

NFRC'S INDEPENDENT VERIFICATION PROGRAM

Presentation and Q &A Forum

February 11, 2013

National Fire
Rating Council

IVP FORUM AGENDA

- Update on NFRC 713 Draft
- Enrollment Process
- Product Line Registration
- Product Procurement
- Product Testing
- Testing Results
- Q & A

**Please hold questions to the end
of the presentation**

UPDATE ON NFRC 713 DRAFTS

- Differences between March 2012 draft and November 2012 draft
- Differences between November 2012 draft and February 2013

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MARCH 2012 - NOVEMBER 2012

- Separation from NFRC 700 (PCP) – only ENERGY STAR Partners can participate
- Modified the requirements when a product option is unavailable for testing
- Only NFRC 102 test
- Component evaluation used for verification
- Grading of results are based on ENERGY STAR values only
- Questionable results beyond Participant's jurisdiction
- Removed complex compliance flowchart
- IVP fees are separate from PCP fees

WHAT ARE THE FEES?

- There are member and non-member fees
- The NFRC 704 Fee Schedule contains the fees to participate in the IVP.
 - Participation fees: \$1,500 / \$2,500
 - Product Line fees: \$100 / \$150

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NOVEMBER 2012 - FEBRUARY 2013

- No change to the roles
 - No change to the selection process
 - No change to testing (NFRC 102)
 - Gas is verification only
 - Removed “suspended” language with ENERGY STAR
 - Recent comments...
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IVP FORUM AGENDA

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ENROLLMENT PROCESS

- NFRC requires information from participants:
 - Sign an agreement to participate in the NFRC IVP.
 - Provide details about which product lines include ENERGY STAR qualified product options that are available for sale.

Both processes are online!

ENROLLMENT FORM - ONLINE

The screenshot shows a web page with a dark blue navigation bar at the top containing links: Home, Membership, Participants, Volunteers & Leadership, NFRC Resources, Meetings & Workshops, Groups, and NFRC News. The main content area is titled "2013 IVP Participation Form" and includes a star icon. Below the title are social media sharing icons for LinkedIn, Facebook, Twitter, and Email. The text explains that as a Partner in the ENERGY STAR program, users have made a business choice to be part of a brand that communicates energy efficiency. It states that the National Fenestration Rating Council (NFRC) is the leading expert in certification and testing for windows, doors, and skylights and is recognized by the EPA as a Certification Body (CB) for the ENERGY STAR program. It further explains that to ensure ENERGY STAR products continue to perform in the marketplace as originally designed and certified, ENERGY STAR requires that all products bearing the logo be made available for independent verification testing. NFRC will therefore be implementing an Independent Verification Program (IVP) in 2013 to verify the performance ratings of ENERGY STAR qualified products. Finally, it states that in order to meet the requirements as a CB, NFRC is requesting each Partner to fill out and submit this form to assist in administering the IVP. Below the text are four input fields: "Company Name *", "Contact Name *", "Contact E-mail *", and "Contact Phone *". On the right side of the page, there is a "COMMUNITY SEARCH" section with a search input field and a "Search »" button. Below that is a "MY PROFILE" section with a list of links: Profile Home, Public Profile, Manage Profile, Groups, Networks, Files & Links, Favorites, Messages, Connections, and Membership Info. There is also a "Connect" button with a Facebook icon. At the bottom of the right sidebar is a "CALENDAR" section with a dropdown arrow and two events: "2/24/2013 » 2/27/2013 AAMA's Annual Meeting" and "4/8/2013 » 4/10/2013 2013 NFRC Spring Committee Meeting".

Forms will be available for download

ENROLLMENT TO BEGIN?

- A bulletin will be distributed with additional details.
- Tentatively scheduled for March 2013
- Online process and forms will be available on the NFRC website.

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IVP WEBPAGE

National Fenestration Rating Council
WE'RE CHANGING THE WAY AMERICA SHOPS FOR WINDOWS, DOORS AND SKYLIGHTS

Google™ Custom Search

Consumers Members Meetings Participants **Programs** NFRC Resources Verify Ratings

World's Best Window Co. Series "2000" CPW 312-110
 ENERGY PERFORMANCE RATINGS
 U-Factor (U.S. I-Factor) Solar Heat Gain Coefficient
0.30 **0.30**
 ADDITIONAL PERFORMANCE RATINGS
 Visible Transmittance Air Leakage (U.S. I-Factor)
0.51 **0.2**
 Combustion Resistance
51 -

