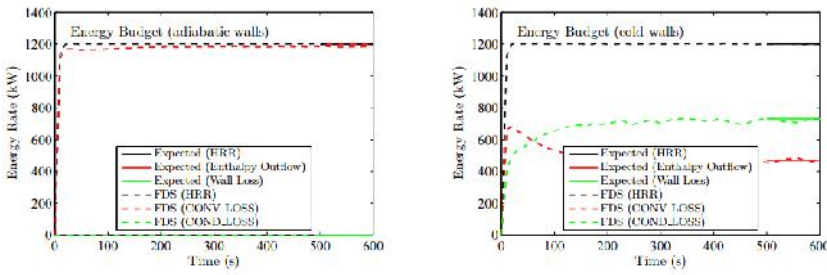


*Support to Safety Analysis of Hydrogen and Fuel Cell Technologies*

<b>Verification type</b>	Code Verification
<b>Database reference</b>	CV-2
<b>Topic / Application</b>	Code Verification Mass balance
<b>Physics</b>	Fires Energy conservation
<b>Summary</b>	Verifying that the basic FDS algorithm is energy conserving
<b>Description</b>	This simple test case is to ensure that the heat added to a flowfield (via a fire with a Heat Release Rate), equals the increase in temperature – with adiabatic walls.
<b>Case Title</b>	The Heat from a Fire (energy_budget)
<b>Authors</b>	Randall McDermott, Kevin McGrattan, Simo Hostikka, Jason Floyd
<b>Year</b>	2010
<b>Online reference</b>	NIST Special Publication 1018-5
<b>Case image</b>	 <p>Example of the energy budget balance from FDS test case.</p>
<b>Governing equations</b>	Refer to document.
<b>Results</b>	