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**Assumption Change Control Sheet**

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| **Test** | 5a – 5b, DHW response time |
| **Assumption** | 34. Assessment of whether keep warm cycling behaviour has impact on DHW response time |

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| Change Originator | Tom Naughton |
| **Change Request No.** | 021 |
| Date of Request | 23/07/2020 |
| Proposed Change to Assumption? | **Yes** |

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| **Proposed Approach**  Change the definition of minimum time between keep warm cycles for an HIU to be considered as having a “pulse” keep-warm from 10 minutes to 5 mins. |
| **Rationale (underlying basis for assumption)**  When an HIU has a “pulsed” keep-warm function (i.e. the DHW plate heat exchanger temperature is maintained with on/off primary valve control instead of a constant flow), if the frequency between pulses is sufficiently long then consideration needs to be given as to when the DHW test is carried out as it will have a substantial impact on the DHW response time. This is detailed in assumption 35.  10 minutes was chosen based on tests carried out in the original six SBRI HIU tests. |
| **Impact of Change (e.g. implications for test rig)**  N/A |

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| CHANGE EVALUATION | |
| Date Evaluated | 23/07/2020 |
| Additional Information Required? | N |
| Modification to Proposed Approach? | N |
| Details | |
| Signed-off | Y |