



## HF ALKYLATION UNIT REMOTE MONITORING

### GENERAL

Operation of an HF Alkylation unit is highly profitable, but requires an unusual tight control of operation, maintenance and inspection to achieve sustained safe and reliable operation. Incidents, although infrequent, generally have a large economic impact and, even more serious, on reputation. EPS supports customers with remote monitoring of HF Alkylation units. The focus is to identify threats for the Operational Availability of the HFA unit, and identify opportunities for improvement.

### METHODOLOGY

The proven methodology for the EPS remote monitoring of HF Alkylation units consists of:

- During a site visit, information is gathered on unit design, operation, corrosion history and current issues. A list of operating conditions and laboratory analysis is established as a basis for remote monitoring;
- Customer will send once per quarter the operating and laboratory data to EPS;
- Within 5 working days, feedback on the operation is provided by a remote monitoring report;
- A routine follow-up telecom allows discussions and clarification of the report.

### EPS CONSULTANT

This support will be carried out by a principal EPS consultant with world class experience in the technology and operation of HF Alkylation units. Working for Shell (1986-2010) the consultant has been responsible for provision of technical support to 10 HFA units worldwide, including the design and commissioning of new units.

The consultant has contributed to the development of API RP-751, and has carried out compliance audits in various locations.

Since 2010, as EPS principal consultant, various HF Alkylation units have been supported, including remote monitoring for two customers.



In 2014, the consultant wrote a book on “Integrity management in HF Alkylation” and made a presentation on this topic during the ERTC conference in Lisbon.

## BENEFITS FOR THE CUSTOMER

- Customer will have the assurance of an external second pair of expert eyes reviewing the critical aspects of the operation of their HFA unit by a comparison with the industry best practices.
- Remote monitoring has provided early indications of emerging problem, such that the impact on the HFA unit has been minimized.
- Customer will have the assurance that the operation of their HF Alkylating unit is “up to date”.

## WHY SELECT EPS?

The EPS consultant for this activity is a world class expert in the technology and operation of HF Alkylation units, having experience with remote monitoring as an external consultant. In case problems arise which are outside the experience of the refinery, customer can have direct and fast access to other (functional) experts in the EPS network.

## CONTACT

EPS Customer Solutions B.V.

*Please contact:*

**Diederik Visser**

Office: +31 (0) 71 82 00 121

Mobile: +31 (0) 61 24 51 707

Email: [diederik.visser@epsconsultancy.com](mailto:diederik.visser@epsconsultancy.com)



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[www.epsconsultancy.com](http://www.epsconsultancy.com)

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