QA code 3

The third QA code, F\_Input time stamp, is intended allow a post upload check that a model has been calculated between F\_Input and F\_Output. This works by directly referencing cell F\_Inputs!$E$1, which is the F\_Inputs timestamp. This will then be uploaded against the QA3 boncode. Since the reference to the F\_Inputs sheet is considered to be a calculation by Excel, it can only be updated to reflect a new timestamp by recalculating the entire workbook. This means that if the QA code value on Fountain does not match the timestamp on the F\_Input sheet, the workbook cant have been calculated. If the QA code value does match the timestamp then this suggests that the model was recalculated.

This QA is not "foolproof". It's possible to fake the value by manually recalculating just the QA code and not the entire model, or by not setting up the QA code correctly.

Test steps – control scenario

1. Use tidal to populate the F\_Input sheet for Model 1 and download and save the populated Model 1 provided by tidal.
2. Open Model 1 and fully recalculate the model using CTRL+ALT+F9 and save the file.
3. Use tidal to send the F\_Output sheet of the populated Model 1.

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| Test case | User step | Expected outcome | Outcome |
| TC-control | Step 1 - Use tidal to populate the F\_Input sheet for "Model1 linked" and download and save the populated Model 1 provided by tidal as "Model1\_FIN".  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | "Model1 linked" is populated with test data and saved as "Model1\_FIN" |  |
| Step 2 - Open "Model1\_FIN" and fully recalculate the model using CTRL+A:T+F9 | Model1\_FIN is fully calculated |  |
| Step 3 - Use tidal to send the F\_Output sheet of the "Model1\_FIN". Save the new file as "Model1\_FOUT"  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | Calculated outputs from Model 1 uploaded to Fountain test |  |
| Repeat steps 1 -3 for "Model2 linked" and "Model3 linked" (in that order)  Use "ANH" for the company and "PR24 Test for the run" | Model2 and Model3 are run and fully populated version saved. |  |
| Step 4 - Compare the values for the QA3 codes in Fountain ([report 20214](https://fountaintest001/Fountain/jsp/protected/reportDisplay.page?reportId=20214)) to the F\_Inputs timestamps for the respective models "Model1\_FOUT", "Model2\_FOUT" and "Model3\_FOUT" | Timestamps saved under the QA3 codes should correspond to the timestamps on the F\_Inputs sheet for the respective model. |  |
| TC01 | Step 1 - Use tidal to populate the F\_Input sheet for "Model1 linked" and download and save the populated Model 1 provided by tidal as "Model1\_FIN".  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | "Model1 linked" is populated with test data and saved as "Model1\_FIN" |  |
| Step 2 - Open "Model1\_FIN" and fully recalculate the model using CTRL+A:T+F9 | Model1\_FIN is fully calculated |  |
| Step 3 - Use tidal to send the F\_Output sheet of the "Model1\_FIN". Save the new file as "Model1\_FOUT"  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | Calculated outputs from Model 1 uploaded to Fountain test |  |
| Repeat steps 1 and 3 for "Model 2 linked" **(Do not carry out step 2).** Carry out steps 1-3 for "Model3 linked".  Use "ANH" for the company and "PR24 Test for the run" | Model2 is populated with input data and outputs and exported but no calculations are carried out. This will be visible in "Model3\_OUT". Model3 is run and fully populated version saved. |  |
| Step 4 - Compare the values for the QA3 codes in Fountain ([report 20214](https://fountaintest001/Fountain/jsp/protected/reportDisplay.page?reportId=20214)) to the F\_Inputs timestamps for the respective models "Model1\_FOUT", "Model2\_FOUT" and "Model3\_FOUT" | Timestamps saved under the QA3 codes should correspond to the timestamps on the F\_Inputs sheet for Model1 and Model3. Model2 should show a discrepancy. |  |
| TC02 | Step 1 - Use tidal to populate the F\_Input sheet for "Model1 linked" and download and save the populated Model 1 provided by tidal as "Model1\_FIN".  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | "Model1 linked" is populated with test data and saved as "Model1\_FIN" |  |
| Step 2 - Open "Model1\_FIN" and fully recalculate the model using CTRL+A:T+F9 | Model1\_FIN is fully calculated |  |
| Step 3 - Use tidal to send the F\_Output sheet of the "Model1\_FIN". Save the new file as "Model1\_FOUT"  Use "Fountain Test" as the server, "ANH" for the company and "PR24 Test Run" for the run | Calculated outputs from Model 1 uploaded to Fountain test |  |
| Repeat steps 1 and 3 for "Model2 linked" **(Do not carry out step 2).** Carry out steps 1-3 for "Model3 linked".  Use "ANH" for the company and "PR24 Test for the run" | Model2 is populated with input data and outputs and exported but no calculations are carried out. This will be visible in "Model3\_FOUT". Model3 is run and fully populated version saved. |  |
| Step 4 – Open Model2\_FOUT, press CTRL+ALT+F9 and save the file. | Model2\_FOUT is calculated correctly but doesn't match Fountain. |  |
| Step 5 - Compare the values for the QA3 codes in Fountain ([report 20214](https://fountaintest001/Fountain/jsp/protected/reportDisplay.page?reportId=20214)) to the F\_Inputs timestamps for the respective models "Model1\_FOUT", "Model2\_FOUT" and "Model3\_FOUT" | Timestamps saved under the QA3 codes should correspond to the timestamps on the F\_Inputs sheet for Model1 and Model3. Model2 should show a discrepancy. |  |
| TC03 | Run all 3 linked models (in numerical order) but skip the calculation step for 1 or more models (testers choice) | 3 "Modelx\_FOUT" will be created and will be populated with inputs, and outputs uploaded. Some of these models won't be calculated. |  |
| Tell Hanif the run used and see if he can find which model(s) have not been calculated before being uploaded to Fountain. | Hanif will find which models haven't been calculated and will be smug about it. |  |
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