

NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards

TECHNICAL COMMITTEE ON Gas Process Safety

NFPA 56, Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems

First Draft Agenda May 31, 2018 8:00 AM – 5:00 PM Central Time

- 1. Call to Order. Franklin Switzer, Chair
- 2. Introductions.
- 3. Approval of Pre-First Draft Continuation Meeting Minutes from March 8, 2018. (Attachment A)
- 4. Staff Updates. Lisa Hartman, NFPA Staff
 - Committee membership update. (Attachment B)
 - Fall 2019 revision cycle schedule. (Attachment C)
 - Overview of NFPA Process
- 5. AGA Purging Document, Forth Edition, July 2018 Draft (See NFPA 56 Document Information website available to technical committee only)
- 6. Public Inputs (PIs) review (Attachment D)
- 7. Task Group reports and discussion:
 - Onshore Gathering Lines, Task Group Chair: John Puskar
 - Status: Met in late February. From J. Puskar email dated 2/22/2018: We concluded that the 3 pubic inputs regarding gathering lines do indeed NOT advocate for the inclusion of gathering lines to the standard. In fact, they advocate to not include gathering lines.
 - References. Task Group Chair: Christopher Buehler
 - De Minimus Quantities. Task Group Chair: Michael Bethany
 - Emergency Plan. Task Group Chair: Denise Beach
- 8. New Business.
- 9. Next Meeting. Second Draft meeting must be scheduled between 11/15/2018-5/16/2019.
- 10. Adjournment.



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TECHNICAL COMMITTEE ON Standard for Fire and Explosion Prevention during Cleaning And Purging of Flammable Gas Piping Systems (GPS-AAA)

NFPA 56

Pre-First Draft Continuation Meeting Minutes March 8, 2018 2:00 PM – 3:00 PM Eastern Time Web Meeting/Teleconference

<u>Attendees</u>

Committee Members (GPS-AAA):

Franklin Switzer	S-afe, Inc.
Hocine Ait Mohamed	Saudi Aramco
Chris Buehler	Exponent, Inc.
Paul Cabot	American Gas Association (AGA)
Larry Danner	GE Power & Water
John Doucette	State of CT, Department of Administration
Robert Naper	ANSI Gas Piping Technology Committee
John Puskar	Prescient Technical Services LLC
Bruce Swiecicki	NPGA
Brett Wheelock	OGE/Enogex
Scott Neil (A)	DCP Midstream LLC
Sam Pagadala (A)	AIG
Lisa Hartman, Staff Liaison	National Fire Protection Association, MA

Guests:

Robert Early CGA

<u>Agenda</u>

- 1. Call to Order. Franklin Switzer called the meeting to order at 2:00 P.M.
- 2. Introductions. Lisa Hartman, Staff Liaison, took attendance and asked if there are any changes to contact information. It was announced that Alan Rice (P), AIG, had retired.
- 3. **Staff Updates.** L. Hartman provided an overview of the Fall 2019 revision cycle schedule.

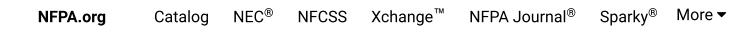
4. Task Group Reports/Public Inputs (PIs) review, as applicable

- Onshore Gathering Lines, Task Group Chair: John Puskar
 - Status: Met in late February. From J. Puskar email dated 2/22/2018: We concluded that the 3 pubic inputs regarding gathering lines do indeed NOT advocate for the inclusion of gathering lines to the standard. In fact, they advocate to not include gathering lines.
- References , Task Group Chair: Christopher Buehler
 - o Status: Has not met yet.
- De Minimus Quantities, Task Group Chair: Michael Bethany
 - o Status: Has not met yet.
- Emergency Plan, Task Group Chair: Denise Beach
 - Status: in progress
- Next Meeting. For the First Draft meeting, the TC has decided on a 1-day meeting in Chicago IL on Thursday, May 31, 2018. Prior to FD meeting, the TC should review ANSI GPTC Z380.1 Guide for Gas Transmission, Distribution, and Gathering Piping Systems, especially page 17- definition of gathering lines, as well as the revised referenced AGA document.
- 6. Adjournment. The meeting adjourned at 2:50 P.M.

Percentage Summary GPS-AAA Gas Process Safety

<u>Class</u>	Voting Number	<u>Percent</u>
E	1	6%
I	3	17%
IM	2	11%
М	4	22%
SE	6	33%
U	2	11%

