



THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable John Thune
Chairman, Committee on Commerce,
Science, and Transportation
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

I am pleased to submit the U.S. Department of Transportation's (DOT) an annual report to the U.S. Congress concerning open National Transportation Safety Board (NTSB) and DOT Office of Inspector General (OIG) safety recommendations referenced in section 6(a)(2) of the Norman Y. Mineta Research and Special Programs Improvement Act (Pub. L. No. 108-426), addressing pipeline and hazardous materials. The enclosed report fulfills the requirement of section 6(b)(2) of that Act.

With safety as our highest priority, we continue to pursue closing open NTSB and OIG pipeline and hazardous materials safety recommendations referenced in section 6(a)(2). As of December 31, 2014, there were 34 open NTSB and 11 open OIG recommendations. We will continue to work closely with NTSB to close the open recommendations by exercising a variety of regulatory and non-regulatory actions within the timelines allowed by technical assessment, notice and comment rulemaking, public comment, and due diligence.

We also are transmitting the report required by Section 19(c) of the Pipeline Safety Improvement Act of 2002, (Pub. L. No. 107-355). Section 19(c) requires DOT to submit to Congress a report containing each recommendation on pipeline safety that NTSB made during the prior year and to submit a copy of the response to each such recommendation. As of December 1, 2014, NTSB had issued one safety recommendation to PHMSA during calendar year 2014, as listed on the enclosure to this letter.

I have sent a similar letter to the Ranking Member of the Senate Committee on Commerce, Science, and Transportation; the Chairman and Ranking Member of the House Committee on Transportation and Infrastructure; and the Chairman and Ranking Member of the House Committee on Energy and Commerce. If I can provide further information or assistance, please feel free to call me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Anthony R. Foxx", is written over the word "Sincerely,".

Anthony R. Foxx

Enclosures



THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable Bill Nelson
Ranking Member, Committee on Commerce,
Science, and Transportation
United States Senate
Washington, DC 20510

Dear Senator Nelson:

I am pleased to submit the U.S. Department of Transportation's (DOT) an annual report to the U.S. Congress concerning open National Transportation Safety Board (NTSB) and DOT Office of Inspector General (OIG) safety recommendations referenced in section 6(a)(2) of the Norman Y. Mineta Research and Special Programs Improvement Act (Pub. L. No. 108-426), addressing pipeline and hazardous materials. The enclosed report fulfills the requirement of section 6(b)(2) of that Act.

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THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable Bill Shuster
Chairman, Committee on
Transportation and Infrastructure
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

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THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable Peter A. DeFazio
Ranking Member, Committee on
Transportation and Infrastructure
U.S. House of Representatives
Washington, DC 20515

Dear Congressman DeFazio:

I am pleased to submit the U.S. Department of Transportation's (DOT) an annual report to the U.S. Congress concerning open National Transportation Safety Board (NTSB) and DOT Office of Inspector General (OIG) safety recommendations referenced in section 6(a)(2) of the Norman Y. Mineta Research and Special Programs Improvement Act (Pub. L. No. 108-426), addressing pipeline and hazardous materials. The enclosed report fulfills the requirement of section 6(b)(2) of that Act.

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THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable Fred Upton
Chairman, Committee on Energy and Commerce
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

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Anthony R. Foxx

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THE SECRETARY OF TRANSPORTATION
WASHINGTON, DC 20590

July 7, 2016

The Honorable Frank Pallone, Jr.
Ranking Member, Committee on Energy and Commerce
U.S. House of Representatives
Washington, DC 20515

Dear Congressman Pallone:

I am pleased to submit the U.S. Department of Transportation's (DOT) an annual report to the U.S. Congress concerning open National Transportation Safety Board (NTSB) and DOT Office of Inspector General (OIG) safety recommendations referenced in section 6(a)(2) of the Norman Y. Mineta Research and Special Programs Improvement Act (Pub. L. No. 108-426), addressing pipeline and hazardous materials. The enclosed report fulfills the requirement of section 6(b)(2) of that Act.

