

CPC Update - Version 2016.3.13

This topic sheet explains the updates made to CPC on March 13, 2016.

Table of Contents

Reporting System	2
Bug fix: Generate report to text file	2
Quality Card Screen	2
Redesign of screen	2
Screen_Grid object.....	5
StartObject change	5
Timers object	5

Reporting System

Bug fix: Generate report to text file

The “Generate” method of the DataAnalyze object was improved last year to be able to export the generated reports to a specific text file. Unfortunately, due to a font-size issue, when the report was exported, there was some information that was not stored to the text file. This included some part fields and some other attachment information.

This bug has now been fixed. The Generate method when coupled with the Export function will now write all information to the text file.

Quality Card Screen

Redesign of screen

The Quality Card editing screen was previously sized and formatted for smaller screens and lower resolutions than are currently the standard on most computer systems. The screen has now been reorganized and reformatted to include the following improvements:

- Larger quantity of listed cards.
- List box is larger to see longer card names
- Phase information separated from general card information
- Reorganization of Pressure, Air Temp, Part Temperature, and Vacuum information.

Quality Card Management

Quality Cards

Add Copy Delete

Insert Paste Print

BAC5317-1/4_45P_355D_10V
DAVE
TCTIMES
LMSW #1
LMSW #2
NEW CARD
LOCKHEED TEST
TROUING
BAC5317-1/4_45P_355D_10VX
BAC5317-1_85P_355D_FULLV
BAC5317-25_45P_260D_10V
BAC5317-3_77P_P
BAC5317-3_STANDARD REV1
BAC5317 95P 355D FULLV
TEST
VR10AR001 WIDE BAND 95 PSI CURE
Triumph_7115060-44
Triumph_8718110-16
5PTPL11-31131/22ZP00002/43

Load Cards from Storage

Save Cards to Storage

Storage Location:
C:\Quality Cards

Quality Card Information

Card Title
BAC5317-1/4_45P_355D_10VX

Specification
BAC5317-1/4_45P_355D_10V

Last Revised
10/15/2009 11:51:52 AM

Card-to-Datfile or Card-To-Part Matching

Recipe for Card Match
BAC5317-1/4_45P_355D_10V

Part Field for Card Match

Part Field Value for Card Match
CESSNA

Global Analysis & Settings for this Card

Global Max Air Temp Global Max Pressure

Global Max TC Spread Global Max Probe Values

Rate Calc Interval 5 Rate Calc Advance

Min Active Part TC Qty Per Part

List of Part TCs to disregard (ie. 1,4,8)

Remote storage of quality cards

Filename for Storage
BAC5317-1_4_45P_355D_10VX.QCD

Current Card's Storage Date
12/1/2007 12:31:18 PM

Refresh Card from Storage

Save Card to Storage

Phase Selection

Add Copy Delete

Insert Paste

PRESSURIZE TO 20 PSI
Pressurize to 45 Psi
Ramp and Soak
Temperature Ramp Down

Phase Information

Phase Title
PRESSURIZE TO 20 PSI

Phase Change on MinProbe Criteria >-1

Phase-change Delay

Elapsed Time in Phase (Mins)

Min Max

Pressure Analysis in Phase

Style Ramp

Section Title
Pressurize to 20 Psi

Pressure Rate Pressure at Phase Start Pressure at Phase End

Min Max Min Max Min Max

Air Temperature Analysis in Phase

Style None

Section Title
Air Temperature

Air Temperature

Min Max

Part Temperature Analysis in Phase

Style Section Title Soak Complete at Control by

Part Temperatures (deg) Part Temp Rates (deg/min) Temperature Range

Min Max Rate Analysis Range 1 Min Max Low High

Soak Time (Mins) Rate Analysis Range 2 Min Max Low High

Rate Analysis Range 3 Min Max Low High

Vacuum Probe Analysis in Phase

Style Header

Ramp A

Section Title (A)
Vent Vacuum when pressure is 10-20 Psi

Probe values at Phase Start (A) Probe values at Phase End (A)

Min Max Min Max

Alternate Time-Based Rate Analysis

Time (Mins) Temp Range (deg)

Min Max Low High

Additional Temperature Analysis Settings

Max Part TC Spread

Min Active Thermocouple Qty

Use Avg of Part TC Temps

Cooling Phase Invert Rates

Here is the general card information section:

