

# **Consideration of Comments Part 2 – Policy Input**

Project Name: Policy Input Letter Responses

**Comment Period Start Date:** January 5, 2022

Comment Period End Date: January 27, 2022

Associated Ballot(s): N/A

There were 11 sets of responses, including comments from approximately 13 different people from companies representing several of the Industry Segments as shown in the table on the following pages.

All comments submitted can be reviewed in their original format on the Response Attachment.

If you feel that your comment has been overlooked, let us know immediately. Our goal is to give every comment serious consideration in this process. If you feel there has been an error or omission, contact Chair Peter Brandien at pbrandien@iso-ne.com.



#### Questions

- 1. Will the proposed approach summarized above and outlined in the SAR enable stakeholders to identify energy deficit risks and develop mitigations from energy constrained resources?
- 2. Is there a preferred alternative approach to that outlined in the SAR, or enhancements to the proposed approach in the SAR, that would enable stakeholders to identify energy deficit risks and develop mitigations from energy-constrained resources?

### **The Industry Segments are:**

- 1 Transmission Owners
- 2 RTOs, ISOs
- 3 Load-serving Entities
- 4 Transmission-dependent Utilities
- 5 Electric Generators
- 6 Electricity Brokers, Aggregators, and Marketers
- 7 Large Electricity End Users
- 8 Small Electricity End Users
- 9 Federal, State, Provincial Regulatory or other Government Entities
- 10- Regional Reliability Organizations, Regional Entities



Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Canadian Electricity Association	Francis Bradley							
Edison Electric Institute								
New York State Reliability Council	Paul Gioia, Esq.							
National Rural Electric Cooperative Assn.	Patti Metro							
North American Generator Forum								
State/Municipal and Transmission Dependent Utilities	John Haarlow John Twitty Brian Evans- Mongeon	Sector 2						
Federal Utilities and Federal Power Marketing Administration	Edison G. Elizeh	Sector 4						
Merchant Electricity Generator Segment	Martin Sidor, NRG Energy Inc. Sean Cavote, PSEG	Sector 6						



Large End-Use Consumers	ELCON (Electricity Consumers Resource Council)	Sector 8			
Small End-Use Electricity Customer	Mike Moody Darryl Lawrence	Sector 9			
ISO/RTO Council (IRC)					



Comment	From	Response
CEA appreciates the efforts of the Energy	CEA – Canadian Electricity Association	Thank you for your comment and for your
Reliability Assessment Task Force ("ERATF")	Francis Bradley, President and CEO	support.
to assess risks associated with energy-		(1) During 2022, the ERATF will work with the
constrained resources, and to better		other RSTC subcommittees and working
understand how stakeholders are evaluating		groups to identify and/create metrics and
energy constraint and fuel availability issues.		tools.
CEA supports efforts to enable stakeholders		
to continue to have the right tools and		
information to ensure Bulk Power System		
("BPS") reliability given the evolution of		
resource mixes in different regions, coupled		
with more extreme weather events, new		
policy demands and a variety of security		
risks. These factors add complexity and new		
challenges to reliable BPS operation.		
The Board of Trustees seeks policy input on	EEI – Edison Electric Institute	Thank you for your comment.
fuel assurance with energy constrained		(2) We agree that broader input should be
resources. Understanding and mitigating		solicited. The ERATF workshop on February
energy constraints and fuel availability issues		16, 2022 served as the initial outreach to
is important. A systematic approach to		industry to provide comments to panelists
addressing these issues is imperative.		and back to the ERATF on the Operations and
Defining the problem, its scope in North		Planning time horizons as well as the tools
America, and potential solutions are		being developed.
necessary elements to make any proposed		
solution effective. The Energy Reliability		(3) The ERATF has modified its proposal into
Assessment Task Force ("ERATF") developed		two SARs that provide greater granularity



