Comment Report

Project Name: 2015-INT-01 Interpretation of CIP-002-5.1 for Energy Sector Security Consortium (EnergySec)

Comment Period Start Date: 7/27/2016
Comment Period End Date: 9/12/2016

Associated Ballots: 2015-INT-01 Interpretation of CIP-002-5.1 for Energy Sector Security Consortium (EnergySec) CIP-002-5.1 IN 1 INT

There were 18 sets of responses, including comments from approximately 18 different people from approximately 18 companies representing 8 of the Industry Segments as shown in the table on the following pages.

Questions

- 1. Do you agree with the response to Question 1? If not, please provide the basis for your disagreement and an alternate proposal.
- 2. Do you agree with the response to Question 2? If not please provide the basis for your disagreement and an alternate proposal.
- 3. Do you agree with the response to Question 3? If not please provide the basis for your disagreement and an alternate proposal.

Organization Name	Name	Segment(s)	Region	Group Name	Group Member Name	Group Member Organization	Group Member Segment(s)	Group Member Region
Duke Energy	Colby Bellville	1,3,5,6	FRCC,RF,SERC	Duke Energy	Doug Hils	Duke Energy	1	RF
					Lee Schuster	Duke Energy	3	FRCC
					Dale Goodwine	Duke Energy	5	SERC
					Greg Cecil	Duke Energy	6	RF
Northeast	Ruida Shu	1,2,3,4,5,6,7,10	NPCC	RSC	Paul Malozewski	Hydro One.	1	NPCC
Power Coordinating Council					Guy Zito	Northeast Power Coordinating Council	NA - Not Applicable	NPCC
					Randy MacDonald	New Brunswick Power	2	NPCC
					Wayne Sipperly	New York Power Authority	4	NPCC
					David Ramkalawan	Ontario Power Generation	4	NPCC
					Glen Smith	Entergy Services	4	NPCC
					Brian Robinson	Utility Services	5	NPCC
					Bruce Metruck	New York Power Authority	6	NPCC
				Alan Adamson	New York State Reliability Council	7	NPCC	
					Edward Bedder	Orange & Rockland Utilities	1	NPCC
					David Burke	UI	3	NPCC
					Michele Tondalo	UI	1	NPCC
					Sylvain Clermont	Hydro Quebec	1	NPCC
					Si Truc Phan	Hydro Quebec	2	NPCC
					Helen Lainis	IESO	2	NPCC
					Laura Mcleod	NB Power	1	NPCC

					Brian Shanahan	National Grid	1	NPCC
					Michael Jones	National Grid	3	NPCC
					Michael Forte	Con Edison	1	NPCC
					Quintin Lee	Eversource Energy	1	NPCC
					Kelly Silver	Con Edison	3	NPCC
					Peter Yost	Con Edison	4	NPCC
					Brian O'Boyle	Con Edison	5	NPCC
					Greg Campoli	NY-ISO	2	NPCC
					Kathleen Goodman	ISO-NE	2	NPCC
					Silvia Parada Mitchell	NextEra Energy, LLC	4	NPCC
					Sean Bodkin	Dominion	4	NPCC
ACES Power Marketing	Warren Cross	1,3,5,6	MRO,RF,SERC,SPP RE,Texas RE,WECC	ACES Standards Collaborators	Brazos Electric Power Cooperative, Inc.	BREC	1,5	Texas RE
					Prairie Power, Inc.	PPI	1,3	SERC
					Arizona Electric Power Cooperative, Inc.	AEPC	1	WECC
					Hoosier Energy Rural Electric Cooperative, Inc.	HE	1	RF
					East Kentucky Power Cooperative	EKPC	1,3	SERC
					Sunflower Electric Power Corporation	SEPC	1	SPP RE
					Great River Energy	GRE	1,3,5,6	MRO

