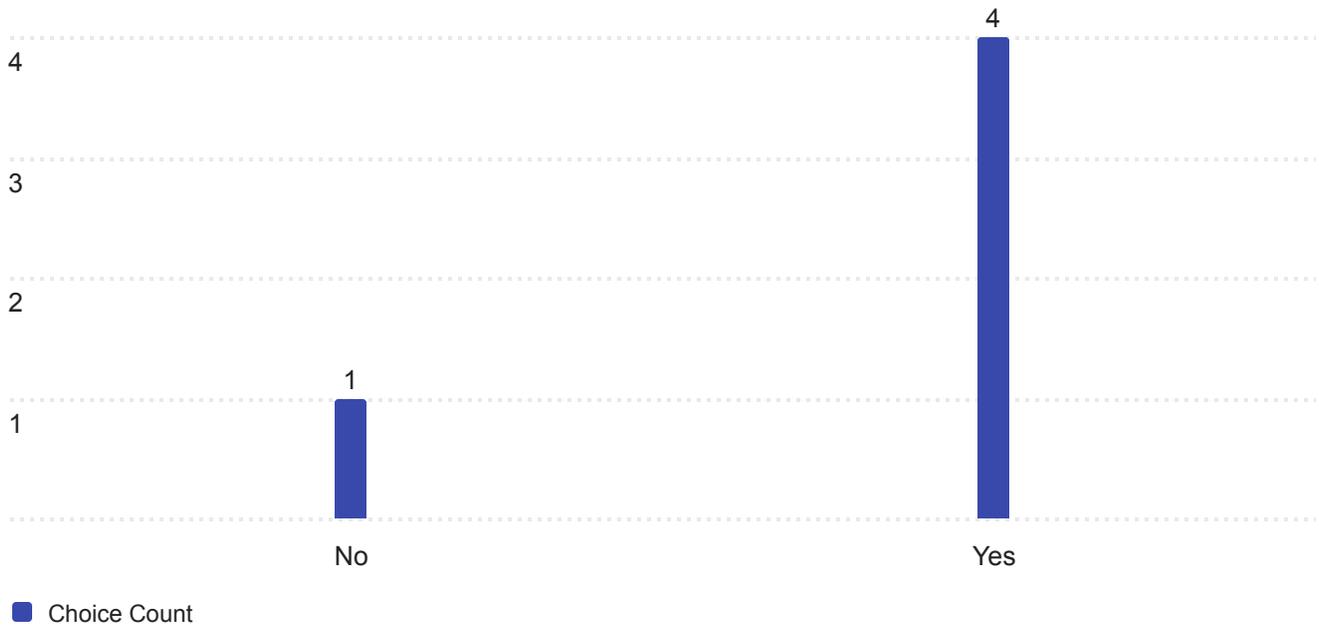




## Reclosing YN - Is reclosing applied after a fault?

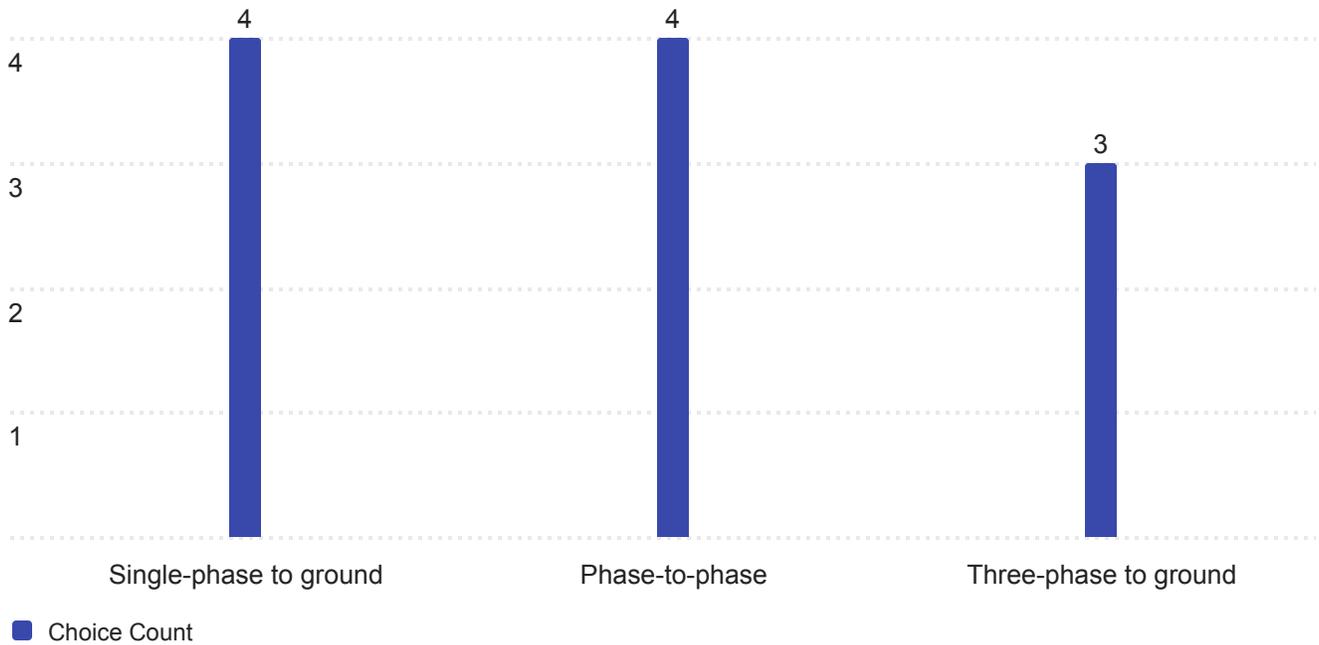
5 Responses



Field	Choice Count
Yes	4
No	1

### Reclosing Phase - Is reclosing applied after single-phase to ground, phase-to-phase or three-phase to ground fault? [Select all that applies]

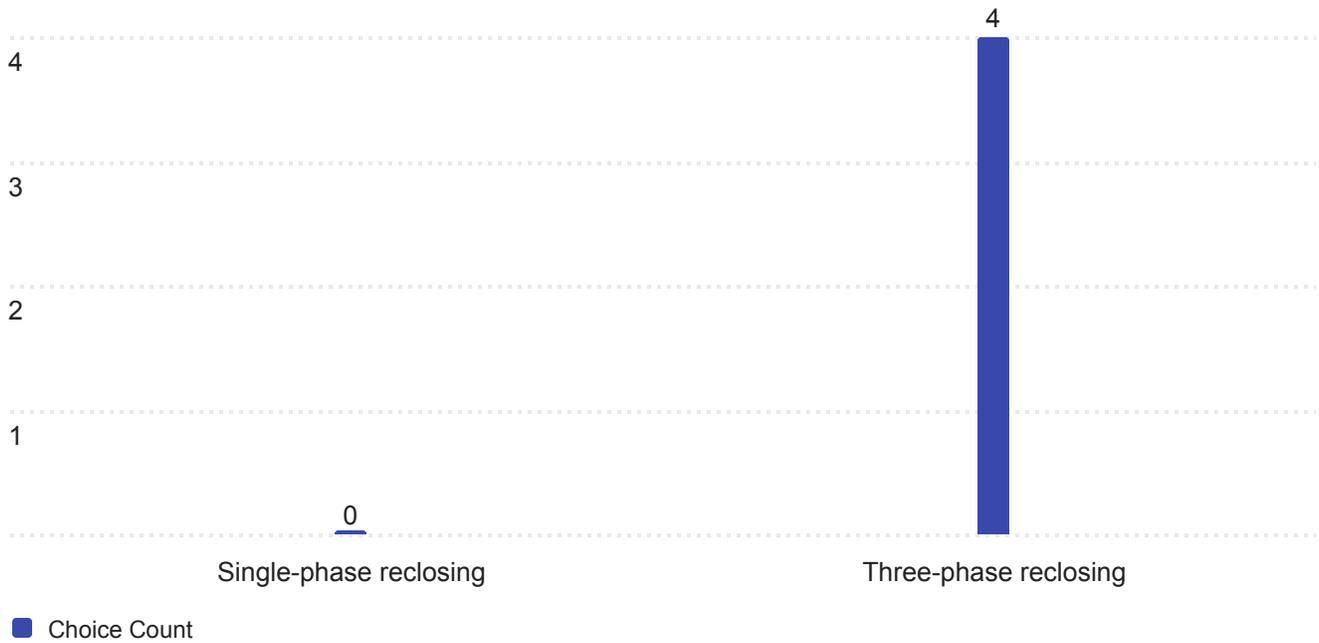
4 Responses



Field	Choice Count
Single-phase to ground	4
Phase-to-phase	4
Three-phase to ground	3

### Phase Type - Is single-phase or three-phase reclosing applied?

4 Responses



Field	Choice Count
Three-phase reclosing	4
Single-phase reclosing	0

## Reclosing Interval\_1 - [cycles]

[cycles]

