

## Data Collection at Secure Water Treatment (SWaT) Testbed 20 July 2019

- Plant start time: 12:35 PM (GMT +8)
  - Plant normal run without any attacks: 12:35 PM to 2:50 PM
  - Six attacks, described below, were carried out between 3:08 PM to 4:16 PM
  - Plant stop time: 4:35 PM
1. Attack on FIT401: Spoof value from 0.8 to 0.5  
Intent: To stop de-chlorination by switching off UV401  
Start time: 3:08:46 PM  
End time: 3:10:31 PM
  2. Attack on LIT301: Spoof value from 835 to 1024  
Intent: To eventually lead to underflow in T301  
Start time: 3:15 PM  
End time: 3:19:32 PM
  3. Attack on P601: Switch from OFF to ON  
Intent: To increase water in raw water tank  
Start time: 3:26:57 PM  
End time: 3:30:48 PM
  4. Multi-point Attack: Switch from CLOSE to OPEN (MV201) and OFF to ON (P101)  
Intent: To overflow tank T301  
Start time: 3:38:50 PM  
End time: 3:46:20 PM
  5. Attack on MV501: Switch from OPEN to CLOSE  
Intent: To drain water from RO  
Start time: 3:54 PM  
End time: 3:56 PM
  6. Attack on P301: Switch from ON to OFF  
Intent: To halt stage 3 (UF process)  
Start time: 4:02:56 PM  
End time: 4:16:18 PM