1. Do you agree with the response to Question 1? If not, please provide the basis for your disagreement and an alternate proposal.					
Andrew Gallo - Austin Energy - 6					
Answer	No				
ocument Name					
Comment					
As Austin Energy (AE) understands the que	estion, EnergySec is asking whether the entity must determine:				
1. Whether each discrete BES Cyber Syste 1500 MW; or	m "could, within 15 minutes, adversely impact the reliable operation" of generation units aggregating to ≥				
	2. Whether, collectively, groups of BES Cyber Systems at the generation facility "could, within 15 minutes, adversely impact the reliable operation" of generation units aggregating to ≥ 1500 MW.				
	s the contents of the Background discussion regarding an entity's freedom to group BES Cyber Assets into e question of how to determine if BES Cyber Systems are shared .				
AE believes the drafting team intended to sa	ау:				
CIP-002-5.1 contains no <i>requirement</i> to <i>group</i> BES Cyber Systems. Accordingly, Responsible Entities may determine whether to consider BES Cyber Systems "shared." Consequently, a Compliance Enforcement Authority has no basis for questioning a Responsible Entity's conclusions regarding whether BES Cyber Systems are "shared" with respect to their ability to adversely impact the reliable operation of generation units aggregating to ≥ 1500 MW in a single Interconnection.					
If AE has interpreted the proposed response response to make it clearer.	e correctly, the drafting team should clearly say so. If AE is not correct, the drafting team should rewrite the				
Likes 0					
Dislikes 0					
Response					
Diana McMahon - Salt River Project - 1,3	5,6 - WECC				
Answer	No				
Document Name					
Comment					

SRP does not agree that the answer provided addresses the question. The question is not if an evaluation is to be done to determine if a BES Cyber system is shared. SRP understands the question to be asking whether the criterion should be performed on a discrete BES Cyber System shared by multiple generating units at a single plant location or on a collection of BES Cyber Systems shared by multiple generating units at a single plant location.

Likes 0	
Dislikes 0	
Response	
John Hagen - Pacific Gas and Electric Co	ompany - 3
Answer	No
Document Name	
Comment	
Logical grouping of assets should be at the However, this ambiguity may not be support	discretion of the entity and not a requirement ted at audit
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Power	If of: Chris Bridges, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; Harold Wyble, and Light Co., 3, 6, 5, 1; James McBee, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 7 - Kansas City Power and Light Co., 3, 6, 5, 1; - Douglas Webb
Answer	No
Document Name	
Comment	
We disagree that evaluation of each BES C	vber System needs to be performed individually for each discrete BES Cyber System. The question may be

We disagree that evaluation of each BES Cyber System needs to be performed individually for each discrete BES Cyber System. The question may be addressed by simply looking at the elements that comprise Criterion 2.1.

The Elements of Criterion 2.1 are:

Generation

- Commissioned generation
- A group [which we interpret as 1 or more] generating units
- The generating units are at a single plant location
- The generating units aggregate highest rated net Real Power capability of the preceding 12 calendar months equal to or exceed 1500 MW
- The 1500MW threshold is at a single Interconnection.

Relationship Between the Generation and the BES Cyber Systems

The generating units share a BES Cyber System

The BES Cyber System

- The BES Cyber System can cause an adverse impact to the reliable operation of any combination of the generating units
- The adverse impact is within 15 minutes
- The aggregate adverse impact equals or exceeds 1500 MW
- The 1500MW adverse impact occurs at a single Interconnection.

In consideration of the criteria, if a single element is false / untrue, the BES Cyber System does not meet the threshold of a Medium Impact Risk. While we think that is straight forward, there is some nuance associated with the evaluation of a BES Cyber System, which is likely the genesis of the question.

The evaluation of a BES Cyber System.

The question asked for clarification of the term BES Cyber Systems, wanting to know if it means each individual and discrete BES Cyber System at a single plant location or collectively for groups of BES Cyber Systems.

We think clarification is found in Criterion 2.1 elements. For example, if there is a group of BES Cyber Systems and evaluation of the individual components determine the Criterion 2.1 thresholds are not met. At that point, it would be easy to say they are not a Medium Impact Risk. However, Criterion 2.1 language, paraphrased, is BES Cyber Systems that *could* adversely impact reliable operation of the generation units.

We feel the "could" qualifier brings into scope the relationship between and reliance upon the individual components of the group of BES Cyber Systems.