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Anthony R. Foxx

Enclosures

**NATIONAL TRANSPORTATION SAFETY BOARD (NTSB)
RECOMMENDATIONS ON PIPELINE SAFETY
ISSUED IN 2014**

A Report to Congress Required by Pub. L. No. 107-355

Executive Summary

The National Transportation Safety Board (NTSB) issued one recommendation concerning pipeline safety in 2014. The Board recommended that the Pipeline and Hazardous Materials Safety Administration (PHMSA) revise Title 49 Code of Federal Regulations, Section 903, Subpart O, "Gas Transmission Pipeline Integrity Management" to include major highways, including interstates, freeways and expressways defined in the Federal Highway Administration's "Highway Functional Classification Concepts, Criteria and Procedures" to the "identified sites," that establish a high consequence area.

The recommendation followed the NTSB's investigation of a natural gas transmission line rupture in West Virginia in 2012 and fire that ensued. PHMSA responded that many aspects of the recommendation will be addressed in a notice of proposed rulemaking (NPRM) "Pipeline Safety: Safety of Gas Transmission Pipelines," which has been submitted to the Office of Information and Regulatory Affairs (OIRA).

**NATIONAL TRANSPORTATION SAFETY BOARD
RECOMMENDATIONS ON PIPELINE SAFETY ISSUED IN 2014**

NTSB Safety Recommendation P-14-001:

Revise Title 49 Code of Federal Regulations Section 903, Subpart O, "Gas Transmission Integrity Management," to add principal arterial roadways including interstates, other freeways and expressways, and other principal arterial roadways as defined in the Federal Highway Administration's "Highway Functional Classification Concepts, Criteria and Procedures," to the list of "identified sites" that establish a high consequence area.

PHMSA Actions:

Currently, Title 49 Code of Federal Regulations, Section 903, Subpart O, Gas Transmission Integrity Management, prescribes minimum requirements for an integrity management program on gas transmission pipelines. Aspects of this recommendation will be addressed in the Pipeline and Hazardous Materials Safety Administrations (PHMSA)'s notice of proposed rulemaking (NPRM) titled, "Pipeline Safety: Safety of Gas Transmission Pipelines."

Attachment (2) Report addressing requirements of Section 6(b)(2) of the Mineta Act

**NATIONAL TRANSPORTATION SAFETY BOARD (NTSB)
and
DOT OFFICE of INSPECTOR GENERAL (OIG):**

**Open Safety Recommendations Referred To In Section
6(a)(2) of the Norman Y. Mineta Research and Special
Programs Improvement Act**

A Report to Congress Required by Pub. L. No. 108-426

**U. S. Department of Transportation
January 2015**

Executive Summary:

As of December 31, 2014, there were thirty-four (34) open safety recommendations from the National Transportation Safety Board, and eleven (11) open safety recommendations from the U.S. DOT Office of Inspector General (OIG). Those recommendations are listed in the following report, along with the actions the Department and the Pipeline and Hazardous Materials Administration have taken to address them through a variety of regulatory and non-regulatory means.

The following tables summarize the status of the recommendations: **(1)** Table A(1), Status of Open DOT Inspector General (OIG) Hazardous Materials Safety Recommendations Referenced in Section 6(a)(2) as of December 31, 2014 (49 U.S.C. §108 Notes Section 6(b) to Section 6(a)(2); **(2)** Table A(2), Status of Open DOT Inspector General (OIG) Pipeline Safety Recommendations Referenced in Section 6(a)(2), as of December 31, 2014 (49 U.S.C. §108 Notes, Section 6(b) to Section 6(a)(2); **(3)** Table B(1), Status of Open NTSB Hazardous Materials Safety Recommendations Referenced in Section 6(a)(2), as of December 31, 2014 (49 U.S.C. §108 Notes, Section 6(b) to Section 6(a)(2); and **(4)** Table B(2), Status of Open NTSB Pipeline Recommendations Referenced in Section 6(a)(2), as of December 31, 2014 (49 U.S.C. §108 Notes, Section 6(b) to Section 6(a)(2).