300

60

20

25

## Reclosing Shots\_1 - 345kV

345kV

138kV

69kV

1

1

1

1, potentially more for sectionalizing

1, potentially more for sectionalizing

1, potentially more for sectionalizing

NA

1

NA

N/A

N/A

N/A

1

1

2

## Reclosing Time\_1 - 345kV

345kV

138kV

69kV

300

300

300

60

60

60

NA

20

NA

N/A

N/A

N/A

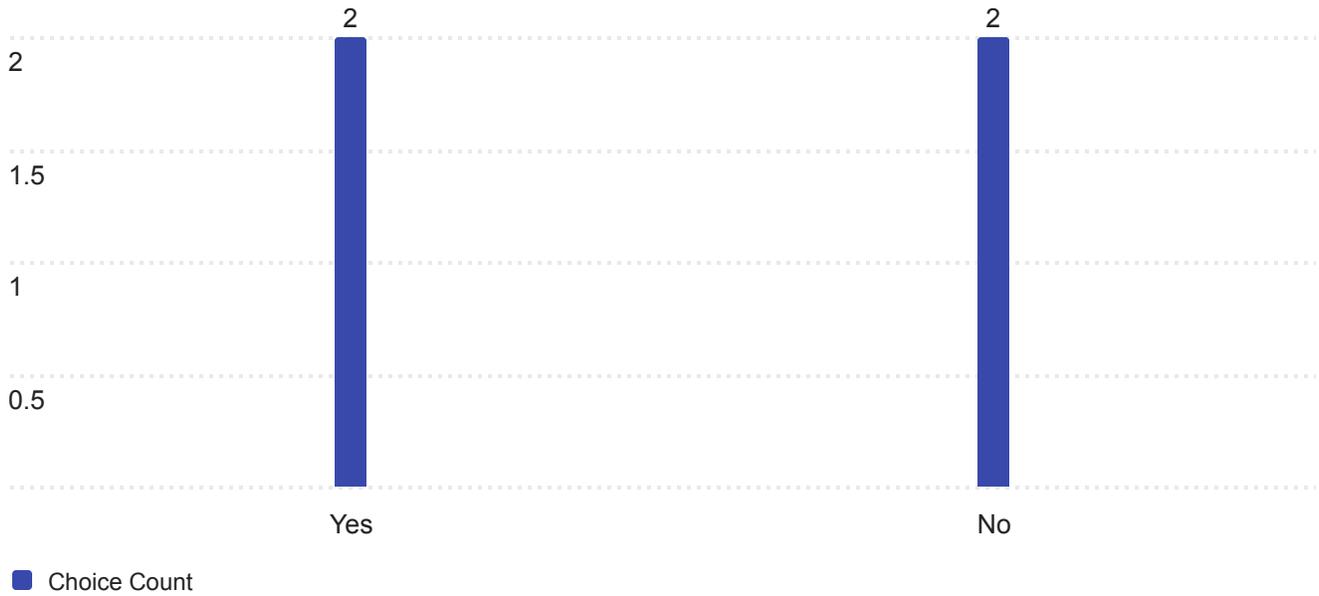
25

25

60

### Voltage Supervision - Is voltage supervision applied in reclosing?

4 Responses

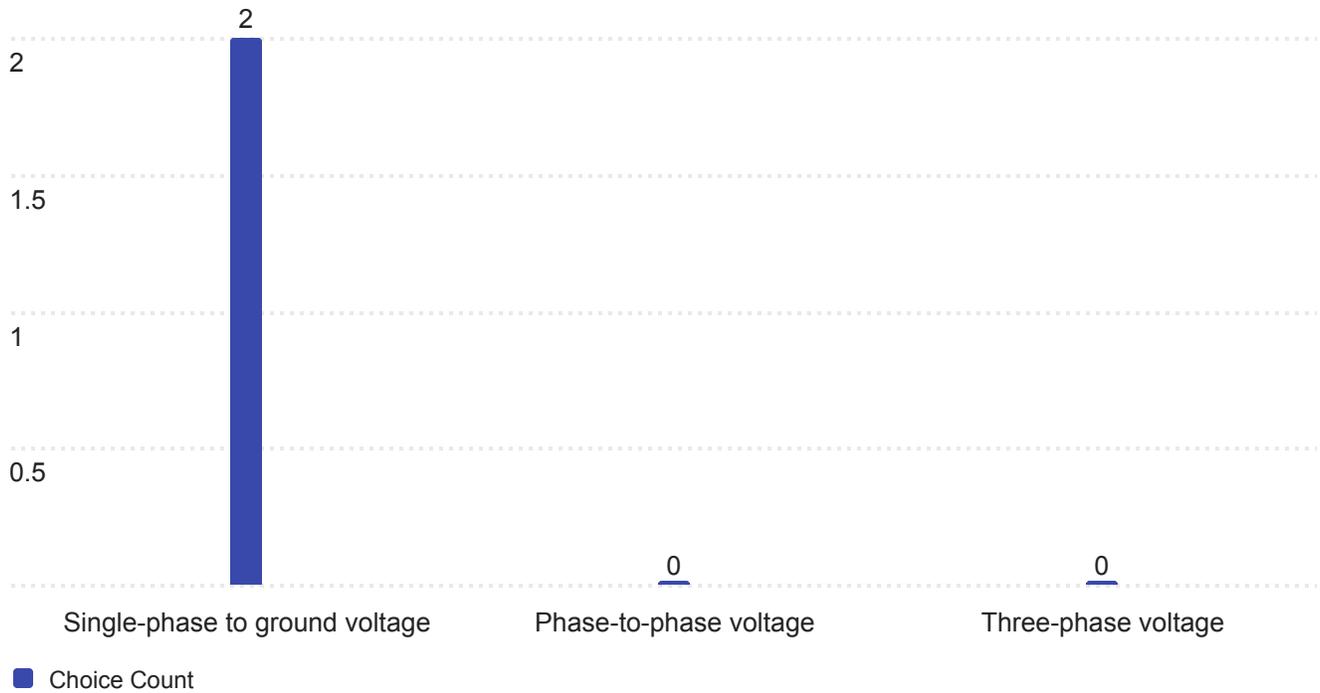


