PROCESS PLANT INSPECTION PLAN

E- 592

OBJECTIVES

Give the necessary background to set up a rational method for the inspection of static pressure equipments in process units.

At the end of the training session, the participants:

- are able, with the help of an expert, to handle a process circuit from the corrosion point of view, to determine the points to be checked and the controls frequency
- know the risk analysis techniques without being specialists and are able to participate in the hazardous equipments risk evaluation
- are able to contribute to the study of a process unit inspection

COURSE CONTENT

OWNER - USER INSPECTION ORGANIZATION **0.25 day**

Responsibilities of an owner-user of pressure equipment

DIFFERENT TECHNIQUES FOR THE RISKS ANALYSIS **0.25 day**

Definitions, applications, comparison of different methods: RBI, HAZOP, What-If, AMDEC (FMEA), Check-lists, PSM, QRA, Fault Tree Analysis.

HELPS TO DESIGN A RATIONAL METHOD OF INSPECTION **0.5 day**

Methodology of inspection based on risk evaluation

Qualitative risk-based inspection analysis (RBI - API 581). Semi-quantitative adaptation.

QUANTITATIVE AND SEMI-QUANTITATIVE RISK BASED INSPECTION APPROACH **1 day**

Point of view on the qualitative and quantitative RBI-API 581 approaches.

French authorities requirements.

Damage and inspection “manuals”.

Inspection plan preparation and/or revision. Keys for a successful inspection plan.

Interest of the method. Other professional documents.

Inspection “Quality loop”.

Annex to the french legal instruction DM-T/P n° 32510. Reference frame for the inspection departments agreement. Function. Case of a non officially agreed inspection department.

EXAMPLES OF APPLICATION OF THE RBI METHOD **2 days**

Expertises utility.

Risk-based inspection analysis presentation.

Corrosion survey and methods of damages research.

Inspection and expertise results utilization.

Documentation related to damage types (corrosion, metallurgical or mechanical damages) and prevention modes.

Case studies of process plant inspection plan.

The course is interactive and based on actual case studies.

▲ Who should attend?

Managers, engineers, staff involved in inspection, maintenance and operation in petroleum, petrochemial and chemical industries.

▲ Duration

3 days

▲ Dates & Location

Non scheduled

May only be organised for a single company

▲ Tuition Fees

To be agreed upon

▲ Course Coordinator

Dominique VALLANCE

Ref. **MCO / PLINS-E**

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