Table A(1) : Status of Open DOT Inspector General (IG) Hazardous Materials Safety Recommendations Referenced in Section 6(a)(2), as of December 31, 2014.

Item	IG- Assigned ID	IG Assigned Status	Issued Date	Recommendation	Status
1	(MH-2014-064) A-01	Open – Resolved	7/7/2014	Include in the planned approvals desk guide a requirement to use technical safety evaluation forms to document analyses for explosive classification applications.	The forms were completed prior to the issuance of the report and the desk guide document should be completed by mid-2015.
2	(MH-2014-064) B-01	Open – Resolved	7/7/2014	Develop and implement a plan - including milestones and funding requirements-for resolving the company identifier issue.	Seeking to expand the number of companies required to register with PHMSA, to include those operating under special permits or competent authority approval. Seeking assistance from DOT CIO and Digital Services Team to resolve the company identifier issue.

Note: Report MH-2014-064 is entitled, PHMSA Has Addressed Most Weaknesses We Identified in Its Special Permit and Approval Processes.

Table A(2) : Status of DOT Inspector General (IG) Pipeline Safety Recommendations Referenced in Section 6(a)(2), as of December 31, 2014.

Item	IG- Assigned ID	IG Assigned Status	Issued Date	Recommendation	Status
1	(AV-2012-140) B-01	Open-Resolved	6/18/2012	Update IM requirements to mandate baseline and recurring assessments for non-line pipe facilities, given the availability of new assessment technologies and methodologies.	Researched technologies / methodologies to assess the integrity of non-line pipe. A number of technologies were identified; however, none appear to consistently identify leaks and corrosion. Research shows that damage costs related to incidents with non-line pipe are modest \$17 million per year on average for 2010-13.
2	(AV-2012-140) C-03	Open-Resolved	6/18/2012	Create a database of pipeline physical characteristics, accidents, and inspections—including geographic location—of individual pipeline units in order to identify and monitor at-risk pipelines.	Continue to use and improve available data and understand our limitations based on resources and risk-based priorities. NPMS Info Collection published on July 30, 2014. Comment period extended to December 1. Comments under review. We received comments from 35 people or entities.
3	(AV-2014-041) A-01	Open-Resolved	7/7/2014	Revise the staffing formula so that it accounts for risk and non-standard inspections, and periodically analyze State-provided inspection unit data to validate staffing formula results.	May, 2014. Agreed to review and reconsider the staffing formula. Expect this review to be completed by July, 2015.
4	(AV-2014-041) A-02	Open-Resolved	5/7/2014	Develop and include in PHMSA's State Program Guidelines: a. Minimum training requirements for State inspectors' qualification to lead standard inspections (i.e. classroom and/or on-the-job training). b. A system that tracks revisions to Federal inspection forms and actively notifies States when these new forms are available. c. Standards for time allowed between inspections for all inspection types.	PHMSA worked with NAPSRS to develop minimum training requirements for State inspectors' qualifications to lead standard inspections.
5	(AV-2014-041) A-03	Open-Resolved	5/7/2014	Develop and implement procedures to review the	PHMSA developing key elements for inspection

Item	IG- Assigned ID	IG Assigned Status	Issued Date	Recommendation	Status
				adequacy of inspection procedures as part of the annual program evaluation.	procedures and anticipate including them in our 2015 State Guidelines.
6	(AV-2014-041) A-04	Open-Resolved	5/7/2014	Provide States with comprehensive guidance to ensure States effectively implement PHMSA's risk analysis methods for scheduling inspections.	In June 2014, PHMSA provided the OIG with a copy of the web based training that explains risk-ranking methodologies and the concept of risk ranking. Developing guidance and examples for a risk-based approach to inspections.
7	(AV-2014-041) A-05	Open-Resolved	5/7/2014	Document the procedures for conducting triennial grant reviews to ensure consistency of oversight.	Provided OIG the requested documentation on the procedures for conducting triennial reviews.
8	(AV-2014-041) B-01	Open-Resolved	5/7/2014	Develop a training program that ensures PHMSA evaluators can successfully conduct the following program evaluation procedures: a. Determine and verify whether States have complied with all Program evaluation requirements according to its procedures. b. Accurately notify States in writing of non-compliance with Program evaluation requirements to ensure States take correct action to achieve compliance.	Preparing to conduct annual review of program evaluation guidance. Meeting was scheduled for Nov.17, 2014 but was postponed due to travel restrictions. PHMSA instituted a policy to separate grant funding from scoring beginning in the 2013 grant cycle.
9	(AV-2014-041) B-02	Open-Resolved	5/7/2014	Develop and implement a plan for auditing States' use of suspension funds, and work with State program managers to identify current suspension fund administration challenges requiring additional guidance.	Develop and implement a plan for auditing States' use of suspension funds, and work with State program managers to identify current suspension fund administration challenges requiring additional guidance.

