Review of EOP-005-2—System Restoration from Blackstart Resources (Deferred/Filing 2)

http://www.nerc.com/files/EOP-005-2.pdf

VRFs for Requirements R2, R5, R10, R11, and R17:

Standard, Requirement	Requirement Language	VRF Assignment	Original Guideline Explanation (<u>from P.</u> 28 of December 31, 2009 EOP filing)	Comments
EOP-005-2, R2	Each Transmission Operator shall provide the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan.	Medium	A lower VRF was assigned to Requirements R2 and R5 which were seen as mainly administrative in nature.	Citing a Guideline 4 concern, FERC is concerned that this requirement is more than purely administrative and might be better assigned a Medium VRF. Requirement R2 might appear administrative at first glance, but providing entities with a description of changes to the restoration plan is about more than the handover of a piece of paper; it's about alerting entities to changes in the actions they might be required to take. If an entity was not alerted to a change in its responsibilities and did not take appropriate action during restoration, that could

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				directly affect the electrical state or the capability of the bulk electric system, or the ability to effectively monitor and control the bulk electric system. Thus, the VRF remains
				appropriately raised to Medium.
EOP-005-2, R5	Each Transmission Operator shall have a copy of its latest Reliability Coordinator approved restoration plan within its primary and backup control rooms so that it is available to all of its System Operators prior to its implementation date.	Lower	A lower VRF was assigned to Requirements R2 and R5 which were seen as mainly administrative in nature.	Citing a Guideline 4 concern, FERC is concerned that this requirement is more than purely administrative and might be better assigned a Medium VRF. Upon further review of all EOP VRF assignments, NERC has determined that the VRF should remain Lower, as originally proposed by the drafting team. Unlike EOP-005-2 R2, this requirement is simply about the possession of a document and is administrative. A Transmission Operator's ability to implement its plan is covered in R7 and thus is separate from the administrative requirement of having a copy of the

				plan.
EOP-005-2, R10	Each Transmission Operator	Medium	A medium VRF was	Citing a Guideline 1
	shall include within its		assigned to those	concern, FERC suggested
	operations training		requirements dealing	changing the VRF to a High
	program, annual System		with the	assignment.
	restoration training for its		'infrastructure'	
	System Operators to assure		required to support	NERC staff continues to
	the proper execution of its		those requirements	support the drafting team's
	restoration plan. This		that received a high	Medium VRF assignment.
	training program shall		VRF. These items,	Failure to provide training,
	include training on the		while certainly	while important, would not
	following:		important in their own	directly lead to instability,
			right, were not seen as	etc. NERC staff believes the
	R10.1. System restoration		directly leading to BPS	VRF assignment should
	plan including coordination		instability. Therefore, a	remain a Medium.
	with the Reliability		medium VRF was	
	Coordinator and Generator		assigned to	
	Operators included in the		Requirements R3, R4,	
	restoration plan.		R6, R9, R10, R11, R12,	
			R13, R14, R15,	
	R10.2. Restoration		R16, R17 and R18.	
	priorities.			
	R10.3. Building of cranking			
	paths.			
	R10.4. Synchronizing (re-			
	energized sections of the			
	System).			
EOP-005-2, R11	Each Transmission	Medium	A medium VRF was	Citing a Guideline 1
	Operator, each applicable		assigned to those	concern, FERC suggested
	Transmission Owner, and		requirements dealing	changing the VRF to a High
	each applicable Distribution		with the	assignment.
	Provider shall provide a		'infrastructure'	

	minimum of two hours of System restoration training every two calendar years to their field switching personnel identified as performing unique tasks associated with the Transmission Operator's restoration plan that are outside of their normal tasks.		required to support those requirements that received a high VRF. These items, while certainly important in their own right, were not seen as directly leading to BPS instability. Therefore, a medium VRF was assigned to Requirements R3, R4, R6, R9, R10, R11, R12, R13, R14, R15, R16, R17 and R18.	NERC staff continues to support the drafting team's Medium VRF assignment. Failure to provide training, while important, would not directly lead to instability, etc. NERC staff believes the VRF assignment should remain a Medium.
EOP-005-2, R17	Each Generator Operator with a Blackstart Resource shall provide a minimum of two hours of training every two calendar years to each of its operating personnel responsible for the startup of its Blackstart Resource generation units and energizing a bus. The training program shall include training on the following: R17.1. System restoration plan including coordination with the Transmission Operator.	Medium	A medium VRF was assigned to those requirements dealing with the 'infrastructure' required to support those requirements that received a high VRF. These items, while certainly important in their own right, were not seen as directly leading to BPS instability. Therefore, a medium VRF was assigned to Requirements R3, R4, R6, R9, R10, R11, R12, R13, R14, R15,	Citing a Guideline 1 concern, FERC suggested changing the VRF to a High assignment. NERC staff continues to support the drafting team's Medium VRF assignment. Failure to provide training, while important, would not directly lead to instability, etc. NERC staff believes the VRF assignment should remain a Medium.

R17.2. The procedures	R16, R17 and R18.
documented in	
Requirement R14.	