Comment	From	Response
a SAR and an accompanying Technical		and specificity, accompanied by updated
Justification Whitepaper ("Whitepaper")		technical justification documents.
with a goal to address energy deficiencies		
through assessments, analysis, and		
mitigation as indicated in the policy input		See Response to Comment CEA
letter. EEI recommends obtaining broader		Theme (A) Response (1).
industry input and clarity surrounding the		
SAR and the issues contained therein. The		
current draft of the SAR contains several		
items that need clarification, including a		
more fulsome description of the reliability		
gap to be addressed. Broader input should		
include entities that would be directly		
affected by a new standard, including all		
RTOs/ISOs as resource adequacy and fuel		
availability intermingle market and reliability		
issues. At minimum, the SAR should be		
revised to ensure that a sound technical		
basis is defined for any new standard in		
order to achieve a specified reliability goal.		
Yes, the NYSRC supports the SAR's objective	NYSRC – New York State Reliability Council	Thank you for your comment and support.
of requiring assessments of the reliability	Paul Gioia, Esq.	
impact of a grid having energy-constrained	·	See Response to Comment CEA
resources to supplement the historical focus		Theme (A) Response (1).
on capacity-constrained resources with an		
assessment of energy assurance.		



Comment	From	Response
• To this end, the section of the SAR under		
the heading of NERC Reliability Standards		
Review reviews much of the critical criteria		
work that will be needed in the development		
of new or modified NERC Standards.		
<ul> <li>The ability to identify risk and develop</li> </ul>		
mitigation is dependent upon targets or		
predefined criteria in the new or modified		
NERC Standards.		
<ul> <li>Given that the deployment of mitigation</li> </ul>		
actions such as transmission reinforcement		
or interconnection of large-scale, long-term		
storage or dispatchable emissions free		
resources may take many years, it is		
necessary to know the specific metrics and		
minimum risk criteria for those metrics as		
early as possible.		
The Cooperative Sector agrees that NERC	NRECA – National Rural Electric Cooperative	Thank you for your comments and support.
needs to take action to ensure energy	Association	The ERATF agrees.
resources are assessed over the appropriate	Patti Metro	
periods and energy deficits are identified.		
Responsible entities should, in a timely		
manner, take actions to address shortfalls.		
There is a diverse set of industry		
stakeholders including federal and state		
regulators that should provide input into this		



Comment	From	Response
to ensure that we are not duplicating responsibilities in capacity planning that already exist. Utilizing the Standards Development Process is the appropriate tool to recommend, highlight and address these reliability concerns and to avoid overlapping responsibilities.  The NAGF believes that the proposed approach described in the draft SAR needs additional work before stakeholders will be able to identify energy deficient risks and develop mitigations from energy constrained resources.	NAGF – North American Generator Forum	Thank you for your comment.  (4) In response to such feedback and comments from the RSTC, the ERATF has updated the SARs and associated technical justification documents.  See Response to Comment EEI Theme (A) Response (2).  See Response to Comment CEA Theme (A) Response (1).
The proposed SAR and White Paper provide a good outline of the issues currently associated with fuel assurance assessment and energy adequacy. As the ERATF notes, the issue of fuel assurance assessment for energy adequacy is far reaching and complex. The SAR work to date is laudable,	SM-TDU – State/Municipal and Transmission Dependent Utilities John Haarlow Terry Huval John Twitty Brian Evans-Mongeon	Thank you for your comment and support.



Comment	From	Response
and the full SAR process will provide a useful forum to identify and gain sufficient		
technical detail for the process to be		
ultimately successful. Working through the		
technical details should provide additional		
framing and opportunities to further define		
the SAR scope.		
The Federal PMAs agree that the proposed	Federal Utilities / Federal Power Marketing	Thank you for your comment.
SAR provides a meaningful way to identify	Administration	(5) We agree with the limitations based on
required fuel supply and delivery assurance	Edison G. Elizeh	transmission constraints should be included
for energy-constrained resources. However		in an energy analysis. Intentionally being
this approach will not fully mitigate the risk		non-prescriptive, specific considerations
the load faces if energy is available from		should be determined by the entity
resources but there are not sufficient		performing the analysis. An area with no
transmission capacity or the system is		transmission constraints would not include
constrained due to dynamic performance		transmission in their study, but the area
issues to deliver that energy from designated		would be required to fully understand their
resources to the load. The time needed to		systems in order to make that determination.
install new generation capacity like wind or		The same philosophy applies to natural gas
solar is much shorter than building new		constraints, wind and solar droughts, hydro
transmission infrastructure or upgrading the		limitations, emissions limitations, etc.
existing transmission capacity to meet the		
load requirements. Currently there are no		
standards addressing the need for load		
responsible entities to acquire transmission		