Note: Report MH-2014-041 is entitled, *PHMSA's State Pipeline Safety Program Lacks Effective Management and Oversight*.

Note: Report MH-2012-140 is entitled, *Hazardous Liquid Pipeline Operators' Integrity Management Programs Need More Rigorous PHMSA Oversight*

Table B(1) : Status of Open NTSB Hazardous Materials Safety Recommendations Referenced in Section 6(a)(2), as of December 31, 2014.

Item	NTSB- Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
1	H-04-023	Open - Acceptable Response	7/1/2004	Require periodic nondestructive testing to be conducted on nurse tanks to identify material flaws that could develop and grow during a tank's service and result in a tank failure.	Determining next steps with FMCSA.
2	H-09-001	Open - Acceptable Response	3/5/2009	Modify 49 Code of Federal Regulations 173.301 to clearly require (1) that cylinders be securely mounted on mobile acetylene trailers and other trailers with manifolded cylinders to reduce the likelihood of cylinders being ejected during an accident and (2) that the cylinder valves, piping, and fittings be protected from multidirectional impact forces that are likely to occur during highway accidents, including rollovers.	Incorporating by reference of industry standards and revision of 173.301 under rulemaking HM-218H (miscellaneous amendments).
3	H-09-002	Open - Acceptable Response	3/5/2009	Require fail-safe equipment that ensures that operators of mobile acetylene trailers can perform unloading procedures only correctly and in sequence.	Incorporating by reference of industry standards and revision of 173.301 under rulemaking HM-218H (miscellaneous amendments).
4	H-11-004	Open - Acceptable Response	9/2/2011	Work with the Federal Motor Carrier Safety Administration, as appropriate, to develop and disseminate guidance to assist hazardous materials carriers in implementing comprehensive cargo tank motor vehicle rollover prevention programs, including the active participation of drivers, dispatchers, and management through training, loading practices, delivery schedules, and acquisition of equipment.	Reviewing FMCSA initiatives for inclusion in an update for NTSB.
5	H-11-005	Open - Acceptable Response	9/2/2011	Conduct a comprehensive analysis of all available accident data on U.S. Department of Transportation specification cargo tanks to identify cargo tank designs and the associated dynamic forces that pose a higher risk of failure and release of hazardous materials in accidents. Once such cargo tanks have been identified, study the dynamic	PHMSA working with Volpe on a project to consolidate data collected through our cargo tank rollover special study. An analysis will follow the data consolidation efforts.

Item	NTSB- Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
				forces acting on susceptible structures under varying accident conditions and develop performance standards to eliminate or mitigate these risks.	
6	H-11-006	Open - Acceptable Response	9/2/2011	Once the performance standards in Safety Recommendation H-11-5 have been developed, require that all newly manufactured cargo tanks comply with the performance standards.	TBD. Dependent on development of performance standards under H-11-005.
7	H-12-003	Open - Acceptable Alternate Response	5/4/2012	Require cargo tank motor vehicle carriers and transfer facilities to verify (1)that cargo transfer hose assemblies, whether carried on the vehicle or provided by the facility, are chemically compatible with the hazardous material to be transferred and (2) that drivers verify hoses are marked as compatible with the material to be transferred before either loading or unloading operations begin.	Drafting guidance for cargo tank motor vehicle loading and unloading operations. Target publication in May 2015.
8	H-98-027	Open - Unacceptable Response	5/18/1998	Prohibit the carrying of hazardous materials in external piping of cargo tanks, such as loading lines that may be vulnerable to failure in an accident.	In 2011, PHMSA issued an NPRM, "Hazardous Materials: Safety Requirements for External Product Piping on Cargo Tanks Transporting Flammable Liquids," to completely address these loading line (a.k.a. Wetlines) issues. The rulemaking was placed on hold pending the outcome of a GAO analysis of the safety risks. PHMSA developed a supplemental policy analysis, based on the GAO findings. Final regulatory action is pending.