VSLs for Requirement R2:

Standard, Requirement	Requirement Language	Lower	Moderate	High	Severe	Comments
EOP-005-2, R2	Each Transmission Operator shall provide the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan.	The Transmission Operator failed to provide one of the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan. OR The Transmission Operator provided the information to all entities but was	The Transmission Operator failed to provide two of the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan. OR The Transmission Operator provided the information to all entities but was	The Transmission Operator failed to provide three of the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan. OR The Transmission Operator provided the information to all	The Transmission Operator failed to provide four or more of the entities identified in its approved restoration plan with a description of any changes to their roles and specific tasks prior to the implementation date of the plan. OR The Transmission Operator provided the information to all	Citing a Guideline 1 violation, FERC expressed concern that starting the Lower VSL at 30 days late was inappropriate and too large a time frame to begin with. NERC staff reviewed the VSL language. Because neither the requirements nor the measures reference a specific time frame or acceptable delay,
		up to 10 calendar days late in doing	more than 10 and less than or equal to 20 calendar	entities but was more than 20 and less than or equal	entities but was more than 30 calendar days late	NERC staff agrees that the 30-day starting point was

SO.	days late in doing	to 30 calendar	in doing so.	not appropriate
	so.	days late in doing		and modified the
		so.		VSLs accordingly.

Original Guideline Explanation for R2 VSLs in December 1, 2010 VSL Filing 2:

In accordance with Guideline 2, the VSLs were modified from the previously filed version of this standard.

- Guideline 1: P. 878-890 of Guideline 1 Analysis in March 5, 2012 VSL Filing 1
- Guideline 2: In accordance with Guideline 2, the VSL assignments were modified to increase by ten-day increments for consistency with other VSLs. Additionally, NERC has reviewed the VSL text and has determined that, as written, the VSL text is clear, specific and objective and does not contain general, relative or subjective language satisfying Guideline 2b. Therefore, the text is not subject to the possibility of multiple interpretations of the VSL(s) and provides the clarity needed to permit the consistent and objective application of the VSL(s) in the determination of penalties by the Compliance Enforcement Authority.
- Guideline 3: NERC compared the existing VSLs to the stated requirement language to ensure the VSLs do not redefine or undermine the reliability goal of the requirement. In accordance with Guideline 3, the VSL assignments are consistent with the requirement and the degree of compliance can be determined objectively and with certainty.
- Guideline 4: The VSL assignments comply with Guideline 4, because they are based on a single violation of a Reliability Standard and are not based on a cumulative number of violations of the same requirement over a period of time.

VSLs for Requirement R16:

Standard,	Requirement	Lower	Moderate	High	Severe	Comments
Requirement	Language					
EOP-005-2, R16	Each Generator	The GOP with a	The GOP with a	The GOP with a	The Generator	Citing a Guideline
	Operator with a	Blackstart	Blackstart	Blackstart	Operator with a	3 violation, FERC
	Blackstart	Resource	Resource	Resource	Blackstart	said that R16's
	Resource shall	performed tests	performed tests	performed tests	Resource did not	subrequirements
	perform	and maintained	and maintained	but either did not	perform	(R16.1 and R16.2)

Blacks	tart record	ds but the	records but did	maintain records	Blackstart	were not
			not supply the	or did not supply	Resource tests.	appropriately
	<u>-</u>		Blackstart	the Blackstart		addressed in the
record	ls of such items	in R16.1.	Resource testing	Resource testing		VSLs.
testing	g, in		records as	records as		
accord	lance with OR		requested for 61	requested within		NERC staff agreed
the tes	sting		days to 90	91 or more		with these
require	ements set The G	enerator	calendar days	calendar days		concerns, and also
by the	Opera	ntor did not	after the request.	after the request.		noted that the
Transn	nission supply	y the				VSLs included
Opera:	tor to verify Blacks	start				some sentence
that th	ne Blackstart Resou	rce testing				fragments and
Resou	rce can record	ds as				interval issues. It
perfor	m as reque	sted for 31				has attempted to
specifi	ed in the to 60	calendar				correct all of
restora	ation plan. days o	of the				these issues in the
	reque	st.				redline VSLs.
R16.1.	Testing					
record						
include	e at a					
minim	um: name					
	Blackstart					
	rce, unit					
	, date of the					
	uration of					
	st, time					
1	ed to start					
the un						
	tion of any					
testing	•					
1	ements not					
met ur						
Requir	rement R9.					

R16.2. Each			
Generator			
Operator shall			
provide the			
blackstart test			
results within 30			
calendar days			
following a			
request from its			
Reliability			
Coordinator or			
Transmission			
Operator.			

Original Guideline Explanation for R16 VSLs in December 1, 2010 VSL Filing 2:

In accordance with Guideline 2, the VSLs from the previously filed version 2 of this standard were modified for clarity and consistency with other standards and VSLs and carry over for this standard.

- Guideline 1: P. 878-890 of Guideline 1 Analysis in March 5, 2012 VSL Filing 1
- Guideline 2: The VSLs were modified for clarity and consistency with other standards and VSLs. Additionally, NERC has reviewed the VSL text and has determined that, as written, the VSL text is clear, specific and objective and does not contain general, relative or subjective language satisfying Guideline 2b. Therefore, the text is not subject to the possibility of multiple interpretations of the VSL(s) and provides the clarity needed to permit the consistent and objective application of the VSL(s) in the determination of penalties by the Compliance Enforcement Authority.
- Guideline 3: NERC compared the existing VSLs to the stated requirement language to ensure the VSLs do not redefine or undermine the reliability goal of the requirement. In accordance with Guideline 3, the VSL assignments are consistent with the requirement and the degree of compliance can be determined objectively and with certainty.
- Guideline 4: The VSL assignments comply with Guideline 4, because they are based on a single violation of a Reliability Standard and are not based on a cumulative number of violations of the same requirement over a period of time.