

# Updated NPMS Attribute Standards and Revision Summary

Information Collection 2137-0596

## Introduction

The information presented here reflects the revision of the National Pipeline Mapping System (NPMS) Information Collection (OMB Control No. 2137-0596) approved by the Office of Management and Budget (OMB) on January 22, 2020 and additional changes proposed by PHMSA in March 2022 in Docket PHMSA-2021-0085. This document summarizes revisions to the NPMS data submittal requirements and explains the implementation timeline, the new spatial accuracy requirement and all required attribute fields, names, properties and acceptable values. Prior to the year when Phase 1 data elements are required, PHMSA will publish the information in this document in an updated NPMS Operator Standards Manual and record video demonstrations or conduct webinars about the data standards and submission process changes. Until then, information about current NPMS submittal requirements, including demonstration videos and recorded webinars, can be found on the NPMS website at [www.npms.phmsa.dot.gov](http://www.npms.phmsa.dot.gov).

## Revision Summary

- Modernized spatial accuracy requirement.
- New pipeline and LNG plant attributes, as outlined in the attribute standards tables in this document.
- Previously voluntary data elements become required, including abandoned pipelines that previously operated as gas transmission or hazardous liquid pipelines, pipeline diameter, pipeline commodity details, pipeline facility response plan sequence number and breakout tank locations with attributes.
- New NPMS data submission requirements for LNG plant impoundment and thermal exclusion zones (polygons).
- When designated, pipeline attributes may be reported as unknown when accurate information is not available, or as a predominant value (representing at least 90% of the pipeline segment).

## Implementation Timeline

Phase 0 does not include new data elements but will make some currently voluntary data elements mandatory. PHMSA may start requiring Phase 0 data elements, including pipelines permanently abandoned during the reporting year, in NPMS submittals due in 2024 (reporting the system as-of 12/31/2023). PHMSA will start collecting Phase 1 data no earlier than 2027 (reporting the system as-of 12/31/2026) and Phase 2 data no earlier than 2028 (reporting the system as-of 12/31/2027). The spatial accuracy requirements in Phase 3 are mandatory in 2027 (reporting the system as-of 12/31/2026). All new data layers (i.e., LNG plant impoundments, LNG plant thermal exclusion zones and breakout tanks) are required in Phase 1. The required implementation phase for each data element and the modernized spatial accuracy requirement are explained below.

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PHMSA cannot accept new data elements prior to the required implementation phase. PHMSA currently accepts data that meets the modernized spatial accuracy and any voluntary data element in the NPMS Operator Standards Manual currently available on the NPMS website.

### Spatial Accuracy

No later than 2027, hazardous liquid pipeline operators must submit data with a positional accuracy within +/- 50 feet. No later than 2027, gas transmission operators must submit data within +/- 50 foot accuracy for all segments which meet one or more of the following criteria:

1. In a Class 2, Class 3, or Class 4 area;
2. Within an HCA or MCA;
3. Required to be assessed under 49 CFR 192.710; or
4. Has one or more buildings intended for human occupancy or an identified site within its potential impact radius.

All other gas transmission pipeline segments must be mapped to a positional accuracy within +/- 100 feet.

### Attributes

Operators are required to provide descriptive information about each pipeline facility feature in their annual NPMS submittals. The attribute data is essential information about each pipeline segment, breakout tank, or LNG plant, impoundment or thermal exclusion zone, and includes information about the facility, operator, operations, assessments or location. The following tables outline all attribute fields and acceptable values as required by PHMSA's proposed modification to the NPMS Information Collection published in March 2022 in Docket 2021-0085. The first field indicates if the attribute is required in implementation Phase 0, 1, 2 or 3; no phase is indicated for attributes that were approved and required as part of the NPMS Information Collection prior to January 2020, and an asterisk (\*) indicates an attribute that becomes mandatory during that phase. For permanently abandoned pipelines, report attributes that reflect operations prior to permanent abandonment. For additional technical details, such as attribute templates, please visit the NPMS website at [www.npms.phmsa.dot.gov](http://www.npms.phmsa.dot.gov).

YES in the Public column indicates that the attribute will be made available to the public. NO indicates that the attribute will be made available only to government officials with PIMMA accounts. N/A in the Public column indicates that the attribute exists only in the background and is not available to the public or government officials.

