

CV MITRA HASANAH TEKNIK		
Report Title : Assessment of Instrument Device 2022		continued
End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>	Recommendation: - To procure suitable transmitter for replacement . - To change material code in SAP with suitable transmitter for future use. - To perform calibration and rerange existing transmitter. - The existing transmitter specification is; STR93D-21B-1C0BDABA-507K-MB-CM-CC-TG-F1-TP.E1D9 - Recommended transmitter for replacement is; STR12D-21B-1B0BDABA-507K-MB-CC-TG-F1-TP-E1D9 - The similar issue for LT 4084
Tag no. LT4003	Description <i>Level Transmitter for H-401</i>	
Manufacturer <i>HONEYWELL</i>	Device <i>Level Transmitter DP Cell Type</i>	
Reference <i>Data sheet, Manual</i>	ACCEPTED / NOT ACCEPTED	
Method Method of assessment is mentioned here below; - Visit site for inspection equipment. - Check and verify equipment specification - Review equipment performance through operation report		
Activities/ Observation		Attachment; 1. Data sheet LT4003. 2. Instuction manual mention different minimum SPAN between type STRD93D and type STR12D. 3. Vessel H-401 dimension drawing.
With refer to tank H-401 dimension and process data, the existing transmitter installed is not suitable for this application, existing transmitter has minimum SPAN 670 mBar, but maximum SPAN generated at transmitter tapping point only 350 mBar		Reference: https://www.jasaservis.net/ibr-document
		Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022
		Customer Comment

CV MITRA HASANAH TEKNIK	
Report Title : Assessment of Instrument Device 2022	
End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. FT5038	Description <i>Main air to RF burner</i>
Manufacturer <i>HONEYWELL</i>	Device <i>Flow Transmitter DP Cell Type</i>
Reference <i>Data sheet, Calibration report</i>	ACCEPTED / NOT ACCEPTED
<p>Method Method of assessment is mentioned here below;</p> <ul style="list-style-type: none"> - Visit site for inspection equipment. - Check and verify equipment specification - Review equipment performance through operation report <p>Activities/ Observation;</p> <ul style="list-style-type: none"> - Range value implemented in DCS and Transmitter both are deviated from Data sheet. - Transmitter has been calibrated out of procedural, it was performed in linear mode instead of Square root mode. 	
<p>Continued</p> <p>Recommendation.</p> <ul style="list-style-type: none"> - To raise MOC - To create proper calibration procedure. - To perform transmitter calibration. - To rectify discrepancy Range between transmitter and DCS. <p>The similar problems occurs in several other flow transmitters as outlined in the attachment</p> <p>Attachment:</p> <ul style="list-style-type: none"> - FE5038 Orifice data sheet - FT5038 Transmitter data sheet - FT5038 Calibration report - List of transmitter with similar issue <p>Reference https://www.jasaservis.net/ibr-document</p> <p>Assessor: Mohamad yani/ Riswanto Date: 7-4-2022</p> <p>Customer Comment</p>	

CV MITRA HASANAH TEKNIK		
Report Title : Assessment of Instrument Device 2022		continued
End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>	Recommendation; - To Raise MOC - To Re-range transmitter based on vessel dimension and process data - To perform calibration and commissioning. Attachment/ References: - LT3001 data sheet - Manufacture manual mention how to define transmitter range. - LT DP type presentation Reference https://www.jasaservis.net/ibr-document Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022
Tag no. LT3001	Description <i>Transmitter for vessel V-300</i>	
Manufacturer <i>HONEYWELL</i>	Device <i>Level Transmitter DP Cell Type</i>	
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED	
Method Method of assessment is mentioned here below; - Visit site for inspection equipment. - Check and verify equipment specification - Review equipment performance through operation report Activities / Observation - No previous calibration report found. - Range implemented in the transmitter deviate from manufacture instruction manual, company requested to explain the basis , otherwise transmitter range have to modified with reference to basic principle of level transmitter DP type.		
		Customer Comment

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Report Title : Assessment of Instrument Device 2022

continued

End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. <i>LT5003</i>	Description <i>Transmitter for vessel T-750</i>
Manufacturer <i>HONEYWELL</i>	Device <i>Level Transmitter DP Cell Type</i>
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED

Recommendation:

In order to minimize unsafe action due to dipstick measurement activities, additional level transmitter proposed to be installed at this vessel. The Bubbler type transmitter is the one to be considered.

