

Questions and Answers #2 for Solicitation #NNC11359052R – Stitching and Weaving of Ceramic Materials

1. The ends and picks that are listed in Table 1: Weave architectures. Are this total ends and picks or ends and picks per layer. Specifically referring to the 1.5D, Double and 2.5D architectures.'

THESE ARE ENDS PER INCH, CORRESPONDING WITH NUMBER OF CELL LOCATIONS SHOWN ON HORIZONTAL AXIS PER INCH.

2. Re: Area 2 Tasks:

Is it planned to have the coupons quilted? If so, on what centers (i.e. quilting pattern size)?

UNDER AREA 2, A NUMBER OF LAYERS OF DIFFERENT MATERIAL TYPES, WHICH CAN INCLUDE CERAMIC FABRIC, AEROGEL BATTING AND/OR FILMS, AND KAPTON FILM ARE STITCHED (OR QUILTED) TOGETHER. THE STITCHING PATTERN WOULD NEED TO BE DEVELOPED IN CONSULTATION WITH THE GOVERNMENT.

3. Re: Area 3 Task:

What density is required of the produced preform? Is the insulation batting material to be provided by the government? Will any binder/sizing material needed be provided by the government?

IN AREA 3, THE INSULATION MATERIAL OR FIBER WOULD BE PROVIDED BY THE GOVERNMENT. USE OF BINDERS WOULD NEED TO BE DETERMINED. THIS IS A DEVELOPMENTAL EFFORT WHICH MIGHT REQUIRE A FEW ITERATIONS.