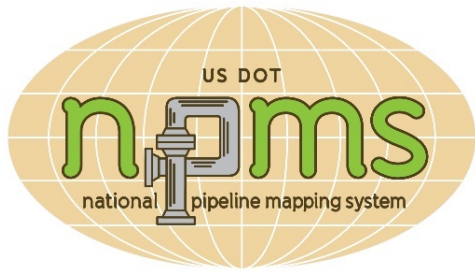
15 minutes

- Live PIMMA demonstration.

15 minutes

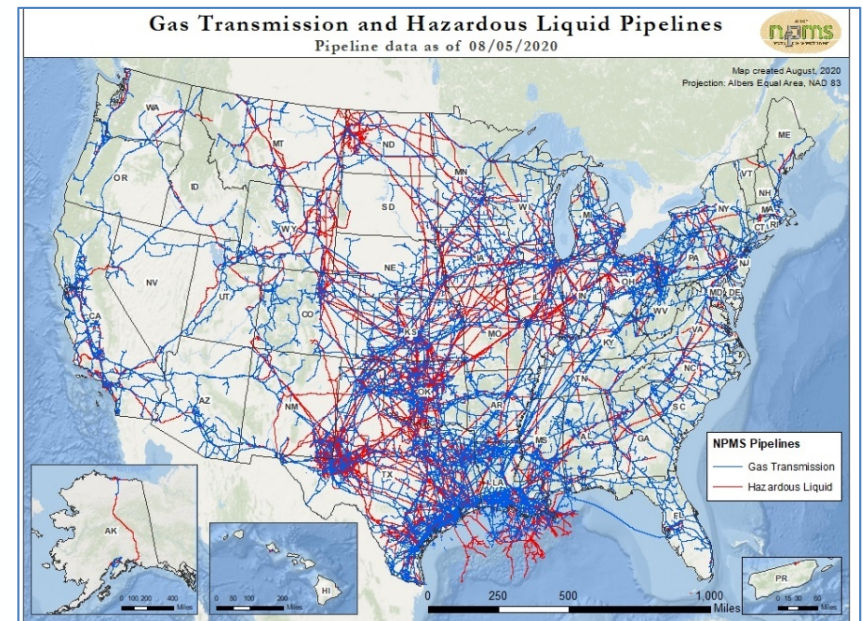
- Continue Q&A.

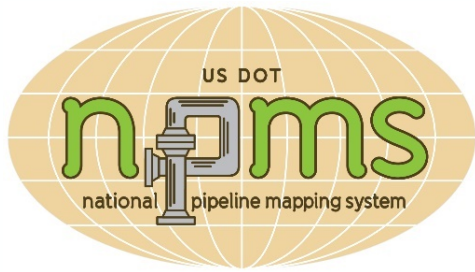




What is the NPMS?

- GIS = Geographic Information System
- GIS data collected from over 1,500 different pipeline operators regulated by PHMSA
- Per 49 CFR 191.29 and 195.61, operators are required to submit data for gas transmission and hazardous liquid pipelines and LNG plants annually; breakout tank submission is optional.
- Nearly 1 million pipeline segments, over 520,000 miles

