GENERAL IDEA:
- Instead of returning for ksim, we return for ksim:end
- DOES ksim-1 remains the same in the code or does it become ksim-delay??

IDEAS:
- add input: ksim to inverter function
- modify output: instead of outputing filtered voltage for ksim, output it for ksim:end

Voltage inputs
- in inverter function, add: if ksim % DelayAlongCurve(knode) == 0
- if true: run normal script
- if false: use filtered voltage @ksim-1 to calculate qk/pk, filtered volt

VBP input
- in inverter function, add if ksim % DelayChangeCurve(knode) == 0
- if true: run normal script with VBP(ksim-DelayCurveParam)
- if false: make VBP == ksim-1 (or just ksim??)

pk/qk is dependent on: 1) filtered voltage @ksim, which is a function of A) voltage @ksim, B) voltage at @ksim-1, C) timestep
2) VBP @ ksim

--I need filtered voltage & VBP remain the same for every 10 seconds

--I want P/Q to be different every second
--I want filtered voltage to remain the same for 10 seconds

10 sec delay?

for each node:
run observer function to calculate
filtered voltage

IDEAS:
- add input: ksim to observer function
- modify output: instead of outputing values for ksim, output it for ksim:end

- in observer function, add: if ksim % DelayAlongCurve(knode) == 0
- if true: run normal script
- if false: don't do calculations, just return yk-1, psik-1, espilonk-1

HP-filtered, epsilon, & filtered voltage are dependent on: 1) voltage @ksim, 2) voltage @ksim-1, 3) epsilon @ksim-1

IDEAS:
-- Wait for Dan

, which was calculated
e fBS @ ksim
e @ ksim -1
ltered voltage @ ksim -1
n-voltage @ ksim -1
d voltage @ ksim -1
ter freq - 1
lter freq - 0.1
nergy - 1e5
step - set at 1

ltered voltage @ ksim
-voltage @ ksim
Filtered voltage @ ksim

ntrol function to
tes for VBP
-step - set at 1

filtered voltage which
calculated in the
erver function @ ksim
filtered voltage @ ksim-1
/ uzk @ ksim-1
hold
red voltage which was
calculated in the
observer function @ ksim

Outputs: upk / uqk @ ksim

Calculate new VBP params

Inputs: upk / uqk @ ksim
V1, V2, V3, V4

Outputs: VBP @ ksim

end

IDEAS:

Option 1:
-- store VBP in list
-- return VBP for ksim:end, instead of just ksim
-- if ksim % DelayAlongCurve == 0:
-- calculate new VBP curve

--Then in inverter control function:
if ksim % DelayAlongCurve == 0:
return VBP(ksim-DelayCurveParam)