



CES Environmental Instruments Ltd

Practical Solutions for Applying BS EN 14181 to LCPD Processes

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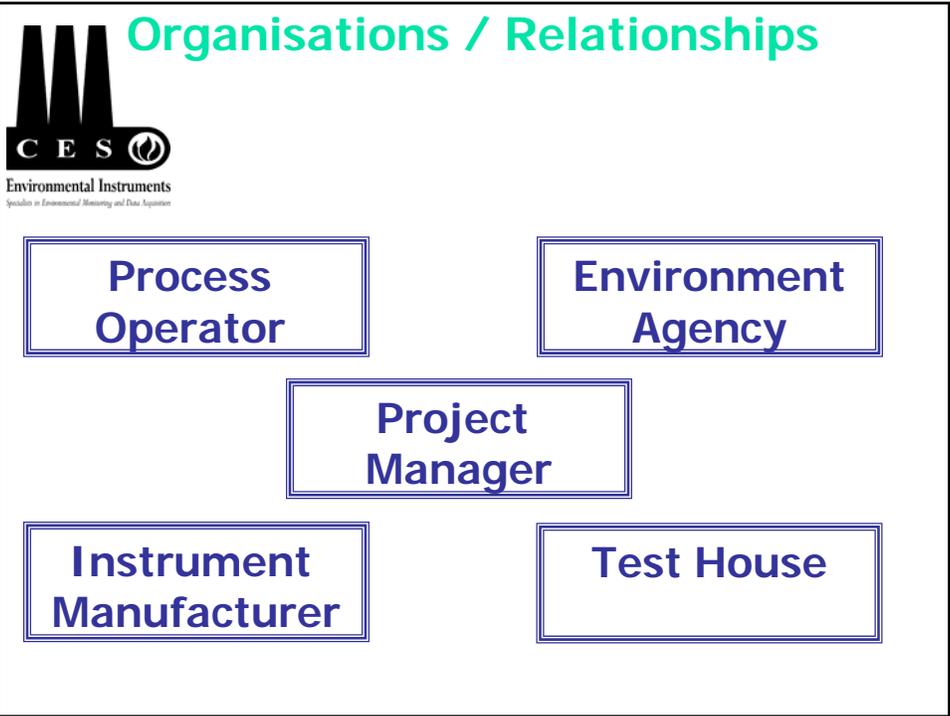


Introduction

Planning

Organisations / Relationships

Solutions / Conclusions



Organisations / Relationships

Environmental Instruments
Specialists in Environmental Monitoring and Data Acquisition

Project Manager

Can be any of the following

- Operator
- Instrument Manufacturer
- Test House

But Usually the Test House

This slide focuses on the role of a Project Manager. It features the same logo and text as the first slide. The title 'Project Manager' is centered in a large green font. Below it, the text 'Can be any of the following' is centered in blue. A list of three roles follows: 'Operator', 'Instrument Manufacturer', and 'Test House', each centered in blue. At the bottom, the text 'But Usually the Test House' is centered in a larger, bold blue font.



Organisations / Relationships

Process Operator	Environment Agency
Instrument Manufacturer	Test House

What do they want?



Organisations / Relationships

Process Operator

Environmental Department

Instrument Department

Operations Department

Commercial Manager



Organisations / Relationships

Process Operator

Environmental / Instrument department

Sample location has this been verified?

Data Acquisition System, ensure that the data can be supplied as required in a suitable format (Raw Data)

On a Coal Fired Power Station the standard requires that NO_x, SO_x and Particulate should be monitored, but there are other things we need to consider:-

Oxygen	Moisture
Pressure	Temperature
Carbon Dioxide	Carbon Monoxide



Organisations / Relationships

Process Operator

Environmental / Instrument department

Analogue output's to be provided for the test house locally

Project Manager to Audit the Service, Function and Linearity Test on the CEMs

Check local and remote display to ensure that they match

Load Variation



Organisations / Relationships

Process Operator

Operations Department

They will run the unit

Are they aware of the schedule

Will it be ready up to agreed load, ashed out, soot blown at the correct time

Consider having a hot second unit ready



Organisations / Relationships

Process Operator

Commercial Manager

Ensure they are aware of the importance of the agreed schedule



Organisations / Relationships

Instrument Manufacturer

Sales

Administration

Service Engineers

Audit of the Service, Function and Linearity Test

Instrument Configuration



Organisations / Relationships

Test House

Sales

Level two /Team Leader(MCERTS)

Correct Equipment



Organisations / Relationships

Environment Agency

Talk to the Agency through site specific protocols etc.

Consider Local Inspectors may not be in a position to make decisions.



Solutions / Conclusions

Planning Meeting

Key People

Fail to Prepare / Prepare to Fail

Communication