In other words:

If there is a failure in the interaction between two of the multiple BES Cyber Systems.

AND

The failure between the BES Cyber Systems "...within 15 minutes, adversely impact the reliable operation of any combination of units that in aggregate equal or exceed 1500 MW in a single Interconnection,"

AND

All other elements of Criterion 2.1 are met.

THEN

The threshold is pierced and the Medium Impact Risk is assigned.

It is Not Necessary to Evaluate Each Individual BES Cyber System

Based on the example, it may not be necessary to evaluate each individual BES Cyber System if the Criterion 2.1 threshold is breached on the potential failure of the interaction between two BES Cyber Systems.

We recognize the Criterion is specific to BES Cyber Systems and not the interaction between systems, but the "could" qualifier brings those interactions into scope of the evaluation regardless whether the individual BES Cyber System, alone, can cause the requisite adversity to reliability.

Resolution is Found in the Standard Revision Process

	lous and uncertain language requires revision of Criterion 2.1 and the underlying Standard. The material not be gained through the interpretation process.
Jointly-Owned Units Not Considered in S	Standard
	y owned units (JOU) with BES Cyber Systems that communicate between entities and also meet Criterion esponsibilities, it is common with JOU a level of parallel systems that, individually, "could" pierce the adverse
Likes 0	
Dislikes 0	
Response	
Sandra Shaffer - Berkshire Hathaway - Pa	acifiCorp - 6
Answer	No
Document Name	
Comment	
approach the SDT took, PacifiCorp believes	submitted by Edison Electric Institute. Also, while PacifiCorp understands the justification provided for the that the approach adds an increased compliance burden without added benefit to the security of BES, or d for a list of BES Cyber Assets at Low Impact BES Assets.
Dislikes 0	
Response	
Patrick Farrell - Edison International - So	uthern California Edison Company - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
grouped. Furthermore, SCE agrees that the	is shared between multiple generators needs to be evaluated individually, as opposed to being collectively re is no obligation to group BES Cyber Systems. Each entity is given the choice of granularity in grouping s, but is not required to group BES Cyber Systems.
Likes 0	

Dislikes 0	
Response	
Jaclyn Massey - Entergy - Entergy Servi	ices, Inc 5
Answer	Yes
Document Name	
Comment	
No additional comment	
Likes 0	
Dislikes 0	
Response	
Warren Cross - ACES Power Marketing	- 1,3,5,6 - MRO,WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
	ef that NERC and the regions continue to focus on the Registered Entity's ability to self-determine BES Cyber We support the direction to the guidance in the background section of CIP-002-5.1 that states:
"it is left up to the Responsible Entity to det definition of BES Cyber System".	termine the level of granularity at which to identify a BES Cyber System within the qualifications in the
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ing Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC
Ruida Shu - Northeast Power Coordinati	ing Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC Yes
Answer	

Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	system Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity,	inc 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andrea Jessup - Bonneville Power Admi	nistration - 1,3,5,6 - WECC

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joe Tarantino - Sacramento Municipal U	tility District - 1,3,4,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bob Reynolds - Southwest Power Pool R	Regional Entity - 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Wesley Maurer - Lower Colorado River A	outhority - 1,5,6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Erika Doot - U.S. Bureau of Reclamation	- 5
Answer	
Document Name	
Comment	
Reclamation believes that examples would	be helpful for understanding the scope of EnergySec's request and the NERC response.
Likes 0	
Dislikes 0	
Response	