Table B(2) : Status of Open NTSB Pipeline Safety Recommendations Referenced in Section 6(a)(2) , as of December 31, 2014.

Item	NTSB- Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
1	P-01-002	Open - Acceptable Response	6/22/2001	Require that excess flow valves be installed in all new and renewed gas service lines, regardless of a customer's classification, when the operating conditions are compatible with readily available valves.	Drafted NPRM, "Pipeline Safety: Expanding the Use of Excess Flow Valves in Gas Distribution Systems to Applications Other than Single-Family Residences," in July 2013. PHMSA submitted latest response to OST in November 2014.
2	P-04-001	Open - Acceptable Response	7/1/2004	Remove the exemption in 49 Code of Federal Regulations 192.65 (b) that permits pipe to be placed in natural gas service after pressure testing when the pipe cannot be verified to have been transported in accordance with the American Petroleum Institute's recommended practice RP 5L1.	Completing work on final rule, "Pipeline Safety: Miscellaneous Changes to Pipeline Safety Regulations," which removes the exemption in 49 CFR 192.65 and brings the regulation into accordance with API RP 5L1.
3	P-04-003	Open - Acceptable Response	7/1/2004	Evaluate the need for a truck transportation standard to prevent damage to pipe, and, if needed, develop the standard and incorporate it in 49 Code of Federal Regulations Parts 192 and 195 for both natural gas and hazardous liquid line pipe.	Completing work leading to publication of Final Rule, "Pipeline Safety: Period Updates of Regulatory References to Technical Standards and Miscellaneous Amendments." Rule adopts API RP 5LT, "Recommended Practice for Truck Transportation of Line Pipe (1st Edition, 3/1/2012).
4	P-09-001	Open - Acceptable Response	10/27/2009	Conduct a comprehensive study to identify actions that can be implemented by pipeline operators to eliminate catastrophic longitudinal seam failures in electric resistance welded pipe (ERW); at a minimum, the study should include assessments of the	PHMSA initiated study to address the recommendation. Phase One field and laboratory tests were completed in January 2014.

Item	NTSB-Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
				effectiveness and effects of in-line inspection tools, hydrostatic pressure tests, and spike pressure tests; pipe material strength characteristics and failure mechanisms; the effects of aging on ERW pipelines; operational factors; and data collection and predictive analysis.	
5	P-09-002	Open - Acceptable Response	10/27/2009	Based on the results of the study requested in Safety Recommendation P-09-1, implement the actions needed.	PHMSA initiated a follow-on study to develop how to evaluate seam issues in pipe. Phase Two work began in December 2012 and should be complete by the end of December 2015. PHMSA will determine what actions to pursue after Phase Two is complete.
6	P-11-007	Open - Acceptable Response	9/26/2011	Ensure that the Pipeline and Hazardous Materials Safety Administration amends the certification program, as appropriate, to comply with the findings of the audit recommended in Safety Recommendation P-11-6	Considering actions to address findings of Study resulting from P-11-006.
7	P-11-008	Open - Acceptable Response	9/26/2011	Require operators of natural gas transmission and distribution pipelines and hazardous liquid pipelines to provide system-specific information about their pipeline systems to the emergency response agencies of the communities and jurisdictions in which those pipelines are located. This information should include pipe diameter, operating pressure, product transported, and potential impact radius.	On July 30, 2014, PHMSA published the Federal Register notice titled, "Request for Revision of a Previously Approved Information Collection- National Pipeline Mapping System Program," inviting public comment on its intent to request to revise and renew an information collection currently under OMB Control Number 2137-0596. This will increase the