Total Voting Number 18



Fall 2019 Revision Cycle

Process Stage	Process Step	Dates for TC	Dates for TC with CC
	Public Input Closing Date*	1/04/2018	1/04/2018
	Final Date for TC First Draft Meeting	6/14/2018	3/15/2018
	Posting of First Draft and TC Ballot	8/02/2018	4/26/2018
	Final date for Receipt of TC First Draft ballot	8/23/2018	5/17/2018
	Final date for Receipt of TC First Draft ballot - recirc	8/30/2018	5/24/2018
Public Input Stage (First Draft)	Posting of First Draft for CC Meeting		5/31/2018
	Final date for CC First Draft Meeting		7/12/2018
	Posting of First Draft and CC Ballot		8/02/2018
	Final date for Receipt of CC First Draft ballot		8/23/2018
	Final date for Receipt of CC First Draft ballot - recirc		8/30/2018
	Post First Draft Report for Public Comment	9/06/2018	9/06/2018
	Public Comment Closing Date*	11/15/2018	11/15/2018
	Notice Published on Consent Standards (Standards that received no Comments) Note: Date varies and determined via TC ballot.		
	Appeal Closing Date for Consent Standards (Standards that received no Comments)		
	Final date for TC Second Draft Meeting	5/16/2019	2/07/2019
	Posting of Second Draft and TC Ballot	6/27/2019	3/21/2019
Comment Stage	Final date for Receipt of TC Second Draft ballot	7/18/2019	4/11/2019
(Second Draft)	Final date for receipt of TC Second Draft ballot - recirc	7/25/2019	4/18/2019
	Posting of Second Draft for CC Meeting		4/25/2019
	Final date for CC Second Draft Meeting		6/06/2019
	Posting of Second Draft for CC Ballot		6/27/2019
	Final date for Receipt of CC Second Draft ballot		7/18/2019
	Final date for Receipt of CC Second Draft ballot - recirc		7/25/2019
	Post Second Draft Report for NITMAM Review	8/01/2019	8/01/2019
	Notice of Intent to Make a Motion (NITMAM) Closing Date	8/29/2019	8/29/2019
Tech Session	Posting of Certified Amending Motions (CAMs) and Consent Standards	10/10/2019	10/10/2019
Preparation (&	Appeal Closing Date for Consent Standards	10/25/2019	10/25/2019
	SC Issuance Date for Consent Standards	11/04/2019	11/04/2019
Tech Session	Association Meeting for Standards with CAMs	6/17/2020	6/17/2020
Appeals and	Appeal Closing Date for Standards with CAMs	7/08/2020	7/08/2020
Issuance	SC Issuance Date for Standards with CAMs	8/14/2020	8/14/2020

TC = Technical Committee or Panel

CC = Correlating Committee

As of 2/3/2017

existing flammat	nall apply to fire and explosion prevention during cleaning and purging activities for new and ole gas piping found in electric-generating plants, <u>exploration</u> and <u>development well pads</u> <u>completion to custody transfer, gas distribution facilities and</u> in industrial, institutional, and lications.
atement of Probl	em and Substantiation for Public Input
number of people o distribution facilities world that take gas document and its to hazard.These takes for the past couple of	
ubmitter Informat	ion Verification
Submitter Full Nan	ne: John Puskar
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Submitter Full Nan Organization: Street Address:	ne: John Puskar
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Organization: Street Address:	ne: John Puskar

M Dublie Innut	No. 2 NEDA 50 2047 [Spotion No. 4.4.4.4 [Evoluting one Sub Spotional]
	No. 3-NFPA 56-2017 [Section No. 1.1.1.1 [Excluding any Sub-Sections]]
	el gas piping systems shall extend from the point of delivery or source valve to the gas- ipment isolation valve
	ellhead operations, the point of delivery shall be considered the wellhead. Piping systems considered ndard would include from the wellhead to the gathering pipeline point of custody transfer isolation
tatement of Proh	lem and Substantiation for Public Input
	nclusion of Oil and Gas production facilities while being consistent with the exclusion of Gas s and Natural Gas Processing Facilities."
"This clarifies the i	s and Natural Gas Processing Facilities."
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Public Input	No. 8-NFPA 56-2018 [Section No. 1.1.1.1 [Excluding any Sub-Sections]]
	el gas piping systems shall extend from the point of delivery or source valve to the gas- processing_equipment isolation valve.
Statement of Prob	lem and Substantiation for Public Input
	that needs purging or that is involved in a purge consumes gas. Tale for example a combustion filter. These filters need changed occasionally. They don't consume gas. They are a process
Submitter Informa	tion Verification
Submitter Full Na	me: John Puskar
Organization:	PuskarCo
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City:	
State:	
Zip:	
Submittal Date:	Tue Jan 02 19:22:06 EST 2018

Public Input No. 9-NFPA 56-2018 [Section No. 1.1.1.2]	
1.1.1.2*	
•	mmable gas piping systems other than fuel gas piping systems shall extend from the source e gas supply system to the gas-consuming <u>or processing</u> equipment isolation valve.
tement of Prob	lem and Substantiation for Public Input
Same as previous	comment, not all equipment to be purged or that is part of a purge project actually consumes i
some are just proc	
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	Io. 1-NFPA 56-2017 [New Section after 1.1.2]
	CONTENT
TITLE OF NEW	
	L.2 Non-Application of Standard
	n infrastructure downstream of gas custody transfer meter to the upstream of a gas processing facility Maintenance requirements(Chapters 7and 8) of this Standard
tement of Proble	em and Substantiation for Public Input
Justification:	
purging with an inert frequent isolation va hydrocarbons NFPA procedures to safely	y companies/contractors have in place. The NFPA 56 processes including leak checking, and t gas is not be practical with buried pipe that can be many miles long without purge points and lves, plus condensed hydrocarbons that cannot be removed to a point of meeting the level of requires in the vent effluent. Following AGA gives the end users appropriate Hot Work work under those conditions.
	ver that addendum materials be added to address safe work practices within NFPA 56 that ca systems as non-mandatory information that may assist those performing this work.
hydrocarbons and th	bles and Practices have a specific process to calculate rates of flow to safely remove then remove the air while minimizing mixing, keeping pressures below auto-ignition point and ccessfully for many years. And it is recommended NFPA recognize the AGA method of purgin ervicing pipelines.
	nmend the use of natural gas to clean the pipelines of construction debris. This provision of icable and should be followed.
omitter Informati	ion Verification
Submitter Full Nam	ie: Scott Neil
Organization:	DCP Midsteam LLC
Affilliation:	Gas Processors Association and DCP Midstream LLC
Street Address:	
City:	
State:	