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### Pipeline Attribute Table (GIS Polyline Layer)

Phase	Attribute Field Name	Public	Short Description	Pipeline Attribute Field Full Description	Acceptable Values - UPPERCASE	Attribute Field Required? <i>Gas, Liquid, Both or otherwise as indicated</i>
	OPER_LINK	N/A	Unique Link ID	<p>Field Type = Character, Field Length 20</p> <p>Link between the geospatial elements (pipeline segments) and their respective attribute records. Assigned by the operator or the operator's software package (i.e., COVER-ID, MSLINK_ID, etc.).</p> <p>Note: the OPER_LINK and the PLINE_ID may be identical.</p> <p>Once processing is complete, the OPER_LINK value will be removed from the data by NPMS staff as it will no longer be needed.</p>	Character	Both- If your attributes are <b>not</b> included in the geospatial file.
	OPID	YES	Operator ID Number	<p>Field Type = Integer, Long</p> <p>Unique tracking number assigned by PHMSA to the company that physically operates the pipeline system. If you do not know your company's OPID, check with your DOT/Regulatory Compliance department or the NPMS website. Always use the same OPID for all PHMSA reporting requirements that apply to the pipeline segment. For example, if you use OPID 100 for this pipeline segment in the NPMS, you must use OPID 100 for this pipeline segment on the Annual Report to PHMSA.</p>	Positive integer	Both
	OPER_NM	YES	Operator Name	<p>Field Type = Text, Field Length = 100</p> <p>The name of the company that physically operates the pipeline system. This is the company name associated with this OPID Number in PHMSA records.</p>	Character	Both
	SYS_NM	YES	Pipeline System Name	<p>Field Type = Text, Field Length = 40</p> <p>Assigned by the operator. The operator's name for a functional grouping of pipelines.</p>	Character	Both
	SUBSYS_NM	YES	Pipeline Sub-System Name	<p>Field Type = Text, Field Length = 40</p> <p>Assigned by the operator. A unique name for a smaller sub-section of a pipeline system. A subset of System Name.</p>	Character	Not Required
	PLINE_ID	YES	Pipeline Segment ID	<p>Field Type = Text, Field Length = 20</p> <p>Assigned by the operator. A unique identifier for a specific segment of pipeline within a pipeline system.</p>	Character	Both

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Phase	Attribute Field Name	Public	Short Description	Pipeline Attribute Field Full Description	Acceptable Values - UPPERCASE	Attribute Field Required? <i>Gas, Liquid, Both or otherwise as indicated</i>
0 *	DIAMETER	NO	Diameter reported in Nominal Pipe Size (NPS)	<p>Field Type = Double (5, 3)</p> <p>Nominal pipe size of the pipeline segment; identifies the diameter with a dimensionless value, (e.g., 8.625" outside diameter pipe is reported as NPS 8, 5" outside diameter pipe is NPS 4.5). Decimals are only accepted when less than NPS 5.</p>	Positive Integer or Decimal when less than NPS 5	Both
	COMMODITY	YES	Primary Commodity Category	<p>Field Type = Text, Field Length = 3</p> <p>Identifies the primary commodity carried by the pipeline system.</p> <p>Valid Liquid Commodities: CRD=crude oil, PRD=non-HVL petroleum product, AA=anhydrous ammonia, LPG=liquefied petroleum gas, NGL=natural gas liquids, OHV=other HVLs, CO2=carbon dioxide, ETH=fuel grade ethanol, and EPL=permanently abandoned pipeline segment that previously transported a liquid (only acceptable when Pipeline Status Code is reported as PB).</p> <p>Valid Gas Commodities: NG=natural gas, PG=propane gas, SG=synthetic gas, HG=hydrogen gas, LG=landfill gas, OTG=other gas, and EPG=permanently abandoned pipeline segment that previously transported a gas (only acceptable when Pipeline Status Code is reported as PB).</p> <p>Note that when propane is transported as a liquid, report the Primary Commodity Category as LPG. The PG value should only be reported when the propane is transported as a gas.</p> <p>Note that when the pipeline segment is permanently abandoned, the use of EPL or EPG should represent the commodity that was previously transported. For instance, a natural gas transmission line that was later filled with water during the permanent abandonment process would be coded EPG because a gas commodity was last transported. Please report if the abandoned pipeline segment is refilled with water, nitrogen, or another permanent abandonment material in the Commodity Description field.</p> <p>Note that EPG and EPL may only be used for permanently abandoned pipelines. Active unfilled pipelines, even if they are purged, should reflect the commodity last transported. If the pipeline is purged and refilled with a non-transported material please report the fill material (e.g., water, nitrogen) in the Commodity Description field.</p>	<p>Liquid Commodities CRD, PRD, AA, LPG, NGL, OHV, CO2, ETH, EPL</p> <p>Gas Commodities NG, PG, SG, HG, LG, OTG, EPG</p>	Both

