APPENDIX I

Proposed Measures

SoCalGas has identified several metrics and indicators as proposed methods to measure change in culture and progress in our plan. The outcome indicators are identified at the Element level to indicate an effort to measure change in culture, not track actions. Separately, SoCalGas has identified multiple progress measures at the Action level to track activities and progress.

In total, SoCalGas has identified and proposed:

- 11 Safety Culture Outcome Indicators
- 11 Safety Culture Improvement Plan Progress Metrics

	Element 1: Communicate and implement a comprehensive approach to safety					
Metric/Indicators	Description	Data Collection	Purpose/Objective			
Qualitative assessment of leadership site visits	Track leadership site visits and assess learning and engagement	Create a form with open text questions to gather information from the leadership site visits. Following each visit, the leader will be asked to share learnings and activities as part of a post-visit debrief and reflection. Data gathered will then be analyzed by SoCalGas team trained to analyze from a cultural perspective.	learning as well as the understanding of comprehensive safety. A visit that aligns with Safer Together could show increased focus on all aspects of comprehensive safety (e.g., security, actions impacting public safety, etc.); increased humility, listening, curiosity to understand employees concerns and ideas; discussion of potential "what if" scenarios; efforts to understand systemic impacts and opportunities to improve; and an effort to build trust, empower, and collaboratively improve. Since these sort of formally tracked site visits have not occurred in the past, SoCalGas proposes using the 2EC Report as a baseline ² Based on the 2EC.			

¹ Effectiveness of Initiative at achieving intended objectives.

² For the purposes of measuring these qualitative metrics, "baseline" indicates a starting point, for example the 2EC report.

proposes to collect and assess these messages as they are circulated. Qualitative assessment of individual and team safety awards awards Outcome Indicator: Assess safety awards given by SoCalGas to employees Outcome Indicator: Assess safety awards given by SoCalGas to employees SoCalGas recognizes and rewards safety through its recognition policies and awards at its annual Safety Congress SoCalGas proposes to collect and assess they management system)? To establish a baseline for comparison, SoCalGas will use safety messages at the time of the 2EC Report (2021/2022). Assess safety rewards to assess how they communicate safety success. SoCalGas proposes to analyze individual and team rewards: do they reward leading efforts and indicators (or outcome focused)?	Qualitative assessment of weekly leadership safety messages	Outcome Indicator: Track and assess weekly leadership safety messages to assess change in communications	SoCalGas circulates a weekly leadership safety message – leaders allowed to choose their own safety topic to communicate to the company. SoCalGas	compliance), a baseline ³ visit would likely show limited dialogue on comprehensive safety (e.g., would remain focused on personnel safety – PPE, CMVIs, etc.), less open and candid conversation on challenges, and include more one-way communication. Assess whether leader communications are communicating comprehensive safety topics and advancing our Safer Together North Star. SoCalGas proposes to assess leadership safety message topics: do they include employee, public, infrastructure, and/or contractor safety? Are they personal (e.g., show openness, transparency, and humility)? Do they include safety and culture concepts (HOP,
Assess safety awards awards Assess safety awards awards Assess safety awards awards Assess safety awards given by SoCalGas to employees and awards at its annual Safety Congress. SoCalGas proposes to identify and analyze what was rewarded previously and what is rewarded in the future to awards SoCalGas proposes to analyze individual and team rewards: do they reward leading efforts and indicators (or outcome focused)? Do they reward a comprehensive approach to safety (or focused on personnel safety)? Does it include considerations of our Safer Together North Star? To establish a baseline for comparison, SoCalGas will identify and assess individual and team safety rewards at the time of the 2EC Report (2021/2022).				psychological safety, safety management system)? To establish a baseline for comparison, SoCalGas will use safety messages at the
	individual and team safety	Assess safety awards given by SoCalGas to	rewards safety through its recognition policies and awards at its annual Safety Congress. SoCalGas proposes to identify and analyze what was rewarded previously and what is rewarded in the future to	success. SoCalGas proposes to analyze individual and team rewards: do they reward leading efforts and indicators (or outcome focused)? Do they reward a comprehensive approach to safety (or focused on personnel safety)? Does it include considerations of our Safer Together North Star? To establish a baseline for comparison, SoCalGas will identify and assess individual and team safety

³ For the purposes of measuring these qualitative metrics, "baseline" indicates a starting point, for example the 2EC report.

