

NPMS Information Collection: Overview of changes

September 10, 2015

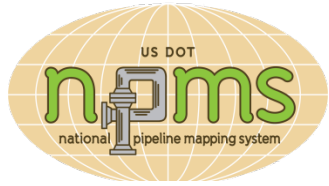
Amy Nelson, GIS Manager



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

To Protect People and the Environment From the Risks of
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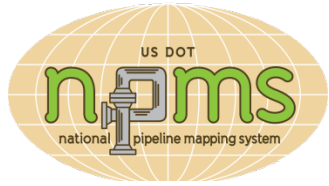




Topics we'll cover

- Changes since 2014 notice
- Data security update
- Linear referencing submission format



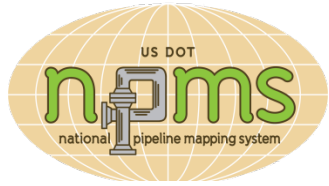


What has changed since 2014?

Positional accuracy standard was changed to 50 feet for most pipelines; reflects feedback from 2014 meeting, submitted comments, and PHMSA's investigations into operators' data collection process

- Gas transmission operators are required to submit data at +/- 50 feet accuracy for all segments which are in a Class 2, Class 3, or Class 4 area; are within a HCA or have one or more buildings intended for human occupancy; an identified site (See 49 CFR §192.903); a right-of-way for a designated interstate; freeway, expressway, or other principal 4-lane arterial roadway as defined in the Federal Highway Administration's "Highway Functional Classification Concepts" within its potential impact radius. *All other gas pipeline segments must be mapped to a positional accuracy of +/- 100 feet.*
- Hazardous liquid pipeline operators are required to submit data at +/- 50 feet accuracy

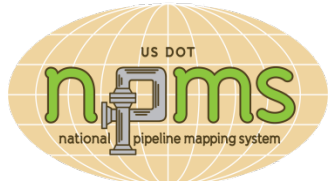




Positional Accuracy

- New standard is based on PHMSA and stakeholder needs and viability with existing industry data
 - 100 foot standard is meant to accommodate lines in very rural areas
- National Map accuracy is 40 feet
- New standard will be applied to centerline, not to attributes unless specified
- Although new standard will likely be implemented in 2020, operators should begin planning now



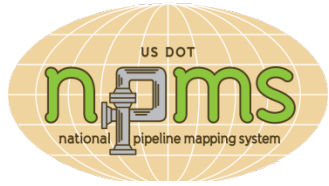


Dropped attributes

PHMSA dropped eight attributes as a result of comments and internal discussions

- Installation method at water crossings
- Year of last direct assessment
- Type of leak detection
- Special permit segment and permit number
- Offshore gas gathering line
- Average daily throughput
- Refineries
- Gas processing/treatment plants

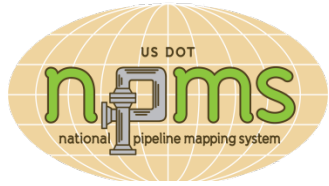




Modified attributes

- Positional accuracy
- Decade ~~year~~ of construction
- Hydrotest replaced with pressure test
- “Predominant” (90%) applies to pipe grade and decade of installation
- Highest % operating SMYS definition changed:
 - Formerly: “Hoop stress caused by highest operating pressure during the year as a percent of Specified Minimum Yield Strength.”
 - Now: “Hoop stress corresponding to the maximum operating pressure (MOP) or maximum allowable operating pressure (MAOP) as a percentage of SMYS.”

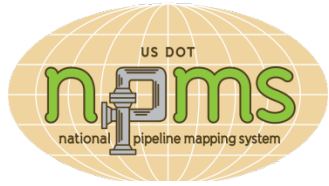




Please note

- Installation will be tracked by decade, not year, and has a 90% “predominant” threshold
- Please submit a comment if you wish to include predominant on other attributes
- Pump/compressor stations, mainline block valves, and gas storage fields will be separate GIS files from the pipeline file

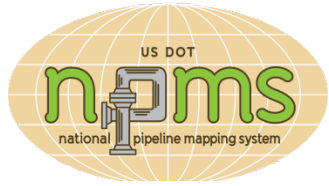




Stop the Press

- Please refer to the “NPMS_Operator_Standards_Manual_v2” on the docket (rose-colored cover)
- “Somastic” has been added as a coating type choice
- Seam type choices will be updated to reflect API Specification 5L
 - Abbreviations will follow API 5L as well
 - Electric flash weld, spiral submerged arc welded, submerged arc welded helical, and submerged arc welded longitudinal will be added
- Appendix D (LRS) in the earlier version erroneously referenced special permits and installation at water crossings; these have been dropped from the Information Collection
- Correct definition for % operating SMYS is: “Hoop stress corresponding to the maximum operating pressure (MOP) or maximum allowable operating pressure (MAOP) as a percentage of SMYS.”

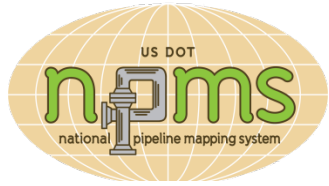




Data Security

- Government systems are under scrutiny in wake of OPM hacking and trust has been decreased
- OPM systems have no connection to DOT systems
- Each year, the NPMS system undergoes C&A checks and any vulnerable conditions are remedied
- Security scans are run on NPMS servers each month
- NPMS servers have never been hacked
- NPMS application servers are physically separate from machines processing incoming data





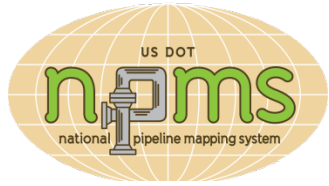
Data Security

PHMSA has had further discussions with TSA on the topic of whether each new element should be