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Phase	Attribute Field Name	Public	Short Description	Pipeline Attribute Field Full Description	Acceptable Values - UPPERCASE	Attribute Field Required? <i>Gas, Liquid, Both or otherwise as indicated</i>
0*	CMDTY_DTL1	NO	Commodity Detail 1	<p>Field Type = Text, Field Length = 3</p> <p>Identifies the primary commodity's first subcategory detail. If the primary commodity defined in the Commodity Category field is not CRD, PRD, or NG, this field should be left blank.</p> <p>The primary commodity CRD has the following subcategories: CRW=sweet crude, CRR=sour crude.</p> <p>The primary commodity PRD has the following subcategories: RGS=refined non-ethanol blended gasoline, RFD=refined fuel oil, diesel, RKJ=refined kerosene, jet fuel, OTR=other, ETB=ethanol blended gasoline, BDB=biodiesel blend, OBI=other biofuels.</p> <p>The primary commodity NG has the following subcategories: NG1=pipeline quality or tariff quality natural gas, NG2=wet but non-sour natural gas, NG3=sour but non-wet natural gas, NG4=wet, sour natural gas.</p>	CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4	Both- If Primary Commodity Category is crude oil (CRD), non-HVL petroleum product (PRD) or natural gas (NG).
	CMDTY_DTL2	NO	Commodity Detail 2	<p>Field Type = Text, Field Length = 3</p> <p>Identifies the primary commodity's secondary subcategory detail if more than one applies. Refer to the Commodity Detail 1 field for additional information and valid values. If only one commodity detail applies, this field should be blank.</p>	CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4	Not Required
	CMDTY_DTL3	NO	Commodity Detail 3	<p>Field Type = Text, Field Length = 3</p> <p>Identifies the primary commodity's tertiary subcategory detail. Refer to the commodity field for additional information and valid values. If only one or two commodity details apply, this field should be blank.</p>	CRW, CRR, RGS, RFD, RKJ, OTR, ETB, BDB, OBI, NG1, NG2, NG3, NG4	Not Required
	CMDTY_DESC	YES	Commodity Description	<p>Field Type = Text, Field Length = 40</p> <p>Describes additional details about the commodity carried by the pipeline segment. If a pipeline segment is permanently abandoned or purged, report if that pipeline segment was filled with water, nitrogen, or another material. For example, "PURGED WITH NITROGEN".</p>	Character	Not Required
	INTERSTATE	YES	Interstate Yes/No	<p>Field Type = Text, Field Length = 1</p> <p>Yes / No designator to identify if the pipeline system is an interstate pipeline. Y=interstate, N=intrastate. (Use PHMSA definitions for interstate status; see NPMS Operator Standards Manual glossary).</p>	Y, N	Both

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	LOW_STRESS	NO	Low Stress Yes/No	<p>Field Type = Text, Field Length = 1</p> <p>Yes / No designator to identify if the hazardous liquid pipeline segment is a low stress pipeline. Y=low stress, N=not low stress.</p> <p>Required for active filled liquid pipeline segments. If the hazardous liquid pipeline operates at 20% or less of SMYS, the segment is a low stress pipeline.</p> <p>Field should be left blank for gas pipelines, active unfilled pipelines or permanently abandoned pipelines.</p>	Y, N	Liquid- If Pipeline Status Code is active filled (AF)
	STATUS_CD	YES	Pipeline Status Code	<p>Field Type = Text, Field Length = 2</p> <p>Identifies the status of the pipeline segment as of the reporting year (i.e., December 31 of the previous year). AF=active filled (transported a commodity), AU=active unfilled (option when a pipeline segment is not permanently abandoned in place, but also did not transport a commodity), PA=permanently abandoned in place in accordance with federal regulations.</p>	AF, AU, PA	Both
3	QUALITY_RQ	NO	Data Quality Requirement Category	<p>Field Type = Text, Field Length = 1</p> <p>Identifies if the segment is subject to a 50-foot positional accuracy standard or a 100-foot positional accuracy standard. Liquid segments are subject to a 50-foot positional accuracy. 50-foot positional accuracy is required for gas segments when one or more of the following criteria are met:</p> <ol style="list-style-type: none"> <li>1. In a Class 2, Class 3, and Class 4 area;</li> <li>2. Within an HCA or MCA;</li> <li>3. Required to be assessed under 49 CFR 192.710; and</li> <li>4. Has one or more buildings intended for human occupancy or an identified site within its potential impact radius.</li> </ol> <p>100-foot positional accuracy applies to all other gas segments. A=50 feet, B=100 feet.</p>	A, B	Both
	QUALITY_CD	NO	Data Quality Code (Positional Accuracy)	<p>Field Type = Text, Field Length = 1</p> <p>Identifies the positional accuracy of the submitted data. A=less than 5 feet, B=5-25 feet, C=25.01-50 feet, D=50.01-100 feet, E=greater than 100 feet</p>	A, B, C, D, E	Both

