

## Examples of Weighted Segment Voting Calculation for Balloting NERC's Reliability Standards

(Assumptions on numbers of entities are purely hypothetical and used only for illustrative purposes.)

### ***Ballot Body and Pools***

Segment	Registered Ballot Body	Ballot Pools	
		Standard #1	Standard #2
1. Transmission Owners	300	250	100
2. RTOs and ISOs	10	10	8
3. LSEs	200	100	50
4. TDUs	100	75	50
5. Electric Generators	25	20	25
6. Brokers, Aggregators, and Marketers	10	10	10
7. Large End-Use Customers	5	1	4
8. Small End-Use Customers	25	10	5
9. Regulators or Other Government Entities	50	10	15
10. RROs and REs	10	10	8
<b>Totals</b>	<b>735</b>	<b>496</b>	<b>279</b>

**Example 1** — Weighted segment vote is greater than two thirds AND more than 75% of the ballot pool returned a ballot. Standard is approved.

Segment	Ballot Pool	Votes				Abstain	No Ballot
		Affirmative		Negative			
		# Votes	Fraction	# Votes	Fraction	# Votes	
1	250	200	0.833	40	0.167	10	0
2	10	8	0.800	2	0.200	0	0
3	100	60	0.632	35	0.368	5	0
4	75	50	0.714	20	0.286	0	5
5	20	7	0.412	10	0.588	2	1
6	10	6	0.600	4	0.400	0	0
7	1	0		0		1	0
8	10	0		0		0	10
9	10	8	0.800	2	0.200	0	0
10	10	7	0.700	3	0.300	0	0
<b>Totals</b>	<b>496</b>	<b>346</b>	<b>5.491</b>	<b>116</b>	<b>2.509</b>	<b>18</b>	<b>16</b>
<b>Ballots</b>	<b>480</b>	<b>96.8%</b>					
<b>Wtd Vote</b>			<b>0.686</b>		<b>0.314</b>		

No "Affirmative" or "Negative" votes cast, so Segments 7 and 8 not counted in total weighting.

**Percent ballots returned:**  
= (480/496) x 100  
= 96.8%

**Weighted segment vote**  
= (Total Fraction) / (Segments Counted)  
= 5.491 / 8  
= .677

**Example 2** — Weighted segment vote is greater than two thirds BUT less than 75% of the ballot pool returned a ballot. Standard is NOT approved due to lack of a quorum.

Segment	Ballot Pool	Votes				Abstain	No Ballot
		Affirmative		Negative			
		# Votes	Fraction	# Votes	Fraction	# Votes	
1	100	25	1.000	0	0.000	0	75
2	8	6	.8*0.750	2	.8*0.250	0	0
3	50	30	0.600	20	0.400	0	0
4	50	25	0.833	5	0.167	0	20
5	25	18	0.783	5	0.217	2	0
6	10	6	0.600	4	0.400	0	0
7	4	4	.4*1.000	0	.4*0.000	0	0
8	5	5	.5*1.000	0	.5*0.000	0	0
9	15	7	.7*1.000	0	.7*0.000	5	3
10	8	8	.8*1.000	0	.8*0.000	0	0
<b>Total</b>	<b>275</b>	<b>134</b>	<b>6.816</b>	<b>36</b>	<b>1.384</b>	<b>7</b>	<b>98</b>
<b>Ballots</b>	<b>177</b>	<b>64.36%</b>					
<b>Wtd Vote</b>			<b>0.831</b>		<b>0.169</b>		

Segments with less than 10 votes (affirmative or negative) are discounted such that each vote counts 0.1 of the segment weight.

**6.816/8.2 = .802 or 82.2 % approval**  
Denominator is reduced because:

- Segment 2 counts .8
- Segment 7 counts 0.4
- Segment 8 counts 0.5
- Segment 9 counts 0.7
- Segment 10 counts .8