Metric/Indicators	Description	Data Collection	Purpose/Objective
% of executive leaders engaged in safety and culture coaching	Progress Metric ⁴ : % of executive leaders engaged in safety and culture coaching	Track executive leaders engaged in safety and culture coaching and divide by executive leader population	Track executive leaders engaged in safety and culture coaching and divide by executive leader population. Higher percentage of leaders engaged shows increased leadership engagement and commitment. Since this is a newly proposed activity, the baseline is 0% for this coaching.
% of Leadership Excellence & Accelerated Development (LEAD) programs reviewed and updated (out of 3 LEAD programs identified)	Progress Metric: % of LEAD programs reviewed and updated	Track number of LEAD programs reviewed and updated and divided by three	Track number of LEAD programs reviewed and updated. Higher percentage of updated or created development activities, shows changes to SoCalGas development practices. Since SoCalGas is proposing to track reviews and updates, the baseline is 0.
Action 2: Ch	ange how safety is commu	nicated by updating repor	ting, recognition, and performance management tools
% of SoCalGas locations with visible measures of leading indicators and comprehensive safety	Progress Metric: % of SoCalGas locations with visible measures of leading indicators and comprehensive safety	Track number of SoCalGas locations with visible measures of leading indicators and comprehensive safety divided by total number of SoCalGas locations ⁵	Track percentage of SoCalGas locations with visible measures of leading indicators and comprehensive safety. Higher percentage of locations shows change in how safety success is being communicated. SoCalGas is proposing to track new installations and will use 0% as a baseline.
	nd celebrate curiosity an		nd contractors to speak up, question, and share their ideas
Metric/Indicators	Description	Data Collection	Purpose/Objective

 ⁴ Initiative implementation progress.
 ⁵ SoCalGas currently has 79 base locations.

Emmloyee Commen	Outcome Indicate	Courses data to la	Aggagg avvanances of the Continuous Insurance Transfer
Employee Survey	Outcome Indicator:	Survey data to be	Assess awareness of the Continuous Improvement Tracker,
	measure awareness of	collected from	perceptions around SoCalGas transparency, and focus on learning
		Continuous Improvement	
	transparency, and focus	Tracker users	progress in employee perceptions based on changes and continuous
	on learning	electronically and by	improvement.
		paper for analysis	SaCalCas along to include suggest specific of from the 2EC Safety
			SoCalGas plans to include survey questions from the 2EC Safety
			Culture Perception Survey to allow for a baseline, including the
			following questions: (1) SoCalGas management wants concerns
			reported and willingly listens to problems; (2) SoCalGas
			management ensures any concerns raised are addressed; and (3)
			There is a high level of trust between management and employees.
			SoCalGas also plans to include time-barred questions related to
			improvement: (4) In the last 6 months, it has become easier to
			openly challenge decisions made by management; (5) In the last 6
			months, I have seen increased organizational transparency around
			challenges and improvements; and (6) In the last 6 months, I have
			seen more focus on learning and improvement over blame or fault
			finding. SoCalGas also plans to include questions related to the
			continuous improvement tracker and related communications: (7)
			the continuous improvement tracker provides increased
			transparency; (8) the continuous improvement tracker encourages
			me to share ideas; and (9) company communications highlight
			impactful challenges, changes, and improvements.
			impaction chancinges, changes, and improvements.
Assess a random sample	Outcome Indicator:	SoCalGas proposes to	Assess whether the change in tailgate practices increased focus on
of tailgates	measure impact of	use a stratified random	hazards, supported a more comprehensive understanding of safety,
	changes in tailgate	sample of work activities	and advanced a questioning and learning environment. For
	practices in advancing	from departments that	example, a positive tailgate would include dialogue on the work,
	curiosity and	*	risks, and potential hazards; consider comprehensive safety impacts
	,	way, SoCalGas can	(e.g., potential impacts to the public); and show psychological
		capture a snapshot of	(g / 1 · · · · · · · · · · · · · · · · · ·
		Taptare a Shapshot of	