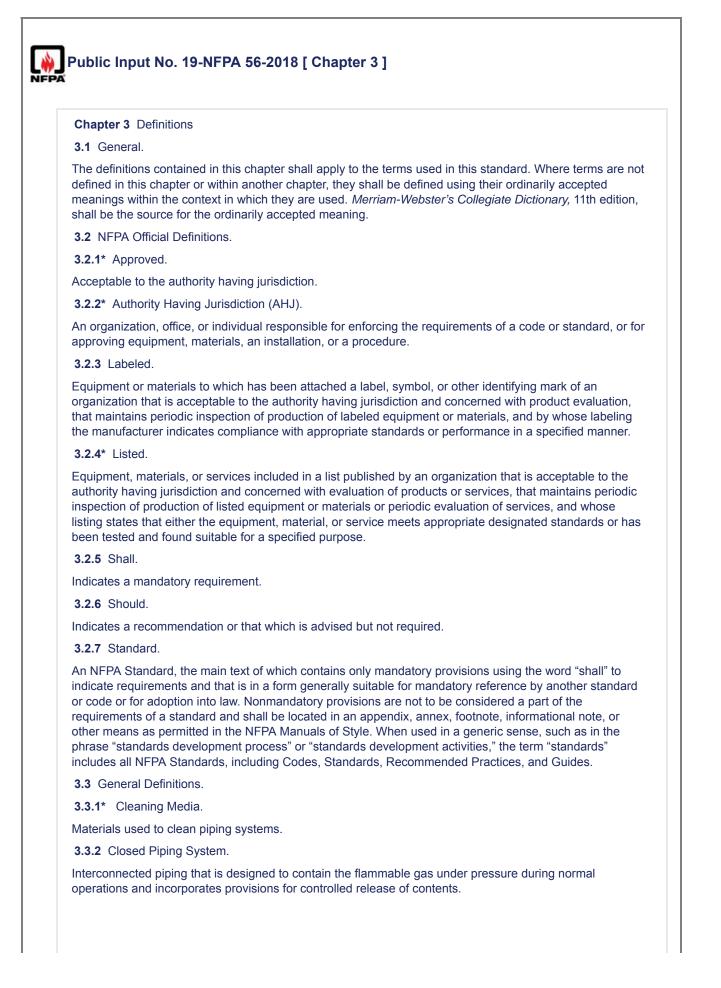
TITLE OF NEW	/ CONTENT
Type your conte	
New section in 1.	1.2 Non-Application of Standard
	overed by Process Safety Management of Hazardous Chemicals 29 cfr 1910.119 regulations for the tenance activities only (C leaning facility piping of construction debris with natural gas is still
Justification:	
Owner/Operator is Safety Review (Con single procedure fo	ave a defined process for work with Hazardous Chemicals similar to NFPA 56 in that the required prepare, evaluated and approved Maintenance procedures, Hot work, Pre-Startup a mmissioning), Training, and Verification through a rigorous process. Strictly mandating one removing from and returning a piece of pipe into service precludes the use of an alternative, d procedures that are equally safe or have introduced no additional safety risks.
Owner/Operator is Safety Review (Consingle procedure for vetted, and planned Facility piping shou	required prepare, evaluated and approved Maintenance procedures, Hot work, Pre-Startup a mmissioning), Training, and Verification through a rigorous process. Strictly mandating one r removing from and returning a piece of pipe into service precludes the use of an alternative, d procedures that are equally safe or have introduced no additional safety risks. Id not be cleaned of construction debris by introducing natural gas at high rates and should no n unsafe location. All discharges should be controlled or monitored. Chapters 1-6 inclusive o
Owner/Operator is Safety Review (Con single procedure fo vetted, and planned Facility piping shou be discharged in an NFPA 56 are still ap	required prepare, evaluated and approved Maintenance procedures, Hot work, Pre-Startup a mmissioning), Training, and Verification through a rigorous process. Strictly mandating one r removing from and returning a piece of pipe into service precludes the use of an alternative, d procedures that are equally safe or have introduced no additional safety risks. Id not be cleaned of construction debris by introducing natural gas at high rates and should no n unsafe location. All discharges should be controlled or monitored. Chapters 1-6 inclusive o
Owner/Operator is Safety Review (Con single procedure fo vetted, and planned Facility piping shou be discharged in an NFPA 56 are still ap	required prepare, evaluated and approved Maintenance procedures, Hot work, Pre-Startup a mmissioning), Training, and Verification through a rigorous process. Strictly mandating one r removing from and returning a piece of pipe into service precludes the use of an alternative, d procedures that are equally safe or have introduced no additional safety risks. Id not be cleaned of construction debris by introducing natural gas at high rates and should no n unsafe location. All discharges should be controlled or monitored. Chapters 1-6 inclusive o oplicable."
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Public Input I	No. 10-NFPA 56-2018 [Section No. 1.1.2]
	action of Otendard
	cation of Standard.
	nall not apply to the following items:
	ems covered by NFPA 2
	ems covered by NFPA 51
	sing facilities covered by NFPA 52
	ems covered by NFPA 54
	ems covered by NFPA 55
(6) * Piping syste	ems covered by NFPA 58
(7) * LP-Gas (inc	cluding refrigerated storage) at utility gas plants (seeNFPA 59)
(8) * LNG facilitie	es covered by NFPA 59A
(9) * Vehicle fuel	dispensers
(10) Commission	ning and maintenance of equipment
	om pressure relief valves or devices unless such vent lines are also used for purging of gas piping systems
(12) Systems re	gulated by U.S. Department of Transportation (DOT) 49 CFR 100–199 100 - 199
(13) <u>Gathering lin</u>	nes from well pads to gas processing facilities
(14) <u>Natural gas</u>	processing plants collecting natural gas from gathering lines
I wanted to submit t this within the softw Item #1 was the rem primary places that regarding its purging Item #2 was the cor typically in very rura to. Likewise, natura organizations and p	noval of 10) commissioning and maintenance activities, In my opinion this would be one of the one would be doing purging of piping facilities. NFPA 54 does not make such a distinction g activities and applicability, why should this document? mments related to gas gathering lines and processing facilities. These gathering lines are al areas and are such that they are miles of piping very similar to what the DOT standards applicabilities are usually addressed with standards from DOT, API, and other practices. In addition to this, in many cases the gathering lines and gas in these process plant
is not above 125 ps ubmitter Informat Submitter Full Nan	ion Verification
Organization:	PuskarCo
Street Address:	
City:	
State:	
Zip:	