- Non-restricted (available in the Public Viewer)
- Restricted to the PIMMA audience (government officials and pipeline operators), or
- Designated as SSI

Designations are still a work in progress; we welcome your comments



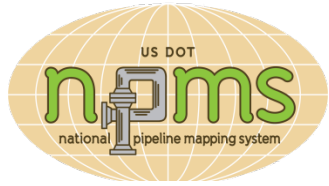


Non-restricted elements

These elements would be available in the Public Viewer

- Centerlines with new accuracy standard
- Pipe material
- Pipe joining method
- Onshore/offshore
- Abandoned lines
- Breakout tanks

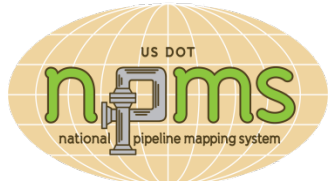




Elements restricted to PIMMA

- Diameter
- Commodity detail
- Pipe grade
- Seam type
- Decade of installation
- Wall thickness
- Inline inspection
- Class location
- Gas HCA segment
- Year of last ILI inspections
- Coated/uncoated and cathodic protection
- Type of coating
- FRP control and sequence numbers
- Year of last/original pressure tests
- Pump and compressor stations
- Gas storage fields
- New LNG plant attributes



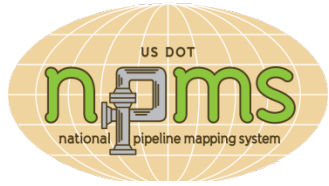


Potential SSI data elements

If designated as SSI, these elements would not be available to other eligible parties unless they supply proof that they maintain an SSI-compliant environment; PHMSA would, of course, follow all SSI protocol in-house

- Highest percent operating SMYS
- MAOP/MOP
- Segment “could affect” an HCA
- Mainline block valves





Operator Standards Manual

- The Standards Manual is the authoritative document for preparing an NPMS submission
- To view the draft which accompanies the latest Federal Register notice, follow the steps on the next slides
- Appendix A has a complete list of the new attributes and acceptable values for each, as well as information about those attributes which are not attached to the pipe centerline (such as pump & compressor stations)




From the Federal Register Notice, scroll down and click on the “Docket Number” link

- B. Year of Last Direct Assessment
- C. Type of Leak Detection
- D. Special Permit Segment and Permit Number
- E. Offshore Gas Gathering Line (Y/N)
- F. Average Daily Throughput
- G. Refineries
- H. Gas Processing and Treatment Plants
- III. Retained Attributes
 - A. Positional Accuracy
 - B. Pipe Diameter
 - C. Wall Thickness
 - D. Commodity Detail
 - E. Pipe Material
 - F. Pipe Grade

2015-21238

Shorter URL:
<https://federalregister.gov/a/2015-21238>



Regulations.gov Docket Info

Docket Number
[PHMSA-2014-0092](#)

Docket Name
Pipeline Safety: Request for Revision of a Previously Approved Information Collection

Public Comments
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Pipeline Safety: Request for Revision of a Previously Approved Information Collecti

Docket Folder Summary [View all documents and comments in this Docket](#)

Docket ID: PHMSA-2014-0092 **Agency:** Pipeline and Hazardous Materials Safety Administration (PHMSA) **Parent Agency:** Depar

Summary:
Pipeline Safety: Request for Revision of a Previously Approved Information Collection

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Notice **Posted:** 08/27/2015 **ID:** PHMSA-2014-0092-0040

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Notice **Posted:** 09/30/2014 **ID:** PHMSA-2014-0092-0006

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Notice **Posted:** 07/30/2014 **ID:** PHMSA-2014-0092-0002

O [U.S. DOT/PHMSA - National Pipeline Mapping System - DRAFT Operating Standards Manual \(8/27/15\)](#)
Other **Posted:** 08/27/2015 **ID:** PHMSA-2014-0092-0041

O [U.S. DOT/PHMSA - Petition](#)
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Click on the Standards Manual link to retrieve the file

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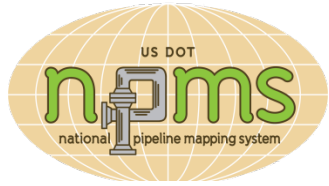
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U.S. DOT/PHMSA - National Pipeline Mapping System - Operator Standards Manual DRAFT to accompany Information Collection 2137-0596 Other Posted: 07/30/2014 ID: PHMSA-2014-0092-0001
Agency Information Collection Activities; Proposals, Submissions, and Approvals: National Pipeline Mapping System Program

Use _v2 version
(rose-colored
cover, not orange
cover) which will
be posted
imminently

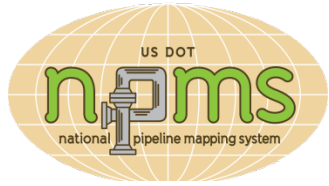


Linear Referencing Submissions (LRS)

Please refer to Appendix D in the Operator Standards Manual for a full explanation

- **We will continue to accept submissions in the traditional format; this is simply an alternate way to submit**
- Linear referencing uses routes and measures to describe features on a centerline
- LRS format is intended to help operators who use PODS or APDM data models

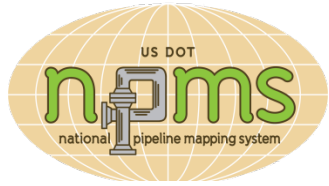




Linear Referencing Submissions (LRS)

- Centerline feature class contains pipe location
- Various attribute tables described in Appendix D contain pipe attributes
- **Route_ID field** links centerline to attributes; equivalent to PODS Route_ID or APDM Physical Lineloop
- A file geodatabase template for ESRI users has been developed and is linked to in Appendix D





Questions?



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