

ANNEX A: 1st Simulation

PREVENTIVE

Curse	Factors	Results						
	Detected Failures	Repaired	Not Repaired	Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Activations	Activations	Activations	Activations	Activations	Activations	Av. Time	Av. Time
1	100	92	8	67	25	0	1:00:11	
2	100	95	5	73	22	0	0:59:53	
3	100	93	7	59	32	2	1:00:00	
4	100	95	5	77	15	3	0:59:43	
5	100	94	6	56	38	0	1:00:59	
6	100	91	9	68	23	0	0:59:38	
7	100	88	12	53	33	2	1:00:32	
8	100	96	4	60	35	1	1:00:50	
9	100	92	8	59	29	4	0:59:29	
10	100	95	5	69	25	1	1:00:10	
11	100	91	9	65	25	1	0:59:14	
12	100	94	6	62	29	3	0:59:52	
13	100	95	5	68	27	0	1:00:50	
14	100	97	3	64	32	1	1:00:12	
15	100	91	9	59	29	3	0:59:17	
16	100	87	13	61	25	1	1:00:00	
17	100	89	11	65	21	3	0:59:21	
18	100	88	12	60	27	1	0:59:07	
19	100	94	6	63	28	3	1:00:35	
20	100	94	6	54	39	1	0:59:25	
21	100	91	9	70	21	0	1:00:08	
22	100	96	4	59	36	1	1:00:00	
23	100	88	12	55	32	1	0:59:28	
24	100	93	7	69	23	1	0:59:56	
25	100	91	9	65	22	4	0:59:57	
26	100	91	9	63	26	2	0:58:56	
27	100	89	11	64	25	0	1:00:58	
28	100	98	2	68	28	2	1:00:37	
29	100	96	4	68	25	3	1:00:13	
30	100	96	4	67	28	1	0:59:32	
31	100	88	12	63	21	4	1:00:20	
32	100	88	12	56	31	1	1:00:24	
33	100	97	3	70	24	3	1:00:23	
34	100	94	6	66	27	1	1:00:28	
35	100	95	5	69	25	1	0:59:54	
36	100	88	12	57	28	3	1:00:02	
37	100	96	4	62	32	2	0:59:49	
38	100	94	6	60	33	1	1:00:05	
39	100	89	11	63	25	1	1:00:36	
40	100	96	4	73	23	0	1:00:46	
41	100	95	5	60	31	4	0:59:24	
42	100	91	9	58	32	1	1:00:05	
43	100	95	5	58	35	2	1:00:37	
44	100	92	8	66	25	1	1:00:26	
45	100	92	8	53	37	2	1:00:33	
46	100	91	9	67	19	5	1:00:14	
47	100	90	10	57	28	5	1:00:43	
48	100	94	6	68	24	2	0:59:47	
49	100	96	4	63	33	0	0:59:48	
50	100	94	6	65	28	1	0:59:54	

CORRECTIVE

Curse	Factors	Results		Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Undetected Failures	Repaired	Not Repaired					
	Activations	Activations	Activations					
1	100	94	6	67	25	2	0:59:53	1:11:29
2	100	88	12	62	25	1	1:00:25	1:10:54
3	100	91	9	64	25	2	1:00:04	1:10:59
4	100	95	5	62	30	3	0:59:43	1:10:27
5	100	92	8	68	22	2	1:00:29	1:12:44
6	100	90	10	64	22	4	0:59:14	1:10:25
7	100	95	5	69	25	1	0:59:59	1:12:44
8	100	94	6	61	29	4	0:59:50	1:12:44
9	100	94	6	61	28	5	0:59:17	1:09:48
10	100	94	6	57	34	3	1:00:24	1:11:26
11	100	90	10	67	21	2	0:59:32	1:09:25
12	100	93	7	65	28	0	1:00:30	1:10:41
13	100	93	7	59	33	1	1:01:10	1:12:29
14	100	93	7	65	27	1	0:59:55	1:11:27
15	100	93	7	67	24	2	1:00:39	1:09:28
16	100	92	8	68	23	1	0:59:33	1:10:48
17	100	92	8	59	31	2	0:59:38	1:09:28
18	100	92	8	56	33	3	0:59:49	1:09:19
19	100	96	4	64	32	0	1:00:44	1:11:58
20	100	92	8	53	36	3	1:00:08	1:09:43
21	100	96	4	63	29	4	0:59:50	1:11:27
22	100	93	7	58	32	3	0:59:58	1:11:03
23	100	95	5	69	25	1	1:00:00	1:09:52
24	100	86	14	54	28	4	0:59:26	1:10:37
25	100	90	10	64	26	0	1:00:17	1:10:55
26	100	90	10	61	28	1	0:59:25	1:08:55
27	100	93	7	64	28	1	0:59:22	1:13:21
28	100	98	2	68	30	0	1:00:39	1:12:14
29	100	95	5	59	35	1	1:00:31	1:11:29
30	100	93	7	68	21	4	1:00:02	1:10:23
31	100	91	9	54	35	2	0:59:05	1:11:40
32	100	92	8	61	30	1	0:59:51	1:11:37
33	100	96	4	62	32	2	1:00:23	1:11:47
34	100	91	9	63	25	3	1:00:23	1:12:07
35	100	86	14	54	31	1	1:00:03	1:10:28
36	100	93	7	57	34	2	1:00:29	1:11:19
37	100	96	4	51	44	1	0:59:58	1:10:38
38	100	94	6	62	31	1	1:00:08	1:11:11
39	100	88	12	68	19	1	0:59:15	1:12:11
40	100	93	7	70	23	0	0:59:47	1:12:39
41	100	94	6	63	31	0	1:01:17	1:09:58
42	100	90	10	63	27	0	1:00:50	1:11:13
43	100	93	7	67	24	2	0:59:46	1:12:00
44	100	95	5	51	40	4	1:00:04	1:12:09
45	100	87	13	63	20	4	0:58:58	1:11:56
46	100	92	8	67	24	1	1:00:07	1:11:34
47	100	93	7	65	23	5	1:00:00	1:12:40
48	100	96	4	68	25	3	1:01:00	1:10:49
49	100	94	6	63	28	3	1:00:03	1:10:52
50	100	98	2	66	29	3	0:59:27	1:10:57