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	REVIS_CD	YES	Revision Code	<p>Field Type = Text, Field Length = 1</p> <p>Identifies the type of revision that applies to this pipeline segment. Describes how this pipeline segment has changed compared to the previous NPMS submission for this OPID. NPMS staff rely on this attribute to support change detection and creation of spatialized pipeline history.</p> <p>A=this segment is a new addition to the NPMS for this OPID this year, unrelated to construction or changes in jurisdiction (e.g., acquired or assumed operatorship from a different pipeline operator, erroneously omitted from the previous submission for this OPID),</p> <p>C=this segment is a new addition to the NPMS for this OPID this year, due to new construction that adds mileage or is a re-route (e.g., laid a new segment of pipe around a separate pipeline segment),</p> <p>J=this segment is a new addition to the NPMS for this OPID this year, due to mileage that is new to PHMSA's jurisdiction (e.g., upgraded from gas gathering to gas transmission, now subject to Part 195 regulations),</p> <p>S=this segment only reflects a spatial modification to a pipeline segment included in the previous NPMS submittal for this OPID (e.g., re-GPSed line for improved spatial accuracy),</p> <p>T=this segment only includes an attribute modification to a pipeline segment included in the previous NPMS submittal for this OPID (e.g., new System Name value, but segment reflects no spatial changes),</p> <p>B=both a spatial and attribute modification to a pipeline segment included in the previous NPMS submittal for this OPID, or</p> <p>N=no change to the matching pipeline segment included in the previous NPMS submittal for this OPID (e.g., nothing about the operation of this pipeline segment or the data representing this pipeline segment has changed – the spatial and attribute components are an exact match).</p> <p>Please read more about selecting the correct Revision Code value in the NPMS Operator Submission Supplemental Instructions.</p> <p>If you submit a pipeline segment with Revision Code A, C or J, and it appears to match a pipeline segment included in the previous NPMS submittal for this OPID, NPMS staff cannot accept and process your data submission. The same is true if you submit a pipeline segment with Revision Code N and there is no exact match for that pipeline segment in the previous NPMS submittal for this OPID. If you are unable to determine if the revision on a pipeline segment is limited to only an attribute or only a spatial change, it is okay to report the Revision Code as B for both (attribute and/or spatial change).</p>	A, C, J, S, T, B, N	Both
1	MATERIAL	YES	Type of Pipeline Material	<p>Field Type = Text, Field Length = 3</p> <p>Identifies the material of the pipeline segment. C=cast iron, P=plastic, S=steel, CM=composite, W=wrought iron, O=other.</p>	C, P, S, CM, W, O	Both

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1	MATERIALO	YES	Other Pipeline Material Type	Field Type = Text, Field Length = 40 Describes the type of pipeline material if other (O) is selected in the Type of Pipeline Material field.	Character	Both- If Type of Pipeline Material is other (O)
2	WALL_TH	NO	Wall Thickness	Field Type = Double, (4,3) Wall thickness of the pipeline segment, in inches (three decimal places, #.###). When the wall thickness is unknown, report the wall thickness as 9.999.	Decimal	Both
1	COATED	NO	Coated Yes/No	Field Type = Text, Field Length = 1 Yes / No designator to identify if the pipeline segment is coated. Y=coated, N=not coated.	Y, N	Both
1	PIPE_JOIN	YES	Predominant Pipeline Joining Method	Field Type = Text, Field Length = 1 Identifies the actual or predominant (90% of pipeline segment) pipeline joining method for this pipeline segment. W=welded, C=coupled, S=screwed, F=flanged, P=plastic pipe joint, U=unknown, O=other.	W, C, S, F, P, U, O	Both
1	PIPE_JOINO	YES	Other Pipeline Join Method	Field Type = Text, Field Length = 40 Describes the pipeline joining method when Predominant Pipeline Join Method is reported as other (O).	Character	Both- If Pipe Join is other (O)
2	SMYS_S	NO	Predominant Specified Minimum Yield Strength of Steel Pipe	Field Type = Integer, Long Identifies the actual or predominant (90% of pipeline segment) specified minimum yield strength (SMYS) when Type of Pipeline Material is steel pipe (S), reported in pounds per square inch gauge (psig). When SMYS is unknown, report the SMYS as 9999.	Positive Integer	Both- If Material is steel (S)



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2	SEAM_TYPE	NO	Seam Type	Field Type = Text, Field Length = 10  Identifies the seam type for this pipeline segment. SMLS=seamless LFRW=low frequency or direct current electric resistance welded, HFRW=high frequency electric resistance welded, UERW=electric resistance welded with unknown frequency (possible if made around 1970), DSAW=double side submerged arc weld, SSAW=single side submerged arc weld, SPRSAW=spiral single side submerged arc weld, EFW=flash weld, LAPW=lap weld, FBW=furnace butt weld, PLAS=plastic, O=other unlisted seam type, or U=unknown seam type.	SMLS, LFRW, HFRW, UERW, DSAW, SSAW, SPRSAW, EFW, LAPW, FBW, PLAS, O, U	Both
2	SEAM_TYPEO	NO	Other Seam Type	Field Type = Text, Field Length = 40  Describes the seam type when Seam Type is reported as other (O).	Character	Both- If Seam Type is other (O)
2	DECADE_IN	NO	Predominant Decade of Installation	Field Type = Text, Field Length =5  Identifies the actual or predominant (90% of pipeline segment) decade of installation for this pipeline segment. P1940=Pre-1940; P1950=1940-1949; P1960=1950-1959; P1970=1960-1969; P1980=1970-1979; P1990=1980-1989; P2000=1990-1999; P2010=2000-2009; P2020=2010-2019; P2030=2020-2029; U=unknown.	P1940, P1950, P1960, P1970, P1980, P1990, P2000, P2010, P2020, P2030, U	Both
1	OFFSHORE	YES	Offshore Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the pipeline segment is offshore. Y=offshore, N=onshore per 49 CFR §191.3 and 49 CFR §195.2. Must reflect onshore/offshore designations reflected in operator's Annual Report to PHMSA.	Y, N	Both

