2019-04-23_19:41:20.382576Z TCS_ITMY_CO2 CERROR: If CERROR does not clear, try setting OP:STOP to kill worker, followed by OP:EXEC to resume.
2019-04-23_19:42:03.708902Z TCS_ITMY_CO2 connections reestablished
2019-04-26_00:55:53.646513Z TCS_ITMY_CO2 [LASER_UP.run] laser unlocked. jumping to find new locking point
2019-04-26_00:55:53.707175Z TCS_ITMY_CO2 JUMP target: FIND_LOCK_POINT
2019-04-26_00:55:53.707934Z TCS_ITMY_CO2 [LASER_UP.exit]
2019-04-26_00:55:53.755785Z TCS_ITMY_CO2 JUMP: LASER_UP->FIND_LOCK_POINT
2019-04-26_00:55:53.756445Z TCS_ITMY_CO2 calculating path: FIND_LOCK_POINT->LASER_UP
2019-04-26_00:55:53.756908Z TCS_ITMY_CO2 new target: LOCK_LASER
2019-04-26_00:55:53.758009Z TCS_ITMY_CO2 executing state: FIND_LOCK_POINT (-12)
2019-04-26_00:55:53.759242Z TCS_ITMY_CO2 [FIND_LOCK_POINT.enter]
2019-04-26_00:55:53.888829Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_PZT_SERVO_GAIN_SW2 => 1024
2019-04-26_00:55:54.014276Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_PZT_SERVO_GAIN => OFF: OUTPUT
2019-04-26_00:55:54.016400Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_PZT_SERVO_GAIN_SW1 => 16
2019-04-26_00:55:54.267661Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_PZT_SERVO_GAIN => OFF: FM1
2019-04-26_00:55:54.269711Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_CHILLER_SERVO_GAIN_SW1 => 20
2019-04-26_00:55:54.520970Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_CHILLER_SERVO_GAIN => OFF: INPUT, FM1
2019-04-26_00:55:54.773093Z TCS_ITMY_CO2 [FIND_LOCK_POINT.main] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT => ON: OFFSET, OUTPUT
2019-04-26_00:55:54.826218Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 3.5
2019-04-26_00:55:54.829393Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:55:57.832781Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:55:57.955700Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 7.0
2019-04-26_00:55:57.956427Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:00.957940Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:01.088156Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 10.5
2019-04-26_00:56:01.088679Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:04.088897Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:04.201198Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 14.0
2019-04-26_00:56:04.213662Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:07.213707Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:07.317878Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 17.5
2019-04-26_00:56:07.320415Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:10.320609Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done

2019-04-26_00:56:10.389355Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 21.0
2019-04-26_00:56:10.392337Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:13.393384Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:13.518411Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 24.5
2019-04-26_00:56:13.520061Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:16.519815Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:16.580349Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 28.0
2019-04-26_00:56:16.588820Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:19.588890Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:19.653514Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 31.5
2019-04-26_00:56:19.654016Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:22.654120Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:22.774677Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 35.0
2019-04-26_00:56:22.775358Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:25.775175Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:25.897665Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 38.5
2019-04-26_00:56:25.898772Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:28.899082Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:29.015037Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 42.0
2019-04-26_00:56:29.023580Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:32.023626Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:32.132292Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 45.5
2019-04-26_00:56:32.139575Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:35.139674Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:35.209343Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 49.0
2019-04-26_00:56:35.210083Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:38.209967Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:38.324090Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 52.5
2019-04-26_00:56:38.326098Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:41.325785Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:41.450987Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 56.0
2019-04-26_00:56:41.460840Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:44.460915Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:44.572424Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 59.5
2019-04-26_00:56:44.576324Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3

2019-04-26_00:56:47.575617Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:47.698047Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 63.0
2019-04-26_00:56:47.704774Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:50.704878Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:50.822131Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 66.5

2019-04-26_00:56:50.822937Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:53.825808Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:53.953957Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 70.0
2019-04-26_00:56:53.955039Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_00:56:56.955128Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_00:56:57.005485Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 3.5, 7.0, 10.5, 14.0, 17.5, 21.0, 24.5, 28.0, 31.5, 35.0, 38.5, 42.0, 45.5, 49.0, 52.5, 56.0, 59.5, 63.0, 66.5, 70.0
2019-04-26_00:56:57.006126Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 50.5774353034, 50.5132135757, 50.4409671081, 50.355238099, 50.2539861657, 50.1865977292, 50.4903499185, 50.7702062982, 51.0215736355, 51.1188672403, 50.9251134209, 50.6039446448, 50.2647898419, 50.1699526703, 50.2214012698, 50.2674787639, 50.3155611562, 50.3397627778, 50.3550745706, 50.3779514845
2019-04-26_00:56:57.062765Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] slopecheckfail 0
2019-04-26_00:56:57.064114Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] slope [-0.01834907 -0.02064185 -0.024494   -0.02892912 -0.01925384 0.08678634
2019-04-26_00:56:57.064114Z   0.07995897 0.07181924 0.02779817 -0.05535823 -0.09176251 -0.09690137
2019-04-26_00:56:57.064114Z -0.02709633 0.0146996   0.013165   0.01373783 0.00691475 0.0043748
2019-04-26_00:56:57.064114Z   0.00653626]
2019-04-26_00:56:57.066404Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] gain setting for servo is -54.4986895121
2019-04-26_00:56:57.067041Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 0
2019-04-26_00:56:57.067649Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 3.5
2019-04-26_00:56:57.068283Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 50.5774353034
2019-04-26_00:56:57.069035Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] current chiller setpoint 20.0
2019-04-26_00:56:57.074379Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_CHILLER_SET_POINT_OFFSET => 20.1
2019-04-26_00:56:57.078007Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_CHILLER_TSTEP => 1240275434.0
2019-04-26_00:56:57.078678Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] new chiller setpoint 20.1
2019-04-26_00:56:57.079546Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['chillerstep'] = 240
2019-04-26_00:56:57.079991Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] no setpoint found:stepping chiller temp
2019-04-26_01:00:57.079749Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run]