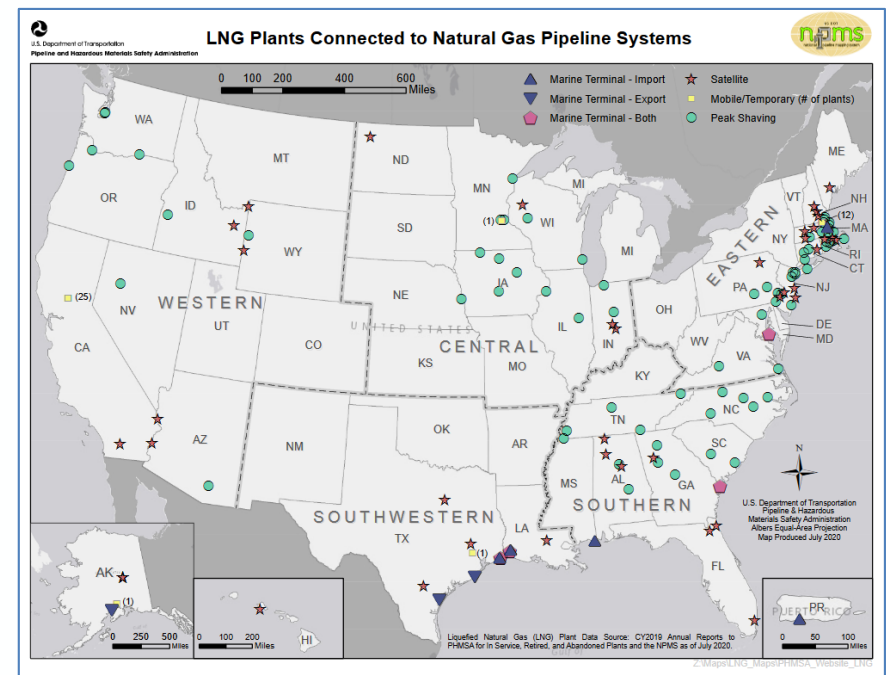


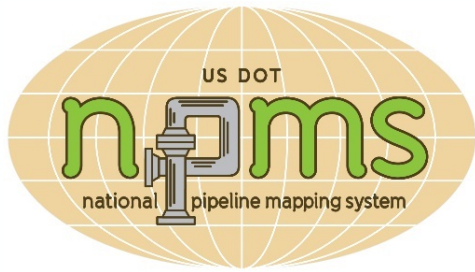


What is the NPMS?

- More than a pipeline map...
 - Spatial and attribute history on each pipeline segment
 - Accident and incidents associated to pipe segments to track asset history
 - PHMSA inspection boundaries
 - Underground Natural Gas Storage
 - High Consequence Area GIS data
 - 7 Web Mapping Applications and many tools
 - Monthly support to over 40,000 stakeholders

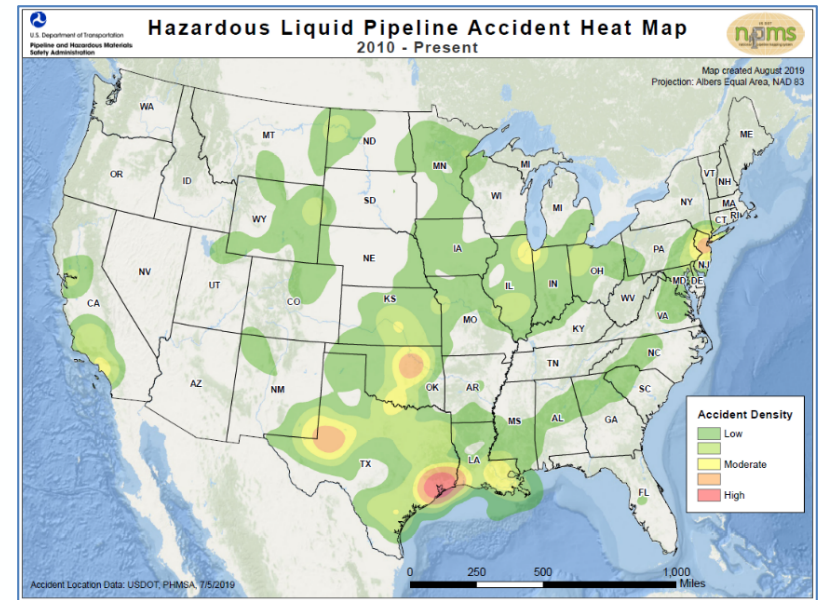
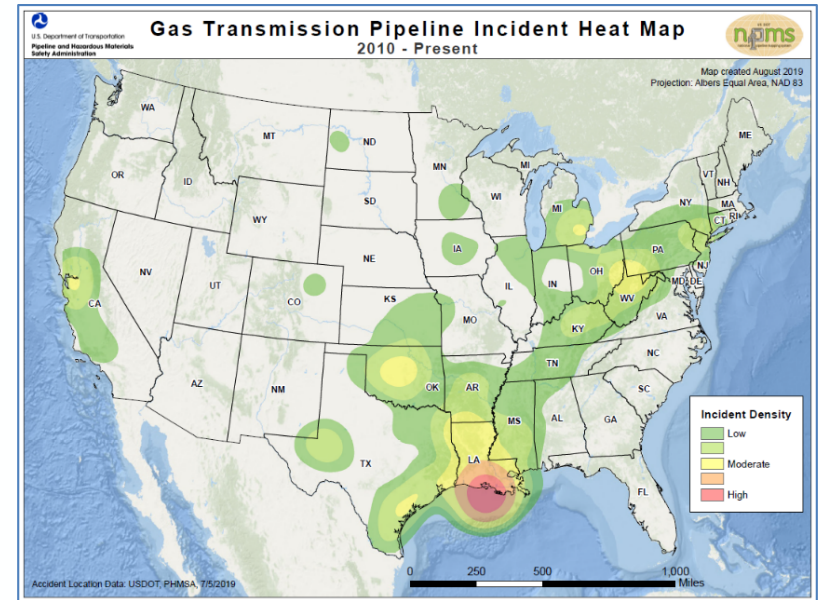
- More than a collection of data...
 - Inspection planning and analysis
 - Accident and incident investigations
 - Emergency response
 - Risk analysis and resource allocation
 - Policy analysis and engineering research
 - Public Awareness, outreach and support for emergency responders and pipeline safety initiatives at all levels of government

