



## Assumption Change Control Sheet

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

Change Originator	Tom Naughton
<b>Change Request No.</b>	021
Date of Request	23/07/2020
Proposed Change to Assumption?	<b>Yes</b>

### 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

### CHANGE EVALUATION

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