	comprehensive safety (20	practices across regions,	safety / a willingness to challenge and question (e.g., exploring
	each year) ⁶	departments, and bases.	"what if" considerations).
		SoCalGas personnel who have been engaged in and completed dialogues and dialogue note taking training will observe to promote capturing of data from a cultural perspective.	For a baseline, SoCalGas proposes using findings in the 2EC Report. Based on the 2EC Report's Theme 1 (Safety is most often perceived as personnel safety) and Theme 2 (Safety and risk are perceived as achieved by compliance), a baseline visit would likely show limited dialogue on comprehensive safety (e.g., would remain focused on personnel safety – PPE, CMVIs, etc.), less open and candid conversation on challenges (for example, "many employees especially working in the field do not feel that they can raise concerns and/or that they will be acted on.").
Assess a random sample of meetings	Outcome Indicator: measure impact of changes in meeting	SoCalGas proposes to use a random sample of meeting from across	Assess whether the change in guidance on meetings increased adoption and considerations of comprehensive safety (e.g., was public safety discussed during the meeting?) and advanced a
	guidance in advancing	SoCalGas. ⁸ This way,	questioning and learning environment (e.g., were there discussion
	curiosity and comprehensive safety (20 each year) ⁷	SoCalGas can capture a snapshot of practices across departments.	of potential safety impacts associated with the meeting topics?). For example, a positive meeting would include dialogue on potential challenges; consider comprehensive safety impacts (e.g.,
	• /	SoCalGas personnel who have been engaged in	
		and completed dialogues	the 2EC Report as a baseline which found, for example, "other
		and dialogue note taking	than an initial Safety Tip, no mention of safety was made around
		training will observe to	the work processes being discussed" and "Observations of Safety
		promote capturing of	Compliance calls at SoCalGas indicated that pipeline safety is

_

⁶ SoCalGas proposes to start with this sample size but will assess variability across the sample size to understand if this approach provided adequate information for meaningful qualitative analysis

⁷ SoCalGas proposes to start with this sample size but will assess variability across the sample size to understand if this approach provided adequate information for meaningful qualitative analysis

⁸ As a starting point, for the sampling, SoCalGas plans to use the same universe of meetings provided to 2EC as part of their assessment. This way, SoCalGas is observing a relatively similar baseline set of meetings.

		data from a cultural perspective.	presented as beyond 'normal safety.' Normal safety is more concerned with driving, personnel and customer safety."
Action 1:	Enhance practices to emp	ower employees to questi	on, challenge, and identify potential improvements
Report on completion of updated employee safety manual Action 2: Create	on completion of updated employee safety manual	updated employee safety manual	Report on completion of updated employee safety manual. Completion of our updated employee safety manual documents efforts to formalize and explain company-wide safety goals, strategies, and practices. Since SoCalGas is proposing to create an updated employee safety manual, the baseline is 0. Exponding to employee challenges, suggestions, and ideas
# of learning and continuous improvement processes consolidated	Progress Metric: number of continuous improvement processes consolidated	Track number of SoCalGas continuous improvement processes consolidated	Track number of continuous improvement processes consolidated as part of continuous improvement tracker. Higher number of processes consolidated, shows increased interconnection and transparency. Since this effort is in progress, the baseline is 0.
	tment to engage in collect		d organizational challenges and better prioritize resources
Metric/Indicators	Description	Data Collection	Purpose/Objective
Report on results of the learning teams	Outcome Indicator: measure quality of learning teams	Leverage existing internal processes for documenting the learning team process (the problem statement, recommendations for improvement, and actions taken) ⁹	Assess quality of learning teams in advancing engagement, collaboration, alignment, and improvement. A productive learning team would show signs of sharing, collaboration, and understanding. For example, learning teams that effectively explore a problem statement related to safety resources and collectively problem solve would show progress in understanding safety resource challenges and identifying meaningful and systemic improvement. SoCalGas proposes using the 2EC Report as a baseline which found, for example, "concerns within SoCalGas about whether safety is prioritized through the