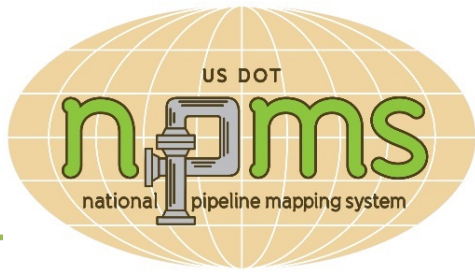




What isn't the NPMS?

- Gas gathering or gas distribution pipelines
- Facilities not regulated by PHMSA
- All abandoned pipelines
 - Optional submission to NPMS
- Planned pipelines
 - If it's in the NPMS then it is in or on the ground!
- Pipelines not already in service at least 1 year ago
 - Regulations require operators submit pipeline operations as of 12/31 of the previous year
- A huge data processing or help center
 - 3 full time GIS analysts (npms@dot.gov)
- Experts on interpreting pipeline regulations
 - Contact PHMSA's Community Liaison Group





How can I access the NPMS?

- Public Map Viewer
- Public Map Viewer iPhone App
- Search Operator directory by state, county or ZIP where they operate pipelines
- Download national pipeline map or lists of pipeline mileage by county and offshore area



GOVERNMENT OFFICIAL



PIPELINE OPERATOR



GENERAL PUBLIC

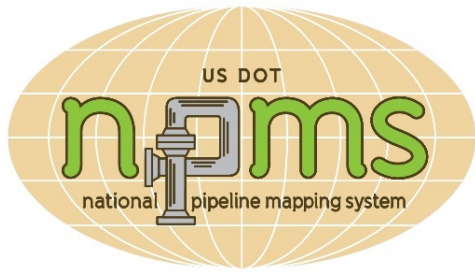


FIRST-TIME VISITOR

- Pipeline Information Management Mapping Application (PIMMA)
- PIMMA iPhone App
- GIS Data Request

www.npms.phmsa.dot.gov



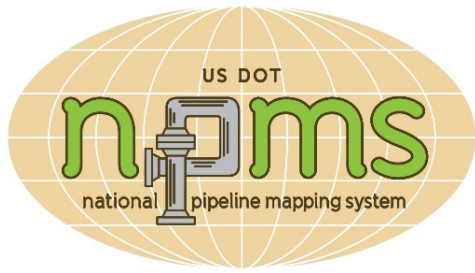


What NPMS data can I see?

Limitations on PIMMA map access and GIS data requests:

- **General public**
 - Only publicly available tools. Same pipelines as other users, but additional limitations.
- **Pipeline operators** with gas trans. or haz. liquid pipes, LNG Plants or BOTs.
 - Only the data for facilities they operate.
- **Local government officials**, including all emergency responders.
 - All NPMS facilities in their county.
 - If your jurisdiction spans more than 1 county email npms@dot.gov to modify your PIMMA account, or include this information on your data request or PIMMA application.
- **State government officials.**
 - All NPMS facilities in their state.
- **Federal government officials.**
 - All NPMS facilities in their area of interest or the entire US.
- **Tribal government officials.**
 - All NPMS facilities in the counties that intersect tribal lands.