Attachment:

Bubbler type transmitter presentation

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

- The only one level transmitter available to measure level in this vessel
- Seem personel often use dipstick to measure actual level of this vessel.

<https://www.jasaservis.net/ibr-document>**Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022**

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. LT5032	Description <i>Transmitter at S-509</i>
Manufacturer <i>HONEYWELL</i>	Device <i>LT Magnetostrictive type</i>
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED

Recommendation:

- To perform wet calibration
- To provide/ procure tool for calibration

Attachment:

- Instrument list consist of transmitter need to be calibrated during SD.
- Calibration procedure.
- Magnetostrictive level transmitter manual.

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

LT integrated with LG, working based on buoyancy of displacer, testing and verification using liquid media is required. Cannot find calibration report in the pass for similar type of transmitter

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto**Date: 7-4-2022**

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CV MITRA HASANAH TEKNIK		
Report Title : Assessment of Instrument Device 2022		continued
End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>	Recommendation; -To replace push button with new one for following tags HS6104A at CS2 loading area HS6104C at CS2 Daily tank area HS6104D at near to cooling water area -To reconnect wiring and check functionality. -To provide TAG number https://www.jasaservis.net/ibr-document Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022
Tag no. <i>HS6104A/C/D</i>	Description <i>sh button for CS2 Loading Arm Safe</i>	
Manufacturer <i>HONEYWELL</i>	Device <i>Push button</i>	
Reference <i>plot plan</i>	ACCEPTED / NOT ACCEPTED	
Method Method of assessment is mentioned here below; - Visit site for inspection equipment. - Check and verify equipment specification - Review equipment performance through operation report Activities/ Observation - Found push button phisically cracked and cover broken. - TAG number missing		
		Customer Comment

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Report Title : Assessment of Instrument Device 2022		continued
End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>	Recommendation; In order to reduce risk due to equipment and human failure we recommend to implement following procedure; - Hardware bypass for "steam drum low-low level" to be removed from logic. - The TORF (temporary override form) system must be implemented every time site personnel need to enable this bypass logic. - Approval must be limited to maintenance manager and operation superintendent. Attachment; - ESD interlock diagram Please find reference document by visiting below URL https://www.jasaservis.net/ibr-document Assessor: Mohamad Yani/ Ri Date: 7-4-2022
Tag no. <i>HS5097</i>	Description <i>V-506 Low-Low By passed</i>	
Manufacturer <i>General PB</i>	Device <i>Push button</i>	
Reference <i>Logic diagram</i>	ACCEPTED / NOT ACCEPTED	
Method Method of assessment is mentioned here below; - Visit site for inspection equipment. - Check and verify equipment specification - Review equipment performance through operation report		
Activities/ Observation: Stakeholder are recommended to review ESD logic for this bypass switch, we identified there is potential hazard need to be evaluated.		Customer Comment

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Report Title : Assessment of Instrument Device 2022

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. <i>BE5087</i>	Description <i>Fire box flame detector</i>
Manufacturer <i>Fireye</i>	Device <i>Flame detector</i>
Reference <i>Instruction Manual</i>	ACCEPTED / NOT ACCEPTED

Recommendation;

To check functionality both flame detector and amplifier during unit shutdown.

To provide/procure UV/IR lamp for testing 9 pcs flame detector installed at site.

Attachment;

Flame detector testing tool catalog

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

Found flame monitor not responding, no signal detected and no output to DCS.

Please find supporting document by visiting below URL

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022

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Report Title : Assessment of Instrument Device 2022

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. FT2001	Description <i>Sulphur to furnace flow</i>
Manufacturer <i>Endress Hauser</i>	Device <i>Flow transmitter Coriolis type</i>
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

Reported controller upset in Auto mode, and flow reading not stable in manual mode

Recommendation;

- To check pipe line from any obstruction (check valve, manual valve etc.)
- To rectify steam trace leak at FE side,
- To add position feedback at control valve FCV2001,
- If required use noninvasive temperature transmitter to monitor process temperature,
- To perform tuning Controller FIC2001

For reference please visit ;

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no.	Description
Manufacturer	Device
Reference	ACCEPTED / NOT ACCEPTED

Recommendation:

- To provide TAG number for each device, recommended to arrange different color between TAG plate for ESD device and TAG plate for DCS devices.
- To rectify broken enclosure, many of them have broken hinge
- To do painting instrument valves which are rusty at certain point

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

Identification TAG for field instrument missing

Enclosure for transmitter damaged.

