



Assumption Change Control Sheet

Test	5a, 5b. DHW response time
Assumption	31. DHW flow rate

Change Originator	Valeria Khnykina
Change Request No.	030
Date of Request	13/5/20
Proposed Change to Assumption?	Y

Proposed Approach

Proposed approach is to reduce hot water flowrate for tests 5a/5b DHW response time from the current 0.13 l/s to 0.1 l/s to reflect the changes in flowrate at water taps.

Rationale (underlying basis for assumption)

Current design standards (NHBC, BS 806-3 etc.) for hot water outlets have reduced flow rate values, due to water saving measures. To mirror current requirements, the flow rate should be reduced.

The value is proposed to be taken as a wash-basin flowrate at HIU calculated for the hot water supply proportion. It should be noted that the wash-basin tap is the most likely outlet to be utilized more often than other outlets.

Impact of Change (e.g. implications for test rig)

Reduced 5a/5b test flow rate will potentially result in faster DHW response time due to reduced power requirement for heating up less water. Some HIUs might struggle with control temperature stability at the reduced water flow rate.

CHANGE EVALUATION

Date Evaluated	19/5/20
Additional Information Required?	N
Modification to Proposed Approach?	N
Details	
Signed-off	Y