

INSTRUCTION GUIDE FOR NCAMP FORM 289-3 ENGINEERING ACCEPTANCE

PURPOSE

This form should be submitted by AER to NCAMP under the following circumstances:

1. For the purposes of showing that the AER has reviewed documents such as material specification, process specification, and test plans and is recommending acceptance of the documents for a given test program. Note: AER cannot accept test plans; AER can only recommend acceptance of test plans.
2. For the purposes of showing that the AER has witnessed the material testing and is accepting the data for a given test program. Prior to any testing activity, the AER must verify that:
 - a. All the specimens have passed inspection verification by an NCAMP AIR; a signed copy of the Inspection Verification Record NCAMP Form 168-1 must show that the specimens have passed such inspection verification.
 - b. Appropriate equipment and fixtures are used.
 - c. The measuring instruments such as load cell, extensometer, and thermocouple have certified calibrations that are current and valid within the range of interest. Verify that the strain gage indicator(s) has been calibrated using an NIST-traceable calibrator that is current and valid within the range of interest (note: internal shunt calibration alone is inadequate). Since strain gage indicator settings can be altered easily, this verification must be performed for every test setup, taking into account strain gage factor. For modulus measurements, verify that the load cell, extensometer, and strain gage calibration range encompasses the range of interest (typically, 1,000 – 3,000 microstrain for tensile/compressive modulus and 2,000 – 6,000 microstrain for in-plane shear modulus). For strength measurements, verify that the load cell calibration is valid at the expected specimen failure load level. One exception to this requirement is Poisson's ratio measurements where transverse strain range may be below the calibrated range.
 - d. For certain tests such as ASTM D3039 that requires system alignment check, verify that the alignment was checked no longer than 30 days ago and that the grips have not been removed/reinstalled in the interim. If in doubt, re-check the system alignment prior to test. Note that most mechanical grips with universal joints will not be able to meet system alignment requirement. Grips with fixed joints are typically required to meet the system alignment requirement. The mating surfaces of the fixed joints must be clean, free of oil, and secure so that the grips will not become misaligned during the tests.

AERs are typically requested to witness the testing of at least one specimen per test method per test condition per test program. The AER should verify that appropriate failure mode(s) is obtained and that the modulus, Poisson's ratio, and strength values are within expected ranges (where applicable). An AER may elect to witness the testing of more or less specimens at the sole discretion of the AER.

INSTRUCTIONS

1. Date: Enter today's date.
2. Enter the unique project number established by NCAMP.
3. Submitter of data or document: Enter the contact information of the data or report submitter. The submitter may not necessarily be the creator of the data or report.
4. Identification: Enter the document numbers of test plan, specification, or report, including revision and release date.
5. Title: Enter the titles in item 4 (i.e. titles of the documents or data).
6. Purpose of Data or Document:
7. Comments: Provide additional comments, if any.
8. Acceptance: To check the appropriate box, highlight the box, right-click the mouse, select "Properties," then select "checked"
9. Signatures of AER(s): AER will sign and print his/her name.