a minimum safety requirements for the cleaning and purging of flammable gas piping aning new or existing piping systems, and purging piping systems into or out of of delivery or source valve to the equipment isolation valve . nd Substantiation for Public Input
nd Substantiation for Public Input
nt of delivery to isolation valve. What if the intent is to purge a part of a system, of the system. We should not be suggesting that the standard may not apply unless we ne system.
/erification
nn Puskar
skarCo
e Jan 02 19:52:27 EST 2018
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	No. 42 NEDA 50 2049 [New Conting offer 4.2.1
	No. 12-NFPA 56-2018 [New Section after 1.3]
<u>*A1.3 Coordina</u>	<u>ition</u>
service condition	an benefit greatly by generating preliminary purging plans, (for out of service and into ns), during the design process. This can help to identify the need for important purging components like purge points, line blind spacers, and purged gas venting lines so that gas ndoors.
It's kind of tough to	em and Substantiation for Public Input understand exactly what the pint of the coordination section is trying to communicate. I thought o spell it out in a new annex note.
Submitter Informat	ion Verification
Submitter Full Nam	ne: John Puskar
Organization:	PuskarCo
Street Address:	
City:	
State:	
Zip:	
Submittal Date:	Tue Jan 02 19:57:20 EST 2018

Public Input	No. 13-NFPA 56-2018 [Section No. 1.4.2]
1.4.2 –	
would be impra	requirements of this standard shall be permitted to be modified if their application clearly ctical in the judgment of the authority having jurisdiction and only where it is clearly evident le degree of safety is provided.
atement of Prob	lem and Substantiation for Public Input
The authorityhaving	
this is ridiculous be part is clearly not e	cause it basically says, if you think this is too hard you don't have to do anything. This second
this is ridiculous be part is clearly not e	cause it basically says, if you think this is too hard you don't have to do anything. This second nforceable.
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One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to ta
prompt corrective measures to eliminate them. [29 CFR 1926.32(f)]
3.3.4 * Detection Equipment.
Monitoring equipment necessary for detecting and/or measuring the concentration of flammable gas or oxygen present in air.
3.3.5 End Point.
Attainment of concentration (percent by volume) of inert substance in the closed system being purged su that subsequent admission of air, if purging out of service, or admission of gas or vapor, if purging into service, will not result in formation of a flammable mixture.
3.3.6 Equipment Isolation Valve.
A manual shutoff valve for shutoff of the flammable gas to each piece of equipment.
3.3.7* Flammable Gas.
A material that is a gas at 68°F (20°C) or less at an absolute pressure of 14.7 psi (101.3 kPa), that is ignitible at an absolute pressure of 14.7 psi (101.3 kPa) when in a mixture of 13 percent or less by volum with air, or that has a flammable range at an absolute pressure of 14.7 psi (101.3 kPa) with air of at least 12 percent, regardless of the lower limit. [55 , 2016]
3.3.8* Inert Gas.
A nonreactive, nonflammable, noncorrosive gas such as argon, helium, krypton, neon, nitrogen, and xen [55, 2016]
3.3.9 Pig.
A device that is inserted into a pipeline to perform a specific task within the pipeline and that travels freel through the pipeline pulled by a cable; propelled by air, water, or another medium; or driven by the produ flow.
3.3.10 Purge.
To free a gas conduit of air or gas, or a mixture of gas and air. [54, 2015]
3.3.10.1 Purge into Service.
To replace the air or inert gas in a closed system by a flammable gas.
3.3.10.2 Purge out of Service.
To replace the normal flammable content of a closed system by inert gas, air, or water.
3.3.11 Source Valve.
A shutoff valve on the piping system serving a gas supply system where the gas supply, at service pressure, first enters the supply line.
3.3.12 Venting (depressurizing)
To bleed off the gas to be removed from the pipe (purged) from some beginning pressure to a pressure that is near atmospheric pressure, (0 psig), for the purposes of being able to begin a purge out of service procedure.