timer['chillerstep'] done
2019-04-26_01:00:57.081531Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 3.5
2019-04-26_01:00:57.084344Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:00.083671Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:00.197705Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 7.0
2019-04-26_01:01:00.198436Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:03.201112Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:03.268101Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 10.5
2019-04-26_01:01:03.269608Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:06.270538Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:06.394001Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 14.0
2019-04-26_01:01:06.394602Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:09.394548Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:09.453693Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 17.5
2019-04-26_01:01:09.454321Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:12.454411Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:12.525419Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 21.0
2019-04-26_01:01:12.526025Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:15.526080Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:15.640877Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 24.5
2019-04-26_01:01:15.648484Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:18.648581Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:18.766757Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 28.0
2019-04-26_01:01:18.768271Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:21.768452Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:21.823450Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 31.5
2019-04-26_01:01:21.826409Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:24.827875Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:24.898214Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 35.0
2019-04-26_01:01:24.898834Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:27.898717Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:28.018660Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 38.5
2019-04-26_01:01:28.024688Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:31.024970Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:31.136593Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 42.0

2019-04-26_01:01:31.141442Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:34.142476Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:34.262299Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 45.5
2019-04-26_01:01:34.264003Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:37.265391Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:37.391797Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 49.0
2019-04-26_01:01:37.393994Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:40.393747Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:40.519984Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 52.5
2019-04-26_01:01:40.520793Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:43.520733Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:43.635562Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 56.0
2019-04-26_01:01:43.637417Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:46.643458Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:46.767339Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 59.5
2019-04-26_01:01:46.768210Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:49.768352Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:49.890258Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 63.0

2019-04-26_01:01:49.891615Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:52.892094Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:52.962841Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 66.5
2019-04-26_01:01:52.963513Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:55.963574Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:56.077155Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-ITMY_CO2_PZT_SET_POINT_OFFSET => 70.0
2019-04-26_01:01:56.083660Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] = 3
2019-04-26_01:01:59.084192Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['wait'] done
2019-04-26_01:01:59.200960Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 3.5, 7.0, 10.5, 14.0, 17.5, 21.0, 24.5, 28.0, 31.5, 35.0, 38.5, 42.0, 45.5, 49.0, 52.5, 56.0, 59.5, 63.0, 66.5, 70.0
2019-04-26_01:01:59.201843Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 50.6807835273, 50.6551835024, 50.6460300568, 50.6140642717, 50.5995738065, 50.547160453, 50.4819902691, 50.4229538327, 50.3437865748, 50.2419947362, 50.1155622633, 50.3839076755, 50.7085427189, 50.9958229109, 51.0593855581, 50.820829881, 50.4437852556, 50.1063099536, 50.0630944649, 50.068665623
2019-04-26_01:01:59.243696Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] slopecheck, negative slope 2
2019-04-26_01:01:59.243696Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] midslope matrix index 5
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] midvoltage 21.0