Comment	From	Response
capacity to meet their future needs. Focusing just on generation adequacy alone will not mitigate the risk the load might face during abnormal weather or system conditions with changes in the resource mix.  Finally, regarding the policy input letter's	Large End-Use Consumers	Thank you for your comment.
question about preferred alternative approaches, there are many market-based ways to mitigate risks associated with energy-constrained resources, such as scarcity pricing to encourage production and discourage consumption under tight conditions. We urge the BOT to give full consideration to the Market Interface Principles, which the draft SAR states it satisfies. Specifically, Large Consumers take a resource neutral approach, and we ask that any Reliability Standard regarding energy-constrained resources focus on BPS reliability and remain agnostic to given electricity production technologies or fuels.	ELCON – Electricity Consumers Resource Council	<ul> <li>(6) Solutions would need to be non-prescriptive and tailored to each regions specific arrangements. The first steps of solving the energy reliability problem are defining the energy reliability problem. The ERATF agrees with the sentiment to remain agnostic to given electricity production technologies or fuels, but they must be accurately represented in studies.</li> <li>(7) In addition, in accordance with the NERC Rules of Procedure, Section 303(2) and (3) a Reliability Standard, "shall neither mandate nor prohibit any specific market structure" and a "Reliability Standard shall not preclude market solutions to achieving compliance"</li> </ul>
The members of Sector (9) agree that the SAR as proposed will identify energy deficit risks to reliability. But as outlined in the	Small End-Use Electricity Customer Mike Moody Darryl Lawrence	Thank you for your comment. We agree with the statements.



Comment	From	Response
response to question 2 below NERC will only		See Response to Comment ELCON
develop potential mitigation for energy		Theme (A) Responses (6, 7).
constrained resources. The approach is		
consistent with the limitations of NERC's		
Reliability Assessment program function and		
NERC's current regulatory authority. Making		
a problem visible is only the first step.		
The IRC believes the proposed approach	ISO/RTO Council - IRC	Thank you for your comment.
outlined in the Draft SAR goes a long way to		
enabling identification of energy deficit risks		(8) In response to such feedback and
and development of mitigations from energy		comments from the RSTC, the ERATF has
constrained resources. We offer below		updated the SARs and associated technical
suggestions for enhancement to the SAR.		justification documents.
Strengthen the approach for risk mitigation		See Response to Comment EEI
The IRC agrees that the proposed approach		Theme (A) Response (2).
outlined in the SAR would allow stakeholders		
to identify energy deficit risks. However, the		See Response to Comment CEA
SAR does not provide enough clarity or		Theme (A) Response (1).
emphasis on how new or revised standards		
will ensure mitigation of existing energy		
deficit risks once they are identified. To		
ensure reliability benefit of new or revised		
standards, they must provide a significant		



### Theme (A): Fuel Assurance with Energy-Constrained Resources

Comment	From	Response
reduction in risks to energy security, and by extension, fuel security that have become more apparent in recent extreme weather events. With that objective in mind, the IRC provides these subsequent comments to address specific concerns.		

#### **Comments**

### Theme (B): Regional/Market Issues

Comment	From	Response
Given that in many regions there is or will be	CEA – Canadian Electricity Association	Thank you for your comment.
an increased penetration of variable	Francis Bradley, President and CEO	We agree with the statements.
resources such as wind and solar, or an		
increased dependence on hybrid resources		See Response to Comment ELCON
or natural gas, CEA understands that fuel		Theme (A) Responses (6, 7).
assurance and forward energy supply		
planning are becoming increasingly		
important.		
As such, a requirement for an energy		
reliability assessment to assess fuel		
assurance and flexibility based on the		



Commont	Fuere	Decreases
Comment	From	Response
evolving resource mix and gas delivery		
security could be one tool that may be		
helpful in addressing these issues.		
That said, different regions across North		
America face different realities in regard to		
fuel assurance with energy-constrained		
resources that must be accounted for,		
including different levels or types of risk		
associated with this issue. For example, some		
regions are not moving away from nuclear		
resources or are better able to balance		
variable renewables due to their unique		
resource mix. CEA encourages NERC to work		
with the Regional Entities as they perform		
long term adequacy studies to incorporate		
fuel assurance and energy supply planning,		
where warranted.		
mere wantantear		
"Energy Assessment" should be defined.	EEI – Edison Electric Institute	Thank you for your comment.
Since the entire scope of the SAR is based on		
the definition of energy assessment,		(1) The ERATF has updated the proposal and
guidance should be provided on what an		associated materials to address these
energy assessment should be and why the		recommendations.
current set of studies and analysis are		
insufficient to address the potential		See Response to Comment EEI