Submitter Information Verification

Submitter Full Name:John PuskarOrganization:PuskarCo

Street Address:City:State:Zip:Submittal Date:Wed Jan 03 06:46:27 EST 2018

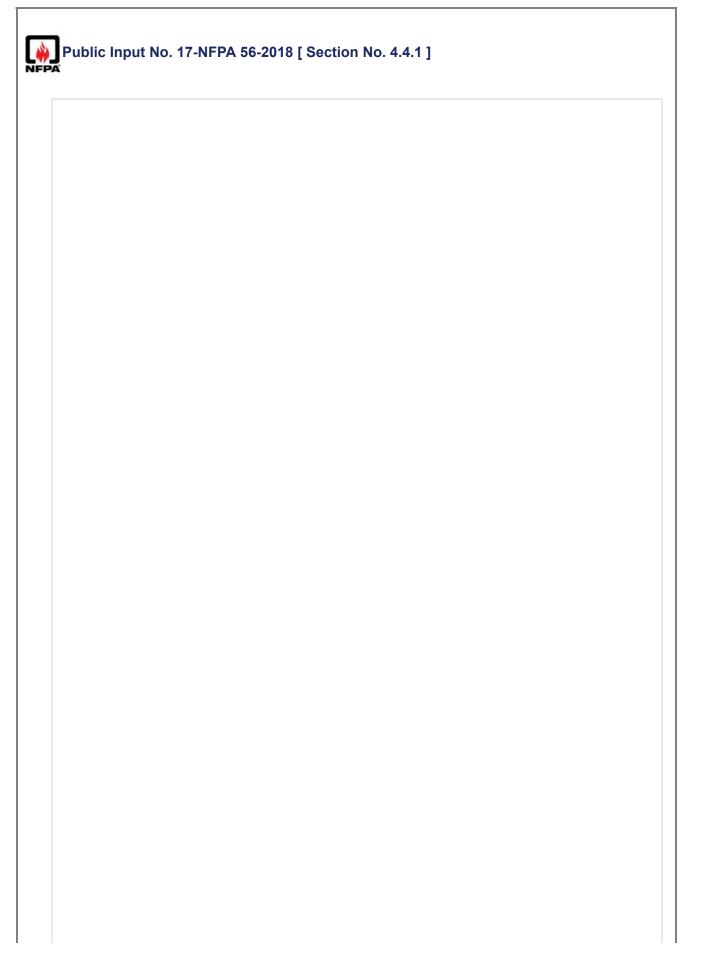
Public Input	No. 20-NFPA 56-2018 [New Section after 3.3.10]
A 3.3.10 Purge Purging out of s materials down Slug purges incl sweeping throug processes when	
tement of Prob	lem and Substantiation for Public Input
	lem and Substantiation for Public Input
Thought it would he	elp to explain purging out of service processes in the context of venting
Thought it would he	elp to explain purging out of service processes in the context of venting
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Thought it would he omitter Informa Submitter Full Nar Organization: Street Address: City:	elp to explain purging out of service processes in the context of venting tion Verification ne: John Puskar

Public Input	No. 14-NFPA 56-2018 [Section No. 4.1.2 [Excluding any Sub-Sections]]
and pressure te	g or purging <u>a new system that has not been in service</u> , piping systems shall be inspected sted <u>according</u> to <u>ASME B31.3 to</u> determine that the materials, design, fabrication, and tices comply with the requirements of this standard and the intended application
atement of Prob	lem and Substantiation for Public Input
	on provided to remind the user that this section applies to new equipment that has not yet been
in service. The add	ition of the asme B31.3 comment is all about making sure the reader understands this is not a ressure test with specific criteria.
in service. The add leak check, but a p	ition of the asme B31.3 comment is all about making sure the reader understands this is not a ressure test with specific criteria.
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in service. The add leak check, but a p bmitter Informa Submitter Full Nar Organization:	ition of the asme B31.3 comment is all about making sure the reader understands this is not a ressure test with specific criteria. tion Verification ne: John Puskar
in service. The add leak check, but a p bmitter Informa Submitter Full Nar Organization: Street Address:	ition of the asme B31.3 comment is all about making sure the reader understands this is not a ressure test with specific criteria. tion Verification ne: John Puskar
in service. The add leak check, but a p bmitter Informa Submitter Full Nar Organization: Street Address: City:	ition of the asme B31.3 comment is all about making sure the reader understands this is not a ressure test with specific criteria. tion Verification ne: John Puskar

Public Input	No. 15-NFPA 56-2018 [New Section after 4.1.2.1]	
FPA		
	ssure Testing and Inspection	
	g has specific criteria. Be cautious of testing pneumatically. Pneumatic testing can be very is infact prohibited at certain pressures in ASME B31.3 without an owners approval.	
	biping systems prior to purging should include things like reviewing threaded bolted	
	r integrity, hanger loadings and spacings, and valve functionality.	
tatement of Prob	er and Substantiation for Public Input	
tatement of Prob	elem and Substantiation for Public Input	
We say nothing at	blem and Substantiation for Public Input bout what the heck an inspection is or what someone would be looking for. I thought some anney p here. I also wanted to provide a warning about pneumatic testing.	
We say nothing at	pout what the heck an inspection is or what someone would be looking for. I thought some anney phere. I also wanted to provide a warning about pneumatic testing.	
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We say nothing ab material would hel ubmitter Informa Submitter Full Na Organization: Street Address: City:	bout what the heck an inspection is or what someone would be looking for. I thought some annex p here. I also wanted to provide a warning about pneumatic testing. Intion Verification me: John Puskar	

Public Input	No. 16-NFPA 56-2018 [New Section after 4.3]
4.3 Notification	n of Hazards
	can include threat zones from releases of inerts and flammable gases. Models are available
	dentifying the likley path of plumes from the EPA website. Hazards that can impact large
areas also inclu	de the possibility of pressure release explosions and debris from pneumatic testing.
Users should know to reinforce how da	about the potential to model plumes and understand the concept. It's also important to continungerous pneumatic testing can be.
Users should know to reinforce how da	about the potential to model plumes and understand the concept. It's also important to continungerous pneumatic testing can be.
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Users should know to reinforce how da ubmitter Informa Submitter Full Nar Organization: Street Address: City:	about the potential to model plumes and understand the concept. It's also important to continungerous pneumatic testing can be. tion Verification ne: John Puskar