### Voltage Supervision - Is voltage supervision applied in reclosing?

Field	Choice Count
Yes	2
No	2

### VS Phase - Is single-phase to ground, phase-to-phase or three-phase voltage used in the voltage supervision?

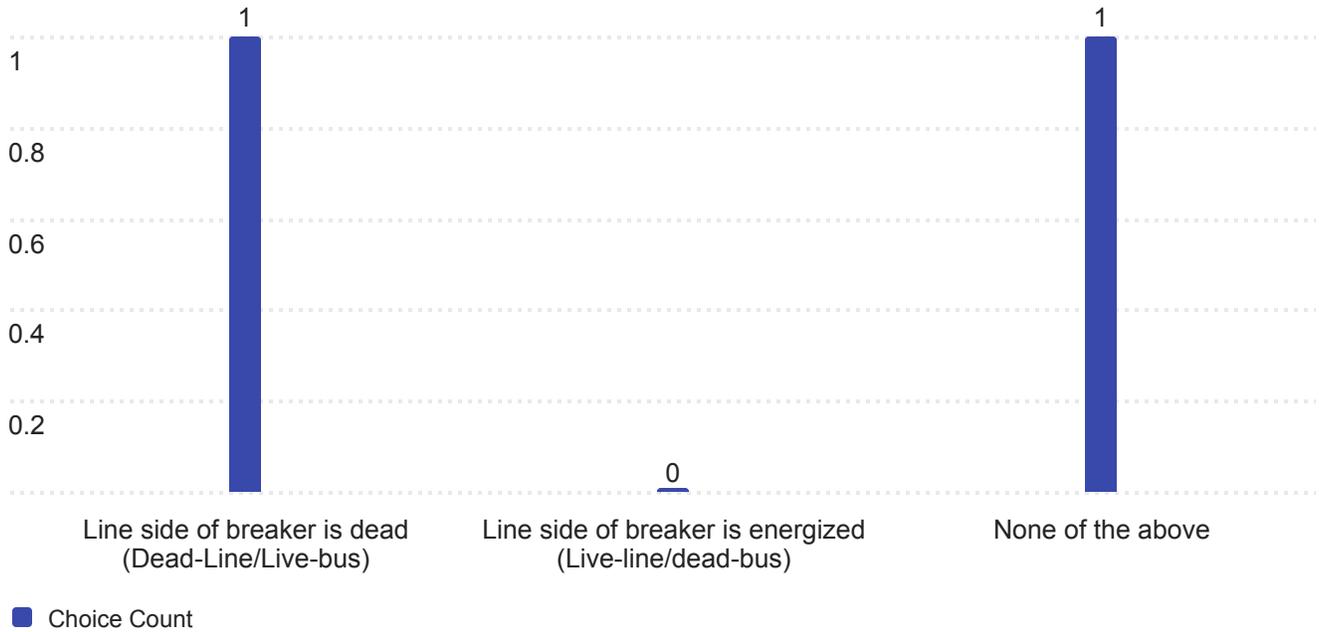
2 Responses



Field	Choice Count
Single-phase to ground voltage	2
Phase-to-phase voltage	0
Three-phase voltage	0

### Breaker Line - Is reclosing issued when the IBR line side of breaker is dead to verify remote IBR is off-line or when the IBR line side of breaker is energized to verify IBR is back online?

