FIDVR
Voltage Dip Recordings

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September 2015
PQube power quality recorders placed at 10 locations in Centerpoint distribution system in 2011

1830 events recorded in 2011 - 2013

Many events are not of interest with regard to FIDVR
single point data dropouts
noise spikes
normally cleared fault events
Not of interest

Selected

first pass filtering
selected 317 events
Non-FIDVR events
Events of interest
Event 291
Dip Duration 0.117 second (7 cycles)
Initial voltage a, b, c 283.7 283.3 277.8
Final voltage a, b, c 287.4 281.1 277.7
Event 265  
Dip Duration 0.067 second (4 cycles)  
Initial voltage a,b,c 284.5 283.7 275.4  
Final voltage a,b,c 296.4 280.3 277.7
Event 55
Dip Duration 0.4 second (24 cycles)
Initial voltage a,b,c 278.9 282.1 285.2
Final voltage a,b,c 289.2 296.9 298.5
Event 243
Dip Duration 0.3 second (18 cycles)
Initial voltage a,b,c 279.4 284.5 286.5
Final voltage a,b,c 283.1 284.3 287.6
Events 126 and 139
Dip Duration 0.4 second (24 cycles)

Init   \text{a,b,c} 281.1 285.8 288.0
Final  \text{a,b,c} 288.7 288.7 288.7

Init   \text{a,b,c} 280.5 282.3 285.5
Final  \text{a,b,c} 285.2 286.4 286.9
Thanks to Centerpoint Energy