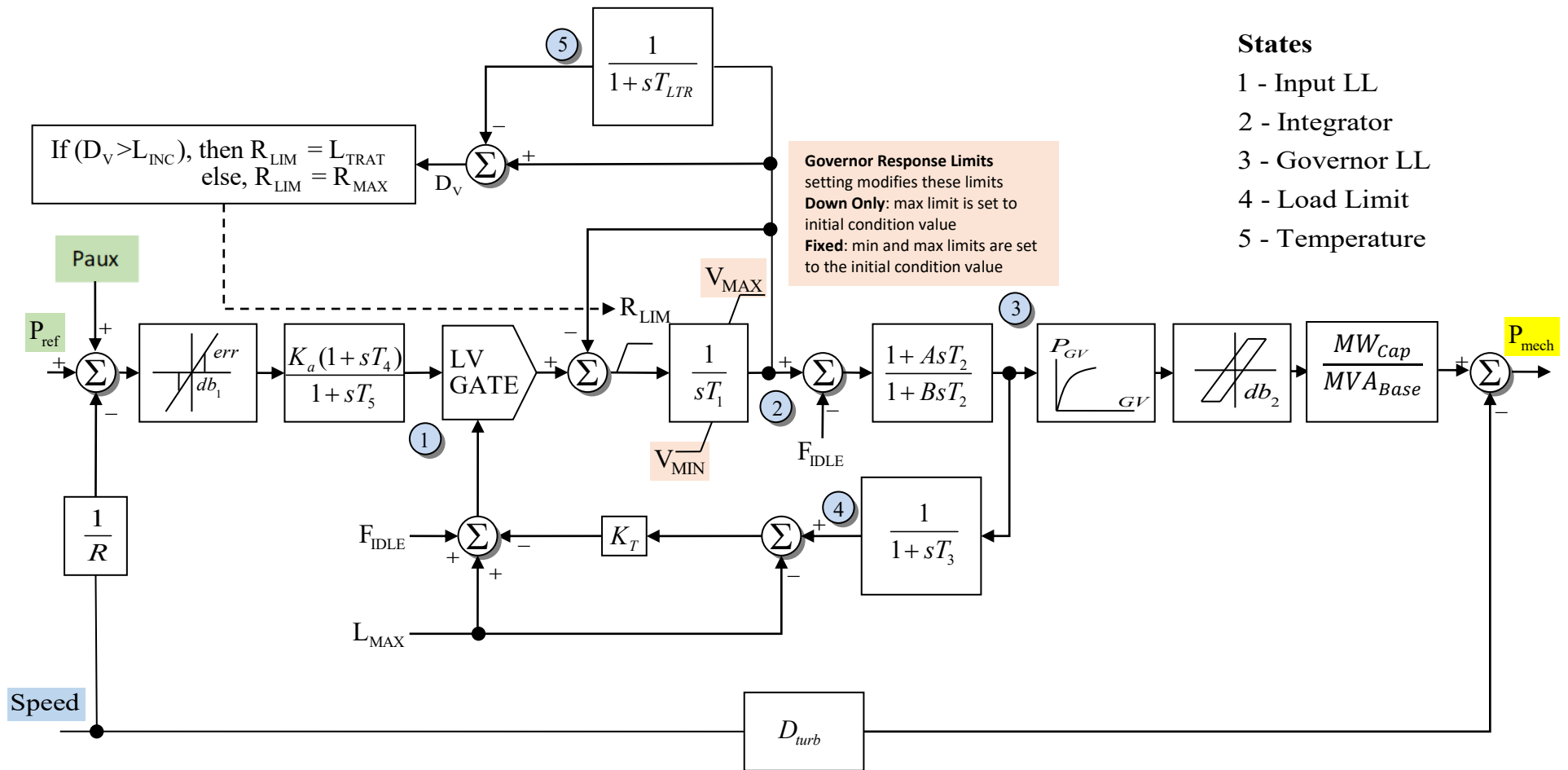


Governor URG3T

Governor URG3T WECC Gas Turbine Model



Model supported by PSSE

GV1, PGV1...GV5, PGV5 are the x,y coordinates of P_{GV} vs. GV block

Parameters:

MWCap	Turbine Rating, MW
R	Permanent droop, pu
T1	Governor mechanism time constant, sec
T2	Turbine power time constant, sec
T3	Turbine exhaust temperature time constant, sec
Lmax	Ambient Temperature load limit, pu
Kt	Temperature limiter gain
Vmax	Maximum turbine power, pu of mwcap
Vmin	Minimum turbine power, pu of mwcap
Dturb	Turbine damping coefficient, pu
Fidle	Fuel flow at zero power output, pu
Rmax	Maximum fuel valve opening rate, pu/sec
Linc	Valve opening limit, pu
Tltr	Valve position averaging time constant, sec
Ltrat	Maximum long term fuel valve opening rate, pu/sec
A	Turbine power time constant numerator scale factor
B	Turbine power time constant denominator scale factor
db1pu	Intentional deadband width, pu
Err	Intentional db hysteresis, pu
db2pu	Unintentional deadband, pu
Gv1	Nonlinear gain point 1, pu gv
Pgv1	Nonlinear gain point 1, pu power
Gv2	Nonlinear gain point 2, pu gv
Pgv2	Nonlinear gain point 2, pu power
Gv3	Nonlinear gain point 3, pu gv
Pgv3	Nonlinear gain point 3, pu power
Gv4	Nonlinear gain point 4, pu gv
Pgv4	Nonlinear gain point 4, pu power
Gv5	Nonlinear gain point 5, pu gv
Pgv5	Nonlinear gain point 5, pu power
Ka	Governor gain
T4	Governor lead time constant, sec
T5	Governor lag time constant, sec