

WinCERTS

By Kildrummy

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Kildrummy® WinCERTS

System Scope

WinCERTS is a simple desktop computer system designed to record and monitor key engineering inspection and certification tests and to track their progress during the lifetime of a project and thereafter through operations.

The WINCERTS family of systems was created and developed in the late '80s to improve project completions control and reporting on a number of major oil projects.

The addition of Windows' flexibility and ease-of-use to the clarity, simplicity and common sense of WinCERTS technology brings something rather special to the aid of the harassed Project Engineer.

Benefits

WinCERTS is a quality product. Simple to set up and easy to use, WinCERTS enables the project engineer to control project completions from day one.

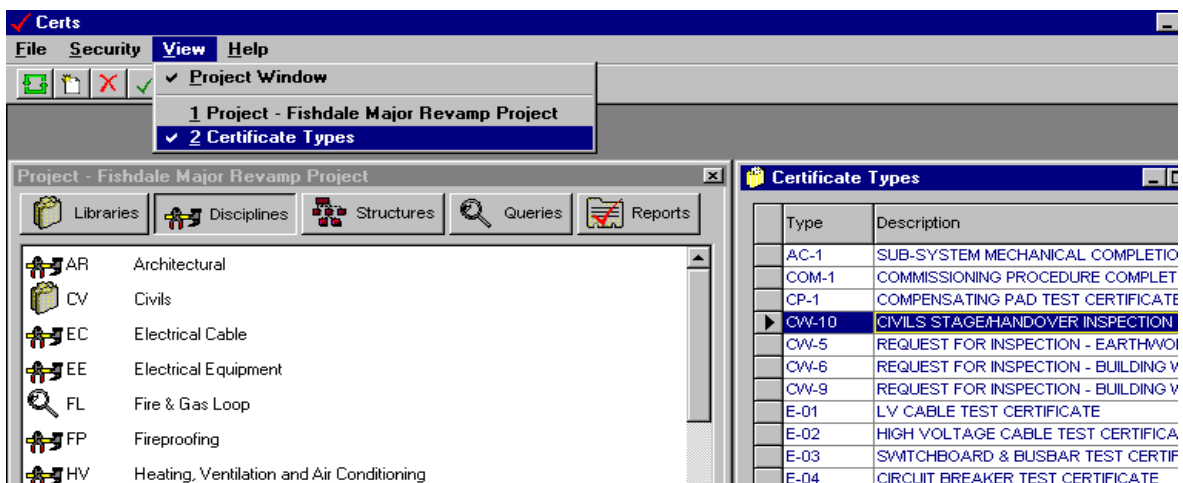
WinCERTS provides the commissioning team with rapid, factual progress information on project certification through the mechanical completion, commissioning and handover phases. The certification engineer has a visible audit trail of progress from management level summary reports to status of individual items of equipment.

By helping to track the progress of project certification, system acceptance and handover, including identifying key problem areas (queries, punch lists, non-conformances etc.), WinCERTS contributes to delivering project success.

System Philosophy

The WinCERTS system has been developed to meet simple design criteria:

- *Fits the scale of your problem:* works on anything from elaborate networks to a single stand-alone personal computer
- *Flexible:* simple or detailed breakdown of certification, user defined control structures, terminology and reports.
- *Simple to use:* ease and confidence of operating in Windows
- *Storage Capacity:* hardware limits
- *Low Cost:* cheap standard hardware, up and running in hours, low support and maintenance costs through the lifetime of your project.



Features

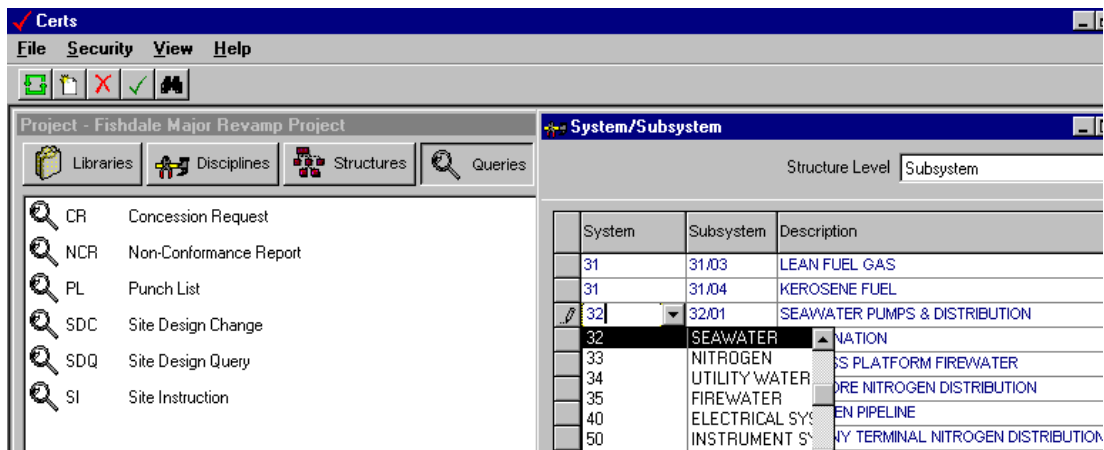
The main features of the *WinCERTS* application include, but are not limited to, the following:

