

To: NFRC Board of Directors

From: CPC, Roland Temple, Chair

Date: August 9, 2007 / Revised July 30, 2008

Re: IG Certification Requirement Implementation Proposal as of August 20, 2008

A) Products required to be certified by an Independent 3rd Party IG Certification Program

- 1) All insulating glass units used in NFRC certified and labeled products.

B) Requirements for IG Certification Program Acceptance

NFRC shall maintain a list of acceptable 3rd party IG certification programs. Each program requesting NFRC acceptance shall annually submit for review an application reporting or attesting to compliance with the following:

- 1) Compliance with ISO Guide 65. (*Reference ISO Guide 65 Section 4.2 & 4.4 document*)
- 2) Mandatory IG testing at least once every 2 years utilizing independent testing laboratories that are accredited to ISO 17025. IG Certification Programs will provide as part of their documentation submission to NFRC, testing laboratory approval process for specific test procedures and their list of approved test facilities.
 - a. The testing lab approval process shall include inspections as needed, with a minimum of once every two years, to ensure the testing laboratory is in full compliance with ASTM E2190 or CGSB 12.8.
- 3) Perform at least two (2) audits of program participant's IG fabrication facilities per year.

C) Minimum Requirements for Certified IG Units

- 1) All IG models for use in NFRC certified products shall be certified in a 3rd party IG certification program acceptable to NFRC. Proof of certification shall be validated at annual NFRC plant audits by demonstrating current listing of the IG model in the accepted IG certification program's current certified products directory or by supporting documentation from the IG certifier.
- 2) Pass the requirements of ASTM E2190 or CGSB 12.8. The CGSB 12.8 standard will be acceptable until the ASTM E2189 fog box test requirements meet or exceed the requirements in the CGSB 12.8 standard.
- 3) Proof of gas content to an average minimum initial 90% insulating gas fill content and an average minimum of 80% insulating gas fill content following completion of respective IG durability testing. Demonstration of gas content for argon shall qualify other gases providing the same gas filling method is used.

D) Timing to Implementation

July 2010