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Phase	Attribute Field Name	Public	Short Description	Pipeline Attribute Field Full Description	Acceptable Values - UPPERCASE	Attribute Field Required? <i>Gas, Liquid, Both or otherwise as indicated</i>
1	ILI_ABLE	NO	Inline Inspection Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the pipeline is capable of accepting an inline inspection (ILI) tool with currently available technology. Y=capable, N=not capable.  Per NACE Standard RP0102-2002: Inline Inspection is defined as the inspection of a pipeline from the interior of the pipe using an in-line inspection tool. Also called intelligent or smart pigging. Inline Inspection Tool is defined as a device or vehicle that uses a nondestructive testing technique to inspect the pipeline from the inside. Also known as intelligent or smart pig.	Y, N	Both
1	CLASS	NO	Predominant Class Location	Field Type = Short Integer  Actual or predominant (90% of pipeline segment) class location for a gas transmission pipeline segment (per 49 CFR § 192.5). 1=class 1, 2=class 2, 3=class 3, 4=class 4	1, 2, 3, 4	Gas
1	GAS_HCA	NO	Gas HCA Segment Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if a gas pipeline segment is in a gas HCA (High Consequence Area) per 49 CFR § 192.903. Y=in a gas HCA, N=not in a gas HCA.  If a pipeline segment is in an MCA or is subject to assessment under 192.710 it cannot be in an HCA.	Y, N	Gas
1	GAS_MCA	NO	Gas MCA Segment Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if a gas pipeline segment is in a gas MCA (Moderate Consequence Area) per 49 CFR § 192.3. Y=in a gas MCA, N=not in a gas MCA.  If a pipeline segment is in an HCA it cannot be in an MCA.	Y, N	Gas
1	GAS_ASSESS	NO	Gas Assessment under 192.710 Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if a gas pipeline segment is subject to assessment per 49 CFR § 192.710. Y=subject to 192.710 Assessment, N=not subject to 192.710 Assessment.  If a pipeline segment is in an HCA it cannot be subject to assessment under 192.710.	Y, N	Gas
2	HPA_AFF	NO	Segment «Could Affect» HPA HCA Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the liquid pipeline segment is in an area that could affect a High Consequence Area (HCA) categorized as a Highly-Populated Area (HPA). Y=could affect, N=could not affect.	Y, N	Liquid

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2	OPA_AFF	NO	Segment «Could Affect» OPA HCA Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the liquid pipeline segment is in an area that could affect a High Consequence Area (HCA) categorized as an Other Populated Area (OPA). Y=could affect, N=could not affect.	Y, N	Liquid
2	ECO_AFF	NO	Segment «Could Affect» Ecological USA HCA Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the liquid pipeline segment is in an area that could affect a High Consequence Area (HCA) categorized as an Ecological USA (either operator-determined Ecological USA or one from the datasets distributed by PHMSA) per 49 CFR § 195.6. Y=could affect, N=could not affect.	Y, N	Liquid
2	CNW_AFF	NO	Segment «Could Affect» CNW HCA Yes/No	Field Type = Text, Field Length = 1  Yes / No designator to identify if the liquid pipeline segment is in an area that could affect a High Consequence Area (HCA) categorized as a Commercially Navigable Waterway (CNW). Y=could affect, N=could not affect.	Y, N	Liquid
2	ASSMNT_M1	NO	Method of Most Recent Assessment 1	Field Type = Text, Field Length = 5  Identifies the most recent method, if the pipeline segment is required to be assessed per § 195 Subpart F, §192 Subpart O, or § 192.710. ILI=inline inspection, PT=hydrostatic pressure test, DIR=direct assessment method, GWUT=guided wave ultrasonic testing, EXAM=direct examination, O=other assessment method.  If an assessment is required, but has not been completed yet, enter PEND.  If assessment is not required, enter NOTR.	ILI, PT, DIR, GWUT, EXAM, O, PEND, NOTR	Both
2	ASSMNT_M2	NO	Method of Most Recent Assessment 2	Field Type = Text, Field Length = 5  Use this field only if more than one assessment method was performed during ASSMNT_YR. ILI=inline inspection, PT=hydrostatic pressure test, DIR=direct assessment method, GWUT=guided wave ultrasonic testing, EXAM=direct examination, O=other assessment method.  If only one assessment method applies, this field should be blank.	ILI, PT, DIR, GWUT, EXAM, O	Not Required