2 Responses



Field	Choice Count
None of the above	1
Line side of breaker is dead (Dead-Line/Live-bus)	1
Line side of breaker is energized (Live-line/dead-bus)	0

## Sync Check - Is synchronism check applied in reclosing?

2 Responses



Field	Choice Count
Yes	2
No	0

### Sync Check Angle\_1 - 345kV

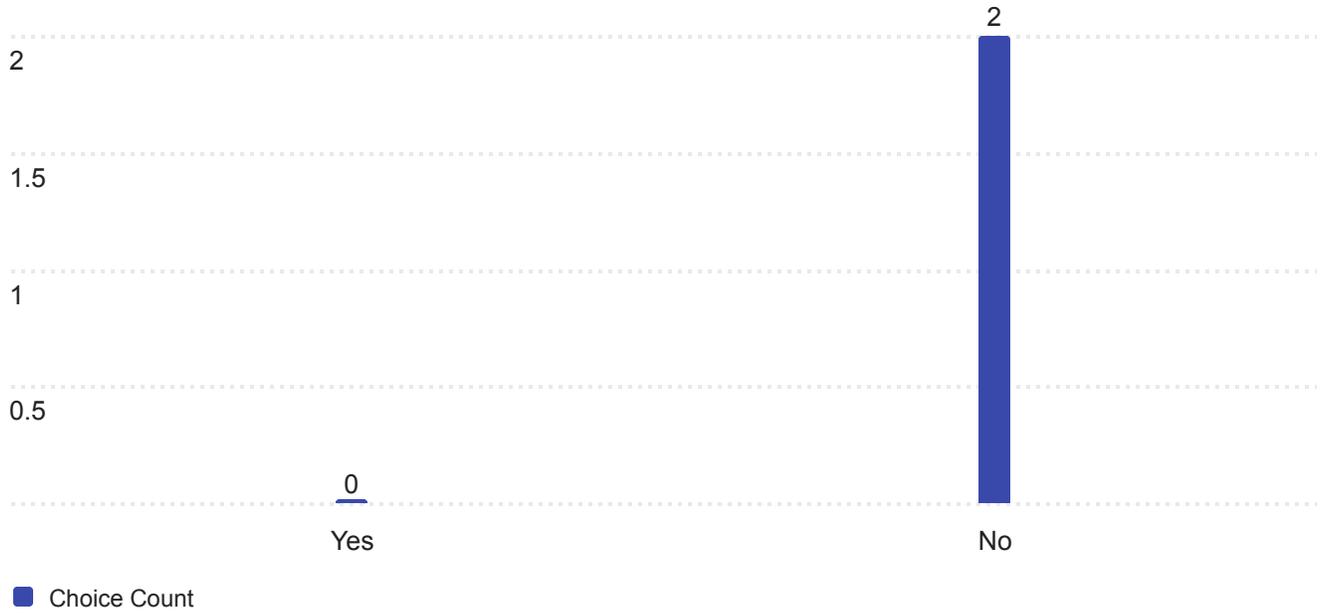
345kV	138kV	69kV
15	15	N/A
20	20	20
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

### Sync Check Freq\_1 - 345kV

345kV	138kV	69kV
0.05	0.05	N/A
N/A, setting not used	N/A, setting not used	N/A, setting not used
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