2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] slope
-0.0186200525216
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] slope
[-0.00731429 -0.00261527 -0.00913308 -0.00414013 -0.01497524 -0.01862005
2019-04-26_01:01:59.244861Z -0.01686755 -0.02261922 -0.02908338 -0.03612356
 0.07667012 0.09275287
2019-04-26_01:01:59.244861Z   0.08208005 0.01816076 -0.06815876 -0.10772704
-0.09642151 -0.01234728
2019-04-26_01:01:59.244861Z   0.00159176]
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] gain setting for
servo is -53.7055413158
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 2
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 21.0
2019-04-26_01:01:59.244861Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] 50.547160453
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-
ITMY_CO2_PZT_SET_POINT_OFFSET => 21.0
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-
ITMY_CO2_LASERPOWER_SETPOINT => 50.547160453
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-
ITMY_CO2_LSRPWR_SET_POINT_OFFSET => 50.547160453
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-
ITMY_CO2_PZT_SERVO_GAIN_GAIN => 53.7055413158
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] laser setpoint
chosen
2019-04-26_01:01:59.247801Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['stabilize']
= 7
2019-04-26_01:02:06.247729Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] timer['stabilize']
done
2019-04-26_01:02:06.274877Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] the actual power
at the new pzt setpoint is 50.536329754
2019-04-26_01:02:06.275480Z TCS_ITMY_CO2 [FIND_LOCK_POINT.run] ezca: H1:TCS-
ITMY_CO2_LSRPWR_SET_POINT_OFFSET => 50.536329754
2019-04-26_01:02:06.392614Z TCS_ITMY_CO2 EDGE: FIND_LOCK_POINT-
>LOCK_LASER
2019-04-26_01:02:06.400908Z TCS_ITMY_CO2 calculating path: LOCK_LASER-
>LASER_UP
2019-04-26_01:02:06.401429Z TCS_ITMY_CO2 new target: RESET_PZT_VOLTAGE
2019-04-26_01:02:06.402054Z TCS_ITMY_CO2 executing state: LOCK_LASER (-16)
2019-04-26_01:02:06.402532Z TCS_ITMY_CO2 [LOCK_LASER.enter]
2019-04-26_01:02:06.654647Z TCS_ITMY_CO2 [LOCK_LASER.main] ezca: H1:TCS-
ITMY_CO2_LSRPWR_SET_POINT => ON: OFFSET, OUTPUT
2019-04-26_01:02:06.655160Z TCS_ITMY_CO2 [LOCK_LASER.main] ezca: H1:TCS-
ITMY_CO2_PZT_SERVO_GAIN_SW1 => 16
2019-04-26_01:02:06.780989Z TCS_ITMY_CO2 [LOCK_LASER.main] ezca: H1:TCS-
ITMY_CO2_PZT_SERVO_GAIN_SW2 => 1024
2019-04-26_01:02:06.906523Z TCS_ITMY_CO2 [LOCK_LASER.main] ezca: H1:TCS-
ITMY_CO2_PZT_SERVO_GAIN => ON: FM1, OUTPUT

2019-04-26_01:02:07.080876Z TCS_ITMY_CO2 EDGE: LOCK_LASER->RESET_PZT_VOLTAGE
2019-04-26_01:02:07.081664Z TCS_ITMY_CO2 calculating path: RESET_PZT_VOLTAGE->LASER_UP
2019-04-26_01:02:07.081664Z TCS_ITMY_CO2 new target: ENGAGE_CHILLER_SERVO
2019-04-26_01:02:07.082604Z TCS_ITMY_CO2 executing state: RESET_PZT_VOLTAGE (-17)
2019-04-26_01:02:07.261085Z TCS_ITMY_CO2 EDGE: RESET_PZT_VOLTAGE->ENGAGE_CHILLER_SERVO
2019-04-26_01:02:07.262196Z TCS_ITMY_CO2 calculating path: ENGAGE_CHILLER_SERVO->LASER_UP
2019-04-26_01:02:07.267584Z TCS_ITMY_CO2 new target: ISS_ENGAGE
2019-04-26_01:02:07.269571Z TCS_ITMY_CO2 executing state: ENGAGE_CHILLER_SERVO (-11)
2019-04-26_01:02:07.271617Z TCS_ITMY_CO2 [ENGAGE_CHILLER_SERVO.main] ezca: H1:TCS-ITMY_CO2_CHILLER_SERVO_GAIN_SW1 => 20
2019-04-26_01:02:07.523423Z TCS_ITMY_CO2 [ENGAGE_CHILLER_SERVO.main] ezca: H1:TCS-ITMY_CO2_CHILLER_SERVO_GAIN => ON: INPUT, FM1, FM2, OUTPUT
2019-04-26_01:02:07.775292Z TCS_ITMY_CO2 [ENGAGE_CHILLER_SERVO.main] ezca: H1:TCS-ITMY_CO2_CHILLER_OUT_GAIN => ON: INPUT, OUTPUT
2019-04-26_01:02:07.961025Z TCS_ITMY_CO2 EDGE: ENGAGE_CHILLER_SERVO->ISS_ENGAGE
2019-04-26_01:02:07.961669Z TCS_ITMY_CO2 calculating path: ISS_ENGAGE->LASER_UP
2019-04-26_01:02:07.961669Z TCS_ITMY_CO2 new target: LASER_UP
2019-04-26_01:02:07.962369Z TCS_ITMY_CO2 executing state: ISS_ENGAGE (-13)
2019-04-26_01:02:08.144119Z TCS_ITMY_CO2 EDGE: ISS_ENGAGE->LASER_UP
2019-04-26_01:02:08.144783Z TCS_ITMY_CO2 calculating path: LASER_UP->LASER_UP
2019-04-26_01:02:08.145828Z TCS_ITMY_CO2 executing state: LASER_UP (-15)