API Comments on OSHA Guidance Document on Process Safety Management Guidelines for Small Business Compliance September 29, 2016

OSHA Guidance Document Text	API Comment/Rationale	Suggested Alternative
General Comments	The guidance document provides recommendations beyond the scope of PSM, confusing what is required and what is suggested. The document greatly expands MI requirements. The document misunderstands the components of RAGAGEP The document promotes use of third-party auditors, which is not required by PSM.	Include American Chemistry Council in industry list on pages 2 and 3.
Process Safety Information		
PSI must include information on the hazards of the highly hazardous materials used or produced by the process, information on the technology of the process, and information on the equipment used in the process.	OSHA PSM definition of a process includes any activity involving a highly hazardous chemical including any use, storage, manufacturing, handling, or the on-site movement of such chemicals, or combination of these activities. This guidance document needs to be consistent with the PSM regulation.	Change "used or produced" to "used, produced, stored or transported on-site."
The PSI compiled by the employer must allow for an accurate assessment of fire and explosion characteristics, reactivity hazards, intermediate chemical properties, safety and health hazards to workers, and corrosion and erosion effects on the process equipment and monitoring tools.	We encourage performance-based, rather than prescriptive, regulation. Existing PSM regulation requires corrosion and erosion information on the PSI.	Remove "corrosion and erosion effects on the process equipment and monitoring tools" and replace with "corrosivity effects on equipment."
Process technology information must include diagrams (Block, Process Flow, or Piping and Instrument Diagrams (P&IDs) as shown in Appendices B and C of the PSM standard),	To require employers to establish maximum inventory level criteria for process chemicals is a new interpretation of PSM. Safe upper and lower limits and the consequences of deviation	Change highlighted text to "Block or Process Flow and P&IDs." Change "as depicted below" to "as depicted

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which will help users understand the process.	are related to process parameters and not	above."
For instance, a block flow (simplified) diagram	maximum intended inventory, unless	
and a process flow diagram (as depicted	inventory limit excursions could result in	Change "clarity" to "for compliance with
below) are used to show the major process	other consequences. Maximum inventory	material and energy balance along with
equipment and interconnecting process flow	values are typically used for applicability	process chemistry requirements."
lines. It also shows flow rates, stream	determination and potentially for consequence	
composition, temperatures, and pressures	bounding.	Revise the final sentence as follows:
when necessary for clarity. Additionally, an		"Additionally, an employer shall establish
employer must establish maximum inventory		maximum inventory level criteria for process
level criteria for process chemicals (i.e., limits		chemicals. An employer shall consider the
beyond which would be considered upset		consequences or results of deviating beyond
conditions) as well as a qualitative estimate of		the established safe process limits."
the consequences or results of deviation that		1
could occur if operating beyond the		
established process limits.		
Employers must also document that	The Center for Chemical Process Safety (CCPS)	Insert the word "practices" prior to
equipment complies with recognized and	is not a potential source of RAGAGEP.	(RAGAGEP).
generally accepted good engineering		
(RAGAGEP). For more information on OSHA's		
interpretation of RAGAGEP see OSHA		Remove "Center for Chemical Process Safety
Memorandum, RAGAGEP in Process Safety		(CCPS)" from the list of institutions that
Management Enforcement. 12 Below is a		publish standards that may contain applicable
non-exhaustive list of institutions that publish		RAGAGEP.
standards that may contain applicable		
RAGAGEP:		
American National Standards Institute		
(ANSI),		
American Petroleum Institution (API),		
American Society for Testing and Materials		
(ASTM)		
American Society of Mechanical Engineers		
(ASME),		
American Welding Society (AWS)		
 Center for Chemical Process Safety (CCPS), 		
• Compressed Gas Association (CGA),		
• International Code Council (ICC),		

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 International Organization for Standardization (ISO), National Association of Corrosion Engineers (NACE), and National Fire Protection Association (NFP A). Process Hazard Analysis A PHA team must be comprised of personnel that are knowledgeable in engineering and process operations, and have at least one person Safeguards may include inherently safer or passive approaches to hazard control "Small businesses will often have processes that have less storage volume, less capacity and may be less complicated than processes at a large facility and However some small businesses utilize complex processes. In these instances, employers must use a PHA methodology appropriate to the process, such as a Hazard Operability Study (HAZOP), or Failure Mode and Effects Analysis (FMEA). In such instances, small businesses may find the PHA contractor assistance is beneficial." 	Text is inconsistent with regulatory language. In addition, the statements on page 7 of the guidance document referencing the complexity of the process in relation to the PHA methodology are vague and subject to misinterpretation.	The term "person" should be replaced with "employee" to be consistent with the regulations and to avoid confusion. Remove the sentence beginning the "Safeguards may include " Remove two paragraphs starting with "[s]mall businesses will often have processes with less storage volume" and ending with "small businesses may find that PHA contractor assistance is beneficial."
PHA Development Team	Language is inconsistent with regulatory text.	Revise the highlighted sentence to say "shall
In order to conduct an effective, comprehensive process hazard analysis, the analysis must be performed by competent persons, knowledgeable in engineering and process operations, and those persons must be		be performed by a team with expertise in engineering and process operations, and the team shall include at least one employee who has experience and knowledge specific to the process being evaluated. Also, one member of
familiar with the process being evaluated. Some employers may have a staff with the		the team shall be knowledgeable in the specific process hazard analysis methodology