⁹ See Appendix K – Learning Team Overview for more details.

			allocation of resources" and "resources are needed to shape a healthy safety culture" (Theme 3).
Employee Survey	Outcome Indicator: measure perceived quality and impacts of learning teams	team participants electronically and by paper for analysis	Assess perceptions on collaboration and expected impact from the identified recommendations. Employees' scores will indicate if there has been progress in employee perceptions based on changes and continuous improvement. To enable a baseline to the 2EC Report, SoCalGas plans to include survey questions from the 2EC Safety Culture Perception Survey: (1) SoCalGas's strategic plans reflect safety as the overriding priority; (2) SoCalGas's staffing levels reflect safety as the overriding priority; (3) SoCalGas's decisions reflect safety as the overriding priority; (4) The way resources are allocated shows that safety is the overriding priority; and (5) SoCalGas management makes safety the overriding priority. SoCalGas also plans to include time-barred questions related to improvement: (6) In the last 6 months, the allocation of resources reflects greater focus on safety; and (7) In the last 6 months, resources have been more aligned to goals and expectations. SoCalGas also plans to include questions related to the learning team process: (8) the learning team provided an impactful vehicle for collaboration and change; (9) I would recommend participating in learning teams to colleagues; and (10) the improvements identified in the learning team are likely to result in positive change.
Acti	on 1: Leverage Learning To	eams to collaboratively e	xplore resource issues identified in dialogues
# of learning teams completed	Progress Metric: number of learning teams completed	Track number of learning teams completed	Track number of learning teams completed as part of Element 3. The more learning teams completed, the more progress in exploring, learning, and identifying improvements. Since this is a newly proposed suite of learning teams, the baseline is 0.

	Action 2: Implement in	nprovements to resource	allocation and goal setting processes
# of improvements implemented from the learning teams	Progress Metric: number of improvements implemented from identified the learning teams	Track number of improvements implemented from identified the learning teams	Track number of improvement implemented from the learning teams identified in Element 3. The more improvements implemented, the more grassroot-based improvement to resource allocation and goal setting practices. Since this is a newly proposed suite of learning teams, the baseline is 0
Element 4: Advance co	ollaboration and an integ	rated management syste	em through enhancements to our Safety Management System
Metric/Indicators	Description	Data Collection	Purpose/Objective
Qualitative assessment of SMS meeting minutes	Outcome Indicator: measure change to integration, alignment, or collaboration	team will keep and record meeting minutes for the SMS governance process. Minutes will then be analyzed by SoCalGas team trained to analyze from a cultural perspective.	or collaboration (e.g., were all affected departments included with at least one representative? were goals aligned? were opportunities