Comment	From	Response
reliability gap. This should include how users,		Theme (A) Response (2).
owners and operators would be expected to		
use the results of the new assessments to		See Response to Comment CEA
address reliability gaps.		Theme (A) Response (1).
Define the timeframes most appropriate		
for these assessments, as opposed to		
anchoring to Transmission Planning		
definitions.		
Clarify which entities would be responsible		
for performing energy assessments		
and/orimpacted by the Standard		
Many public power Balancing Authority (BA)	SM-TDU – State/Municipal and Transmission	Thank you for your comment.
entities operate outside of organized	Dependent Utilities	
markets and therefore would not have all the	John Haarlow	(2) The ERATF has updated the proposal to
market information described in the ERATF	Terry Huval	reflect two SARs to better address such
Whitepaper. Therefore, an assessment in	John Twitty	concerns.
the operational time frame could implicate	Brian Evans-Mongeon	
different data requirements from one BA to		See Response to Comment EEI
another and more generally on a regional		Theme (A) Response (2).
basis. The SM-TDUs are not suggesting that		
the operations time frame be dismissed;		See Response to Comment CEA
rather that, due to regional differences,		Theme (A) Response (1).

<sup>&</sup>lt;sup>1</sup> ERATF White Paper, P. 6.



Comment	From	Response
including the operations time frame in this SAR, and, in turn, the standards development effort, could present an issue that might interfere with the agility of the SAR to meet its goal of addressing the fuel assessment issue. Consequently, the operations time frame may require a SAR of its own rather than being part of this effort.  Recognizing that the SAR works within the Reliability Standards framework, Large Consumers comment only that there also exist many market-based approaches for mitigating risks associated with energy-constrained resources, and we urge the BOT to give full consideration to the Market Interface Principles, which the draft SAR states it satisfies.	Large End-Use Consumers ELCON – Electricity Consumers Resource Council	Thank you for your comment.  See Response to Comment ELCON Theme (A) Responses (6, 7).
Allow flexibility in the standards to account for regional risks  We think the proposed approach outlined in the SAR will enable stakeholders to identify energy risks and develop mitigations.  However, new/modified standard requirements will need flexibility to account	ISO/RTO Council - IRC	Thank you for your comment. We agree with the statements.  See Response to Comment ELCON Theme (A) Responses (6, 7).



Comment	From	Response
for specific regional needs. Identifying		
energy deficit risks is very complex and		
developing a risk calculation that factors in		
all risk types will be challenging. Each region		
or ISO/RTO has their own characteristics that		
must be included in a risk calculation model.		
Due to this complexity, establishing a single		
continent-wide requirement to meet a target		
level of adequacy would be challenging as		
would the accuracy needed from such a		
model to base mitigation solutions upon.		
Therefore, any standards must provide		
enough flexibility to allow regions to develop		
risk models and perform assessments that		
recognize the nature of their system and the		
reliability of the data and models they can		
achieve.		



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Comment	From	Response
Further, different entities and stakeholders	CEA – Canadian Electricity Association	Thank you for your comment.
currently deploy a variety of assessments	Francis Bradley, President and CEO	(1) The ERATF agrees with the need for a risk-
and tools to address a wide range of		based Reliability Standards.
different issues associated with planning and		
addressing risk. NERC is also currently		
focusing on issues related to this topic,		See Response to Comment ELCON
including winter readiness.		Theme (A) Responses (6, 7).
Any new requirements should not add		
unnecessary administrative burdens, should		
complement or bolster existing efforts, and		
should not be overly prescriptive. Further,		
CEA supports efforts to ensure that NERC		
activities, in regard to fuel assurance with		
energy constrained resources, complement		
other efforts in regard to changing resource		
mixes and more extreme weather events.		
NERC should also carefully consider		
alternative approaches that may be		
proposed by stakeholders.		
Finally, some of the issues addressed in the		
proposed SAR may be outside of the purview		
of NERC or what utilities can do individually.		
This is not to say that entities should not		
account for these issues and do what is		