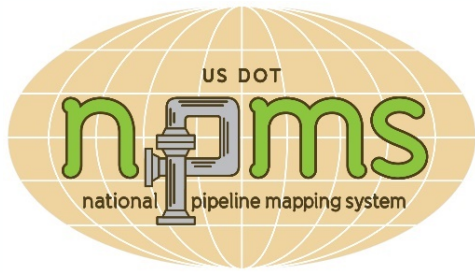


Public Map Viewer VS PIMMA

Both show the same pipelines, but additional limitations on the Public Map Viewer:

- 1) You cannot see more than 1 county at a time.
- 2) You cannot zoom in closer than 1:24,000.
 - ❖ Pipeline layer turns off when you zoom in too close; zoom out and turn pipelines layer on again.
- 3) You cannot see a pipeline's diameter, level of spatial accuracy, detailed commodity information or operator's emergency contact information.
- 4) Accidents (HL) and Incidents (GT) do not include information about the pipeline.
 - ❖ Not limited to one county on Public Viewer because all accident and incident data can be downloaded from PHMSA's main website.
 - ❖ Limited to your jurisdiction on PIMMA because includes extra pipeline information.
- 5) You cannot see federal lands, water ports or military bases
- 6) Measure Tool only displays miles
 - ❖ PIMMA also shows feet, meters and kilometers



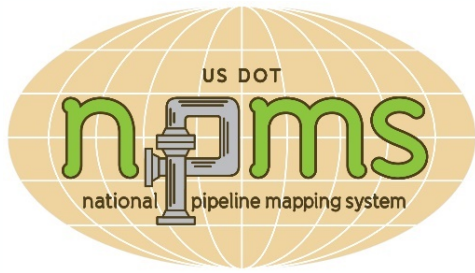


Can I use NPMS data in my agency's GIS system?

Complete the GIS Data Request form on the NPMS website to start your request

- ESRI Shapefile or Geodatabase Feature Class
- All pipelines and attributes in your area of jurisdiction
- LNG Plants and BOTs in your area of jurisdiction are also available by request
- Application has a section for additional information to NPMS staff
 - leave a note if your jurisdiction covers more than 1 county
- Other GIS data available for public download from the NPMS website:
 - High and Other Population Areas
 - Commercially Navigable Waterways
 - Great Lakes Ecological Unusually Sensitive Area
- Data use agreements differ based on jurisdiction type; stronger limitations and agreements if your jurisdiction extends more than 1 county.
 - **NEVER share GIS data**
 - **NEVER share a NPMS map that shows more than the Public Map Viewer**



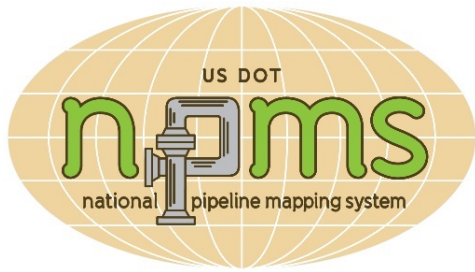


What is New in the NPMS?

Offshore pipelines on the Public Map Viewer

The screenshot shows the NPMS Public Viewer interface. The main map displays the Gulf of Mexico region, with offshore pipelines overlaid in red and blue. The interface includes a search bar, a 'Map Layers' panel on the right, and a status bar at the bottom. The 'Map Layers' panel lists various data layers, including Accidents (Liquid), Incidents (Gas), Gas Transmission Pipelines, Hazardous Liquid Pipelines, LNG Plants, Breakout Tanks, and Populated Areas. The status bar shows the zoom level and coordinates.