4.4.1*

The written procedure for each cleaning and purging activity shall address, as a minimum, the following items:
(1) Scope of work and site-specific purge procedure development
(2) <u>Cleaning and purging method</u>
(3) Piping and instrument diagrams (PIDs)
(4) <u>Chemical and physical properties of flammable gas, cleaning media, purge media, and discharge</u> gas
(5) Determination of purge end point introducing flammable gas, inert gas, or air
(6) Assessment and control of purge inlet and discharge locations
(7)* <u>Mitigation or capture strategies</u>
(8) <u>Temporary piping system design</u>
(9) Management review and approval
(10) <u>Restoration of service</u>
(11) Target design, launcher/receiver venting review for pigging operations
(12) <u>Regulatory permits</u>
(13) Evaluation of engineering controls that allow gases from depressurization to be consumed in a controlled manner instead of vented (e.g., flaring or controlled combustion in process equipment).
(14) Written stand-down instructions to stop activity in a controlled manner
(15) Precautions for gases that have toxic, highly toxic, unstable reactive, corrosive, or other deleterious properties beyond
flammability
(a) <u>flammabi</u>
(b) Validation that purged or vented gases will not be released into a building.
(c) Consideration for venting of piping systems to release pressure.
(16)* Environmental conditions and work locations
(17 <u>Establishment and clear identification of exclusion zones where flammable gas–air mixtures are</u> likely to
exist
(a) <u>exi</u>
(b) Consideration for plume release threat zone modelling
(c) Limited access for personnel not directly involved with purge operations
(d) Assessment of potential for gas migration (e.g., building openings, adjacent structures)
(e) Prohibition of hot work within exclusion zones
(f) Lockout/tagout
(g) Impact of environmental conditions (e.g., wind speed and direction, temperature, barometric pressure) on purge operations
(h) Vehicular and air traffic, if applicable
(i) <u>Topography</u>
(j) Noise control/monitoring
(18) Communication plans
(19) <u>Pre-job briefings</u>

	(20) <u>Work permits</u>
	(21) Roles and responsibilities
	(22) Emergency response plan
	(23) Facility alarm, alert and warning systems
	(24) General facility notification prior to start of purge operations
	(25) General facility notification at the conclusion of purge operations
	(26) <u>Notification of regulatory authorities as required (local emergency responders, utility operators, community officials, environmental authorities, etc.)</u>
(27)) Control of ignition sources
	(28) Bonding and grounding considerations
	(29) No smoking or spark-producing work within exclusion zones

- (30) Elimination of hot work within exclusion zone
- (31) Static electricity ignition sources at discharge point
- (32) Non-conductive piping, hose, or fittings in temporary piping assemblies

(33) Pre-purge and pressure testing piping system assessment

- (34) <u>Assessment of piping system for trapped liquids, pyrophoric solids, and other flammable or</u> <u>combustible deposits within the piping system</u>
- (35) Ensuring that the piping system is properly isolated
- (36) Limiting site conditions that impact the safety of the

activity

- (a) <u>a</u>
- (b) Verification that no isolation valves are seized in position.
- (c) On-site tools and sealants for trunion mounted ball valves
- (d) <u>Review of piping for mechanical integrity including fasteners grade, type, condition and external</u> <u>corrosion of fasteners and piping systems</u>
- (e) Servicing of lubricated plug valves according to manufacturers instructions.
- (f) <u>Review of previous temporary repairs that could include fiberglassing, wraps, or mechanical clamps</u>
- (g) Review of hanger integrity and spacing
- (37)* Purge monitoring and instrumentation

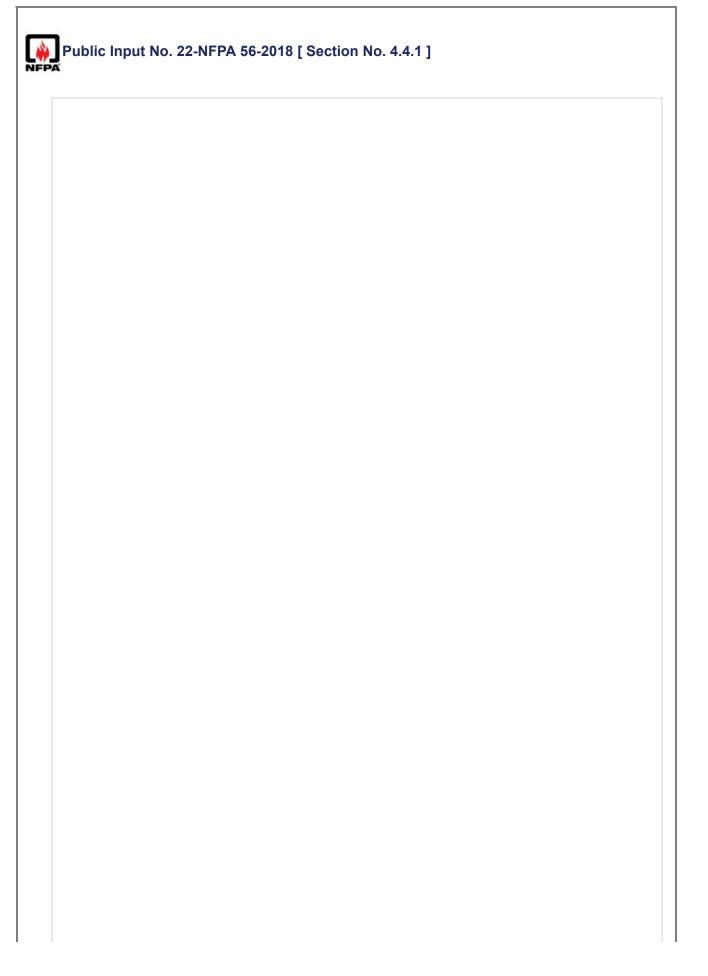
(38 Ensuring that monitoring instruments are appropriate for gas being purged

(39)Training

(40)Calibration

- (41 Monitoring frequency and reporting
- (42)Appropriate selection of sample point(s)
- (43)General atmosphere checks in vicinity of purge gas release
- (44) Protection and Rescue of Personnel
 - (45) Training requirements for personnel involved in the work efforts
 - (46) Personal protective equipment

(47)	Selection of fire-resistant clothing (FRC) shall be based on a hazard analysis in accordance with NFPA 2113
Res	cue
(a)	Provision of rescue equipment, including self-contained breathing apparatus and breathing air escape packs, where this equipmentmight be needed
(b)	Standby rescue personn
(C)	Standby purge operations personnel to take on tasks that were not expected in the plan
(d)	Primary and secondary assembly areas
(e)	Assignment of personnel for alerting and accounting of personnel
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4.4.1*