Comment	From	Response
possible to address them, but only to note		
that a new standard may not be able to		
account for or mitigate all risks.		
EEI also recommends that the ERATF review,	EEI – Edison Electric Institute	Thank you for your comment.
revise and resubmit the SAR for Reliability		(1) The SAR is undergoing review in response
and Security Technical Committee comment		to all comments being received post-
after incorporating industry comments from		Workshop.
the ERATF sponsored Workshop and MRC		
input. Specifically, the ERATF should consider		See Response to Comment EEI
refining the language to address the		Theme (A) Responses (2, 3).
jurisdictional, market, and assessment issues		
described in herein. Given the Reliability		
Assessment process embedded in the NERC		
Rules of Procedure, further expansion of that		
process, through the Reliability Assessment		
Subcommittee and Probabilistic Assessment		
Working Group, with input from the rest of		
industry as needed, should be an alternative		
analyzed and discussed at the Workshop as a		
potentially more effective way of		
appropriately addressing the Mid-/Long-		
Term Planning timeframe.		
Further, within the jurisdiction of the Federal	NRECA – National Rural Electric Cooperative	Thank you for your comment.
Energy Regulatory Commission, there exists	Association	(2) The ERATF appreciates these comments
more than one area of regulation that should	Patti Metro	regarding the intricacies of regulation in



Comment	From	Response
be evaluated and resolved to ensure that		areas affecting the considerations to be
obligations are consistent and		assessed under the proposed SARs. The
complementary. For example, load service		ERATF agrees that the SDT should evaluate
and resource adequacy obligations, while not		such matters early in the process and looks
directly stated, can be inferred from the		forward to stakeholder discussion at SDT
Open Access Transmission Tariff. To ensure		meetings as industry works to navigate these
that any reliability standard is appropriately		questions while developing risk-based
scoped and complementary to the existing		requirements.
regulatory framework and obligations, the		
ERATF or appropriate committee should		
evaluate the intersection of state and federal		
regulatory authority and obligations and		
ensure that the obligations and defined		
terms proposed in the SAR complement and		
supplement these existing obligations and do		
not conflict with or duplicate them.		
The Cooperative Sector appreciates that the		
ERATF conducted a survey to begin		
identifying areas to improve existing		
standards and the possible need for new		
reliability standards. However, it is not clear		
if that review only included a review of		
responsibilities in the NERC standards or		
included a review of regulations from other		
parts of the industry which should include a		
review of existing market rules in areas		



Comment	From	Response
served by organized markets Absent a		
thorough review, analysis, and cross-		
reference of these existing assessments and		
associated assumptions (whether required		
by another reliability standard or stemming		
from an OATT or state jurisdictional		
obligation), the results and/or assumptions		
of these existing assessments could, conflict		
with the results and/or assumptions of the		
assessments contemplated within the SAR,		
creating a dynamic where the overall goal of		
reliability is not achieved as effectively as		
possible due to overlapping regulations that		
are potentially in conflict. If this holistic		
review of industry regulations has not		
occurred, we recommend this review occur		
early in the standards development process.		
	,	
The SAR addresses fuel assessment	SM-TDU – State/Municipal and Transmission	Thank you for your comment.
processes that would involve electric utility	Dependent Utilities	(3) The ERATF will share these comments
personnel obtaining information from	John Haarlow	with any SDT.
natural gas providers or distributed energy	Terry Huval	
resources. These proposals, too, may benefit	John Twitty	
from further development given the fact that	Brian Evans-Mongeon	
information would need to be obtained from		
entities that are not subject to the ERO's		



Comment	From	Response
mandatory standards regime. Such		
information requests might raise issues		
somewhat analogous to those that have		
arisen in connection with the supply chain		
standard and the need to obtain information		
from potentially non-jurisdictional sources		
such as equipment vendors. Unlike supply		
chain vendor assessment requests, fuel		
assessment information requests could put		
electric utilities in the position of asking for		
information from entities that are already		
subject to reporting requirements imposed		
by state, local, or federal authorities.		
Moreover, the information may be market		
sensitive. Consequently, the SAR process will		
need to ensure that the drafting team		
structures any proposed standard in a		
manner that addresses the potential		
obstacles to obtaining fuel assessment		
information.		
Sector (9) recommends that the NERC BoT be	Small End-Use Electricity Customer	Thank you for your comment.
proactive with the findings of NERC's	Mike Moody	(4) The ERO Enterprise is dedicated to
Resource Adequacy program (adjusted to	Darryl Lawrence	working with federal regulators, as well as
assess energy limitation risks as outlined by		state and local regulators, on matters that
the ERATF recommendations). The NERC BoT		could impact reliability of the Bulk Power



# Theme (C): Jurisdiction/Duplicate Efforts/Administrative Burden

Comment	From	Response
must work more convincingly with the states to send the clear message that States will "own" any resource adequacy induced losses of load when they occur. Without State acceptance of NERC findings produced by the ERATF solution, there will likely be no mitigation of energy-constrained resource induced loss of load risk.		System. The ERATF appreciates Sector 9's emphasis on the importance of including state regulators in conversations pertaining to energy assurance.

