STATE MACHINE

name	Pipe_Start_FSM	
clock	CLK	posedge
reset_signal	RST	posedge
reset_state	Idle	
default_state_is_x	1	

INPUTS

- CLK
- RST
- WCNT[8:0]
- HOLD[1:0]
- PDEPTH[8:0]
- RESTART

OUTPUTS

PIP_RST	0	comb
WE	0	comb
RE	0	comb
INC_H	0	comb

STATES

PIP_RST	0	output
WE	0	output
RE	0	output
INC_H	0	output

TRANSITIONS

equation	1	def_type
priority	1000