The written procedure for each cleaning and purging activity shall address, as a minimum, the following items:	
(1) Scope of work and site-specific purge procedure development	
(2) <u>Cleaning and purging method</u>	
(3) Piping and instrument diagrams (PIDs)	
(4) <u>Chemical and physical properties of flammable gas, cleaning media, purge media, and discharge</u> gas	
(5) Determination of purge end point introducing flammable gas, inert gas, or air	
(6) Assessment and control of purge inlet and discharge locations	
(7) [*] <u>Mitigation or capture strategies</u>	
(8) <u>Temporary piping system design</u>	
(9) Management review and approval	
(10) <u>Restoration of service</u>	
(11) Target design, launcher/receiver venting review for pigging operations	
(12) <u>Regulatory permits</u>	
(13) Evaluation of engineering controls that allow gases from depressurization to be consumed in a controlled manner instead of vented (e.g., flaring or controlled combustion in process equipment).	
(14) Written stand-down instructions to stop activity in a controlled manner	
(15) Precautions for gases that have toxic, highly toxic, unstable reactive, corrosive, or other deleterious properties beyond	
flammability	
(a) <u>flammability</u>	
(b) Prepare a valve line-up table or chart to show the condition of critical valves during each state of the purge.	
(16)* Environmental conditions and work locations	
(17 Establishment and clear identification of exclusion zones where flammable gas-air mixtures are	
likely to exist	
(18) imited access for personnel not directly involved with purge operations	
(19)Assessment of potential for gas migration (e.g., building openings, adjacent structures)	
(20 Prohibition of hot work within exclusion zones	
(21 <u>Lockout/tagout</u>	
(22)mpact of environmental conditions (e.g., wind speed and direction, temperature, barometric pressure) on purge operations	
(23)/ehicular and air traffic, if applicable	
(24)Topography	
(25 <u>Noise control/monitoring</u>	
(26) Communication plans	
(27) Pre-job briefings	
(27) <u>Pre-job briefings</u> (28) <u>Work permits</u>	

(31) Facility alarm, alert and warning systems
(32) General facility notification prior to start of purge operations
(33) General facility notification at the conclusion of purge operations
(34) <u>Notification of regulatory authorities as required (local emergency responders, utility operators, community officials, environmental authorities, etc.)</u>
(35) Control of ignition sources
(36) Bonding and grounding considerations
(37) No smoking or spark-producing work within exclusion zones
(38) Elimination of hot work within exclusion zone
(39) Static electricity ignition sources at discharge point
(40) Non-conductive piping, hose, or fittings in temporary piping assemblies
(41) Pre-purge piping system assessment
(42) <u>Assessment of piping system for trapped liquids, pyrophoric solids, and other flammable or</u> <u>combustible deposits within the piping system</u>
(43) Ensuring that the piping system is properly isolated
(44) Limiting site conditions that impact the safety of the activity
(45)* Purge monitoring and instrumentation
(46 Ensuring that monitoring instruments are appropriate for gas being purged
(47) <u>Training</u>
(48) <u>Calibration</u>
(49)Monitoring frequency and reporting
(50)Appropriate selection of sample point(s)
(51)General atmosphere checks in vicinity of purge gas release
(52) Protection and Rescue of Personnel
(53) Training requirements for personnel involved in the work efforts
(54) Personal protective equipment
(55) <u>Selection of fire-resistant clothing (FRC) shall be based on a hazard analysis in accordance with</u> NFPA 2113
(56) Rescue equipment, including self-contained breathing apparatus and breathing air escape packs
(57) <u>Standby rescue personnel</u>
(58) Primary and secondary assembly areas
(59) Assignment of personnel for alerting and accounting of personnel
Statement of Problem and Substantiation for Public Input
Valve line-up charts are a critical part of any complex piping safety protocol.
Submitter Information Verification

Submitter Full Nar	ubmitter Full Name: John Puskar		
Organization:	PuskarCo		
Street Address:			
City:			
State:			
Zip:			
Submittal Date:	Wed Jan 03 07:37:35 EST 2018		

	Chapter 5 Training Requirements
	5.1 Training.
	Persons whose duties fall within the scope of this standard shall be provided with training that is consistent with the scope of their job activities and assigned tasks for the cleaning or purging work to be performed. Evidence of knowledge transfer shall be included as part of the training program. <u>Training efforts shall</u> include compliance with ANSI Z490.1 - 2009 Criteria for accepted practices in health, safety and environmental training.
	5.1.1
	Topics covered by such training shall include hazards of flammable gas, hazards of compressed gases used for cleaning or purging, safe handling practices of flammable gas and compressed gas as applicable, and company emergency action plans and procedures <u>and all other relevant topics introduced in chapter 4 as considerations for a complete purging plan</u> .
	5.1.2
	Personnel training shall be conducted by a competent person knowledgeable in the subject matter and shall be documented.
	<u>5.1.</u>
	3_
	Training 3_
	Training shall include demonstration of skills and a witness check off system to validate skills transfer and capabilities. Skills validation shall include at least the following:
	a) Demonstration of proper use of necessary meters and sampling techniques.
	b) Demonstration of proper connection of inerting hose sections.
	c) Demonstration of proper monitoring of inert flows
	d) Demonstration of operating critical valves
	e) Demonstration of using emergency communications equipment
	f) Demonstration of proper use of personal environmental monitors
	g) Demonstration of use of SCBA equipment if part of the project
	<u>5.1.4</u>
	<u>Training</u> records, including dates of training, name of instructor(s), content or curriculum covered, and evidence of knowledge transfer, shall be maintained for a period not less than 5 years from the date of completion of the activity.
e	ment of Problem and Substantiation for Public Input
h i	NSI Z490 is a well known safety training standard that addresses training needs analysis. In addition to this we nould make sure that all of the items requested of a purging plan are within the scope of training. is usual and customary in industrial safety training to document both knowledge and skill transfer. Nothing to da the standard addresses hands on skills vital for safety of purges.
r	nitter Information Verification

