

Liquefied Natural Gas Research and Development Public Meeting and Forum

Working Group #3 – LNG Facility Fire Protection System Design

November 15, 2022





Good Afternoon & Welcome!

- PHMSA Leader: Katherine Roth & Yunmiao Liang, LNG Engineers
- Industry Co-Leader: Casey Briseno, Director -Regulatory Affairs, Tellurian
- Thank you for choosing this Working Group
- We have an important charge for you:
 - Listening/Learning
 - Assist in developing PHMSA's future research agenda
- All presentations posted and available after the forum.





Working Group Objective

Learn about technical challenges, known research investment and success to date within the Working Group subject matter and to identify non-duplicative/complementary technical gaps for future PHMSA research funding.



Safety Administration



Agenda at a Glance





Agenda at a Glance – Day 1

Time	Agenda Item	Role	
1:00 PM	Introduction to Working Group	Working Group Leadership	
	Flame Shielding Presentation	Bryant Hendrickson	
	Question and Answer Session	A11	
	Research Gap Brainstorming Introduction	PHMSA Support Contractor	
	Research Gap Brainstorming Session	All	
	Break*		
	Research GAP Review/Consolidation	A11	
4:00 PM	Day 1 Closeout/Adjourn	Working Group Leadership	

^{*}Break taken as needed.





Agenda at a Glance – Day 2

Time	Agenda Item	Role		
10:00 AM	Review of Consolidated Research Gaps	Working Group Leadership		
	Research Gap Prioritization Introduction	PHMSA Support Contractor		
	Research Gap Prioritization Round 1 & 2	A11		
12:00 PM	Lunch			
	Research Gap Roadmapping*	A11		
4:00 PM	Day 2 Closeout/Adjourn	Working Group Leadership		

NOTE: Remember to use the MS Teams meeting link for Day 2 – See provided agenda NOTE: A summary report containing the roadmapped gaps will be posted 1 week after the forum.





^{*}Afternoon break taken as needed.

PHMSA Funded Research





Working Group #3 Relevant R&D (\$630 K)

Prj # Project ID and Title		Status	Contractor	Funding
1. <u>847</u> 693JK31910003POT	A, Evaluation of the Efficacy	Closed	Gas Technology	\$319,707
and Treatment of Haz	ard Mitigation Measures for		Institute	
LNG Facilities				
2. <u>852</u> 693JK31910008POT	A, Develop a Risk-Based	Closed	Blue Engineering and	\$310,544
Approach and Criteri	a for Hazard Detection		Consulting Company	
Layout				

Research Project Pages found via: https://primis.phmsa.dot.gov/matrix/





Research Knowledge Transfer

- Project results utilized for:
 - Policy and rulemaking development
 - Revision of consensus standards such as with the National Fire Protection Association



Safety Administration

Pipeline and Hazardous Materials



PHMSA Compliance Review





Siting and Design Compliance

- Subpart B Siting
 - Issued 25 letters of determination under MOU with FERC
 - Assist state partners with 3 LNG projects
- Subparts C and E Design and Equipment
 - Completed 1 design compliance review
 - Closing out 3 compliance review
 - Reviewing 8 projects under construction





Thank You!

Program Contacts

Sentho White

Director – Engineering & Research Department of Transportation Pipeline & Hazardous Materials Safety Administration Office of Pipeline Safety (202) 366-2415 sentho.white@dot.gov

Robert Smith

R&D Program Manager
Department of Transportation
Pipeline & Hazardous Materials
Safety Administration
Office of Pipeline Safety
(919) 238-4759
robert.w.smith@dot.gov

Kandilarya Barakat

R&D Operations Supervisor
Department of Transportation
Pipeline & Hazardous Materials Safety
Administration
Office of Pipeline Safety
(202) 941-8623
kandilarya.barakat@dot.gov

Thach Nguyen

LNG Team Operations Supervisor
Department of Transportation
Pipeline & Hazardous Materials Safety
Administration
Office of Pipeline Safety
(909) 262-4464
thach.d.nguyen@dot.gov



