The purpose of this questionnaire is to collect information from partners to understand which occupational safety and health issues are most critical for future research and collaboration. This questionnaire asks you to identify the topics and issues that you believe are the highest priority in the U.S. oil and gas extraction (OGE) industry. The results from this survey will be used to facilitate discussions of these priorities, resulting in the NORA Oil and Gas Extraction Research Agenda. Your responses are confidential and will not be disseminated to the public.

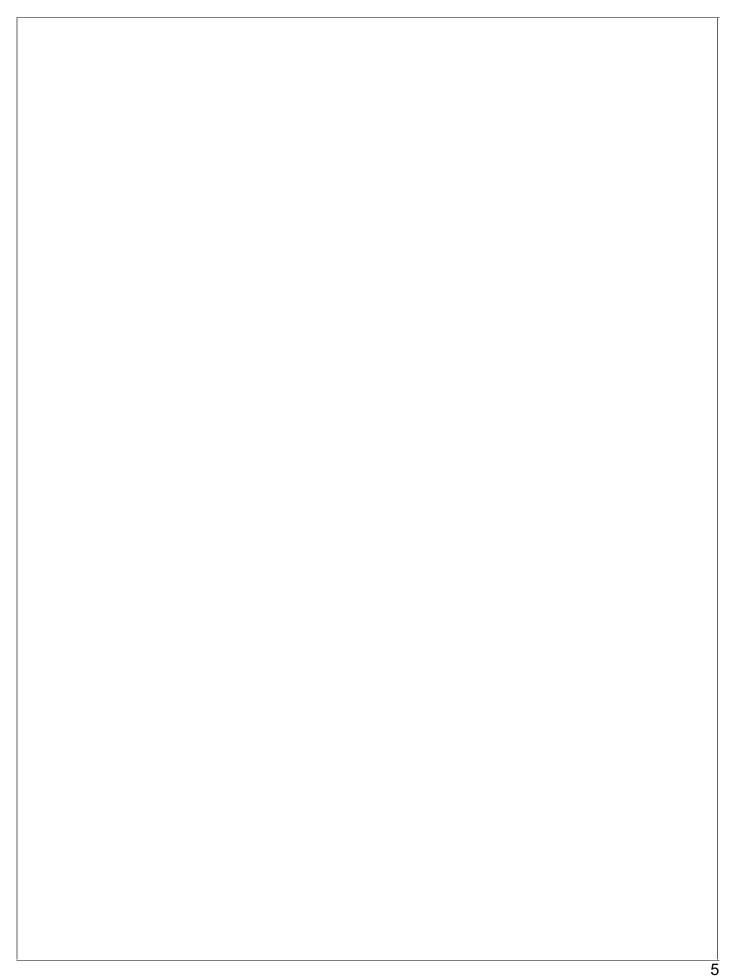
Public reporting burden of this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-0953).

Commuting Contact injuries (struck by/caught between/dropped objects) Fires and explosions Pressure-related events	0	0	
Contact injuries (struck by/caught between/dropped objects) Fires and explosions Pressure-related events	0		
Fires and explosions Pressure-related events	0		
Contact injuries (struck by/caught between/dropped objects) Fires and explosions Pressure-related events			
Pressure-related events			
Falls from height			
Electrocutions			
Heat/Cold Stress			
Musculoskeletal disorders			
Slips/trips			
Pinch point injuries			
Noise			
ther (please specify)			

Diesel Particulate Matter (DPM) Hydrocarbon gases and vapors Benzene NORM Hydrogen Sulfide Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)		Low priority	Medium priority	High priority
Hydrocarbon gases and vapors Benzene NORM Hydrogen Sulfide Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)	Respirable Silica			
Benzene NORM Hydrogen Sulfide Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)	Diesel Particulate Matter (DPM)			
NORM Hydrogen Sulfide Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)	Hydrocarbon gases and vapors			
Hydrogen Sulfide Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)	Benzene			
Dermal Exposures Chronic Health hazards (i.e. cancer, respiratory disease)	NORM			
Chronic Health hazards (i.e. cancer, respiratory disease)	Hydrogen Sulfide			
	Dermal Exposures			
Acute health hazards (i.e. hydrogen sulfide, hydrocarbon gases)	Chronic Health hazards (i.e. cancer, respiratory disease)			
	Acute health hazards (i.e. hydrogen sulfide, hydrocarbon gases)			

3. Please review the list of cross-cutting issues b	elow and indicate which you consider to be Low,
Medium, or High priority for improving worker safe	ty and health in the oil and gas extraction industry