ANNEX B: 2nd Simulation

PREVENTIVE

Curse	Factors	Results						
	Detected Failures	Repaired	Not Repaired	Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Activations	Activations	Activations	Activations	Activations	Activations	Av. Time	Av. Time
1	100	95	5	83	12	0	1:06:34	
2	100	97	3	86	11	0	1:06:05	
3	100	94	6	76	16	2	1:06:27	
4	100	95	5	86	6	3	1:06:00	
5	100	94	6	68	26	0	1:07:26	
6	100	93	7	78	15	0	1:05:56	
7	100	90	10	65	23	2	1:07:17	
8	100	96	4	65	30	1	1:07:05	
9	100	96	4	76	16	4	1:05:40	
10	100	98	2	82	15	1	1:06:18	
11	100	93	7	76	16	1	1:05:33	
12	100	96	4	73	20	3	1:06:16	
13	100	98	2	84	14	0	1:07:13	
14	100	97	3	74	22	1	1:06:18	
15	100	96	4	74	19	3	1:05:27	
16	100	89	11	72	16	1	1:06:38	
17	100	91	9	72	16	3	1:05:49	
18	100	93	7	76	16	1	1:05:35	
19	100	95	5	74	18	3	1:06:51	
20	100	94	6	69	24	1	1:05:51	
21	100	92	8	81	11	0	1:06:34	
22	100	98	2	83	14	1	1:05:57	
23	100	90	10	67	22	1	1:06:06	
24	100	93	7	78	14	1	1:06:17	
25	100	93	7	77	12	4	1:06:26	
26	100	92	8	79	11	2	1:05:21	
27	100	92	8	78	14	0	1:07:27	
28	100	98	2	75	21	2	1:06:51	
29	100	97	3	78	16	3	1:06:26	
30	100	98	2	83	14	1	1:05:44	
31	100	90	10	75	11	4	1:06:55	
32	100	91	9	68	22	1	1:06:49	
33	100	98	2	77	18	3	1:06:37	
34	100	97	3	77	19	1	1:06:31	
35	100	96	4	78	17	1	1:06:14	
36	100	93	7	75	15	3	1:06:43	
37	100	97	3	73	22	2	1:05:59	
38	100	94	6	77	16	1	1:06:29	
39	100	92	8	76	15	1	1:06:58	
40	100	98	2	84	14	0	1:06:45	
41	100	95	5	74	17	4	1:05:52	
42	100	93	7	74	18	1	1:06:39	
43	100	98	2	70	26	2	1:06:38	
44	100	95	5	78	16	1	1:06:52	
45	100	95	5	71	22	2	1:06:37	
46	100	93	7	80	8	5	1:06:49	
47	100	93	7	70	18	5	1:07:18	
48	100	95	5	81	12	2	1:06:13	
49	100	96	4	81	15	0	1:06:10	
50	100	97	3	76	20	1	1:06:06	