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2	ASSMNT_M3	NO	Method of Most Recent Assessment 3	<p>Field Type = Text, Field Length = 5</p> <p>Use this field only if more than two assessment methods were performed during ASSMNT_YR. ILI=inline inspection, PT=hydrostatic pressure test, DIR=direct assessment method, GWUT=guided wave ultrasonic testing, EXAM=direct examination, O=other assessment method.</p> <p>If only one or two assessment method applies, this field should be blank.</p>	ILI, PT, DIR, GWUT, EXAM, O	Not Required
2	ASSMNT_YR	NO	Year of Most Recent Assessment	<p>Field Type = Integer, Short</p> <p>The 4-digit year of the most recent assessment (e.g, 2022), If the segment of pipeline is required to be assessed per § 195 Subpart F, § 192 Subpart O, or § 192.710.</p> <p>Leave this field blank if ASSMNT_M1 is PEND or NOTR.</p>	Positive Integer	Both- If Method of Most Recent Assessment 1 is neither NOTR nor PEND
2*	FRP_SEQ	NO	FRP Sequence Number	<p>Field Type = Integer, Short</p> <p>Facility Response Plan (FRP) Sequence Number assigned by PHMSA and provided to the operator in the Letter of Approval (LOA) for the operator's submitted FRP. If PHMSA has not assigned the FRP Sequence Number yet, submit 9999.</p> <p>If the Primary Commodity Category field is CRD or PRD, and the Offshore Yes/No field is Y, this field cannot be left blank.</p>	Positive Integer	Liquid- if applicable per 49 CFR § 194

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### LNG Plant Attribute Table (GIS Point Layer, centroid)

Phase	Attribute Field Name	Public	Short Description	LNG Plant Attribute Field Full Description	Acceptable Values (UPPERCASE)	Field Required?
	OPID	YES	Operator ID Number	Field Type = Integer, Long  Unique tracking number assigned by PHMSA to the company that physically operates the LNG plant. If you do not know your company's OPID check with your DOT/Regulatory Compliance department or the NPMS website. Always use the same OPID for all PHMSA reporting requirements that apply to the LNG plant. For example, if you use OPID 100 for this LNG plant in the NPMS, you must use OPID 100 for this LNG plant on the Annual Report to PHMSA.	Positive integer	Required
	OPER_NM	YES	Operator Name	Field Type = Text, Field Length = 100  The name of the company name that physically operates the LNG Plant. This is the company name associated with this OPID in PHMSA records.	Character	Required
	LNG_NM	YES	LNG Plant Name	Field Type = Text, Field Length = 40  Assigned by the operator. The operator's name for the LNG Plant	Character	Required
	LNG_ID	YES	LNG Plant ID	Field Type = Text, Field Length = 20  Assigned by the operator. A unique identifier for a specific LNG plant. Operators must use the same LNG ID value for this specific plant in the LNG Impoundments attribute table, LNG Exclusion Zones attribute table and LNG Annual Report to PHMSA. The LNG ID will be used to relate information from the Annual Report, Impoundment and Exclusion Zone data to this LNG plant.  NPMS staff will also use the LNG ID to support updates to the NPMS LNG database.	Character	Required
	STATUS_CD	YES	LNG Status Code	Field Type = Text, Field Length = 1  Identifies the status of the LNG plant as of the reporting year (i.e., December 31 of the previous year). AF=active filled, AU=active unfilled, PA=permanently abandoned in accordance with federal regulations.	AF, AU, PA	Required
	QUALITY_CD	NO	Data Quality Code (Positional Accuracy)	Field Type = Text, Field Length = 1  Identifies the positional accuracy of the submitted plant centroid location. A=less than 5 feet, B=5-25 feet, C=25.01-50 feet, D=50.01-100 feet, E=100.01 or greater.	A, B, C, D, E	Required

## Updated NPMS Attribute Standards and Revision Summary

Information Collection 2137-0596

Phase	Attribute Field Name	Public	Short Description	LNG Plant Attribute Field Full Description	Acceptable Values (UPPERCASE)	Field Required?
	REVIS_CD	YES	LNG Plant Revision Code	<p>Field Type = Text, Field Length = 1</p> <p>Identifies the type of revision that applies to this LNG plant. Describes how this LNG plant has changed compared to the previous LNG NPMS submission for this OPID. NPMS staff rely on this attribute to accurately update the NPMS LNG database.</p> <p>A=this LNG plant is a new addition to the NPMS for this OPID this year, unrelated to construction or changes in jurisdiction (e.g., acquired or assumed operatorship from a different pipeline operator, erroneously omitted from the previous LNG submission for this OPID),                      C=this LNG plant is a new addition to the NPMS for this OPID this year, due to new construction,                      J=this LNG plant is a new addition to the NPMS for this OPID this year, due to a plant that is new to PHMSA's jurisdiction,                      S=this LNG plant only reflects a spatial modification to an LNG plant point location included in the previous NPMS submittal for this OPID (e.g., re-GPSed LNG plant centroid for improved spatial accuracy),                      T=this LNG plant only includes an attribute modification to an LNG plant included in the previous NPMS submittal for this OPID (e.g., new LNG Plant ID value, but LNG plant point location reflects no spatial changes),                      B=both a spatial and attribute modification to a LNG plant point location included in the previous NPMS submittal for this OPID, or                      N=no change to the matching LNG plant included in the previous LNG NPMS submittal for this OPID (e.g., nothing about this LNG plant or the data representing this LNG plant changed – the spatial and attribute components are an exact match).</p> <p>Please read more about selecting the correct Revision Code value from the NPMS Operator Submission Guide.</p>	A, C, J, S, T, B, N	Required
1	TYPE	NO	Type of LNG Plant	<p>Field Type = Text, Field Length = 2</p> <p>Identifies the type of LNG Plant. BL=base load, PS=peak shaving, SA=satellite, MT=mobile/temporary, O=other.</p>	BL, PS, SA, MT, O	Required
1	CAPACITY	NO	Total Capacity	<p>Field Type = Integer, Long</p> <p>Total capacity of LNG Storage in Barrel units (bbl).</p>	Positive integer	Required
1	CNSTR_YEAR	NO	Year Constructed	<p>Field Type = Integer, Long</p> <p>Identifies the year the LNG Plant was constructed (matches "date put in service" from the operator's Annual Report).</p>	Positive 4 Digit Integer; (example: 2022)	Required

