



NCAMP Authorized Engineering Representative (AER) Qualification Plan

NCAMP Document No.: NQP 200 Rev B

Minimum Requirements:

1. The candidate must have sufficient command of the English language, both oral and written.
2. The applicant must possess a high degree of integrity, sound judgment, and a cooperative attitude.
3. The applicant must have the ability to maintain the highest degree of objectivity while performing authorized functions.
4. The candidate has been in a responsible position in connection with advanced material qualification and material property acquisition type of work and is cognizant of related technical requirements and problems related to aerospace applications.
5. The candidate has basic engineering knowledge in aircraft structures, materials, processes, and material testing, as demonstrated by a minimum of 6 years of progressively responsible engineering experience beyond a bachelor of engineering degree, or equivalent.

AER Qualification Process:

1. Minimum requirements listed in the previous section must be met.
2. Submit the completed NCAMP AER Application Form to NCAMP. In order to become an AER, the candidate must have knowledge in and able to perform the engineering tasks outlined in the form (candidates who do not possess knowledge in all the areas may be guided by a qualified AER or NCAMP staff)
3. The candidates' application will be reviewed by the NCAMP Manufacturers Advisory Board (MAB), which consists of original equipment manufacturers and Tier-1 suppliers. The NCAMP MAB may interview the candidates. At least one NCAMP MAB member must respond to the application, at least 75% of those who responded must concur with the appointment. The NCAMP MAB's responses to NCAMP staff will be confidential.
4. Consultant NCAMP AER (non-direct employees) must have a Terms and Conditions Agreement with NCAMP/NIAR/Wichita State University.
<https://www.niar.wichita.edu/media/Terms.pdf>

Note. Individuals who have been performing the functions of an NCAMP AER prior to December 2008 are automatically considered a qualified AER

NCAMP Authorized Engineering Representative (AER) Application Form

First Name	Middle Initial	Last Name
Street Address	City	State
Home Phone	Work Phone	Mobile Phone
Email		

EDUCATION	DEGREE or Credit Hours

WORK EXPERIENCE	START/END DATES

Do you have knowledge and experience in the following?	
I. Preparing or reviewing material qualification test plans? <i>If yes, please elaborate:</i> _____ _____ _____	Yes/No
II. Preparing or reviewing material allowable test plans? <i>If yes, please elaborate:</i> _____ _____ _____	Yes/No

<p>III. Preparing or reviewing material specifications? <i>If yes, please elaborate:</i></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Yes/No</p>
<p>IV. Preparing or reviewing process specifications? <i>If yes, please elaborate:</i></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Yes/No</p>
<p>V. Are you familiar with the following test methods, particularly with issues related to test interferences, apparatus, specimen preparation, equipment calibration, environmental conditioning, hot/cold testing, test procedures, failure modes identification, and specimen/data obviation?</p>	
<p>a. ASTM D2344 – Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates.</p>	<p>Yes/No</p>
<p>b. ASTM D3039 – Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials.</p>	<p>Yes/No</p>
<p>c. ASTM D3518 – Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a ± 45° Laminate In-Plane Shear Strength and Modulus.</p>	<p>Yes/No</p>
<p>d. ASTM D5766 – Standard Test Method for Open Hole Tensile Strength of Polymer Matrix Composite Laminates.</p>	<p>Yes/No</p>
<p>e. ASTM D5961 – Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates.</p>	<p>Yes/No</p>
<p>f. ASTM D6415 – Standard Test Method for Measuring the Curved Beam Strength of a Fiber-Reinforced Polymer-Matrix Composite.</p>	<p>Yes/No</p>
<p>g. ASTM D6484 – Standard Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates.</p>	<p>Yes/No</p>
<p>h. ASTM D6641 – Standard Test Method for Determining the Compressive Properties of Polymer Matrix Composite Laminates Using a Combined Loading Compression (CLC) Test Fixture.</p>	<p>Yes/No</p>
<p>i. ASTM D6742 – Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates.</p>	<p>Yes/No</p>
<p>j. ASTM D7136 – Standard Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event.</p>	<p>Yes/No</p>
<p>k. ASTM D7137 – Standard Test Method for Compressive Residual Strength Properties of Damaged Polymer Matrix Composite Plates.</p>	<p>Yes/No</p>
<p><i>If you answered yes to any of the above questions, please elaborate:</i></p> <p>_____</p> <p>_____</p> <p>_____</p>	

Please provide three verifiable technical references:

Please provide any additional relevant information here:

Comments by NCAMP (for office use only):