## Sync Check Function - Is reclosing issued only when synchronism check function permits?

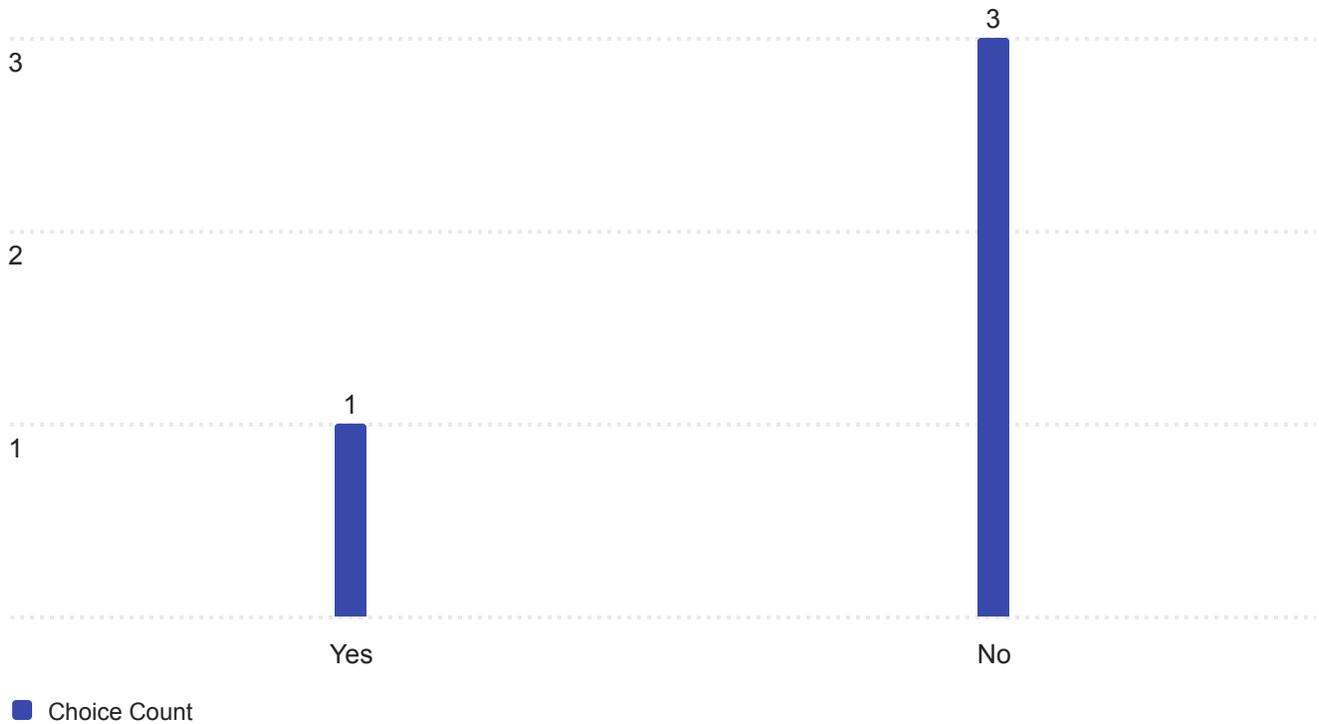
2 Responses



Field	Choice Count
No	2
Yes	0

### Adjacent Breakers - Are adjacent breakers of nearby transmission lines used as test breakers for autoreclosing of their respective lines?

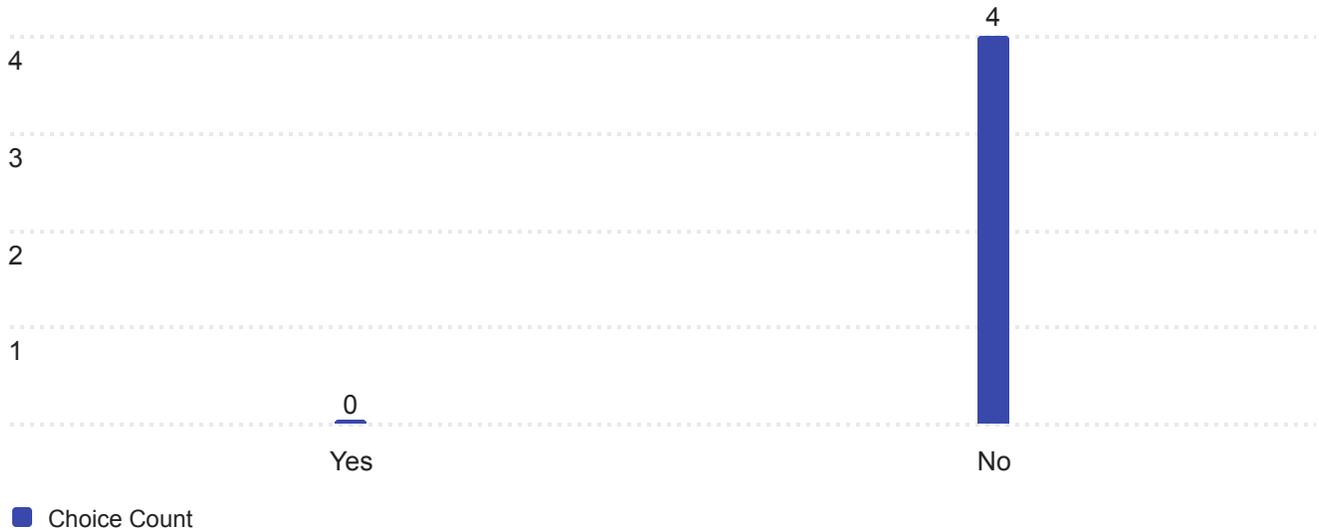
4 Responses



Field	Choice Count
No	3
Yes	1

### IBR Line Breaker - Are IBR line terminal breakers' closing intentionally delayed via the breakers' 62TD relays to mitigate Aurora Vulnerability?