- **Discipline Registers.** *WinCERTS* has been designed around a simple concept wherein the project's certification data is broken down for control purposes into discipline registers which reflect the overall content of the project Equipment List: Mechanical & Electrical Equipment, Instruments, Cables etc. In addition further discipline registers may be created to control the certification process for construction activities: Civil, Structural Steel, Architectural etc. The number of registers (their characteristics and terminology) to track certification per project is user definable: for example the project may wish to see separate registers or groups for Loss Control and Trace Heating.
- **Certification.** A library of test certificates can then be defined according to the project procedures. The certification engineer can then build up the certification requirements for each item (Tag Number, Cable, Loop, Test Pack, Work Pack etc.). The level of detail of the certification requirements is up to the user: a high level strategy employing discipline, acceptance and handover certificates or a detailed audit trail whereby each individual voltage, pressure, leak test certificates are identified.
- **Progress.** *WinCERTS* has an easy method of updating the status of each certificate, the date of the test and, where required, track the certificate number. The result is a comprehensive history of certification tests and compilation of test dossiers for handover to the operator.
- **Structures.** Control and report structures may be designed by the client to reflect the overall status reporting for the Commissioning Team. These structures can contain different levels of detail and are hierarchical. They would typically represent the following report queries: Phase / System / Sub-System, Acceptance Certificate / Handover Certificate, Work Area, Responsibility / Contractor etc. The detailed items (Tags, Cables etc.) identified in the discipline registers are linked into the appropriate part of the structure. The structures provide the framework for both detailed outstanding work lists and management summary reports.
- **Reports.** *WinCERTS* provides a very powerful reporting capability enabling the engineer to (a) query the detail / progress of each discipline register as well as (b) issue management with overall status reports during the mechanical completion, pre-commissioning, commissioning and handover phases of the project. The flexibility is such that any part of the structures created may be queried with the engineer choosing the output level of detail required.
- **Queries.** Associated query registers to record and control Punch Lists, Engineering Queries, Site Queries, Construction Change Notes and Non-conformances.
- **Interfaces.** *WinCERTS* applications have been successfully linked to other client/project systems. Typically this has involved regular downloads from the client's engineering registers. The system has been developed in MS Visual Basic and uses a database that can be read in **MS Access**. Clients have the option to create **user definable interfaces and reports** in Access or request that Kildrummy develop them.

Client Applications

WinCERTS and its derivatives have been installed both stand-alone and networked environments. They are proven with a number of clients world-wide each with a varied application for the software. Kildrummy's clients for our project completions systems include the following:

ABB Lummus Global Inc.
Amec Process and Energy
BP Al Rayyan
Malaysia Shipyard & Engineering
Talisman
Hyundai Heavy Industries