#### Comments

Comment	From	Response
Before any drafting of a standard, CEA	CEA – Canadian Electricity Association	Thank you for your comment.
requests that NERC provide more clarity on	Francis Bradley, President and CEO	(1) The ERATF has modified its proposal into
how new or revised standards will ensure		two SARs that provide greater granularity
mitigation of existing energy deficit risks,		and specificity, accompanied by updated
once they are identified. Further, CEA		technical justification documents.
encourages NERC to consider how to		
establish performance metrics to identify		See Response to Comment CEA
when risk mitigation is required, and what		Theme (A) Response (1).
types of mitigations are appropriate. This		



Comment	From	Response
would offer some clarity in an environment		(2) The ERATF believes that the updated SARs
where entities who need to perform an		and accompanying material would support
assessment may also face advocacy from		Reliability Standards modifications to
other reliability or policy stakeholders to		support an adequate level of reliability to the
implement corrective action plans.		Bulk Electric System (acknowledging that the
		SARs do not seek to insure the Bulk Electric
		System against all risks to reliability under all
		circumstances).
NERC should consider separating the current	EEI – Edison Electric Institute	Thank you for your comment.
SAR into multiple SARs, focused on specific		(3) We agree and the SAR is being separated
operational and planning time horizons. The		by time horizon and delayed for further
types of energy assessments that can and		analysis.
should be performed in the proposed time		
horizons would likely require different		
mitigation and addressing them in one SAR		
(and potentially one Standard) may be overly		
complex. 4 EEI applauds all of the hard work		
that has gone into developing these two		
documents. Efforts to address issues with		
energy constrained resources and fuel		
availability with the changing resource mix is		
important and requires collaboration and		
coordination among affected stakeholders.		
Due to the concerns outlined above, EEI		
respectfully requests the Board delay		
consideration of a resolution to allow time		



Comment	From	Response
for the industry and the RSTC to further		
clarify and refine the SAR(s).		
A suggested enhancement to the proposed	NYSRC – New York State Reliability Council	Thank you for this recommendation.
SAR would emphasize the need for analytical	Paul Gioia, Esq.	
procedures for the assessment of risk with		
energy-constrained resources.		
It is recognized that limited analytical		
procedures currently exist in this area and it		
is suggested that their timely development is		
essential to the objective of the proposed		
SAR.		
In its responses, the NYSRC conveys the time		
criticality of the work that is needed in the		
next few years for a successful transition to a		
decarbonized electric grid and agrees with		
NERC in calling this transition the greatest		
risk to reliability in the next 10 years.		
Many of the "unique characteristics"	NRECA – National Rural Electric Cooperative	Thank you for your comment.
described in the SAR are outside the oversight	Association	, ,
or legal responsibilities of entities that are	Patti Metro	(4) We agree that the unique characteristics
required to comply with FERC approved		may, in some cases, be outside of FERC
Reliability Standards.		jurisdiction. However, the SAR is not
The SAR does not identify the Resource		suggesting to change these characteristics
Planner function as a Functional Entity to		but rather to ensure their impact on the BES



Comment	From	Response
which the SAR would apply. As "[t]he entity		is evaluated and plans are created to prepare
that develops a long-term (generally one		for these risks. Regarding the comment on
year and beyond) plan for the resource		the Resource Planner, the Resource Planner
adequacy of specific Loads (customer		would be impacted, but not necessarily
demand and energy requirements) within a		primary since Resource Planning is very
Planning Authority area," the SAR should		focused on "resource adequacy". A Resource
identify a clear role for this function within		Planner might provide input to the Planning
the energy reliability assessments and other		Coordinator on the performance of the
obligations proposed while ensuring existing		studies.
regulations around integrated resource		
planning are not duplicated.		