Report on completion of	Progress Measure:	Tracking the	Track development of SMS governance framework to engage
and produce SMS	tracking and sharing SMS	_	leaders to establish clearer roles, responsibilities, shared goals, and
governance framework	governance framework	governance framework	relationships for SoCalGas's SMS. Creation of framework
			indicates leadership commitment and progress toward alignment.
			Since framework does not currently exist, the baseline is 0.
	4	X1.63 1	
	Action 2: Develop new S	SMS policies to provide a	clearer safety management framework
# of policies developed	Progress Measure:	Identification of SMS	Track development of identified SMS policy documents. Progress
and published	tracking number of	policies developed	on rolling out these policy documents across the company will
	policies developed		indicate efforts to formalize connectedness between organizations.
			As a baseline, SoCalGas currently has overarching SMS Plan
			documents. Through this effort, SoCalGas is proposing to develop
			fourteen more detailed and specific documents of safety
			management and strategy.
Stakehold	er dialogues to measure p	rogress and iterate on c	hanges to our safety culture improvement efforts
Metric/Indicators	Description	Data Collection	Purpose/Objective
# of dialogues completed	Progress metric: tracking	Identification of	Measure number of dialogues to understand progress made in
	number of dialogues	dialogues completed	completing planned dialogues. Higher number of dialogues
	completed		completed indicates progress made in assessing progress.
Qualitative analysis of	Outcome Indicator:	Data collected by	Measure information gathered from dialogues to assess progress
information gathered to	analysis of dialogue data	trained notetakers at the	toward Safer Together North Star.
explore our journey	to evaluate our journey	dialogues. Data	T. 1' 4
toward a Safer Together	to evaluate our journey toward a Safer Together	dialogues. Data analyzed by SoCalGas	Indicators of constructive dialogue could include participants
	•		sharing information that enhances SoCalGas's understanding of
toward a Safer Together	toward a Safer Together	analyzed by SoCalGas	sharing information that enhances SoCalGas's understanding of progress toward our North Star (includes successes, challenges,
toward a Safer Together	toward a Safer Together	analyzed by SoCalGas team trained to analyze	sharing information that enhances SoCalGas's understanding of progress toward our North Star (includes successes, challenges, potential changes). For example, if progress is mentioned by
toward a Safer Together	toward a Safer Together	analyzed by SoCalGas team trained to analyze from a cultural	sharing information that enhances SoCalGas's understanding of progress toward our North Star (includes successes, challenges,

			Baseline metric would be same qualitative analysis of prior
			dialogues with employees and contractors.
Delegacional Angles and	Ontonia Matrico martifica	DADC swill be mant of	Manager the fellowing DADC, Attention to Cofety
	Outcome Metric: quantify	^	Measure the following BARS: Attention to Safety;
Rating Scale ¹⁰ (BARS) to	behaviors using a 5-point	survey to be completed	Interdepartmental Communication; Resource Allocation;
measure behaviors relative	scale	by dialogue participants	Organizational Learning; and Problem Identification and
to predefined behaviors		using a 5-point scale.	Resolution. See below for details on each scale.
associated with the INPO			C. C. 1C
traits of a healthy safety			SoCalGas proposes using the 2EC Report as a baseline and
culture			proposes working with CPUC staff to determine where on the
Cultuic			BARS the 2EC Report would have assessed SoCalGas using the
			above categories.

⁻

¹⁰ This approach is based on Organizational Processes and Nuclear Power Plant Safety. Link: https://www.sciencedirect.com/science/article/abs/pii/0951832094900787 [sciencedirect.com]

BEHAVIORAL ANCHORED RATING SCALES & INPO MAPPING

Attention to Safety

INPO Trait Mapping: Questioning Attitude, Leadership Safety Values and Actions, Environment for Raising Concerns

Attention to Safety refers to the characteristics of the work environment, such as the norms, rules, and common understandings that influence SoCalGas personnel's perceptions of the importance that the organization places on safety. It includes the degree to which a critical, questioning attitude exists that is directed toward SoCalGas improvement.

- Individuals at SoCalGas¹¹ believe safety is the number one priority and that perspective is reinforced by senior (high-level) management and clearly communicated to all individuals at SoCalGas.
- Personnel make an effort to correct problems in a timely and effective manner to ensure that safety levels are not compromised within at SoCalGas. Individuals have a clear understanding that safety is a top priority.
- SoCalGas management reflects a delicate balance of emphasizing safety, while at the same time, making it clear that there is a need to keep SoCalGas operating.
- At times, the interests of the stakeholders seem to take priority over concerns regarding the safe operation at SoCalGas and the lack of organization wide support for safe SoCalGas operations is clearly evident.
- Questions regarding safe operations are not welcome or addressed. Management's attitude is to keep SoCalGas operating regardless of evident safety issues.

Interdepartmental Communication

INPO Trait Mapping: Effective Safety Communication

Interdepartmental Communication refers to the exchange of information, both formal and informal, between the different departments or units at SoCalGas. It includes both the top-down and bottom-up communication networks.