CORRECTIVE

Curse	Factors	Results						
	Detected Failures	Repaired	Not Repaired	Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Activations	Activations	Activations	Activations	Activations	Activations	Av. Time	Av. Time
1	100	94	6	74	16	4	1:06:24	0:55:29
2	100	91	9	71	18	2	1:07:00	0:54:51
3	100	95	5	75	17	3	1:06:19	0:55:08
4	100	95	5	72	22	1	1:06:06	0:54:27
5	100	94	6	79	14	1	1:06:51	0:56:58
6	100	92	8	76	13	3	1:05:48	0:54:17
7	100	95	5	78	16	1	1:06:21	0:56:44
8	100	97	3	73	22	2	1:06:05	0:56:42
9	100	96	4	74	20	2	1:05:33	0:53:56
10	100	96	4	69	23	4	1:06:26	0:55:21
11	100	93	7	76	15	2	1:05:53	0:53:19
12	100	98	2	79	18	1	1:06:50	0:54:50
13	100	96	4	75	18	3	1:07:22	0:56:48
14	100	93	7	74	19	0	1:06:17	0:55:27
15	100	94	6	76	18	0	1:07:01	0:53:33
16	100	93	7	78	14	1	1:06:01	0:54:38
17	100	94	6	76	16	2	1:05:57	0:53:26
18	100	95	5	73	19	3	1:06:08	0:53:24
19	100	97	3	76	19	2	1:06:50	0:55:55
20	100	94	6	69	22	3	1:06:27	0:53:50
21	100	97	3	77	19	1	1:05:49	0:55:20
22	100	94	6	69	24	1	1:06:18	0:54:49
23	100	97	3	83	14	0	1:06:10	0:54:00
24	100	91	9	73	15	3	1:05:56	0:54:46
25	100	93	7	80	12	1	1:06:44	0:54:55
26	100	96	4	76	20	0	1:05:29	0:52:51
27	100	95	5	76	19	0	1:05:49	0:57:05
28	100	98	2	78	19	1	1:06:50	0:56:14
29	100	98	2	73	24	1	1:06:42	0:55:42
30	100	93	7	78	13	2	1:06:28	0:54:23
31	100	94	6	67	25	2	1:05:35	0:55:20
32	100	94	6	71	22	1	1:06:20	0:55:37
33	100	99	1	81	16	2	1:06:33	0:55:46
34	100	96	4	78	17	1	1:06:27	0:56:06
35	100	90	10	68	21	1	1:06:35	0:54:34
36	100	94	6	70	21	3	1:06:50	0:55:14
37	100	97	3	67	27	3	1:06:12	0:54:41
38	100	95	5	72	20	3	1:06:22	0:55:16
39	100	95	5	77	16	2	1:05:39	0:55:42
40	100	94	6	80	14	0	1:06:02	0:56:34
41	100	95	5	75	20	0	1:07:40	0:53:47
42	100	93	7	75	16	2	1:07:16	0:55:12
43	100	95	5	76	18	1	1:06:10	0:56:14
44	100	97	3	70	21	6	1:06:11	0:56:03
45	100	92	8	78	12	2	1:05:44	0:56:05
46	100	93	7	80	12	1	1:06:40	0:55:36
47	100	96	4	79	17	0	1:06:08	0:56:25
48	100	98	2	80	16	2	1:07:01	0:54:39
49	100	94	6	77	16	1	1:06:36	0:54:52
50	100	98	2	81	16	1	1:05:28	0:54:57

ANNEX C: 3rd Simulation

PREVENTIVE

Curse	Factors	Results	Not Repaired	Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Detected Failures	Repaired					Av. Time	
	Activations	Activations	Activations	Activations	Activations	Activations	Av. Time	Av. Time
1	100	95	5	83	12	0	1:00:11	
2	100	97	3	86	11	0	0:59:54	
3	100	94	6	76	16	2	1:00:06	
4	100	95	5	86	6	3	0:59:43	
5	100	94	6	68	26	0	1:00:59	
6	100	93	7	78	15	0	0:59:34	
7	100	90	10	65	23	2	1:00:35	
8	100	96	4	65	30	1	1:00:50	
9	100	96	4	76	16	4	0:59:28	
10	100	98	2	82	15	1	1:00:11	
11	100	93	7	76	16	1	0:59:09	
12	100	96	4	73	20	3	0:59:54	
13	100	98	2	84	14	0	1:00:57	
14	100	97	3	74	22	1	1:00:12	
15	100	96	4	74	19	3	0:59:09	
16	100	89	11	72	16	1	0:59:52	
17	100	91	9	72	16	3	0:59:15	
18	100	93	7	76	16	1	0:59:12	
19	100	95	5	74	18	3	1:00:29	
20	100	94	6	69	24	1	0:59:25	
21	100	92	8	81	11	0	1:00:07	
22	100	98	2	83	14	1	0:59:53	
23	100	90	10	67	22	1	0:59:29	
24	100	93	7	78	14	1	0:59:56	
25	100	93	7	77	12	4	0:59:58	
26	100	92	8	79	11	2	0:58:59	
27	100	92	8	78	14	0	1:00:58	
28	100	98	2	75	21	2	1:00:37	
29	100	97	3	78	16	3	1:00:16	
30	100	98	2	83	14	1	0:59:35	
31	100	90	10	75	11	4	1:00:22	
32	100	91	9	68	22	1	1:00:14	
33	100	98	2	77	18	3	1:00:26	
34	100	97	3	77	19	1	1:00:29	
35	100	96	4	78	17	1	0:59:57	
36	100	93	7	75	15	3	1:00:10	
37	100	97	3	73	22	2	0:59:51	
38	100	94	6	77	16	1	1:00:05	
39	100	92	8	76	15	1	1:00:32	
40	100	98	2	84	14	0	1:00:45	
41	100	95	5	74	17	4	0:59:24	
42	100	93	7	74	18	1	1:00:06	
43	100	98	2	70	26	2	1:00:33	
44	100	95	5	78	16	1	1:00:35	
45	100	95	5	71	22	2	1:00:26	
46	100	93	7	80	8	5	1:00:18	
47	100	93	7	70	18	5	1:00:50	
48	100	95	5	81	12	2	0:59:54	
49	100	96	4	81	15	0	0:59:48	
50	100	97	3	76	20	1	1:00:00	