Quality Cards	Quality Card Information
Add Copy Delete Insert Paste Print BAC5317-1/4_45P_355D_10V DAVE TCTIMES LMSW #1 LMSW #2 NEW CARD LOCKHEED TEST TRAINING BAC5317-1/4_45P_355D_10VX BAC5317-1_85P_355D_FULLV BAC5317-2/5_45P_260D_10V BAC5317-3_777_P BAC5317-3_STANDARD REV1 BAC 5137 95P 355D FULLV TEST VR10AR001 WIDE BAND 95 PSI CURE Triumph_7115060-44 Triumph_8718110-16 5PTPLL11-31131//2ZZP00002/43 Load Cards from Storage Save Cards to Storage Storage Location: c:\Quality Cards	Card Title BAC5317-1/4_45P_355D_10VX Specification BAC5317-1/4_45P_355D_10V Last Revised 10/15/2009 11:51:52 AM Card-to-Datafile or Card-To-Part Matching Recipe for Card Match BAC5317-1/4_45P_355D_10V Part Field for Card Match Part Field Value for Card Match CESSNA Global Analysis & Settings for this Card Global Max Air Temp Global Max Pressure Global Max TC Spread Global Max Probe Values Rate Calc. Interval 5 Rate Calc. Advance Min Active Part TC Qty Per Part List of Part TCs to disregard (ie. 1,4,8) Remote storage of quality cards Filename for Storage BAC5317-1_4_45P_355D_10VX.QCD Current Card's Storage Date 12/1/2007 12:31:18 PM Refresh Card from Storage Save Card to Storage

Here is the phase information section.

Phase Selection	Pressure Analysis in Phase	Air Temperature Analysis in Phase																									
Add Copy Delete Insert Paste PRESSURIZE TO 20 PSI Pressurize to 45 Psi Ramp and Soak Temperature Ramp Down	Style Ramp Section Title Pressurize to 20 Psi Pressure Rate Min Max Pressure at Phase Start Min -1 Max 5 Pressure at Phase End Min 10 Max 20	Style None Section Title Air Temperature Air Temperature Min Max 400																									
Phase Information Phase Title PRESSURIZE TO 20 PSI Phase Change on.. MinProbe Criteria >-1 Phase-change Delay Elapsed Time in Phase (Mins) Min Max	Part Temperature Analysis in Phase Style Section Title Soak Complete at.. Control by.. <table border="1"> <thead> <tr> <th>Part Temperatures (deg)</th> <th>Part Temp Rates (deg/min)</th> <th>Temperature Range</th> <th>Alternate Time-Based Rate Analysis</th> <th>Additional Temperature Analysis Settings</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Time (Mins)</th> <th>Temp Range (deg)</th> </tr> </thead> <tbody> <tr> <td> Min Max </td> <td> Rate Analysis Range 1 Min Max </td> <td> Low High </td> <td> Min Max </td> <td> Low High </td> </tr> <tr> <td> Soak Time (Mins) Min Max </td> <td> Rate Analysis Range 2 Min Max </td> <td> Low High </td> <td></td> <td></td> </tr> <tr> <td></td> <td> Rate Analysis Range 3 Min Max </td> <td> Low High </td> <td></td> <td></td> </tr> </tbody> </table> Max Part TC Spread Min Active Thermocouple Qty ☐ Use Avg of Part TC Temps ☐ Cooling Phase Invert Rates		Part Temperatures (deg)	Part Temp Rates (deg/min)	Temperature Range	Alternate Time-Based Rate Analysis	Additional Temperature Analysis Settings				Time (Mins)	Temp Range (deg)	Min Max	Rate Analysis Range 1 Min Max	Low High	Min Max	Low High	Soak Time (Mins) Min Max	Rate Analysis Range 2 Min Max	Low High				Rate Analysis Range 3 Min Max	Low High		
Part Temperatures (deg)	Part Temp Rates (deg/min)	Temperature Range	Alternate Time-Based Rate Analysis	Additional Temperature Analysis Settings																							
			Time (Mins)	Temp Range (deg)																							
Min Max	Rate Analysis Range 1 Min Max	Low High	Min Max	Low High																							
Soak Time (Mins) Min Max	Rate Analysis Range 2 Min Max	Low High																									
	Rate Analysis Range 3 Min Max	Low High																									
	Vacuum Probe Analysis in Phase Style Ramp Header A Section Title (A) Vent Vacuum when pressure is 10-20 Psi Probe values at Phase Start (A) Min -12 Max -8 Probe values at Phase End (A) Min -1 Max 5																										

Screen_Grid object

StartObject change

The StartObject property has been changed. The previous version allowed you to target a starting object by name only. The new change allows you to use the index number of the child as a starting object. This new change is used when you have multiple grid objects visualizing a long list of children (ie. Alarm objects).

The screenshot displays three grids of alarm objects. The first grid on the left has a red arrow pointing to the '51' index. The second grid in the middle has a red arrow pointing to the '101' index. The third grid on the right shows a list of alarm objects. A property editor window is open on the right, showing the 'StartObject' property set to '51'. A red arrow points to this value. Below the property editor, a text box explains the 'StartObject' property: 'StartObject (property) Units: Name of starting object or index (ie. 23) If entered, this will denote the starting object for the grid. You can identify the starting object by name or by index.'

Timers object

This object has been changed so that when the Calculate method is executed, the Timers object will also execute and child Timers object's Calculate method.

The screenshot shows the CPC Object Editor interface. The 'Timers' object is selected in the tree view. A red arrow points to the 'Calculate' method of the 'Timers' object. Another red arrow points to the 'Calculate' method of the 'MainFanTMR' child object. A text box explains: 'Running this object's Calculate method' and 'Will also execute this child's method'.