CV MITRA HASANAH TEKNIK		JAH TEKNIK
Report Title: Assessment of Instrument Device 2022		¹ Flexible I
End User Name	Location	2 UV Source
PT INDO BHARAT RAYON - CS2 PLANT	CIKAMPEK	3 Analysis
Tag no.	Description	
AT5250 A/B/C	A-560 SO2/O2 Analyzer	
Manufacturer	Device type	
Rosemount Analytical	O2/SO2 (CEMS) Analyzer	
Reference/Model no X-STREAM X2XF	ACCEPTED / NOT ACCEPTED	

- 1 Flexible Hose/Tube on Paramagnetic Detector (pO2) has been broken
- 2 UV Source has decrease performance and visually the window has dirty.
- 3 Analysis Cell has been Dirty.

Method of assessment

- a. Visit site for inspection equipment.
- b. Check and verify equipment specification
- c. Review equipment performance through operation report

Activities/ Observation

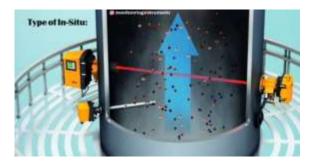
A Gas Cylinders

- A 1 Calibration gas cylinder have expired and not valid to used.
 - 2 Zero gas cylinder
 - 3 Calibration gas cylinder chains corroded (risk of cylinder falling).
- B The Heated Sample Probe System at the incinerator stack disconnected
 - 1 The Timer for Blowback is not Functioning.
 - 2 PLC still run but several SOV cannot work.
 - 3 Perma pure Dryer Assembly is clogged
 - 4 Ceramic Filter was dirty and clogged.
 - 5 Filter element is already dirty, damp and wrinkled.
- C Sample Transport Line (tubing) choked hence disconnected
 - 1 The non heated sample transport line tubing partially clogged.
 - 2 Instrument Air connected to the Sample Transport Line at the Analyzer Shelter
- D Sample Handling System in the Analyzer House
 - 1 No Filter Element in Coalescing Filter
 - 2 Existing Sample pump damaged.
 - 3 Additional equipment (pump, Coaliscer Filter and Instrument Air Filter)
 - 4 connected to Analzyer Sample Conditioning System.
- E SO2 and O2 Analyser **out of service** has been removed and sent for repair and calibration

Recommendation:

- 1 Procure Calibration Gas Cylinders (Zero and Span Gas Cylinders)
- 2 Rectify the problem on Heated Sample Probe or purchase a new one.
- 3 The new purging line (modification) to be remove and NOT TO BE USED.
- 4 Rectify the problem on Sample Handling System or purchase a new one.
- 5 Repair the analyzer (if the process condition as per original desig)
- 6 Otherwise procure a new cross stack CEMS analyzer to avoid choke in Heated Sample Probe and Sample Handling System as the best solution.
- 7 Create item code/number for particular spares and analyzer Note

High content of Moisture and SO2 in the sampling system can be a significat significant problem in current extractive type CEMS analyzer(choke) tubing)



Assessor: Riswanto / Mohamad Yani/ Date: 21-4-2022

Customer Comment