2. Do you agree with the response to Qu	estion 2? If not please provide the basis for your disagreement and an alternate proposal.
Sandra Shaffer - Berkshire Hathaway - P	PacifiCorp - 6
Answer	No
Document Name	
Comment	
Initial ballot for CIP-003-7 Implement	ration Plan
Vote: No	
vote is a substantial rewrite of the requirem standard is approved by FERC, meaning the alignment with the current FERC approved	submitted by Edison Electric Institute. Also, the language in the definitions and CIP-003-7 currently out for tents as approved by FERC. PacifiCorp cannot afford to wait to begin implementation until a revised nat any approved version that does not allow PacifiCorp to leverage work efforts already completed in standard would lead to duplicative effort and costs. Any attempt to compress the overall timeline for impact to the reliability of the bulk electric system
Likes 0	
Dislikes 0	
Response	
Great Plains Energy - Kansas City Powe	alf of: Chris Bridges, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; Harold Wyble, or and Light Co., 3, 6, 5, 1; James McBee, Great Plains Energy - Kansas City Power and Light Co., 3, 6, y - Kansas City Power and Light Co., 3, 6, 5, 1; - Douglas Webb
Answer	No
Document Name	
Comment	
We incorporate our response to Question N	No. 1.
The object of "those," like at, "are those s generating units. Substituting "generating u	shared" may seem ambiguous, but the plain reading of the sentence in context illustrates "those" refers to inits" for "those," the sentence reads:
"For each group of generating units, the on within 15 minutes"	ly BES Cyber Systems that meet this criterion are generating units shared BES Cyber Systems that could,
response to Question 1, we believe the pat	tation—that all the generating units share the discrete BES Cyber Systems. However, as discussed in our h to clarifying the ambiguous and uncertain language requires revision of Criterion 2.1 and the underlying o resolve the issues cannot be gained through the interpretation process.
Likes 0	
Dislikes 0	

Response	
Warren Cross - ACES Power Marketing -	- 1,3,5,6 - MRO,WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
No comments.	
Likes 0	
Dislikes 0	
Response	
Jaclyn Massey - Entergy - Entergy Servi	ces, Inc 5
Answer	Yes
Document Name	
Comment	
No additional comment.	
Likes 0	
Dislikes 0	
Response	
John Hagen - Pacific Gas and Electric Co	ompany - 3
Answer	Yes
Document Name	
Comment	
However, this does not resolve the question	n of what is "discreet"
Likes 0	
Dislikes 0	
Response	
I and the second	

Patrick Farrell - Edison International - So	outhern California Edison Company - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
SCE agrees that the phrase "shared BES C facility. SCE notes that this term was clarified	Cyber Systems" applies to discrete BES Cyber Systems ahred by mutliple generators within a generation ed in the NERC Frequently Asked Questions (FAC) No. 49.
Likes 0	
Dislikes 0	
Response	
Wesley Maurer - Lower Colorado River A	Authority - 1,5,6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinati	ng Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	

Comment	
Likes 0	
Dislikes 0	
Response	
Bob Reynolds - Southwest Power Pool R	Regional Entity - 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Joe Tarantino - Sacramento Municipal Ut	tility District - 1,3,4,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andrea Jessup - Bonneville Power Administration - 1,3,5,6 - WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	

Rachel Coyne - Texas Reliability Entity, Inc 10	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Diana McMahon - Salt River Project - 1,3,5,6 - WECC	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity System Operator - 2	
Answer	Yes
Document Name	
Comment	

Likes 0	
Dislikes 0	
Response	
Andrew Gallo - Austin Energy - 6	
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Erika Doot - U.S. Bureau of Reclamation	- 5
Erika Doot - U.S. Bureau of Reclamation Answer	- 5
	- 5
Answer	- 5
Answer Document Name Comment	be helpful for understanding the scope of EnergySec's request and the NERC response.
Answer Document Name Comment	
Answer Document Name Comment Reclamation believes that examples would	
Answer Document Name Comment Reclamation believes that examples would Likes 0	