Table B(2) *Open NTSB HazMat Safety Recommendations*

Item	NTSB-Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
				This recommendation supersedes Safety Recommendation P-11-1.	information available in line with SSI provisions.
8	P-11-009	Open - Acceptable Response	9/26/2011	Require operators of natural gas transmission and distribution pipelines and hazardous liquid pipelines to ensure that their control room operators immediately and directly notify the 911 emergency call center(s) for the communities and jurisdictions in which those pipelines are located when a possible rupture of any pipeline is indicated. This recommendation supersedes Safety Recommendation P-11-2.	PHMSA published ADB-12-09: "Communication During Emergency Situations" (77 FR 61826) in the Federal Register and NENA's Standard and PIPEs system in October 2012. NTSB acknowledged publishing the ADB, but is still calling for regulations; therefore, the recommendation is not closed. PHMSA is considering whether or not to propose regulations.
9	P-11-010	Open - Acceptable Response	9/26/2011	Require that all operators of natural gas transmission and distribution pipelines equip their supervisory control and data acquisition systems with tools to assist in recognizing and pinpointing the location of leaks, including line breaks; such tools could include a real-time leak detection system and appropriately spaced flow and pressure transmitters along covered transmission lines.	PHMSA is incorporating aspects of this recommendation into a future NPRM titled "Pipeline Safety: Amendments to Parts 192 and 195 to Require Valve Installation and Minimum Rupture Detection Standards. Responding to PHMSA Chief Counsel's comments.
10	P-11-011	Open - Acceptable Response	9/26/2011	Amend Title 49 Code of Federal Regulations 192.935(c) to directly require that automatic shutoff valves or remote control valves in high consequence areas and in class 3 and 4 locations be installed and spaced at intervals that consider the factors listed in that regulation.	PHMSA is incorporating aspects of this recommendation into a future NPRM titled "Pipeline Safety: Amendments to Parts 192 and 195 to Require Valve Installation and Minimum Rupture Detection Standards. NPRM received back

Table B(2) *Open NTSB HazMat Safety Recommendations*

Item	NTSB-Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
					from Chief Counsel in November 2014. Responding to comments.
11	P-11-012	Open - Acceptable Response	9/26/2011	Amend Title 49 Code of Federal Regulations 199.105 and 49 Code of Federal Regulations 199.225 to eliminate operator discretion with regard to testing of covered employees. The revised language should require drug and alcohol testing of each employee whose performance either contributed to the accident or cannot be completely discounted as a contributing factor to the accident.	Developing NPRM "Pipeline Safety: Operator Qualification, Cost Recovery, and Other Proposed Changes." In OST review.
12	P-11-014	Open - Acceptable Response	9/26/2011	Amend Title 49 Code of Federal Regulations 192.619 to delete the grandfather clause and require that all gas transmission pipelines constructed before 1970 be subjected to a hydrostatic pressure test that incorporates a spike test.	PHMSA will formalize the Integrity Verification Process and address the Grandfather Clause in the Gas Transmission NPRM. In OST review.
13	P-11-015	Open - Acceptable Response	9/26/2011	Amend Title 49 Code of Federal Regulations Part 192 of the Federal pipeline safety regulations so that manufacturing- and construction-related defects can only be considered stable if a gas pipeline has been subjected to a post-construction hydrostatic pressure test of at least 1.25 times the maximum allowable operating pressure.	PHMSA will formalize the Integrity Verification Process and address the Grandfather Clause in the Gas Transmission NPRM. In OST review.
14	P-11-016	Open - Acceptable Response	9/26/2011	Assist the California Public Utilities Commission (CPUC) in conducting the comprehensive audit recommended in Safety Recommendation P-11-22.	PHMSA supported CPUC's conducting a comprehensive audit of PG&E to include seven inspections. We are satisfied with the inspections. We