Control valve actuator found rusty

ON-OFF valve for connection actuator to body found rusty

Please find reference document by visiting below URL

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022

Customer Comment

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Report Title : Assessment of Instrument Device 2022

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no.	Description
Manufacturer	Device Calibration Tool
Reference	ACCEPTED / NOT ACCEPTED

Recommendation:

Recommended to have universal configurator/communicator for supporting instrument job, AMS Trex Device Communicator from Rosemount Company is the most suitable tool we propose.

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

Configurator device is very important tool for managing instrumentation equipment, it is used for calibration, configuration, trouble shooting and diagnose instrument devices.

We noticed some instrument devices installed at field not able to communicate with any communicator available in workshop, it can lead difficulties when problem occurred to those field device.

<https://www.jasaservis.net/ibr-document>

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no.	Description
Manufacturer	Device Control Valve
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED

Recommendation:

- To perform proper control valve calibration.
- To do painting as required

Attachment:

- Calibration sheet
- Recommended calibration Form

Method

Method of assessment is mentioned here below;

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

Activities/ Observation;

- Refer to calibration report, control valve have been calibrated without considering spring range pressure
- Control valve actuator found rusty
- Mounting for connection actuator to body ON-OFF VALVE found rusty

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022

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End User Name PT INDO BARAT RAYON	Location <i>CIKAMPEK</i>
Tag no. TE2030	Description <i>Skin tube furnace temperature</i>
Manufacturer <i>Thermatron</i>	Device <i>Thermocouple</i>
Reference <i>Data sheet</i>	ACCEPTED / NOT ACCEPTED

Recommendation;

- To replace faulty Thermocouple element when opportunity available
- To review thermocouple quality.

Method

Method of assessment is mentioned here below;

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


Activities/ Observation:

Element faulty, No indication in DCS

<https://www.jasaservis.net/ibr-document>

Assessor: Mohamad Yani/ Riswanto Date: 7-4-2022

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CV MITRA HASANAH TEKNIK		
Report Title : Assessment of Instrument Device 2022		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.
End User Name PT INDO BHARAT RAYON - CS2 PLANT	Location <i>CIKAMPEK</i>	
Tag no. AT5250 A/B/C	Description <i>A-560 SO2/O2 Analyzer</i>	
Manufacturer <i>Rosemount Analytical</i>	Device type <i>O2/SO2 (CEMS) Analyzer</i>	
Reference/Model no <i>X-STREAM X2XF</i>	ACCEPTED / NOT ACCEPTED	
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 Analyzer 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 significant problem in current extractive type CEMS analyzer(choke) tubing) 
		Assessor: Riswanto / Mohamad Yani/ Date: 21-4-2022
		Customer Comment

CV MITRA HASANAH TEKNIK

Report Title : Assessment of Instrument Device 2022

End User Name PT INDO BHARAT RAYON - CS2 PLANT	Location <i>CIKAMPEK</i>
Tag no. QT2036	Description <i>O2 IN FLUE GAS A-200</i>
Manufacturer <i>YOKOGAWA</i>	Device type <i>ZIRCONIUM OXIDE, INS ITU</i>
Reference/Model no <i>ZR402G</i>	ACCEPTED / NOT ACCEPTED

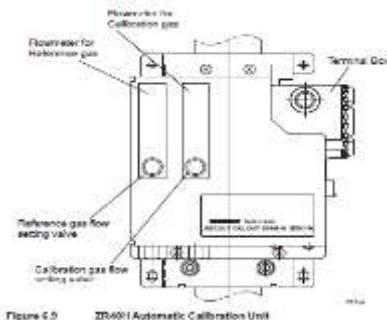
Method of assessment

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

Activities/ Observation

A Gas Cylinders

- No Calibration gas cylinder valid to used.
- Analyzer not calibrate and set up correctly
- analyzer supplied with model ZR40H Automatic Calibration Unit auto-switching of the calibration gas.



Recommendation:

- Procure Calibration Gas Cylinders (Span Gas Cylinder)
- Set up analyzer calibration arrangement in order to able to calibrate in semi automatic calibration.
- Set up the reference gas and calibration gas flow rate as per manufaturer recomendation
- Calibrated the analyzer as per manufacturer recomendation
- Create item code/number for particular spares and analyzer

Assessor: Riswanto / Mohamad Yani/ Date: 8 April 2022

Customer Comment