¹¹ Please note, for clarity, and to adopt these nuclear facility-oriented BARS to SoCalGas, SoCalGas has revised references to a "facility" to reference SoCalGas.

- Departments keep other departments constantly aware of information they need to know. Individuals within a department know where to go and who to talk to within other departments to obtain information.
- Individuals can readily gain information from other departments when the need arises.
- Interdepartmental lines of communication are well defined and often used on both a formal and informal basis.
- Many departments think it is unnecessary and intrusive to communicate with other departments unless absolutely necessary.
- Departments only communicate with each other when reacting to problems. Most departments are uncommunicative with one or more other departments.

Resource Allocation

INPO Trait Mapping: Leadership Safety Values and Actions

Resource Allocation refers to the way SoCalGas distributes its resources including personnel, equipment, time and budget.

- Management and employee committees collectively gather, prioritize, and determine the hierarchy of goals so that all affected
 parties understand how corporate goals relate to their daily activities. Employees have sufficient resources to implement these
 goals.
- Goals are discussed with employees, established, then disseminated. Progress relative to these goals is then periodically assessed and publicized. Personnel are able to properly prioritize the correction and prevention of problems and seek appropriate guidance and/or materials when necessary.
- Information on current goal attainment is solicited and new goals are formulated based upon past performance. Most employees are aware of the goals of the organization but are not sure how the goals affect their own job. Personnel do not always have the support or resources necessary to correct, prevent, or implement procedures designed to achieve specific goals.
- Senior (high-level) management establishes broad, general goals and informs department heads and other managers in the department of their responsibilities. Employees at lower levels in the organization are not directly contacted about new goals and are not always informed of the measures they need to take to complete work directed at achieving goals.
- No functional goals are established by senior (high-level) management and employee behaviors do not match core values of management. There exist numerous barriers to both human and financial resources that are necessary for proper SoCalGas operations.

Organizational Learning

INPO Trait Mapping: Continuous Learning

Organizational Learning refers to the degree to which SoCalGas personnel and the organization use knowledge gained from past experience to improve future performance.

- Departments throughout SoCalGas hold regular meetings to discuss how various tasks have been performed and how they might be done better in the future. Whenever an event occurs at SoCalGas, a meeting is called to discuss the way the event was handled and more effective alternatives and the results of the meeting are communicated to the larger SoCalGas community.
- Individuals and groups of employees pay close attention to past behaviors and how they can be improved in the future. Information about past activities is formalized and available for future reference.
- SoCalGas usually holds review sessions to discuss operating problems and attempts to uncover solutions to past difficulties. The information is communicated to the larger SoCalGas population when it concerns significant activities.
- Many individuals seem to commit the same errors over and over, without regard for how these errors can be avoided via training or through analysis of past experience.
- Departments continue to use systems, procedures and work practices that have a history of inefficiency or failure therefore the same mistakes are made over and over.

Problem Identification and Resolution

INPO Trait Mapping: Problem Identification and Resolution

Problem Identification and Resolution refers to the extent to which the organization encourages SoCalGas personnel to draw upon knowledge, experience, and current information to identify and resolve problems.

- Employees are equipped with the knowledge and are encouraged to proactively identify potential problems (e.g., equipment, personnel, scheduling). Employees are asked to notify management of potential problems which are then properly addressed.
- Employees are encouraged to notify management of problems they observe. Problems identified by employees are funneled into a system that evaluates the problem and makes a determination regarding future action. Employees receive feedback about problems that were acted upon.

- Employees have a system to report problems they identify. Employees are given inconsistent feedback about problems they identified or problems that were fixed.
- Problems reported by the general employee group rarely receive consideration. Some employees lack the knowledge required to identify potential problems. In some situations, problem identification is met with extreme defensiveness.
- Problems go undetected, or unreported, since most employees lack the knowledge, experience and information necessary and/or fear the consequences of identifying problems.