International Sales

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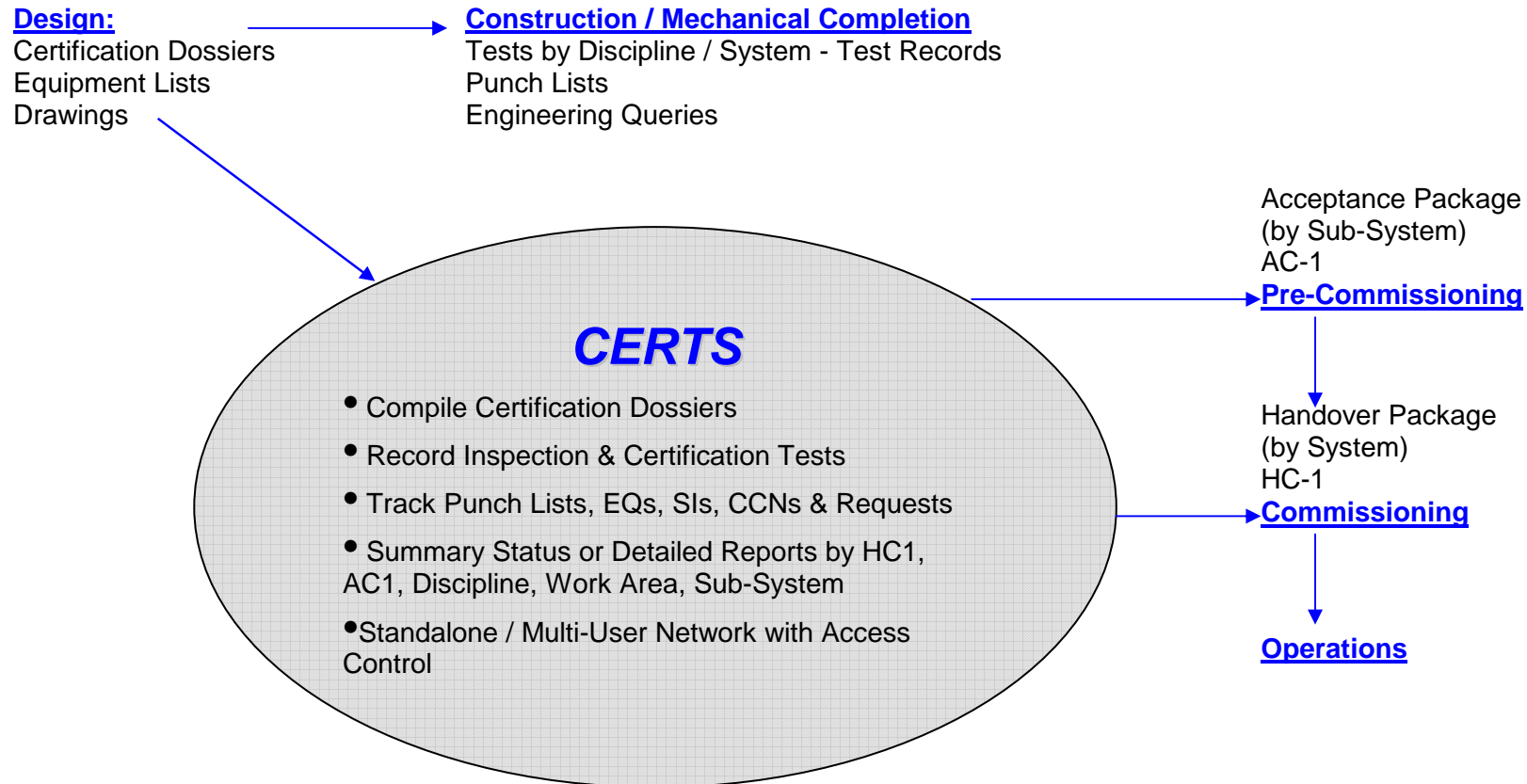
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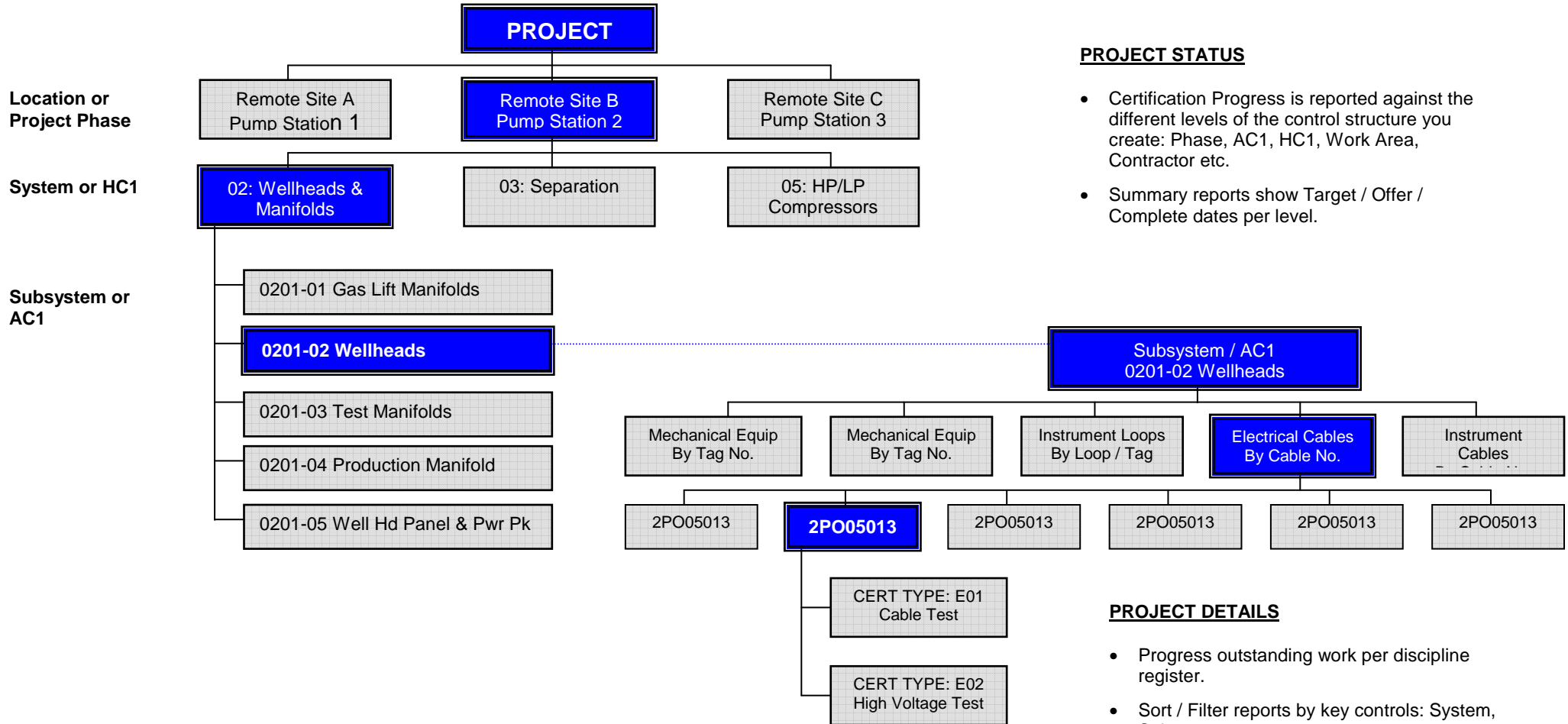
Web

