Test Monitoring Implementation - Some Explanatory Slides

Test Monitoring Implementation Group
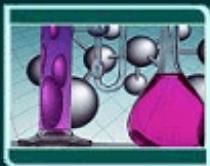
C Gray (SDG), P Bromby and J Harris (PDC)

Contents

Test Monitoring Organization

Process for Adding a New test

Designing a Data Dictionary

Contacts

Test Monitoring Organisation CEC/TMS

Test Monitoring Implementation Flowchart

CEC & PDC agree to add test

Provide lab contacts to CEC TMS*

Define data dictionary

Select pilot labs

Compile sample historical data, control limits and targets

Create data entry sheet

Configure user access for pilot

Beta test upload and charts

Create database and upload routine

Configure access for all labs

Release production database and documentation

Full operation of system

Project meetings should be held at the start, before and after beta testing

Key:

DBA (SDG)

Labs

CEC TMS

Data Dictionary Design

Name	Len.	Dec.	Type	Unit	Min	Max	Description
TESTTYPE	6		C				Test type designation. Must be exactly 'NOACK'
VERSION	8		C				Data dictionary version number (YYYYMMDD).
ACKEMAIL	40		C				Email address for messages regarding EDT status.
TEST_NUM	6	0	N				Incrementing test number for INSTR_ID (Leave blank)
LAB_CODE	2		C				Laboratory Code
LAB_NAME	40		C				Laboratory Name
INSTR_ID	5		C				Instrument Serial number / ID
FUELTYPE	12		C				Oil reference code e.g. RL172 or RL208
FUELCODE	2		C				Oil Batch Code
DATETIME	16		DT				Test start date/time (dd/mm/yyyy hh:mm), hours 00 to 23
CANDIDAT	6	0	N		0	1000	No. of candidate tests run since last reference
VALIDITY	15		C				Assessment of operational validity of the test. Pick one value from designated list of values.
COMMENT	70		C				Comments regarding test operation or validity
KEYWORD	40		C				Keyword selected from finite list of designated words regarding test validity
RNDROBIN	20		C				Round robin designation for industry sponsored round robin testing. Leave blank for tests run as part of test monitoring.
OPERATOR	20		C				Operator Name / ID
INST_MOD	10		C				Instrument model / generation
FM_HD_ST	2		C				Siting in Fume hood (Y/N)
CUP	20		C				Cup Name or number
NOACK	6	1	N	%m	0	100	NOACK result (0 - 100)

Mandatory Fields

Usual Fields

Test Specific Fields

Main working group input is the Data Dictionary

Should include reported variables and key operating variables. WG decides how much information to collect

A number of fields (green) are required. Some of these have been specifically included to monitor quality.

Conteacts

- Paul Bromby and James Harris (CEC-TMS Administration)
  - cectma@pdcnet.org.uk +44.1455.290222
  - Usernames and passwords
  - Access to test types
  - Data input and upload issues
  - Access to charts and tabulated output
  - Guidelines and operational support

- Chris Gray (SDG Chairman) chris.gray@infineum.com
  - Implementation Issues
  - Statistical and Methodological questions

  NB these issues should first be considered by the SDG Liaison Officer and the Database Administrator for the group