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					<p>assisted CPUC with their audits by providing technical support, advice, mentoring, and review. CPUC's corresponding recommendation was closed based on their submittal.</p>
15	P-11-018	Open - Acceptable Response	9/26/2011	<p>Revise your integrity management inspection protocol to (1) incorporate a review of meaningful metrics; (2) require auditors to verify that the operator has a procedure in place for ensuring the completeness and accuracy of underlying information; (3) require auditors to review all integrity management performance measures reported to the Pipeline and Hazardous Materials Safety Administration and compare the leak, failure, and incident measures to the operator's risk model; and (4) require setting performance goals for pipeline operators at each audit and follow up on those goals at subsequent audits. (P-11-18)</p>	<p>PHMSA improved the IM inspection questions in the Inspection Assistant (IA) application. Revised our hazardous liquid and gas transmission enforcement guidance documents. Stood up gas and liquid data and metrics teams, comprised of Federal and State government officials, pipeline industry and the public. Developed a data analysis program that examines performance metrics derived from our incident and annual report data. In December 2012, PHMSA issued ADB-2012-10 reminding operators of gas transmission and hazardous liquid pipeline facilities of their responsibilities, under Federal integrity management regulations, to perform evaluations of their integrity management programs using meaningful performance metrics. In January 2013, PHMSA held a data workshop concerning collection and sharing</p>

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					information regarding data quality improvement, and current performance measures.
16	P-11-019	Open - Acceptable Response	9/26/2011	(1) Develop and implement standards for integrity management and other performance-based safety programs that require operators of all types of pipeline systems to regularly assess the effectiveness of their programs using clear and meaningful metrics, and to identify and then correct deficiencies; and (2) make those metrics available in a centralized database.	October 15, 2014, PHMSA issued ADB, "Pipeline Safety: Guidance for Strengthening Pipeline Safety Through Rigorous Program Evaluation and Meaningful Metrics. PHMSA also developed a supporting guidance document, "Guidance for Strengthening Pipeline Safety Through Rigorous Program Evaluation and Meaningful Metrics," which is incorporated. PHMSA has made considerable progress since the issuance of Recommendation P-11-19-2 to make Operator specific metrics in a centralized database available to the public.
17	P-11-020	Open - Acceptable Response	9/26/2011	Work with state public utility commissions to (1) implement oversight programs that employ meaningful metrics to assess the effectiveness of their oversight programs and make those metrics available in a centralized database, and (2) identify and then correct deficiencies in those programs.	PHMSA met with the National Association of Pipeline Safety Representatives (NAPSR) in February and April of 2013 to develop draft metrics and preliminary criteria for screening those metrics. The draft state Metrics have been identified and approved by NAPSR. These metrics are available on PHMSA's new

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					State Program Performance Metrics pages, which can be accessed through the State Pages directory on the Stakeholder Communications tab at the PHMSA website.
18	P-12-001	Open - Acceptable Response	7/25/2012	Audit the Pipeline and Hazardous Materials Safety Administration's onshore pipeline facility response plan program's business practices, including reviews of response plans and drill programs, and take appropriate action to correct deficiencies.	Audit is nearing completion. Expected to be completed in 3rd quarter of 2015.
19	P-12-002	Open - Acceptable Response	7/25/2012	Allocate sufficient resources as necessary to ensure that the Pipeline and Hazardous Materials Safety Administration's onshore pipeline facility response plan program meets all of the requirements of the Oil Pollution Act of 1990.	Will be addressed based on findings of facility plan business practice audit (P-12-001) and current program priorities.
20	P-12-003	Open - Acceptable Response	7/25/2012	Revise Title 49 Code of Federal Regulations 195.452 to clearly state (1) when an engineering assessment of crack defects, including environmentally assisted cracks, must be performed; (2) the acceptable methods for performing these engineering assessments, including the assessment of cracks coinciding with corrosion with a safety factor that considers the uncertainties associated with sizing of crack defects; (3) criteria for determining when a probable crack defect in a pipeline segment must be excavated and time limits for completing those	Being addressed in the NPRM titled "Pipeline Safety: Safety of On-Shore Hazardous Liquid Pipelines." The upcoming NPRM will propose a change to 195.452(h) (4). The proposed change would define significant SCC (195.2) and require that all significant SCC be treated as an immediate condition. Operators would have to reduce pressure in those cases until repairs were made.

