

Annex I

Investigation Report

Investigation Report of CEMS Exceedances

Date	1 - 31 October 2019
Time	Continuous monitoring throughout October 2019
Monitoring Location	Continuous Environmental Monitoring System (CEMS)
Parameter	Various emission parameters of the Ammonia Stripping Plan (ASP)
Exceedance Description	<p>1. Continuous monitoring was carried out ASP throughout the reporting period using the CEMS. According to the EM&A Manual, exceedance is considered if the emission concentration of the concerned pollutants is higher than the emission limits stated in Tables 2.2, 2.3 and 2.5 of the EM&A Manual (Version E) for CAPCS, CHP and ASP respectively. The concentration of the concerned air pollutants were monitored on-line by the CEMS. Exceedances of various emission parameters were recorded on the CEMS including:</p> <ul style="list-style-type: none"> • NO_x, VOCs (including methane) and NH₃ in the ASP. <p>2. According to the Contractor, the plant was receiving around 100 tonnes of SSOW daily and was operated normally.</p> <p>3. Further optimisation of the chemical dosing system of the ASP. The Contractor explained that the exceedances recorded in the ASP was because the thermal combustion unit of the ASP still require tuning to optimise the combustion efficiency.</p>
Action Taken / Action to be Taken	<ul style="list-style-type: none"> • The supplier suggested that main components required for the modification work, i.e. an air cooler, was delivered during this reporting period. Meanwhile, the supplier will perform some minor modification work, such as the replacement of control valves in the next reporting period. The schedule developed by the Contractor and the supplier suggests that the major modification work is to be performed in the next report period. The operation team of the Contractor will also liaise and agree with the supplier for any shutdown period required to replace and install the equipment.
Remedial Works and Follow-up Actions	The Contractor is recommended to closely monitor the processes, including the modification work and follow-up emission monitoring of the ASP to avoid exceedance. MT will carry out follow-up audit regarding the progress next month.

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 Date: 7 November 2019