



Figure 8b: (0.5 pu/div vertical axis, 0.1 sec/div horizontal axis)

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5. Conclusion

- 1) Reenergization of line with high side breaker produces highest switching surges as discussed in case 2 which is also called sudden reclosing.
- 2) In our modelling we have taken source with 2100 MVA, 13.8 kv and transformer with 13.8/735 kv and line length 300 km but with increase in these ratings increase the surge magnitude.
- 3) Low side switching produce lower voltage at open end than high side switching. There is some effect of tertiary is also observed.
- 4) Deenergization of line after fault give high overvoltage of sound phases.
- 5) In single phase reclosing due to mutual coupling from other phases C.B reenergizes the faulted phase from stored charges.
- 6) Presence of series compensation upto 40-50% line reactance does not affect surge magnitude and wave shape.

References

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