## Review of BAL-003-0.1b—Frequency Response and Bias (Filing 2)

http://www.nerc.com/files/BAL-003-0 1b.pdf

## **VSL for Requirement R2:**

Standard,	Requirement	Lower	Moderate	High	Severe	Notes
Requirement	Language					
BAL-003-	Each Balancing	N/AThe	The Balancing	N/A	The	FERC characterized this as a Guideline 1
0.1b, R2	Authority shall	Balancing	Authority's		Balancing	issue, stating that failure to calculate
	establish and	Authority's	determination		Authority	frequency bias should be at least a
	maintain a	determination	of the fixed		did not	moderate VSL.
	Frequency	of the fixed	<u>Frequency</u>		establish	
	Bias Setting	<del>Frequency</del>	Bias value was		and	NERC staff agrees that, in this case, failure
	that is as close	Bias value was	not based on		maintain a	to calculate frequency bias should be at
	as practical to,	not based on	observations		Frequency	least a moderate VSL and proposes that
	or greater	<del>observations</del>	and averaging		Bias Setting	the lower VSLs be moved to moderate.
	than, the	and averaging	the Frequency		that was as	
	Balancing	the Frequency	Response from		close as	
	Authority's	Response from	<u>Disturbances</u>		practical to,	
	Frequency	Disturbances	during on-		or greater	
	Response.	during on-	peak hours.		than, the	
	Frequency	<del>peak hours.</del>			Balancing	
	Bias may be		OR		Authority's	
	calculated	OR			Frequency	
	several ways:		The Balancing		Response.	
		The Balancing	<u>Authority's</u>			
	<b>R2.1.</b> The	Authority's	<u>variable</u>			
	Balancing	<del>variable</del>	frequency bias			
	Authority may	frequency bias	<u>maintained</u>			
	use a fixed	maintained	was not based			
	Frequency	was not based	on an analysis			
	Bias value	<del>on an analysis</del>	of Frequency			
	which is based	<del>of Frequency</del>	Response as it			

on a fixed,	Response as it	varied with		
straight-lin		factors such as		
function of		load,		
Line deviat		generation,		
versus	generation,	governor		
Frequency	governor	characteristics,		
Deviation.	_	and frequency.		
Balancing	and frequency.	N/A		
Authority s	hall			
determine				
fixed value	by			
observing a	•			
averaging t				
Frequency				
Response f				
several				
Disturbanc	es			
during on-				
peak hours	i.			
<b>R2.2.</b> The				
Balancing				
Authority n	nay			
use a varia	ble			
(linear or n	on-			
linear) bias				
value, whic				
based on a				
variable				
function of	Tie			
Line deviat	ion			
to Frequen				
Deviation.	The			
Balancing				

Authority shall			
determine the			
variable			
frequency bias			
value by			
analyzing			
Frequency			
Response as it			
varies with			
factors such as			
load,			
generation,			
governor			
characteristics,			
and frequency.			

## Original Guideline Explanation for R2 VSLs in <a href="December 1">December 1</a>, <a href="2010 VSL Filing 2">2010 VSL Filing 2</a>:

The VSLs were modified to be consistent with Guideline 3. Consistent with Guidelines filed with FERC on August 10, 2009, NERC incorporated the subrequirements into the main requirement VSL so that compliance is based on meeting criteria specified in components.

- Guideline 1: P. 854-855 of Guideline 1 Analysis in March 5, 2012 VSL Filing 1
- Guideline 2: The VSLs comply with Guideline 2. The requirement has gradated VSLs; therefore, Guideline 2a is not applicable. The gradated VSLs ensure uniformity and consistency among all approved Reliability Standards in the determination of penalties. 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. The text is not subject to the possibility of multiple interpretations of the VSLs and provides the clarity needed to permit the consistent and objective application of the VSLs in the determination of penalties by the Compliance Enforcement Authority. Therefore, no changes to the VSLs were necessary for consistency with FERC Guideline 2.
- Guideline 3: NERC Staff compared the revised VSLs to the stated requirement language to ensure the VSLs do not redefine or undermine the requirement's reliability goal. The original VSLs did not address the case in which an entity did not establish a Frequency Bias setting.

The VSLs were modified to be consistent with 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.