## Updated NPMS Attribute Standards and Revision Summary

Information Collection 2137-0596

### LNG Plant Impoundment Attribute Table (GIS Polygon Layer)

Do not report if Type of LNG Plant is mobile/temporary.

Phase	Attribute Field Name	Public	Short Description	LNG Plant Impoundment Attribute Field Full Description	Acceptable Values (UPPERCASE)	Field Required?
1	OPID	NO	Operator ID Number	<p>Field Type = Integer, Long</p> <p>Unique tracking number assigned by PHMSA to the company that physically operates the LNG plant. If you do not know your company's OPID check with your DOT/Regulatory Compliance department or the NPMS website. Always use the same OPID for all PHMSA reporting requirements that apply to the LNG plant. For example, if you use OPID 100 for this LNG plant Impoundment in the NPMS, you must use OPID 100 for this LNG plant location to the NPMS and on the Annual Report to PHMSA.</p>	Positive integer	Required
1	LNG_ID	NO	LNG Plant ID	<p>Field Type = Text, Field Length = 20</p> <p>Assigned by the operator. A unique identifier for a specific LNG plant associated with this LNG Plant Impoundment. Operators must use the same LNG ID value for this specific LNG Plant Impoundment, LNG Plant attribute table, LNG Exclusion Zones attribute table and LNG Annual Report to PHMSA. The LNG ID will be used to relate information from the Annual Report, Impoundment and Exclusion Zone data to this LNG plant.</p>	Character	Required
1	IMPOUND_ID	NO	Unique ID for Impoundment	<p>Field Type = Text, Field Length = 30</p> <p>Assigned by the operator. This is a unique identifier for the specific impoundment.</p>	Character	Required

## Updated NPMS Attribute Standards and Revision Summary

Information Collection 2137-0596

### LNG Plant Thermal Exclusion Zone Attribute Table

Do not report if Type of LNG Plant is mobile/temporary. For all other values of Type of LNG Plant, report only if the plant was designed, constructed, replaced, relocated or significantly altered after March 31, 2000.

Phase	Field Name	Public	Short Description	LNG Plant Exclusion Zone Full Description	Acceptable Values (UPPERCASE)	Required Field
1	OPID	NO	Operator ID Number	Field Type = Integer, Long  Unique tracking number assigned by PHMSA to the company that physically operates the LNG plant. If you do not know your company's OPID check with your DOT/Regulatory Compliance department or the NPMS website. Always use the same OPID for all PHMSA reporting requirements that apply to the LNG plant. For example, if you use OPID 100 for this LNG plant Exclusion Zone in the NPMS, you must use OPID 100 for this LNG plant location to the NPMS and on the Annual Report to PHMSA.	Positive integer	Required
1	LNG_ID	NO	LNG Plant ID	Field Type = Text, Field Length = 20  Assigned by the operator. A unique identifier for a specific LNG plant associated with this LNG Plant Exclusion Zone. Operators must use the same LNG ID value for this specific LNG Plant Exclusion Zone, LNG Plant attribute table, LNG Impoundment attribute table and LNG Annual Report to PHMSA. The LNG ID will be used to relate information from the Annual Report, Impoundment and Exclusion Zone data to this LNG plant.	Character	Required
1	EZONE_ID	NO	Unique ID for Zone	Field Type = Text, Field Length = 30  Assigned by the operator. This is a unique identifier for the specific exclusion zone.	Character	Required
1	HFLUX	NO	Heat Flux	Field Type = Integer, Short  Specify the heat flux value in BTU/ft <sup>2</sup> hr for the polygon.	1600, 3000, 10000	Required

### Breakout Tank Attribute Table (GIS Point Layer, Centroid)

Phase	Field Name	Public	Short Description	Breakout Tank Attribute Full Description	Acceptable Values (UPPERCASE)	Required Field
0*	OPID	YES	Operator ID Number	Field Type = Integer, Long  Unique tracking number assigned by PHMSA to the company that physically operates the breakout tank. If you do not know your company's OPID check with your DOT/Regulatory Compliance department or the NPMS website. Always use the same OPID for all PHMSA reporting requirements that apply to the breakout tank.	Positive integer	Required



