SOEN 331 Assignment 3 Dmitry Svoiski - 6893570 Matthew Beauchemin - 6760953

V = { num_tries, inlockdown {true, false} }

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safe room specification
Q = { dormant, init, idle, monitoring, error diagnosis, safe shutdown }
q_0 = dormant
\Sigma_1 = { start, init_crash, init_ok, begin_monitoring, idle_crash, monitor_crash, moni_rescue,
idle rescue, retry init, shutdown, sleep }
\Sigma_2 = { broadcast init_err_msg, num_tries++, broadcast idle_err_msg, broadcast
moni_err_msg }
\Lambda = \{
dormant <del>__start</del> → init,
init _____ idle,
     init crash/
     broadcast init_err_msg;
                            error diagnosis,
     begin_monitoring monitoring,
idle -
     idle crash/
     broadcast idle_err_msg;
                         error diagnosis,
            monitor_crash [inlockdown = false]/
            broadcast moni_err_msg;
monitoring -
                                         error diagnosis,
                  retry_init [num_tries < 3]/
                  num tries++;
error_diagnosis -
                  idle_rescue
error_diagnosis
                            → idle.
                  moni_rescue 

→ monitoring,
error_diagnosis
                  shutdown
                  [num tries = 3]
error diagnosis -
                              safe shutdown,
```