3. Do you agree with the response to Question 3? If not please provide the basis for your disagreement and an alternate proposal.	
Andrew Gallo - Austin Energy - 6	
Answer	No
Document Name	
Comment	
In response to Question #2, the drafting teamultiple generation units." (emphasis added	am determined, "The phrase 'shared BES Cyber Systems' refers to discrete BES Cyber Systemsshared by
Accordingly, Question #3 seeks guidance regarding how to determine if BES Cyber Systems are "shared" by generation units so as to fall into Criterion 2.1. The proposed response does not do so. Again, AE <i>believes</i> the drafting team intended to say:	
CIP-002-5.1 contains no guidance regarding how to <i>group</i> BES Cyber Systems to determine their impact on generation units aggregating ≥ 1500 MW. Accordingly, Responsible Entities have discretion regarding whether or how to "group" BES Cyber Systems. Consequently, a Compliance Enforcement Authority has no basis for questioning a Responsible Entity's conclusions regarding whether or how to group BES Cyber Systems with respect to their ability to adversely impact the reliable operation of generation units aggregating to ≥ 1500 MW in a single Interconnection.	
If AE has interpreted the proposed response correctly, the drafting team should clearly make that statement. If AE is not correct, the drafting team should rewrite the response to make it clearer.	
Likes 0	
Dislikes 0	
Response	
John Hagen - Pacific Gas and Electric Company - 3	
Answer	No
Document Name	
Comment	
What is the defintition of "discreet"? What attributes make a system discreet?	
Likes 0	
Dislikes 0	
Response	
Douglas Webb - Douglas Webb On Behalf of: Chris Bridges, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; Harold Wyble, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; James McBee, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; Jessica Tucker, Great Plains Energy - Kansas City Power and Light Co., 3, 6, 5, 1; - Douglas Webb	
Answer	No

Document Name	
Comment	
We incorporate our response to Question N	lo. 1 and its proposed path forward.
Likes 0	
Dislikes 0	
Response	
Sandra Shaffer - Berkshire Hathaway - P	acifiCorp - 6
Answer	No
Document Name	
Comment	
Vote: No Comments: PacifiCorp supports comments approach the SDT took, PacifiCorp believes	submitted by Edison Electric Institute. Also, while PacifiCorp understands the justification provided for the sthat the approach adds an increased compliance burden without added benefit to the security of BES, or d for a list of BES Cyber Assets at Low Impact BES Assets
Likes 0	
Dislikes 0	
Response	
Patrick Farrell - Edison International - So	outhern California Edison Company - 1,3,5,6 - WECC
Answer	Yes
Document Name	
Comment	
SCE agrees that the phrase applies to each	n discrete BES Cyber System, rather than collectively to groups of BES Cyber Systems.
Likes 0	
Dislikes 0	
Response	
Jaclyn Massey - Entergy - Entergy Servi	ces, Inc 5

Answer	Yes
Document Name	
Comment	
No additional comment.	
Likes 0	
Dislikes 0	
Response	
Warren Cross - ACES Power Marketing -	1,3,5,6 - MRO,WECC,Texas RE,SERC,SPP RE,RF, Group Name ACES Standards Collaborators
Answer	Yes
Document Name	
Comment	
ACES supports that the phrase applies to each discrete BES Cyber Systems. While we understand the RFI was limited to "shared," we would like the interpretation team to consider issuing guidance on jointly-owned BES Cyber Systems regarding where and how responsibility, compliance and auditability applies to each owner.	
Likes 0	
Dislikes 0	
Response	
Leonard Kula - Independent Electricity S	ystem Operator - 2
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Diana McMahon - Salt River Project - 1,3	,5,6 - WECC

Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Michelle Amarantos - APS - Arizona Pub	lic Service Co 1
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Rachel Coyne - Texas Reliability Entity,	lnc 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Andrea Jessup - Bonneville Power Admi	
Answer	Yes
Document Name	
Comment	
Likes 0	

Dislikes 0	
Response	
Joe Tarantino - Sacramento Municipal U	tility District - 1,3,4,5,6 - WECC
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Bob Reynolds - Southwest Power Pool F	Regional Entity - 10
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Colby Bellville - Duke Energy - 1,3,5,6 - F	RCC,SERC,RF, Group Name Duke Energy
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Ruida Shu - Northeast Power Coordinating Council - 1,2,3,4,5,6,7,10 - NPCC, Group Name RSC	
Answer	Yes

Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Wesley Maurer - Lower Colorado River A	outhority - 1,5,6
Answer	Yes
Document Name	
Comment	
Likes 0	
Dislikes 0	
Response	
Erika Doot - U.S. Bureau of Reclamation	- 5
Answer	
Document Name	
Comment	
Reclamation believes that examples would be helpful for understanding the scope of EnergySec's request and the NERC response.	
Likes 0	
Dislikes 0	
Response	