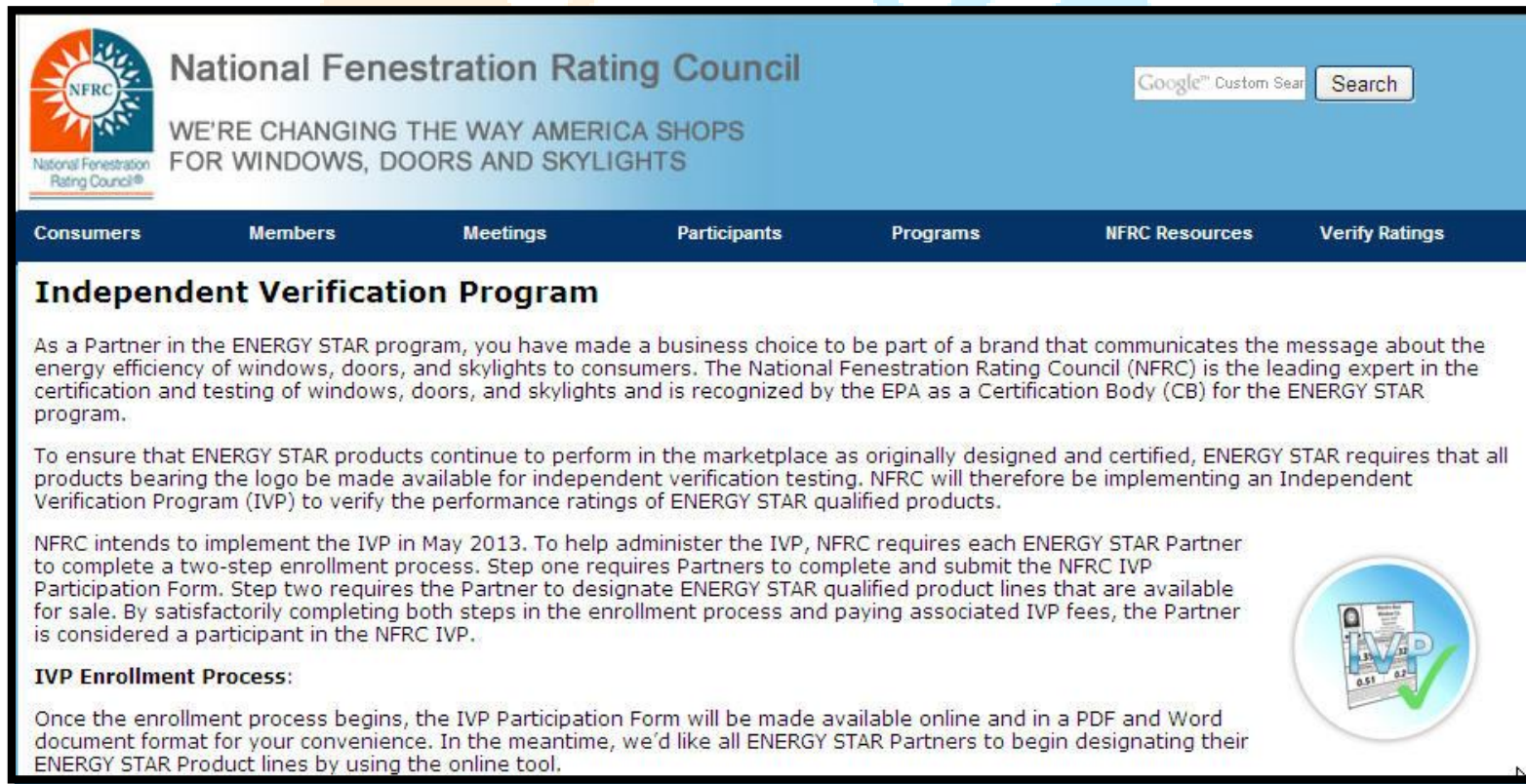
The NFRC label can be found on all ENERGY STAR® qualified windows, doors, and skylights and provides performance ratings
[More...](#)
 < Previous | Next >

Product Certification Program (PCP)
 Component Modeling Approach Program (CMA)
 Site Built Program
 Laboratory Accreditation Program (LAP)
 Certification Agency Program (CAP)
 Compliance and Monitoring (CAMP)
Independent Verification Program (IVP)
 ANSI Standards Development
 Educational Programs
 Research Program

NFRC Members, and Standards Boost Business
 Why is it Important?
 As a member, your vote is your voice. Voting is your most important tool to address important issues that affect your business. When it comes to developing NFRC's ratings programs, every member's input is valued.

