

CONV_SYLMAR parameters are all hard-coded based on whether the initial flow direction of the PDCI. The parameters and the initialization are different for Celilo to Sylmar (North to South) or Sylmar to Celilo (South to North) flow. The following table shows the differences.

Parameter	Celilo-Sylmar (North to South)	Sylmar - Celilo (South to North)
$VacN_S$	230.0	
$UdioN_S$	286.7	
T_{UacTcS}	0.1	
IdN_S	3100.0	
$GamMin_S$	$15 \pi/180$	
$GamRef_S$	$17 \pi/180$	
$K0_S$	$-0.018846501 \pi/180$	
$Kg0_S$	$0.0 \pi/180$	
$Kg1_S$	$-0.601288000 \pi/180$	
$Kg2_S$	$-0.029795800 \pi/180$	
dxN_S	0.090	
$AmaxRGn_S$	0.150	n/a
$T_{AmaxRTCS}$	0.002	n/a
$AmaxRMax_S$	0.050	n/a
$AmaxRMin_S$	-0.050	n/a
id_margin_S	0.03	0.00
$amaxUDI_S$	$200 \pi/180$	
$amin_cca_S$	$95 \pi/180$	$5 \pi/180$
T_{f_IDC}	0.004	0.0084
T_{f_VDC}	0.004	0.0084
T_{f_VAC}	0.0333	
Km_{CN}	-1	1

Parameter	Celilo-Sylmar (North to South)	Sylmar - Celilo (South to North)
Ki_S	$180 \pi/200$	
Kp_S	$20 \pi/180$	
$T_{calphasS}$	0.003	
$AlfaNom_S$	$17.5 \pi/180$	
$LinMax_S$	1.000	
$LinMinx_S$	0.300	
Tcf_S	1000	
DA_{max1}	$10 \pi/180$	$90 \pi/180$
DA_{max2}	$2 \pi/180$	$999 \pi/180$
DA_{max3}	$1 \pi/180$	$5 \pi/180$
A_{max1}	$110 \pi/180$	$0 \pi/180$
A_{max2}	$140 \pi/180$	$120 \pi/180$
DA_{min1}	$-5 \pi/180$	$-6 \pi/180$
DA_{min2}	$-5 \pi/180$	$-8 \pi/180$
DA_{min3}	$-5 \pi/180$	$-15 \pi/180$
A_{min1}	$0 \pi/180$	$35 \pi/180$
A_{min2}	$10 \pi/180$	$70 \pi/180$
$CCARef$	Initialize so State 32 is at the upper limit	n/a
$IdRefLim_S$	3100	