Comment	From	Response
As discussed above, the SAR identifies far-	SM-TDU – State/Municipal and Transmission	Thank you for your comment.
reaching and complex issues associated with	Dependent Utilities	
ensuring energy adequacy. The SM-TDUs	John Haarlow	(6) We agree that broader input should be
believe that additional technical detail can	Terry Huval	solicited. The ERATF workshop on February
further inform the standards development	John Twitty	16, 2022 served as the initial outreach to
effort aimed at addressing these issues.	Brian Evans-Mongeon	industry to provide comments to panelists
Specifically, as noted the issues of time		and back to the ERATF on the Operations and
frames and jurisdiction may suggest		Planning time horizons as well as the tools
tightening the scope of the SAR to better		being developed.
ensure the success of the standard's		
development and the agility of completing		See Response to Comment EEI
the initial fuel assurance standard in a timely		Theme (A) Response (2).
manner. We look forward in this regard to		
the upcoming workshop and SAR process.		See Response to Comment CEA
The SM-TDUs also believe the MRC meeting		Theme (A) Response (1).
discussion on Board questions will assist the		
SAR's development.		
The Federal PMAs recommend inclusion of	Federal Utilities / Federal Power Marketing	Thank you for your comment.
transmission adequacy as part of the	Administration	(7) We agree and we updated the language
proposed standard. As stated above, changes	Edison G. Elizeh	in the SAR: "and transmission capacity and
in resource mix and grid transformation will		deliverability to the load centers."
require new methods and strategies for		,
planning, modeling, and operating the bulk		
power system. We need to ensure the		
existing infrastructure has sufficient flexible		



Comment	From	Response
ramping/ balancing capacity to provide the		
needed operating flexibility to meet the		
changing patterns of variability and new		
characteristics of system performance.		
Traditional concepts of energy adequacy that		
just look at generation fuel and production		
need to evolve to consider transmission		
adequacy and operating flexibility during all		
hours, including consideration of correlated		
outages, transmission availability, and		
common-mode failure dependencies. The		
industry needs a standard that covers both		
the element of energy-constrained resources		
as outlined by Energy Reliability Assessment		
Task Force (ERATF), and transmission		
availability and performance. The load		
responsible entities need to follow the		
standard to insure adequate energy		
production and that this energy is deliverable		
to their load across all hours.		
Large Consumers believe the SAR will	Large End-Use Consumers	Thank you for your comments.
promote the necessary shift in thinking	ELCON – Electricity Consumers Resource	(8) The ERATF will share these
regarding resource adequacy—from a	Council	recommendations with the SDT.
dispatchable capacity-based, peak-load-hour		
analysis to a more detailed analysis that		



Comment	From	Response
takes into account energy reliability, system ramping needs, and other complex interactions between the Bulk Power System (BPS) and interconnected networks, such as the natural gas delivery system.		
Energy reliability assessments should be required to include the appropriate assumptions and scenarios that account for, but not limited to the following:		
<ul> <li>Time-coupled restrictions on the availability of fuel</li> <li>Impact of energy storage and other flexible resources</li> <li>Logistical constraints of the associated fuel delivery supply chains</li> <li>Common mode outages not connected to fuel supply</li> <li>Coincident outages of multiple independent resources</li> <li>Outage duration based on failure modes</li> <li>Variable resources need to be included to account for their unique characteristics</li> </ul>		



Comment	From	Response
In order for NERC requirements to benefit	ISO/RTO Council - IRC	Thank you for your comment.
reliability, energy assessment studies need to		(9) The ERATF appreciates the comments
accurately portray and assess system		raised by the IRC and the importance of
conditions and risks. Generator data, load		navigating issues associated with parallel
data, and distributed generation and storage		regulation and the transforming grid.
data (including that for behind the meter		
generation, Distributed Energy Resources		
(DER) and other DER technologies) will be		
needed that may not be readily available to		
ISOs/RTOs today. As DER levels continue to		
increase, visibility is required into the		
potential challenges that they pose to the		
Bulk Power System (BPS) from a planning		
and forecasting perspective. In addition, risk		
mitigation plans may include obligations on		
asset owners to take actions. The IRC		
recognizes there may be jurisdictional issues		
that must be addressed to resolve these		
problems. We ask that NERC work with		
regulators to provide a mechanism for		
ISO/RTOs to obtain the data and mitigate		
risks that the SAR and end standard(s) would		
require.		