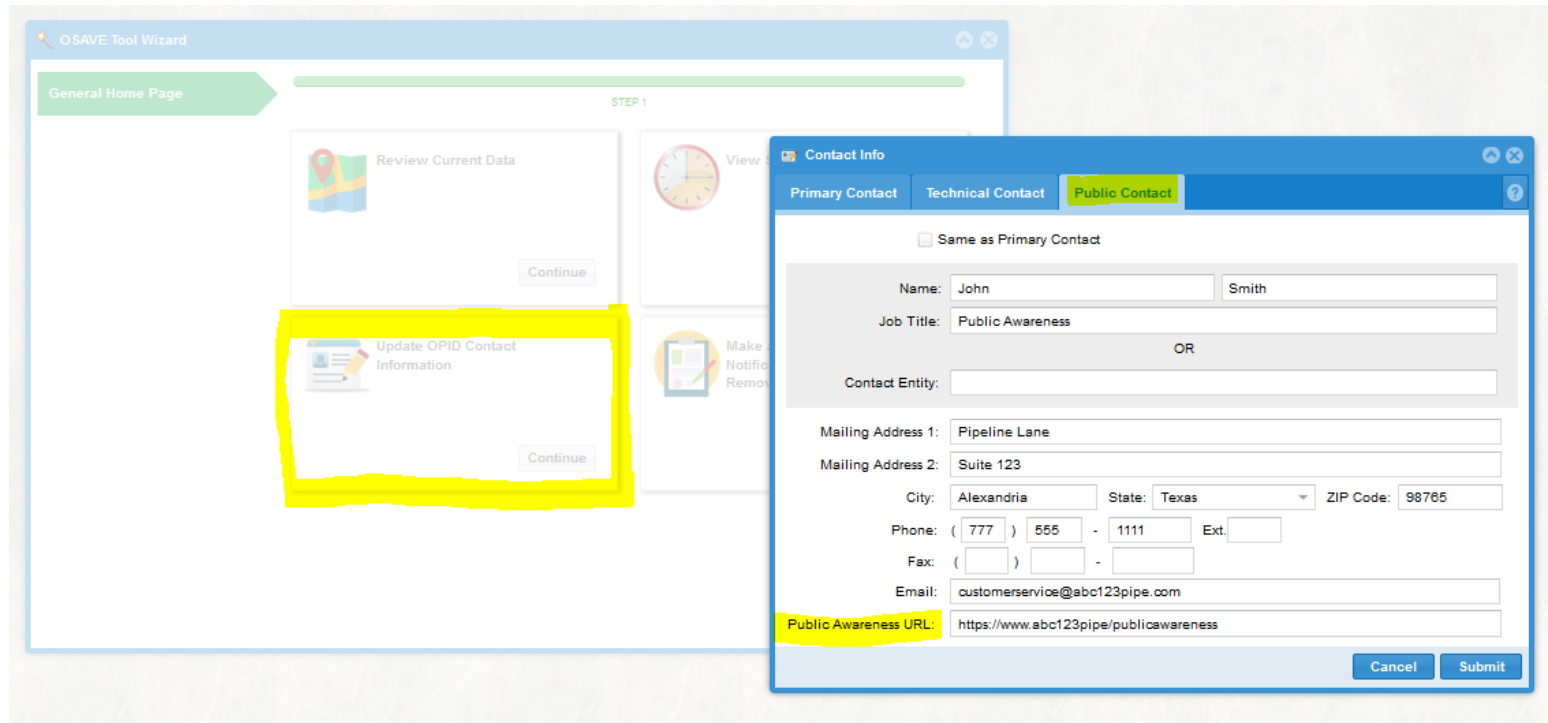


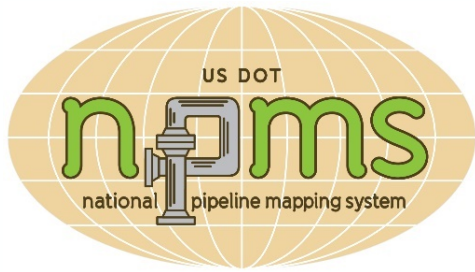


What is New in the NPMS?

Operator Public Awareness URLs

- Opportunity to reach 40,000 monthly NPMS users with your company’s public awareness resources.
- Update URL anytime in OSAVE on Public Contact Information form, and confirm accuracy annually.
- Displayed on PIMMA, Public Viewer and Operator Directory.

