

PART I - DESCRIPTION

WBS Number: 1.2.3	Title: Thermal insulation
Originator: B. Nelson	
<u>Description</u>	
<u>General Description of Work to be Performed:</u>	
<p>The vessel will be baked to 150°C and operate at 20°C. The vessel is insulated on its exterior surface to provide thermal isolation from the modular coils, which operate at cryogenic temperature. The insulation consists of a layer of high temperature (eg, microtherm) bat and a layer of polyimide foam (eg, solomide). In conceptual design, the insulation thickness will be increased where space allows, substantially reducing the conductive heat loss.</p>	
<i>Design</i>	
<p>All drawings required for the thermal insulation are provided, including design drawings for the press tooling.</p>	
<i>R&D</i>	
<p>None</p>	
<i>Materials and Subcontracts</i>	
<p>All insulation blanket fabrication is assumed to be performed by one or more industrial subcontractors via a fixed price or cost plus award fee contract.</p>	
<i>Fabrication and Assembly</i>	
<p>No in-house fabrication or assembly of the insulation blankets is expected or included.</p>	
<i>Installation and Testing</i>	
<p>All installation and testing is included in WBS 7</p>	
<u>Description of Existing Equipment/Facilities to be Reused:</u>	
<p>None</p>	
<u>Description of Major Modifications Required to Existing Equipment/Facilities:</u>	
<p>None</p>	