Door interlock state diagram Variables door manget: output going to door's magnetic lock door\_status: input door open key: input interlock key ind\_light: output indication light at the control room drive\_int\_state: drive interlock state drive\_state: motor active S0 Initialization door magnet = 0 drive int state = 0/ ind light = 1 not (drive\_int\_state) S1 S2 not (key) | not (door status) IDLE drive\_int\_state = 1 hey & drive\_int\_state not (drive\_state) S6 ind light = 0drive int state = 0 door signs & key S5 S3 ind\_light = 1 not (key) door\_magnet = 1 door\_magnet = 0