CORRECTIVE

Curse	Factors	Results		Satisfied on time	Satisfied not on time	Rework	Maintenance Work	Waiting time
	Detected Failures	Repaired	Not Repaired					
	Activations	Activations	Activations					
1	100	94	6	74	16	4	0:59:53	0:55:20
2	100	91	9	71	18	2	1:00:24	0:54:49
3	100	95	5	75	17	3	1:00:01	0:54:00
4	100	95	5	72	22	1	0:59:43	0:54:46
5	100	94	6	79	14	1	1:00:27	0:54:55
6	100	92	8	76	13	3	0:59:14	0:52:51
7	100	95	5	78	16	1	0:59:59	0:57:05
8	100	97	3	73	22	2	0:59:54	0:56:14
9	100	96	4	74	20	2	0:59:16	0:55:42
10	100	96	4	69	23	4	1:00:17	0:54:23
11	100	93	7	76	15	2	0:59:28	0:55:20
12	100	98	2	79	18	1	1:00:43	0:55:37
13	100	96	4	75	18	3	1:01:06	0:55:46
14	100	93	7	74	19	0	0:59:55	0:56:06
15	100	94	6	76	18	0	1:00:34	0:54:34
16	100	93	7	78	14	1	0:59:35	0:55:14
17	100	94	6	76	16	2	0:59:39	0:54:41
18	100	95	5	73	19	3	0:59:52	0:55:16
19	100	97	3	76	19	2	1:00:49	0:55:42
20	100	94	6	69	22	3	1:00:04	0:56:34
21	100	97	3	77	19	1	0:59:45	0:55:20
22	100	94	6	69	24	1	0:59:58	0:55:12
23	100	97	3	83	14	0	1:00:02	0:56:14
24	100	91	9	73	15	3	0:59:22	0:56:03
25	100	93	7	80	12	1	1:00:19	0:56:05
26	100	96	4	76	20	0	0:59:26	0:55:36
27	100	95	5	76	19	0	0:59:25	0:56:25
28	100	98	2	78	19	1	1:00:39	0:54:39
29	100	98	2	73	24	1	1:00:36	0:54:52
30	100	93	7	78	13	2	1:00:02	0:54:57
31	100	94	6	67	25	2	0:59:09	0:55:20
32	100	94	6	71	22	1	0:59:49	0:55:37
33	100	99	1	81	16	2	1:00:25	0:55:46
34	100	96	4	78	17	1	1:00:20	0:56:06
35	100	90	10	68	21	1	1:00:01	0:54:34
36	100	94	6	70	21	3	1:00:27	0:55:14
37	100	97	3	67	27	3	1:00:00	0:54:41
38	100	95	5	72	20	3	1:00:07	0:55:16
39	100	95	5	77	16	2	0:59:23	0:55:42
40	100	94	6	80	14	0	0:59:45	0:56:34
41	100	95	5	75	20	0	1:01:21	0:53:47
42	100	93	7	75	16	2	1:00:45	0:55:12
43	100	95	5	76	18	1	0:59:51	0:56:14
44	100	97	3	70	21	6	1:00:02	0:56:03
45	100	92	8	78	12	2	0:59:08	0:56:05
46	100	93	7	80	12	1	1:00:12	0:55:36
47	100	96	4	79	17	0	0:59:56	0:56:25
48	100	98	2	80	16	2	1:00:58	0:54:39
49	100	94	6	77	16	1	1:00:03	0:54:52
50	100	98	2	81	16	1	0:59:27	0:54:57