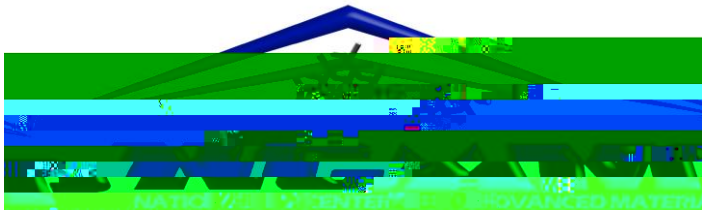

NC

C

AIR Qualification Process:

1. Minimum requirements listed in the previous page must be met.
2. Select the applicable section of this NCAMP AIR Application Form

1.B. For Lamina and Laminate Test Specimen Inspection Verification:

Do you have knowledge in and able to perform the following inspection activities?

I. Verify that NCAMP Form 168-1 for the panel fabrication process has been completed.

II. For test specimen inspection verification, verify that the specimen dimen are in accordance with the drawings in the test plan (or the test methods

Please provide three verifiable technical references:

Please provide any additional relevant information here:

Comments by NCAMP (for office use only):

Section 2: For Additive Manufacturing Materials

NCAMP Authorized Inspection Representative (AIR) Application Form

First Name	Middle Initial	Last Name
Street Address	CW* n94	

VII.	Check to see that materials are protected in sealed bags, have followed specified handling procedures to avoid condensation before use, and tha bags are resealed and water tight before placing back into storage.	Yes/No
VIII.	Verify that coupon build orientation and thickness are per test plan	Yes/No
IX.	Verify that thermocouple placement is in accordance with the governing process specification guidelines.	Yes/No
X.	Review plan for build location and orientation and verify operations completed satisfactorily and accepted by Quality Assurance and/or Engineering.	Yes/No
XI.	Verify that material mechanical and handling out times were not exceed prior to build.	Yes/No
XII.	Verify Time/Temperature/Pressure meet the governing process specifica requirements	Yes/No
XIII.	Verify NDI requirements called for in the governing process specification have been accomplished satisfactorily.	Yes/No
XIV.	, Q V S H F W W K H F R X S R Q V W R Y H U L I \ F R X S R C naming requirements.	Yes/No
XV.	Review and verify Quality Assurance and/or Engineering has accepted th coupons	Yes/No
XVI.	Review any MRA/MRB documents for engineering acceptance, includin NCAMP AER concurrence when necessary.	Yes/No
XVII.	Verify personnel qualification as applicable.	Yes/No
XVIII.	Verify that the measuring instruments such as temperature, pressure, ar vacuum transducers are calibrated.	Yes/No

2.B. For Test Specimen Inspection Verification:	
Do you have knowledge in and able to perform the following inspection activities?	
I. Verify that NCAMP Form 168-1 for the specimen fabrication process has been completed.	Yes/No
II. For test specimen inspection verification, verify that the specimen dimensions are in accordance with the drawings in the test plan (or the test method called out by the test plan). At minimum, QA must have inspected at least one specimen per test method for all the dimensions specified in the drawing such as perpendicularity, parallelism, hole size and location, etc. (this assumes that all the specimens are processed at the same time using the same jig setup and technician). In addition, NCAMP AIR should physically measure selected dimensions of representative specimens at a frequency at his/her discretion.	Yes/No
III. When specimen dimensions fail to meet one or more of the drawing requirements, review any MRA/MRB documents for engineering acceptance including NCAMP AER concurrence when necessary.	Yes/No
IV. When conducting specimen inspection verification per item (II), the following test methods are typically used:	Yes/No
a. ASTM D638 – Standard Test Method for Tensile Properties of Plastics	Yes/No
b. ASTM D790 – Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Yes/No
c. ASTM D695 – Standard Test Method for Compressive Properties of Rigid Plastics	Yes/No
d. ISO 15310 – Fibre-reinforced plastic composites – Determination of the in-plane shear modulus by the plate twist method	Yes/No
e. ASTM D5766 – Standard Test Method for Open Hole Tensile Strength of Polymer Matrix Composite Laminates	Yes/No
f. ASTM D5961 – Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates	Yes/No
g. ASTM D6415 – Standard Test Method for Measuring the Curved Beam Strength of a Fiber-Reinforced Polymer-Matrix Composite	Yes/No
h. ASTM D6484 – Standard Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates	Yes/No
i. ASTM D6641 – Standard Test Method for Determining the Compressive Properties of Polymer Matrix Composite Laminates Using a Combined Loading Compression (CLC) Test Fixture	Yes/No
j. ASTM D6742 – Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates	Yes/No
k. ASTM D256 – Standard Test Methods for Determining the IZOD Pendulum Impact Resistance of Plastics	Yes/No

Please provide three verifiable technical references:

Please provide any additional relevant information here:

Comments by NCAMP (for office use only):

VII.	Check to see that refrigerated materials are protected in sealed bags, have followed specified handling procedures, and that the bags are resealed a water tight before being placed back into the refrigerator	Yes/No
VIII.	Verify that the tool used matches that required to produce the part speci the test plan All the tools should be flat	Yes/No
IX.		

3.B. For Lamina and Laminate Test Specimen Inspection Verification:	
Do you have knowledge in and able to perform the following inspection activities?	
I. Verify that NCAMP Form 168-1 for the panel fabrication process has been completed.	Yes/No
II. For test specimen inspection verification, verify that the specimen dimensions are in accordance with the drawings in the test plan (or the test methods called out by the test plan). At minimum, QA must have inspected at least one specimen per panel per test method for all the dimensions specified in the drawing such as perpendicularity, parallelism, hole size and location, etc. (this assumes that all the specimens are processed at the same time using same jig setup and technician). In addition, NCAMP AIR should physically measure selected dimensions of representative specimens at a frequency at his/her discretion.	Yes/No
III. When specimen dimensions fail to meet one or more of the drawing requirements, review any MRA/MRB documents for engineering acceptance including NCAMP AER concurrence when necessary.	Yes/No
IV. When conducting specimen inspection verification per item (II), the following test methods are typically used:	Yes/No
a. ASTM C1275 – Standard Test Method for Monotonic Tensile Behavior of Continuous Fiber-Reinforced Advanced Ceramics with Solid Rectangular Cross-Section Test Specimens at Ambient Temperature	Yes/No
b. ASTM C1292 – Standard Test Method for Shear Strength of Continuous Fiber-	

VII.	Check to see that frozen materials are protected in sealed bags, have fo specified handling procedures to avoid condensation before use, and that the bags are resealed and water tight before refreezing.	Yes/No
VIII.	Verify that the tool used matches that required to produce the part speci the test plan.	Yes/No
IX.	Verify that the tool surface quality is acceptable (i.e. smooth and capable vacuum).	Yes/No
X.	Verify that substrate material, substrate thickness, surface preparation, a expected bondline thickness are per test plan.	Yes/No
XI.	Verify that thermocouple placement is in accordance with the governing process specification guidelines.	Yes/No
XII.	Review plan for ply lay up and orientation and verify operations complete satisfactorily and accepted by Quality Assurance and/or Engineering.	Yes/No
XIII.	Verify that vacuum bagging meets the requirements of the governing pro specification and verify operations completed satisfactorily and accep(ra)	

4.B. For Lamina and Laminate Test Specimen Inspection Verification:

Please provide three verifiable technical references: