

## Risk Assessment and Mitigation Phase

# (Chapter SCG-Risk-7-QWP) Incident Involving a Contractor Workpapers

May 17, 2021

Overall Workpaper Description	This workpaper file explains the risk scoring and Risk Spend Efficiency (RSE) quantification. It contains necessary information and sources for calculating the risk score and RSE for respective mitigations and controls filed in the 2021 RAMP.			
"Master Inputs" Tab	This sheet contains the m	najor MAVF inputs for risk scoring		
"RSE Summary" Tab	This sheet presents a sun	nmarized view of RSE scoring		
RSE Equation	Risk Reduction	(Pre — Mitigated LoRE * Pre — Mitigated CoRE) — (Post — Mitigated LoRE * Post — Mitigated CoRE)		
	Discounted Time	$1 - \left(\frac{\frac{1}{(1 + Benefit\ Discount\ Rate)^{Benefits\ Lifetime}}}{Benefit\ Discount\ Rate}\right)$		
	RSE per \$M	Risk Reduction * Discounted Time Total Cost (\$M)		

### **Master Inputs**

#### **Discount Factors**

Benefit Discount Factor 3.00%

#### **MAVF Framework**

	Range	Weight
Safety Index	20	60%
Reliability Index	1	23%
Financial Cost	500	15%
Stakeholder Satisfaction Index	100	2%

2021 RAMP SCG-RISK-7-QWP RSE Summary

ID	Mitigation Name	Lifetime Benefit	Total Cost (\$k)	% Change in LoRE
SCG-RISK-7-A02	Alternative - Use A Different Third-Party Administration Tool To Vet Contractors For Safety*	1.0	\$31	0.66%
SCG-RISK-7-A01	Alternative - Use Internal Resources and Tools to Vet Contractors For Safety*	1.0	\$525	1.96%
SCG-RISK-7-C03	Contractor Engagement*	1.0	\$11	0.49%
SCG-RISK-7-C01	Contractor Safety Oversight*	1.0	\$1,669	3.85%
SCG-RISK-7-C04	Expanded Contractor Safety Oversight "Construction Contractor Field Oversight "*	1.0	\$303	0.35%
SCG-RISK-7-C02	Third-Party Administration Tools*	1.0	\$49	1.95%

 $<sup>\</sup>hbox{* Mitigation has adjustment in "\% Change in LoRE" field to account for variance in RSE calculation.}$ 

2021 RAMP SCG-RISK-7-QWP RSE Summary

ID	Mitigation Name	Pre-Mitigated LoRE	CoRE Safety	CoRE Financial	CoRE Reliability
SCG-RISK-7-A02	Alternative - Use A Different Third-Party Administration Tool To Vet Contractors For Safety*	144.77	2.36	0.35	0.00
SCG-RISK-7-A01	Alternative - Use Internal Resources and Tools to Vet Contractors For Safety*	144.77	2.36	0.35	0.00
SCG-RISK-7-C03	Contractor Engagement*	144.77	2.36	0.35	0.00
SCG-RISK-7-C01	Contractor Safety Oversight*	144.77	2.36	0.35	0.00
SCG-RISK-7-C04	Expanded Contractor Safety Oversight "Construction Contractor Field Oversight "*	144.77	2.36	0.35	0.00
SCG-RISK-7-C02	Third-Party Administration Tools*	144.77	2.36	0.35	0.00

<sup>\*</sup> Mitigation has adjustment in "% Change in LoRE" field to account for va

#### 2021 RAMP SCG-RISK-7-QWP RSE Summary

ID	Mitigation Name	CoRE Stakeholder Satisfaction	CoRE	Post-Mitigated LoRE	Risk Reduction
SCG-RISK-7-A02	Alternative - Use A Different Third-Party Administration Tool To Vet Contractors For Safety*	0.53	3.24	143.12	3.08
SCG-RISK-7-A01	Alternative - Use Internal Resources and Tools to Vet Contractors For Safety*	0.53	3.24	139.76	9.19
SCG-RISK-7-C03	Contractor Engagement*	0.53	3.24	143.52	2.29
SCG-RISK-7-C01	Contractor Safety Oversight*	0.53	3.24	134.91	18.05
SCG-RISK-7-C04	Expanded Contractor Safety Oversight "Construction Contractor Field Oversight "*	0.53	3.24	143.88	1.62
SCG-RISK-7-C02	Third-Party Administration Tools*	0.53	3.24	139.76	9.16

<sup>\*</sup> Mitigation has adjustment in "% Change in LoRE" field to account for va

2021 RAMP SCG-RISK-7-QWP RSE Summary

ID	Mitigation Name	Discounted Time	RSE per \$Million	Data Sources
SCG-RISK-7-A02				>Internal Class 1 Contractor OSHA
	Alternative - Use A Different Third-Party			Reportable Incident Rate & Safety
	Administration Tool To Vet Contractors For	0.97	96.50	Consequence data
	Safety*		96.50	>ISN
	Salety			>Bureau of Labor Statistics
				>SME Input
				>Internal Class 1 Contractor OSHA
			17.00	Reportable Incident Rate & Safety
SCG-RISK-7-A01	Alternative - Use Internal Resources and Tools to	0.97		Consequence data
SCG-RISK-7-AUI	Vet Contractors For Safety*	0.97		>ISN
				>Bureau of Labor Statistics
				>SME Input
				>Internal Class 1 Contractor OSHA
				Reportable Incident Rate & Safety
SCG-RISK-7-C03	Contractor Engagement*	0.97	202.20	Consequence data
3CG-KI3K-7-CU3				>ISN
				>Bureau of Labor Statistics
				>SME Input
		0.97		>Internal Class 1 Contractor OSHA
				Reportable Incident Rate & Safety
SCG-RISK-7-C01	Carterates Cafate Occasions*		10.50	Consequence data
3CG-KI3K-7-CU1	Contractor Safety Oversight*			>ISN
				>Bureau of Labor Statistics
				>SME Input
	Expanded Contractor Safety Oversight "Construction Contractor Field Oversight "*	0.97		>Internal Class 1 Contractor OSHA
			5.20	Reportable Incident Rate & Safety
SCG-RISK-7-C04				Consequence data
				>ISN
				>Bureau of Labor Statistics
				>SME Input
	Third-Party Administration Tools*	0.97		>Internal Class 1 Contractor OSHA
			181.50	Reportable Incident Rate & Safety
SCG-RISK-7-C02				Consequence data
				>ISN
				>Bureau of Labor Statistics
				>SME Input

<sup>\*</sup> Mitigation has adjustment in "% Change in LoRE" field to account for va