

TTF Mitigation Measures for when the Odour Management System fails to function



Date of last update: 09.03.2023

Scenario	Root Causes	Potential Consequence	Mitigation Measures
RTO not working	Power cuts/ Faults in LPG supply or gas train/ Breakdown of equipment.	Autoclave will seize operations until cause of failure is remedied. Material suitable for autoclaving shall be incinerated, which can cause heavy stockpiling. In case incinerator is down, storage of material shall take place for incineration.	Marshalling shed is enclosed thus odours are captured during intermediate handling. Waste is stored in reefers till RTO resumes operation. PPIS would still capture any surrounding odours. Any faults identified shall be fixed asap.
PPIS / AHUs not working	Power cuts/ Faults in gas supply/ Breakdown of equipment	Autoclave shall still be capable of operating since majority of gases are treated via RTO. Waste marshalling shed shall end up without air treatment. Thus, no storage can take place within and already stored material must be stored elsewhere or prioritised for incineration if plant is available and other storage facilities are already full.	Autoclave shall still be capable of operating since majority of gases are treated via RTO. No storage shall take place within the Marshalling shed. Already stored material shall be stored elsewhere or prioritised for incineration if plant is available and other storage facilities are already full.
Fridges and Reefers not working	Power cut / Fault in equipment.	Waste stored within shall stop being kept at refrigerated temperatures, thus degradation of material starts accelerating as materials starts thawing. This will release some of the generated odorous gases which will leak from the container.	Any faults identified will be fixed asap. Eg, gas testing after H&S approval.
Lack of storage capacity	Full refrigerated storage capacity due to excessive backlog/stockpiling.	Some material will end up stored outside designated storage areas excessive stockpiling is stabilised.	Ensuring storage spaces and containers are available prior to a shutdown. Careful planning of shutdown periods.
Shutter doors of waste marshalling shed not working	Faulty motor, shutter door is inoperable.	Sealing of the waste marshalling shed will be compromised.	Repairs will be carried out immediately, subject to the availability of parts. Less frequently used doors shall be kept shut manually for the AHU to still be effective until repairs are complete.
Waste Water Treatment Plant Failure	Power Cut / Lack of oxygen supply for aeration / Fault in equipment / Overload of WW input for treatment.	Waste Water treatment shall cease operating resulting in odour release due to stagnant waste waters.	Repairs will be carried out immediately, subject to the availability of parts. If repairs are to take long, waters from the faulty process shall be emptied and its waste waters transferred to MN WWTP until the issue is resolved.