www.kildrummy.com

Application of *WinCERTS* in a typical Project Certification Flowchart



WinCERTS typical data structures



PROJECT STATUS

- Certification Progress is reported against the different levels of the control structure you create: Phase, AC1, HC1, Work Area, Contractor etc.
- Summary reports show Target / Offer / Complete dates per level.

PROJECT DETAILS

- Progress outstanding work per discipline register.
- Sort / Filter reports by key controls: System, Sub-system etc.
- Filter on Certificate Types and Complete / Incomplete work.

Typical Data Entry Screen – Discipline Registers and associated Certificates

Main Project Screen

Access to project :

- **Libraries** of Line Lists, Categories, Certificate Types etc.
- Define the required **Discipline Registers**.
- Set-up your own control / report **Structures**.
- Manage associated engineering **Queries**: Eqs, punch lists and more.
- Build your own library of management status and detailed **Reports**. Reports

The screenshot displays the WinCERTS software interface. The main window is titled 'Project - Fishdale Major Revamp Project' and contains a 'Libraries' pane on the left with a list of disciplines: EE (Electrical Equipment), FL (Fire & Gas Loop), FP (Fireproofing), HV (Heating, Ventilation and Air Conditioning), IC (Instrument Cable), IF (Instrument/Fire and Gas Main Equipment), IL (Instrument Loop), LC (Loss Control), ME (Mechanical Equipment), NP (Non-piping Painting, Coating and Insulation), PC (Piping Painting, Coating and Insulation), PI (Piping), PM (Piping Isometrics), SS (Structural Steel), TE (Telecommunications), and TH (Trace Heating). The 'Certificates' window is open, showing a table of certificates with columns for Type, Code, Date, and Status. The 'Electrical Equipment' window is also open, showing a table of equipment with columns for Tag Number, Rev, Subsystem, Work Area, Remark, and Description.

Type	Code	Date	Status
E-20			0
E-19	EE-00006	12/06/98	1
E-04			0
E-04	CIRCUIT BREAK		
E-05	CONTACTOR ST.		
E-06	FUSE SWITCH T		
E-07	POWER TRANSF		
E-08	ELECTRIC MOTC		
E-09	BATTERY & BAT		
E-10	UPS TEST CERT		

Tag Number	Rev	Subsystem	Work Area	Remark	Description
MT3/3.3/3/L3		40/03/01	PP	DWG: 94113-01	3.3KV FEEDER TO MT 3.3/440V TX (CUB L3
MT3/3.3/3/LR		40/02/01	PP	DWG: 94113-01	3.3KV SWBD CENTR SECTION SWITCH (CU
MT3/3.3/3/R1		40/02/01	PP	DWG: 94113-01	3.3KV SWBD INCOM FROM MT3/T/1 (CUB I
MT3/3.3/3/R3		40/03/01	PP	DWG: 94113-01	3.3KV FEEDER TO MT 3.3/440V TX (CUB R3
MT3/440/1		40/03/01	PP	DWG: 94115-01	440V SWITCHBOARD BUSBARS

Electrical Equipment Certificates

Cert requirements by Type for selected electrical tag number. Certificate Number, Completion Date and Status.