4 Responses

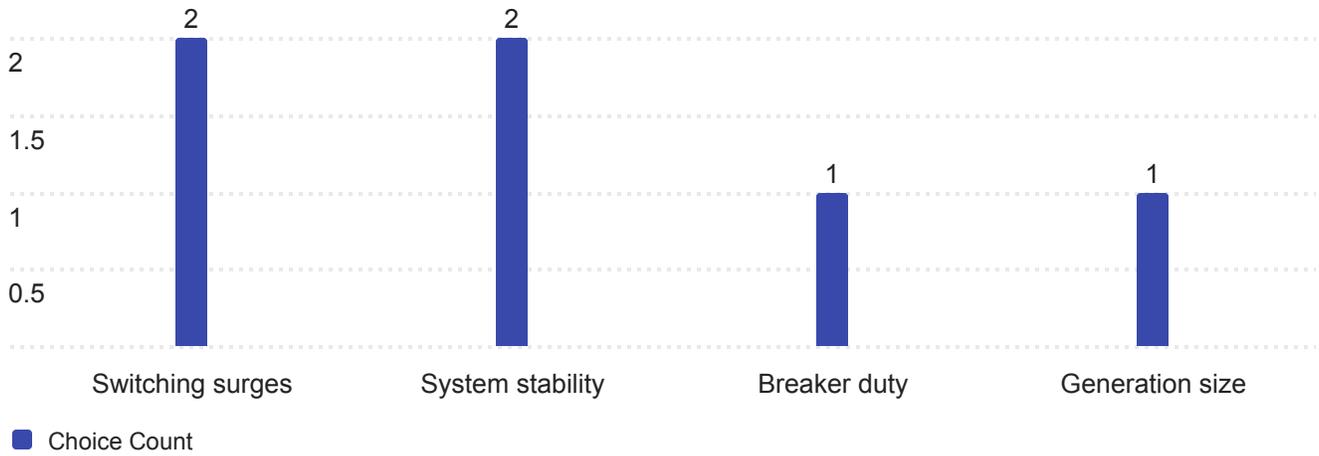


### IBR Line Breaker - Are IBR line terminal breakers' closing intentionally delayed via the breakers' 62TD relays to mitigate Aurora Vulnerability?

Field	Choice Count
No	4
Yes	0

### Systems Conditions - Which of the following systems conditions are considered in reclosing application? [Select all that applies]

