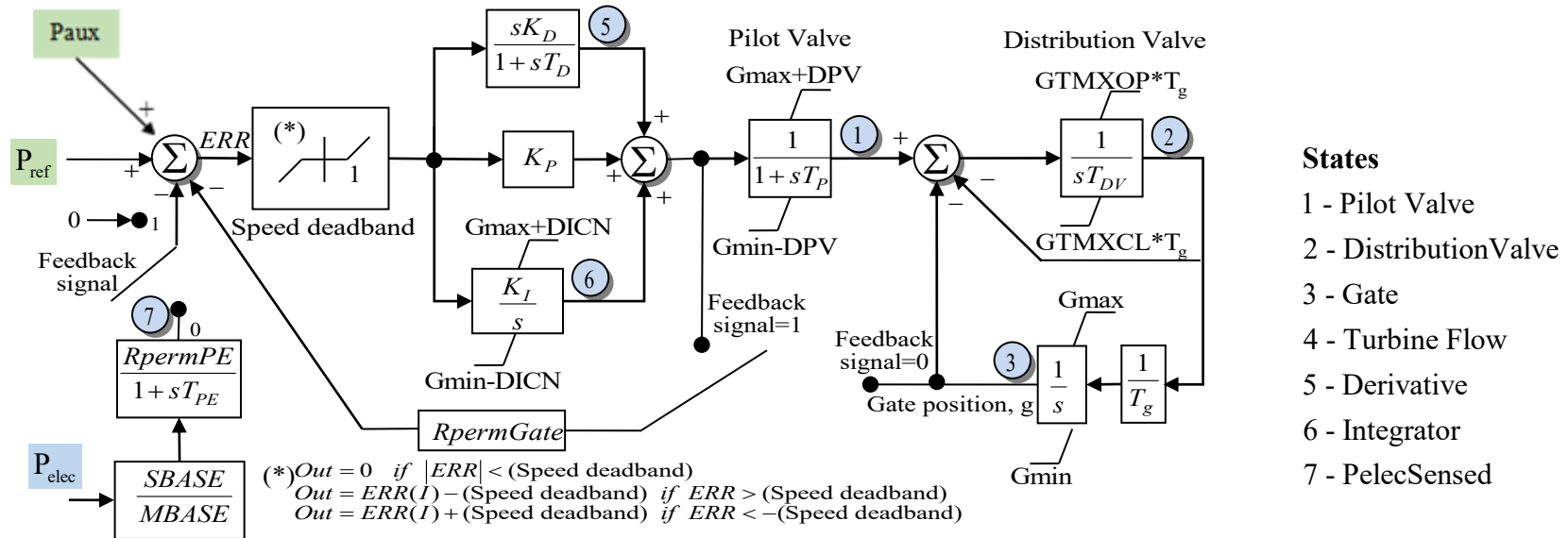
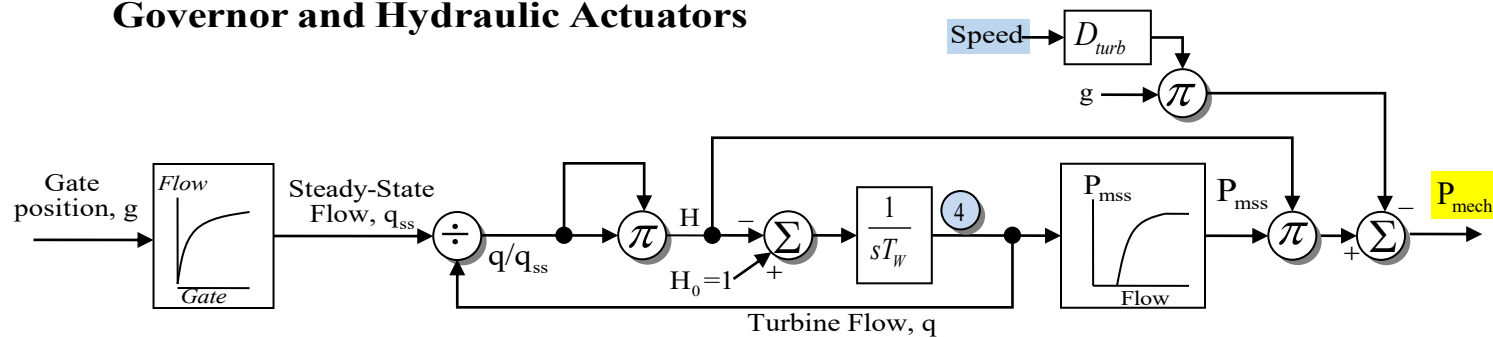


Governor WEHGOV

Governor WEHGOV Woodward Electric Hydro Governor Model



Governor and Hydraulic Actuators



Turbine Dynamics

Model supported by PSSE

(Gate 1, Flow G1)...(Gate 5, Flow G5) are x,y coordinates of Flow vs. Gate function

(Flow P1, PMECH 1)...(Flow P10, PMECH 10) are x,y coordinates of Pmss vs. Flow function

Parameters:

Feedback	Feedback signal: 0=electric power feedback, 1=gate position
RpermGate	Rperm Gate
RpermPE	Rperm PE
Tpe	Tpe
Kp	Proportional gain, pu
Ki	Integral gain, pu
Kd	Derivative gain, pu
Td	Input filter time constant, sec
Tp	Lead time constant, sec
Tdv	Tdv
Tg	Gate servo time constant, sec
GTMXOP	GTMXOP
GTMXCL	GTMXCL
Gmax	Maximum gate velocity, pu of mwcap
Gmin	Minimum gate velocity, pu of mwcap
Dturb	Turbine damping coefficient, pu
Tw	Water inertia time constant, sec
SpeedDeadband	Speed deadband
DPV	DPV
DICN	DICN
Gate1	Gate 1
Gate2	Gate 2
Gate3	Gate 3
Gate4	Gate 4
Gate5	Gate 5
FlowG1	Flow G1
FlowG2	Flow G2
FlowG3	Flow G3
FlowG4	Flow G4
FlowG5	Flow G5
FlowP1	Flow P1
FlowP2	Flow P2
FlowP3	Flow P3
FlowP4	Flow P4
FlowP5	Flow P5
FlowP6	Flow P6
FlowP7	Flow P7
FlowP8	Flow P8
FlowP9	Flow P9

FlowP10	Flow P10
PMECH1	PMECH 1
PMECH2	PMECH 2
PMECH3	PMECH 3
PMECH4	PMECH 4
PMECH5	PMECH 5
PMECH6	PMECH 6
PMECH7	PMECH 7
PMECH8	PMECH 8
PMECH9	PMECH 9
PMECH10	PMECH 10