Electrical Equipment Register

Details by Tag No including link into reporting structures: System / Subsystem & Work Area

Report Options - Detailed

The screenshot shows the WinCERTS software interface. The main window is titled 'Certs' and has a menu bar with 'File', 'Register', 'Security', 'View', and 'Help'. The project name is 'Project - Fishdale Major Revamp Project'. The 'Report on - Electrical Equipment' dialog box is open, showing the following settings:

- Table Type: report
- Report Code: R3
- Icon: 3
- Register: EE - Electrical Equipment
- Report Name: Electrical Equipment Report by System (23)
- Filter for Tag Number: BM-*
- Filter for Punch Numbers: *
- Filter for Certificate Types: *
- Filter for Status: 0
- Against Structure: S1 - System/Subsystem
- Filter for System: 23
- Show System: Yes
- Filter for Subsystem: *
- Show Subsystem: No

Below the dialog box, a table titled 'Electrical Equipment' is displayed with the following data:

Tag Number	Revision	Subsystem	Work Area	Remark	Description
43-MRV-203		40/04/05	VH	DWG: 94210-01	LANDFALL VALVE (BERTH 2) EXISTING
43-MRV-435		40/04/05	VH	DWG: 94210-01	LANDFALL VALVE (BERTH 1) EXISTING
43-PLC-10F		00/00	PP	DWG: 94119-02	F & G/PIS SYSTEM CAB ACHLTG
43-PLC-0F		00/00	PP	DWG: 94119-02	F & G/PIS SYSTEM CAB ACHLTG

The status bar at the bottom indicates 'Electrical Equipment 11 / 331'.

Typical Discipline Register Report

Electrical Equipment

- You can **create standard project reports** for each discipline to list the certification requirements per item (tag, cable, loop etc.) within the parameters indicated below:
- Filters** on a range of Tag Numbers and Certificate Types.
- Select** only complete or outstanding work, or both.
- Filter / Sort the report by any of the elements within the key control / report **Structures**. System, Subsystem, Work Area, Contractor etc etc.
- Run** the report / **Save** the report selections for future use.
- Output** to printer or export report data to file.

Report Options – Management Summary

The screenshot displays the WinCERTS software interface. The main window is titled 'Certs' and contains a menu bar with 'File', 'Register', 'Security', 'View', and 'Help'. Below the menu bar, there are several toolbars and panes. The 'Project - Fishdale Major Revamp Project' pane shows a list of reports with a context menu open over 'S2', offering options like 'Prepare Report...', 'Preview Report...', 'Add New Status Report', and 'Delete Report'. The 'Report on - Fishdale Major Revamp Project' pane shows configuration options for a report, including 'Table Type' (report), 'Report Code' (S2), 'Report Name' (Overall Status Report By System / Subsystem), 'Register' (PRJ - Fishdale Major Revamp Pr), 'Include Filter for Certificate' (*), 'Exclude Filter for Certificate' (), 'Show Type' (No), 'Show Disciplines' (No), 'Certificates report style' (All), 'Against Structure' (S1 - System/Subsystem), 'Filter for System' (23), 'Show System' (Yes), 'Filter for Subsystem' (*), and 'Show Subsystem' (Yes). At the bottom, there are two data tables: 'Instrument Loops' and 'Instrument Loop'.

Loop Number	Description
43H3535	H-510 STRIPPER REBOILER
43H3536	STRIPPER REBOILER CO2 SNUFFING
43H3537	STRIPPER REBOILER CO2 SNUFFING

Tag Number	Rev	Subsystem	Work Area	Remark	Description
43-HC-3535	00/00	DAL			SCADA
43-HS-3535	00/00	DAL			HIPS
43-HV-3535	00/00	DAL			PRE-CAL
43-HY-3535A	00/00	DAL			PRE-CAL

Typical Status Report

Overall Status Report by System / Subsystem

- You can **create standard project status reports** to suit commissioning management requirements.
- **Filters** on a range Certificate Types and **Select** only complete or outstanding work, or both.
- Filter the report by any of the elements within the key report **Structures**.
- Select the required **Levels of Details** for the report: System, Subsystem, Discipline, Cert Type.
- **Run** the report / **Save** the report selections for future use.
- **Output** to printer or export report data to file.