	Low priority	Medium priority	High priority
Making the business case/conducting cost-benefit analyses for health and safety			
Defining a set of leading indicators for the OGE industry			
Ensuring effective contractor management			
Establishing evidence-based lifesaving rules			
Increased use of Process Safety Management			
Increased use of Safety Management Systems			
Improving Safety Climate in the OGE industry			
Ensuring safety and health during the great crew change (retirement of older workforce and transition to younger workers)			
Improving emergency response			
Lock Out/Tag Out improvements			
Engineering Controls			
Improved use of multi-gas monitors			
Increased use of PPE (flame retardant clothes, respirators, hearing protection, etc.)			
Worksite wellness (i.e. smoking cessation, substance abuse prevention, nutrition)			
Evaluation of existing federal and state regulations and their effect on health and safety			
Assessing the existence and needs for recommended practices to address current safety and health hazards on the wellsite			
Improving health and safety of small companies			
Evaluation of industry-specific education and training programs			
Identifying the safest shift length and shift rotation situations			
Evaluation of geographic differences in safety and health hazards (e.g. weather, road infrastructure)			
Other (please specify)			



	1st priority	2nd priority
Evaluation of existing engineering controls being used by industry		
Development of new engineering controls		
Surveillance for silicosis		
Ongoing exposure assessment during hydraulic fracturing		
her (please specify)		
Please rank (1 being most important) the 2 most critical		aluation activities for
nproving worker safety and health in the oil and gas extra	action industry:	
	1st priority	2nd priority
Silica controls		
Alternative produced fluid sampling strategies (without opening hatch) Permeation of drilling fluids into skin	0	
hatch)		
hatch) Permeation of drilling fluids into skin		
Permeation of drilling fluids into skin Drilling rig controls (i.e. pipe handling, automated tongs) "Smart" Lock-out/Tag-out controls (e.g. remote alerts)		
Permeation of drilling fluids into skin Drilling rig controls (i.e. pipe handling, automated tongs) "Smart" Lock-out/Tag-out controls (e.g. remote alerts) Remote monitoring of lone workers		
hatch) Permeation of drilling fluids into skin Drilling rig controls (i.e. pipe handling, automated tongs)		
Permeation of drilling fluids into skin Drilling rig controls (i.e. pipe handling, automated tongs) "Smart" Lock-out/Tag-out controls (e.g. remote alerts) Remote monitoring of lone workers		
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Permeation of drilling fluids into skin Drilling rig controls (i.e. pipe handling, automated tongs) Smart" Lock-out/Tag-out controls (e.g. remote alerts) Remote monitoring of lone workers		

	1st priority	2nd priority	3rd priority
Expand to include long term health effects (i.e. respiratory lisease, cancer)			
dentify and analyze work related hospitalizations			
rack Near Misses/High Potential incidents voluntarily submitted by companies			
Complete case reports with in-depth investigations of serious noidents			
Collect voluntarily submitted leading indicator data			
Collect voluntarily submitted injury and illness data			
ner (please specify)			

	1st priority	2nd priority	3rd priority
Short service employees (new, inexperienced workers)			
Hispanic workers			
Non-English speaking workers			
Temporary workers			
Small contractor employees			
Young workers			
Aging workforce			
Lone workers			
Please rank (1 being most important) the 3 motor ve	hicle safety issue	s that you conside	er the highest
Please rank (1 being most important) the 3motor ve	hicle safety issue	s that you conside 2nd priority	er the highest 3rd priority
Please rank (1 being most important) the 3 motor ve iority for research and intervention.			-
Please rank (1 being most important) the 3 motor ve iority for research and intervention.			-
Please rank (1 being most important) the 3 motor ve riority for research and intervention. Fatigue Seatbelt use			-
Please rank (1 being most important) the 3 motor ve riority for research and intervention. Fatigue Seatbelt use Speeding Journey management (minimizing road travel and associated			-
Please rank (1 being most important) the 3motor veriority for research and intervention. Fatigue Seatbelt use Speeding Journey management (minimizing road travel and associated risks, e.g. weather)			-
Please rank (1 being most important) the 3motor veriority for research and intervention. Fatigue Seatbelt use Speeding Journey management (minimizing road travel and associated risks, e.g. weather) Load securement			-
Please rank (1 being most important) the 3motor veriority for research and intervention. Fatigue Seatbelt use Speeding Journey management (minimizing road travel and associated risks, e.g. weather) Load securement Distracted driving			-
ther (please specify) Please rank (1 being most important) the 3motor veriority for research and intervention. Fatigue Seatbelt use Speeding Journey management (minimizing road travel and associated risks, e.g. weather) Load securement Distracted driving Contractor management Musculoskeletal injuries			-

Taking a faliatura ata al-alaiga an al-ata - 41	1st priority	2nd priority
Fatigue/distracted driver detection		
n-vehicle monitoring	0	
lourney management technologies	0	O
Predictive analytics		\bigcirc
her (please specify)		

10. Please review the list communication products below and select those most effective for
disseminating research-based recommendations to safety and health professionals in the oil and gas
extraction industry? (Select all that apply)
Short videos
Hazard Alerts
Online training tools
Apps (on the phone)
Life-saving rules
Virtual reality tools
Scientific articles
Trade journal articles
Conference presentations
Other (please specify)

11. Please review the list communication products below and select those most effective for
disseminating research-based recommendations to workers in the oil and gas extraction industry? (Select
all that apply)
Short videos
Hazard Alerts
Online training tools
Apps (on the phone)
Life-saving rules
Virtual reality tools
Scientific articles
Trade journal articles
Conference presentations
Other (please specify)