City:	
State:	
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Submittal Date:	Wed Jan 03 06:57:23 EST 2018

	ion for discharged debris
being cleaned.	vill be given in the cleaning plan to debris that might be discharged from a piping system
being cleaned.	
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	iem and oubstantiation for Fublic input
Pine blows can disc	charge metallic objects like welding slag great distances and cause harm to persons and
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Public Input	No. 24-NFPA 56-2018 [Section No. 7.1.2 [Excluding any Sub-Sections]]
between the po	enerating plant is owned or operated by the serving natural gas supplier, natural gas piping int of delivery or source valve and the plant shall be permitted to be purged into service in In the serving natural gas supplier's written procedures.
atement of Prob	lem and Substantiation for Public Input
that may not have a	se. There is no guarantee of safety or protecting the public that accrues from having a group adequate plans or protections to avoid this standard. There for sure are some competent and s, but not all of them are consistent in their level of competence.
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Sections 7.1.2	<u>1, 7.1.2.2</u>
7.1.2.1 –	
The natural gas Section 4.5 -	supplier's written procedures shall include a safety validation in accordance with
7.1.2.2 –	
The natural gas personnel.	supplier's written procedures and process shall be coordinated with the plant operational
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ement of Prob	
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8.2.1 * –	
between the po	enerating plant is owned or operated by the serving natural gas supplier, natural gas piping int of delivery or source valve and the plant shall be permitted to be purged out of service with the serving natural gas supplier's written procedures.
8.2.1.1 –	
The natural gas Section 4.5 -	supplier's written procedures shall include a safety validation in accordance with
8.2.1.2 –	
The natural gas personnel.	supplier's written procedures and process shall be coordinated with the plant operational
I do not agree that	lem and Substantiation for Public Input all gas utilities have great plans and processes for purging. This allowance for all of them is to t protect the public or the employees.
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I do not agree that broad and does not ubmitter Informat Submitter Full Nar Organization: Street Address: City:	all gas utilities have great plans and processes for purging. This allowance for all of them is to t protect the public or the employees. tion Verification me: John Puskar

Public Input	No. 27-NFPA 56-2018 [Section No. 8.3.1]
8.3.1*	
Pressurized flar	mmable gas systems shall be vented (depressurized) prior to being purged out of service in
	n the written purge procedure. The final vented pressure shall be such that only a residual
	remains and the piping system is kept at a positive pressure with respect to the ambient prevent oxygen migration into the piping system.
	prevent oxygen migration into the piping system.
ement of Prob	lem and Substantiation for Public Input
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Wanted to add key depressurized or ve omitter Informa Submitter Full Nat Organization: Street Address: City:	issues such as the term venting and the need to identify a final safe status for the ented line. tion Verification me: John Puskar

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<u>A 1.1.1.1</u>	
	intended to include oil and gas production facilities in as much as no existing standards provide n during maintenance activities"
Clarifies and deline	
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Clarifies and deline was intended to inc	eates Oil and Gas Production facilities from downstream pipeline facilities and indicates NFPA solute such facilities.
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Clarifies and deline was intended to inc bmitter Informa Submitter Full Nat Organization: Affilliation: Street Address: City:	eates Oil and Gas Production facilities from downstream pipeline facilities and indicates NFPA solude such facilities. tion Verification me: Scott Neil DCP Midsteam LLC

TITLE OF NEW	
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<u>A 1.1.2 (xx)</u>	
	nciples and Practices incorporates the same flammability indexes as NFPA 56 but allows the purging th air in a controlled, Engineering designed procedure that still requires proper venting and
for employees, and regarding purging	s piping into or out of service procedures are to include positive isolation of piping systems, training nd careful planning for any releases including consideration of ignition sources. For guidance g procedures and planning for purging piping systems where flammable gas may exist, see NFPA 56: and Explosion Protection during Cleaning and Purging of Flammable Gas Piping Systems, Chapters
	not be cleaned of construction debris by introducing natural gas at high rates and discharging in an ithout control or monitoring Chapters 1-6 inclusive of NFPA 56 are still applicable."
unsafe location w	
unsafe location w	vithout control or monitoring. Chapters 1-6 inclusive of NFPA 56 are still applicable."
unsafe location we want to be a constrained of the second	Vithout control or monitoring. Chapters 1-6 inclusive of NFPA 56 are still applicable."
unsafe location we tement of Prob Clarify which portion omitter Informa	Item and Substantiation for Public Input ns of NFPA 56 are applicable in gas gathering operations and maintenance tion Verification
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unsafe location w tement of Prob Clarify which portio omitter Informa Submitter Full Nat Organization: Affilliation: Street Address: City:	Item and Substantiation for Public Input Ins of NFPA 56 are applicable in gas gathering operations and maintenance tion Verification me: Scott Neil DCP Midsteam LLC

🛯 🍋 Public Input	No. 5-NFPA 56-2017 [New Section after A.1.1.2(5)]
NFPA	
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<u>A 1.1.2 (yy)</u>	
"PSM incorporate	s the all work be conducted with an approved Engineering designed procedure in a controlled
	requires proper venting and monitoring. Some inerting procedures utilize steam or air using AGA
	es as discussed for pipelines."
Statement of Prob	em and Substantiation for Public Input
Statement of Prob	em and Substantiation for Public Input
Clarifies and allows	procedures vetted and approved in the PSM process for operations and maintenance activities
	procedures vetted and approved in the PSM process for operations and maintenance activities
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