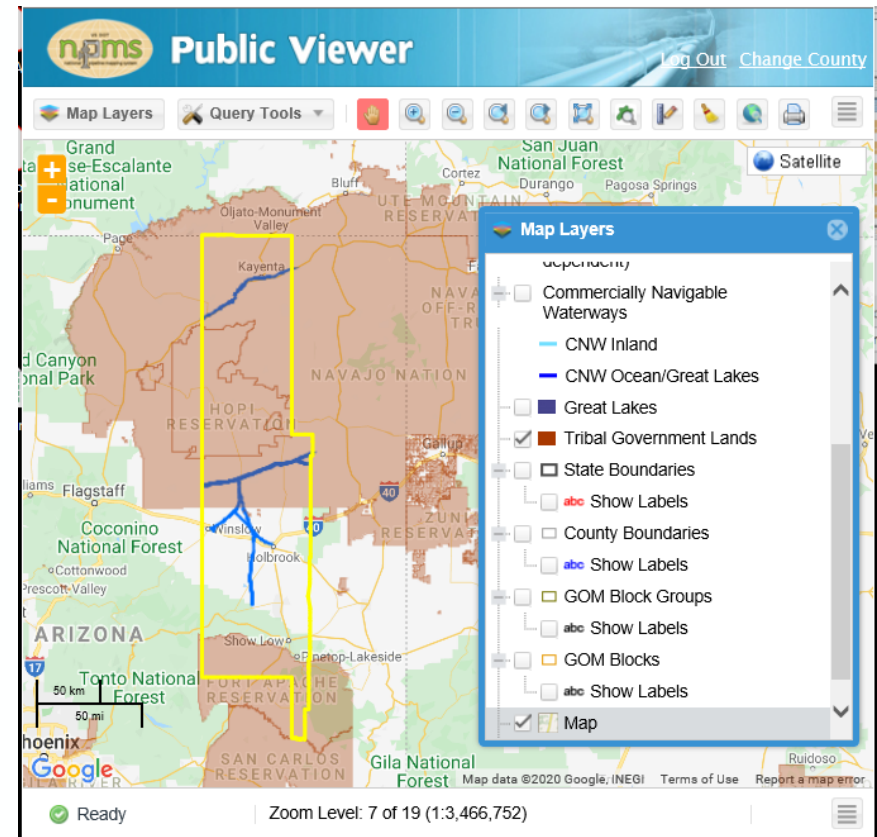


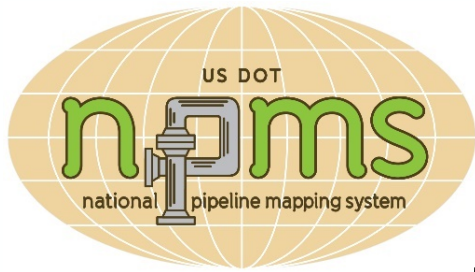


What is New in the NPMS?

Improved resources for Tribal Governments (live November 2020)

- Tribal Government specific PIMMA and GIS Data Request forms
- Tribal lands data on all web map viewers





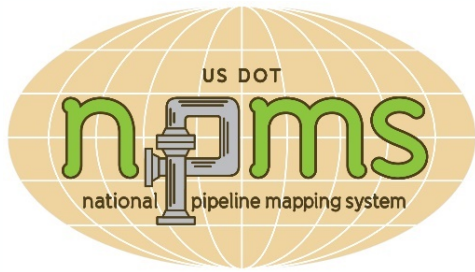
What is New in the NPMS?

New Query Tools on Public Viewer and PIMMA

- Query pipelines in a user defined area (e.g., neighborhood or project location).
- Interact between attribute results and map screen.
- Download attribute and contract information to a spreadsheet.

OPERATO...	OPERATOR NAME	SYSTEM NAME	SUBSYSTEM NAME	PIPL
1845	BUCKEYE PARTNERS, LP	TT700PA	TT700PA	21
1845	BUCKEYE PARTNERS, LP	TT700PA	TT700PA	21
15350	PEOPLES NATURAL GAS...	5030	107795	TF
15350	PEOPLES NATURAL GAS...	5030	113855	TF
15350	PEOPLES NATURAL GAS...	5030	114237	TF
15350	PEOPLES NATURAL GAS...	5030	114782	TF
15350	PEOPLES NATURAL GAS...	5030	116205	TF
15350	PEOPLES NATURAL GAS...	5030	116529	TF
31604	EQUITRANS MIDSTREAM...	PA - INTERSTATE	ALLEGHENY VALLEY CONNECTOR	TF
31604	EQUITRANS MIDSTREAM...	PA - INTERSTATE	EQUITRANS GATHERING	H
99999	ABANDONED	TP 7575 BLACKHAWK TO GIBSON		TF
2616	COLUMBIA GAS TRANSM...	TCO	65	3C
2616	COLUMBIA GAS TRANSM...	TCO	65	3C
2616	COLUMBIA GAS TRANSM...	TCO	65	3C
2616	COLUMBIA GAS TRANSM...	TCO	65	3C
2616	COLUMBIA GAS TRANSM...	TCO	65	3C





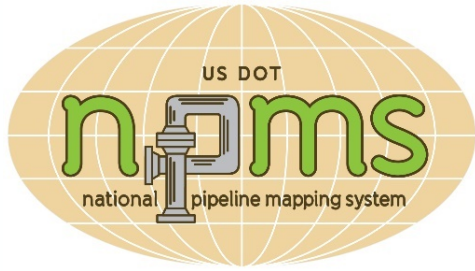
What is New in the NPMS?