## Updated NPMS Attribute Standards and Revision Summary

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Phase	Field Name	Public	Short Description	Breakout Tank Attribute Full Description	Acceptable Values (UPPERCASE)	Required Field
0*	OPER_NM	YES	Operator Name	Field Type = Text, Field Length = 100  The name of the company name that physically operates the breakout tank. This is the company name associated with this OPID in PHMSA records.	Character	Required
0*	TANK_ID	YES	Breakout Tank ID	Field Type = Text, Field Length = 20  Assigned by the operator. A unique identifier for a specific breakout tank.  NPMS staff will use the Tank ID to support updates to the NPMS breakout tank database.	Character	Required
0*	CNSTR_YEAR	YES	Construction Year	Field Type = Integer, Long  Four-digit year of facility construction (e.g. "1990").	Positive 4 Digit Integer; (example: 2022)	Required
0*	TANKSIZE	NO	Nominal Size of Breakout Tank	Field Type = Integer, Short  Nominal size of the tank <b>in thousands of barrels</b> (e.g. a tank that holds 50,000 barrels would be reported as <b>50</b> ).	Positive Integer	Required
0*	COMMODITY	YES	Primary Commodity Category	Field Type = Text, Field Length = 5  Identifies the primary commodity stored in the breakout tank. CRD=crude oil, PRD=non-HVL petroleum product, ETH=fuel grade ethanol, G=gasoline, K=kerosene, JF=jet fuel, DF=diesel fuel, HO=heating oil, AA=anhydrous ammonia, CO2=carbon dioxide, HVL=highly volatile liquid, O=other, NONE=the tank does not currently store any commodity.	CRD, PRD, ETH, G, K, JF, DF, HO, AA, CO2, HVL, O, NONE	Required
	COMMODITY2	NO	Commodity Category 2	Field Type = Text, Field Length = 5  Identifies the secondary commodity stored in the breakout tank. Use this field only if more than one commodity type is stored in this tank. CRD=crude oil, PRD=non-HVL petroleum product, ETH=fuel grade ethanol, G=gasoline, K=kerosene, JF=jet fuel, DF=diesel fuel, HO=heating oil, AA=anhydrous ammonia, CO2=carbon dioxide, HVL=highly volatile liquid, O=other, leave this field blank if the tank does not store a secondary commodity.	CRD, PRD, ETH, G, K, JF, DF, HO, AA, CO2, HVL, O	Not Required
	COMMODITY3	NO	Commodity Category 3	Field Type = Text, Field Length = 5  Identifies the tertiary commodity stored in the breakout tank. Use this field only if more than two commodity types are stored in this tank. CRD=crude oil, PRD=non-HVL petroleum product, ETH=fuel grade ethanol, G=gasoline, K=kerosene, JF=jet fuel, DF=diesel fuel, HO=heating oil, AA=anhydrous ammonia, CO2=carbon dioxide, HVL=highly volatile liquid, O=other, leave this field blank if the tank does not store a tertiary commodity.	CRD, PRD, ETH, G, K, JF, DF, HO, AA, CO2, HVL, O	Not Required

## Updated NPMS Attribute Standards and Revision Summary

Information Collection 2137-0596

Phase	Field Name	Public	Short Description	Breakout Tank Attribute Full Description	Acceptable Values (UPPERCASE)	Required Field
0*	REVIS_CD	YES	Breakout Tank Revision Code	<p>Field Type = Text, Field Length = 1</p> <p>Identifies the type of revision that applies to this breakout tank. Describes how this breakout tank has changed compared to the previous breakout tank NPMS submission for this OPID. NPMS staff rely on this attribute to accurately update the NPMS breakout tank database.</p> <p>A=this breakout tank is a new addition to the NPMS for this OPID this year, unrelated to construction or changes in jurisdiction (e.g., acquired or assumed operatorship from a different pipeline operator, erroneously omitted from the previous breakout tank submission for this OPID),</p> <p>C=this breakout tank plant is a new addition to the NPMS for this OPID this year, due to new construction,</p> <p>J=this breakout tank is a new addition to the NPMS for this OPID this year, due to a tank that is new to PHMSA's jurisdiction,</p> <p>S=this breakout tank only reflects a spatial modification to an breakout tank point location included in the previous NPMS submittal for this OPID (e.g., re-GPSed tank centroid for improved spatial accuracy),</p> <p>T=this breakout tank only includes an attribute modification to an breakout tank included in the previous NPMS submittal for this OPID (e.g., new Breakout Tank ID value, but breakout tank point location reflects no spatial changes),</p> <p>B=both a spatial and attribute modification to a breakout tank point location included in the previous NPMS submittal for this OPID, or</p> <p>N=no change to the matching breakout tank included in the previous breakout tank NPMS submittal for this OPID (e.g., nothing about this breakout tank or the data representing this breakout tank changed – the spatial and attribute components are an exact match).</p> <p>Please read more about selecting the correct Revision Code value from the NPMS Operator Submission Guide.</p>	A, C, J, S, T, B, N	Required