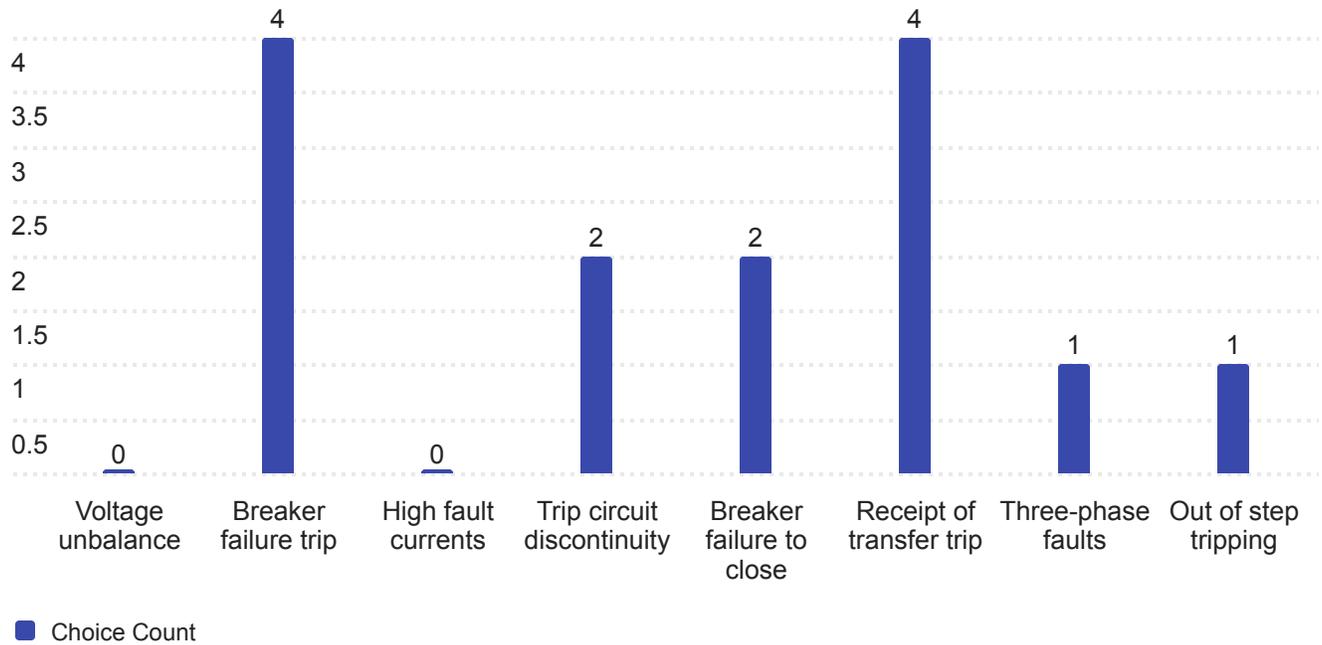
4 Responses



Field	Choice Count
Switching surges	2
System stability	2
Breaker duty	1
Generation size	1

### Reclosing Block Cond - For which of the following conditions is reclosing blocked and driven to lockout? [Select all that applies]

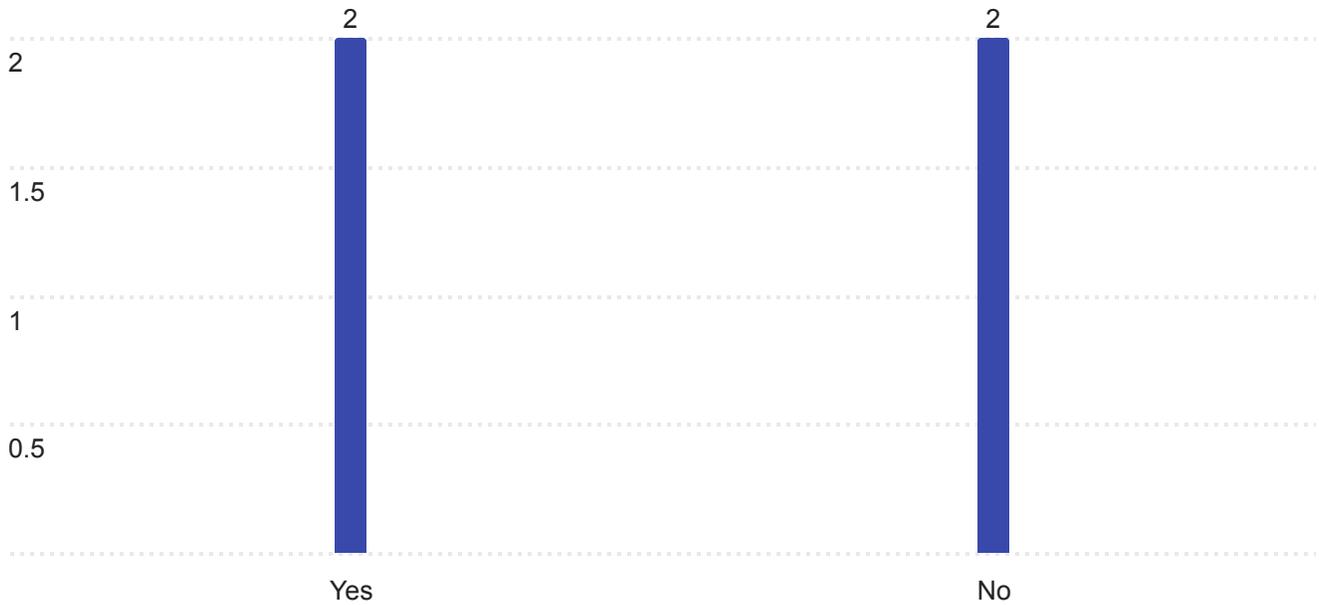
4 Responses



Field	Choice Count
Receipt of transfer trip	4
Breaker failure trip	4
Breaker failure to close	2
Trip circuit discontinuity	2
Out of step tripping	1
Three-phase faults	1
High fault currents	0
Voltage unbalance	0

### Source Test - Is weak source/strong source considered when determining which line end terminal breaker is used to test the line?

4 Responses



■ Choice Count

Field	Choice Count
Yes	2
No	2

## Further Comments - Any other comments on reclosing practices?

Any other comments on reclosing practices?

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The configuration of GP&L IBR tie lines have been typically radial transmission lines from a switching station. For lines in excess of at least 1 mile, the source/station side of the transmission line is reclosed once after a 300~ delay to test and ensure the cause of the fault has cleared. If clear, the transmission line is energized and available for the IBR operator to close their breaker and bring the facility back online. Reclosing is only allowed for the following conditions: 87L trip, Zone 1 trip, or Zone 2 w/ permission.

thanks!!