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**Assumption Change Control Sheet**

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

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

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| 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 is 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. |

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