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				excavations; (4) pressure restriction limits for crack defects that are not excavated by the required date; and (5) acceptable methods for determining crack growth for any cracks allowed to remain in the pipe, including growth caused by fatigue, corrosion fatigue, or stress corrosion cracking as applicable.	
21	P-12-004	Open - Acceptable Response	7/25/2012	Revise Title 49 Code of Federal Regulations 195.452(h)(2), the "discovery of condition," to require, in cases where a determination about pipeline threats has not been obtained within 180 days following the date of inspection, that pipeline operators notify the Pipeline and Hazardous Materials Safety Administration and provide an expected date when adequate information will become available.	Addressed in the NPRM titled "Pipeline Safety: Safety of On-Shore Hazardous Liquid Pipelines." Issues primarily relate to cost/benefit including patrolling of HL lines following extreme weather events and requiring lines in HCAs to be piggable.
22	P-12-005	Open - Acceptable Response	7/25/2012	Conduct a comprehensive inspection of Enbridge Incorporated's integrity management program after it is revised in accordance with Safety Recommendation.	PHMSA has developed a comprehensive approach to improving Enbridge's safety record, including reviewing its IM program for the entire Lakehead system. Specific actions to improve safety include: A) Enhanced safety culture and creation of a safety management system; B) Revised/Improved Facilities Response Plan; C) Improved Control Room Management; D) Establish priorities for pipe replacement;

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					E) Training in the areas of pipeline integrity, pipeline operations, and control center; F) Improved interpretation of in-line inspection (ILI) results; G) Application of reliability engineering principles, and improved risk modeling; H) Improved leak detection systems & pipeline monitoring instrumentation; I) Valve placement to further minimize release of oil to the environment; J) Integrity verification, including complementary assessments; K) Quality management system; L) Other safety improvements (public awareness, damage prevention, and R&D).
23	P-12-007	Open - Acceptable Response	7/25/2012	Develop requirements for team training of control center staff involved in pipeline operations similar to those used in other transportation modes.	Team training is included in the Addressed in the NPRM titled, "Pipeline Safety: Operator Qualification, Cost Recovery, and Other Pipeline Safety Proposed Changes."
24	P-12-008	Open - Acceptable Response	7/25/2012	Extend operator qualification requirements in Title 49 Code of Federal Regulations Part 195 Subpart G to all hazardous liquid and gas transmission control center staff involved in pipeline operational decisions.	PHMSA is proposing changes to operator qualification requirements in the NPRM titled "Pipeline Safety: Operator Qualification, Cost Recovery, and Other Proposed Changes. Rule transmitted to OST on 5/28/14.

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Item	NTSB-Assigned ID	NTSB Assigned Status	Issued Date	Recommendation	Status
25	P-12-009	Open - Acceptable Response	7/25/2012	Amend Title 49 Code of Federal Regulations Part 194 to harmonize onshore oil pipeline response planning requirements with those of the U.S. Coast Guard and the U.S. Environmental Protection Agency for facilities that handle and transport oil and petroleum products to ensure that pipeline operators have adequate resources available to respond to worst-case discharges.	In January 2014, PHMSA issued ADB-2014-01, "Conforming Facility Response Plans (FRPs) to Appendix A to Part 194—"Guidelines for the Preparation of Response Plans" and Identifying Deficiencies.
26	P-14-001	Open - Acceptable Response	3/5/2014	Revise Title 49 Code of Federal Regulations Section 903, Subpart O, Gas Transmission Pipeline Integrity Management, to add principal arterial roadways including interstates, other freeways and expressways, and other principal arterial roadways as defined in the Federal Highway Administration's Highway Functional Classification Concepts, Criteria and Procedures to the list of "identified sites" that establish a high consequence area.	Initial response completed in May 2014 – in the Gas Transmission rulemaking. Updated to also include emergency planning recommendation from GAO