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expertise needed to perform an effective		being used."
process hazard analysis. However the		
employer should ensure that its staff not only		Remove the sentence "OSHA believes it is
has the necessary engineering and process		important to note that in all situations, the
operations expertise, but also of the PHA		team performing the process hazard analysis
methodology used.		must include at least one employee from the
		facility who is intimately familiar with the
OSHA believes it is important to note that in all		process."
situations, the team performing the process		
hazard analysis must include at least one		
employee from the facility who is intimately		
familiar with the process.		
Training	1	'
For example, those who work in the area or	Language is inconsistent with regulatory text.	Re-word from "other employees" to "visitors
operate the equipment will receive more		or other non-operational personnel."
extensive training than other employees.		
State of the state		Revise the highlighted OSHA draft wording
In the training program documentation,		with "The employer shall ascertain that each
employers should clearly define the employees		employee involved in operating a process has
to be trained and what subjects are <i>to</i> be		received and understands the training
covered in their training. Employers in setting		required by this paragraph. The employer
up their training program should clearly		shall prepare a record which contains the
establish the goals and objectives they wish to		identity of the employee, the date of training,
achieve with the training that they provide to		and the means used to verify that the
their employees. The learning goals or		employee understood the training."
objectives should be written in clear		
measurable terms before the training begins.		
These goals and objectives should be tailored		
to each of the specific training modules or		
segments. Employers should describe the		
important actions and conditions under which		
the employee will demonstrate competence or		
knowledge as well as what is acceptable		
performance.		
Employers should periodically evaluate their	Wording regarding the evaluation of the	Revise the highlighted sentence to say
training programs to see if the necessary skills,	training requirement should be clarified to be	"Employers should periodically evaluate their

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knowledge, and routines are being properly	consistent with regulatory requirements.	training programs through their audit process
understood and implemented by their trained		as prescribed by PSM requirements"
employees. Training program evaluation will	Second language training for all trainers is	
help employers to determine the amount of	unrealistic.	Delete "If there is a language barrier, the
training their employees understood, and		language known to the trainees should be used
whether the desired results were obtained. If,		to reinforce the training messages and
after the evaluation, it appears that the trained		information."
employees are not at the level of knowledge		
and skill that was expected, the employer will		
need to revise the training program, provide		
retraining, or provide more frequent refresher		
training sessions until the deficiency is		
resolved. Those who conducted the training		
and those who received the training should		
also be consulted as to how best to improve		
the training process. If there is a language		
barrier, the language known to the trainees		
should be used to reinforce the training		
messages and information.		
Mechanical Integrity		
Employers who do not have a mechanical	It is not a requirement of PSM to identify all	Revise the sentence as follows: "Employers
integrity program will first need to identify all	equipment that is part of the covered process	who do not have a mechanical integrity
equipment that is part of the covered process.	or to subject utility piping and equipment to	program will first need to identify all critical
	MI requirements.	equipment that is part of the covered process."
In many cases, the equipment that is part of	Language is inconsistent with regulatory text.	Revise "part of the process" to "part of the
the process will have inspection and testing	Zangaage is meonoistent with regulatory tent.	mechanical integrity program."
recommendations from the manufacturer. If		meenamear meegrey programs
the covered equipment does not have any		
mechanical integrity related manufacturers		
recommendations, employers should look for		
applicable codes/standards or industry best		
practices.		
Compliance Audit	1	1
An audit is a technique used to gather	The current language "including statistical	Change current draft wording to "a statistically
sufficient facts and information, including	information" is confusing. Is "statistical	representative sample of supporting records."
statistical information, to verify compliance	information" referring to using a "sampling"	Transfer and trans

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with the procedures and practices the	approach to audits?	Change wording to "at least every three years"
employer has adopted under PSM. A		as opposed to "every three years."
compliance audit must be conducted every		
three years.		
Employers must select at least one individual	It is not a PSM requirement of employers	Revise the highlighted sentence to say,
that is knowledgeable about the process to be	create teams based on the complexity of a	"However, for some complex and/or larger
audited. For some complex and/or larger	process, so this recommendation is confusing.	processes, OSHA believes a team of individuals
processes, OSHA believes a team of individuals		would be beneficial for conducting an audit."
would be beneficial for conducting an audit.		
However, for less complex and/or smaller		
processes an employer may need only one		
knowledgeable person to conduct an audit.		
The audit must include an evaluation of the	This draft wording implies that the PSM	Delete the sentence, "The audit should be
effectiveness of the PSM program by verifying	regulation or this guidance document requires	conducted or lead by a person knowledgeable
compliance with the provisions of PSM and	third-party auditors should conduct or lead	in audit techniques and who is impartial
that the procedures and practices developed	the audit which is not the case.	towards the facility or area being audited."
are adequate and are being followed. The audit		
should be conducted or lead by a person		
knowledgeable in audit techniques and who is		
impartial towards the facility or area being		
audited. The essential elements of an audit		
program include planning, staffing, conducting		
the audit, evaluation and corrective action,		
follow-up and documentation.		
Appendix A: FAQs		
'What are a few key PSM elements all employees	Not all employees must know the complex	Change from "All employees should know the
should know?" All employees should know the	natures of all of the chemicals they are	hazards" to "Personnel involved in
hazards related to storing, mixing or	working with. This places an unnecessary	operations should know the hazards"
processing chemicals. They should know how	training burden on companies without any	
each of their processes work. They should also	proof of an associated decrease in injuries.	
know when equipment is operating		
improperly or outside safe limits. If equipment		
is not operating properly or an emergency		
occurs, they should know what response		
actions to take and who to contact.		