Operator Submission Status and History on Public Display

- Displayed on [PHMSA’s Public Pipeline Data Mart](#).
- Available from every user portal on NPMS website, search for any operator name or OPID.
- Displays status, including when the submission was published online or if we are waiting for the operator to correct issues in their submittal.

NPMS Submission Status						
NPMS Submission Status						
Time run: 8/21/2020 4:30:32 PM						
Portal - Data as of 8/20/2020 9:29:42 PM						
Operator ID: 842			Operator Name: AIR LIQUIDE LARGE INDUSTRIES U.S. LP			
Calendar Year	NPMS Compliance	Status	Type	Submission Received	Extension Granted	Operator Error Delays (Count)
2018	Yes	Published to PIMMA Plus 07/15/2019	No change confirmation	2/27/2019	6/6/2019	2
2019	No	Submission Issue; Pending Operator Correction	Full data submission	3/11/2020	7/14/2020	6
Export						

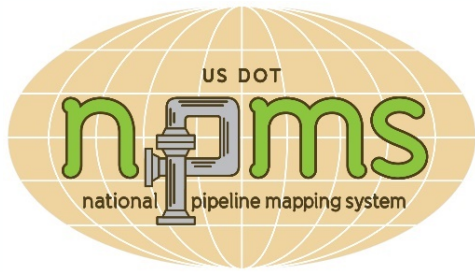




Approved modifications to the NPMS Information Collection

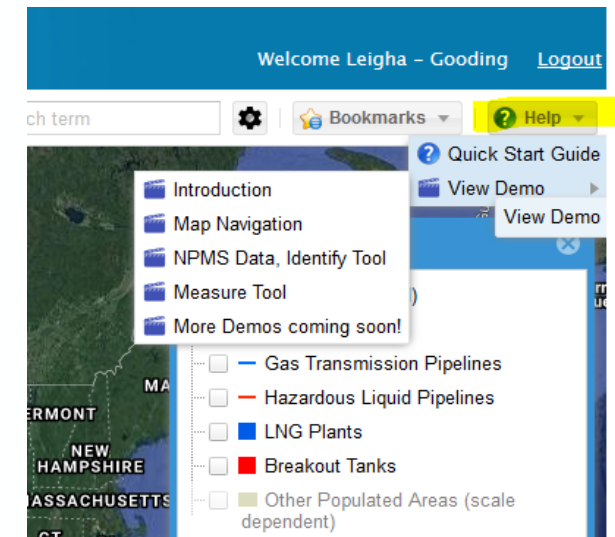
- Recent approval from White House Office of Budget and Management to increase the scope and quality of data in the NPMS regulations:
 - Modernized spatial accuracy requirement from 500ft to 50-100ft.
 - New pipeline attributes, e.g., pipe material, join method, seam type, decade of installation, if the pipe could affect a high consequence area, class location, last assessment method and year, and more.
 - Previously voluntary information is now required, e.g., abandoned pipelines, diameters, BOTs.
 - New data layers related to LNG Plants, including Exclusion Zones and Impoundments.
- New data could arrive as early as 2023.
- Not all data will be available on the Public Map Viewer
- You can read more in the Future NPMS Attribute Standards document in the Operator Section of the NPMS website.





NPMS Technical Support

- Each application has a help menu in the top right corner
- Recommended Browser: [Internet Explorer](#)
- Some new versions of Chrome and FireFox conflict with NPMS software configurations and impact scroll bars
 - If you are unable to use Internet Explorer and experience scroll bar issues, use arrow keys to navigate lists. In Chrome you can usually click and drag the list instead of using the scroll bar.
- Troubleshooting tips:
 - Use Internet Explorer
 - Disconnect from VPN or use a home computer without administration control by your agency
 - Update old browsers if experiencing issues
 - Review help guides and demo videos
 - Send an email to NPMS@dot.gov
 - Emails have faster response rate than phone calls during work from home orders.



Use Internet Explorer



THINK SPATIALLY



GEOGRAPHIC INFORMATION SYSTEMS (GIS)
DEPARTMENT OF TRANSPORTATION

NPMS Questions?

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www.npms.phmsa.dot.gov

npms@dot.gov



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Pipeline and Hazardous Materials
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