Attack Identifier	Starting Time	Ending Time	Duration (minutes)	Attack description
1	9/10/17 19:25:00	9/10/17 19:50:16	25.16	Motorized valve 1_MV_001 is mali-
				ciously turned on, this causes an over-
				flow on primary tank should reflect
				on 1LT001 and 1FIT001
2	10/10/17 10:24:10	10/10/17 10:34:00	9.50	Flow Indication Transmitter
				1_FIT_001 is tuned off, a false
				reading is seen by PLC for 1_FIT_001.
				This will turn chemical dosing pump
				on while leaving the water level in
				primary tank constant. Consequently
				the attacker is increasing the level of
				chemicals inside water.
3-4	10/10/17 10:55:00	10/10/17 11:24:00	29.0	Stealthy attack. Attacker aims to
				drain elevated reservoir 2_LT_002.
				This is done controlling manipulat-
				ing tank level draining and filling
				speed. 1_AIT_001 Moreover the at-
				tacker changes the reading seen by wa-
				ter quality sensor, this causes the raw
				water tank drain.
5	10/10/17 11:30:40	10/10/17 11:44:50	14.10	Turn off valves to consumers
				2_MCV_101, 2_MCV_201,
				2_MCV_301, 2_MCV_401,
				2_MCV_501 , 2_MCV_601 consumers
				will receive no more water.
6	10/10/17 13:39:30	10/10/17 13:50:40	11.10	Turn on maliciously 2_MCV_101,
			11.00	2_MCV_201.
7	10/10/17 14:48:17	10/10/17 14:59:55	11.38	Supply contaminated water to the
				Elevated Reservoir tank by setting
				1_AIT_002 to 6 to drain primary grid
				because of contamination. at the same
0	10/10/17 17:40:00	10/10/17 17.40.40	0.40	time open 2_MV_003 Malicously open 2_MCV_007 in order
8	10/10/17 17:40:00	10/10/17 17:49:40	9.40	to produce water leakage before wa-
				ter reaches consumers. this attack
				should be reflected in 2PIT002
				and 2FT002 (unsuccessful)
9	11/10/17 10:55:00	11/10/17 10:56:27	1.27	Turn on 1_P_006 maliciously to cause
	11/10/11 10:00:00	1,10,11,10.00.21	1.21	pipe burst.
10	11/10/17 11:17:54	11/10/17 11:31:20	14.26	Damage 1_MV_001 and raw water
~	-,,	, ,		pump to drain Elevated Reservoir
				tank.
11	11/10/17 11:36:31	11/10/17 11:47:00	11.29	Similar to attack 8
12	11/10/17 11:59:00	11/10/17 12:05:00	6.0	Similar to attack 8
13	11/10/17 12:07:30	11/10/17 12:10:52	3.22	Reducing Booster set point pressure,
				this causes intermittent water supply
				to consumers this should be re-
				flected in 2FIT003 and 2PIT003
14	11/10/17 12:16:00	11/10/17 12:25:36	9.36	stop chemical dosing to the raw water
				which is supplied to the primary grid
				tank tank
15	11/10/17 15:26:30	11/10/17 15:37:00	11.30	Stealthy attack, inverse of attack 3