NFRC News Now
 Facebook
 NFRC on Twitter
 NFRC Meeting Tweets

IVP WEBPAGE



The screenshot shows the NFRC website header with the logo and tagline "WE'RE CHANGING THE WAY AMERICA SHOPS FOR WINDOWS, DOORS AND SKYLIGHTS". A search bar is visible in the top right. The navigation menu includes links for Consumers, Members, Meetings, Participants, Programs, NFRC Resources, and Verify Ratings. The main content area is titled "Independent Verification Program" and contains the following text:


As a Partner in the ENERGY STAR program, you have made a business choice to be part of a brand that communicates the message about the energy efficiency of windows, doors, and skylights to consumers. The National Fenestration Rating Council (NFRC) is the leading expert in the certification and testing of windows, doors, and skylights and is recognized by the EPA as a Certification Body (CB) for the ENERGY STAR program.

To ensure that ENERGY STAR products continue to perform in the marketplace as originally designed and certified, ENERGY STAR requires that all products bearing the logo be made available for independent verification testing. NFRC will therefore be implementing an Independent Verification Program (IVP) to verify the performance ratings of ENERGY STAR qualified products.

NFRC intends to implement the IVP in May 2013. To help administer the IVP, NFRC requires each ENERGY STAR Partner to complete a two-step enrollment process. Step one requires Partners to complete and submit the NFRC IVP Participation Form. Step two requires the Partner to designate ENERGY STAR qualified product lines that are available for sale. By satisfactorily completing both steps in the enrollment process and paying associated IVP fees, the Partner is considered a participant in the NFRC IVP.

IVP Enrollment Process:

Once the enrollment process begins, the IVP Participation Form will be made available online and in a PDF and Word document format for your convenience. In the meantime, we'd like all ENERGY STAR Partners to begin designating their ENERGY STAR Product lines by using the online tool.



<http://www.nfrc.org/IVP/Default.aspx>

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PRODUCT LINE REGISTRATION

- Required to designate product lines, which include ENERGY STAR qualified individual product options, that are available for sale.
- The product line fee is based on the number of product lines designated by the Participant.
- Please designate your product lines now!

LOGIN ON WEBSITE

Energy Star Product Line Identification Log In

User Name:

Password:

This is the online tool for ENERGY STAR® Partners to provide NFRC details about which product lines include ENERGY STAR qualified product options that are available for sale.

You can use your NFRC username and password from the NFRC Certified Products Directory (CPD) to login. If you do not have a login name, please contact NFRC staff for assistance at 301-589-1776.

Please download this [manual](#) in order to use the online tool. If necessary, NFRC Inspection Agencies and NFRC staff are authorized to access the online tool to assist Partners with completing this step in the enrollment process.

Use current CPD username and password

<http://pesi.nfrc.org/>

ONLINE PROCESS

The screenshot shows the 'Energy Star Product Line Identification' web application. At the top left is the Energy Star logo and the text 'Energy Star Product Line Identification'. Below it is a 'Manufacturer' dropdown menu. A 'Log off' link is on the left, and a 'Welcome' message is on the right. The main content area is titled 'Product Line Summary: 123XYZ Company'. Below the title are four buttons: 'Update', 'Select All', 'Deselect All', and 'Reset'. A table with 10 columns and 7 rows of data is displayed. The columns are: CPD Number, Grouped With, Status Code, Series/Model Number, Operator Type, Initial Certification Date, Certification Date, Expiration Date, On Schedule 2, and Energy Star Line. The rows contain various product models and their associated details.

CPD Number	Grouped With	Status Code	Series/Model Number	Operator Type	Initial Certification Date	Certification Date	Expiration Date	On Schedule 2	Energy Star Line
XYZ-A-54		08	Fixed 2006 JOHN VAUGHAN	FIXD	11/21/2006	11/21/2006	10/10/2010		<input checked="" type="checkbox"/>
XYZ-A-74	XYZ-T-68	06	Premium Vinyl Horizontal Slider w/ and w/o Filler Bar	VSDH	08/01/2008	08/01/2008	07/11/2011	Yes	<input checked="" type="checkbox"/>
XYZ-K-2	XYZ-T-84	06	Upgrade SQL 2008 - Recert	FIXD	08/16/2009	08/16/2009	08/16/2013		<input type="checkbox"/>
XYZ-K-52			Fixed 2006 SHARON	FIXD	11/20/2006	11/20/2006	10/10/2010	Yes	<input type="checkbox"/>
XYZ-K-53			Fixed 2006 JENNIFER	FIXD	11/21/2006	11/21/2006	10/10/2010	Yes	<input checked="" type="checkbox"/>
XYZ-K-55			Fixed 2006 NIKKI	FIXD	11/27/2006	11/27/2006	10/10/2010	Yes	<input checked="" type="checkbox"/>
XYZ-K-76			No CR, No SHGC / VT	HSXX	12/04/2008	12/04/2008	01/01/2012	Yes	<input checked="" type="checkbox"/>

Review manual to understand buttons

PRODUCT LINE SELECTION EXAMPLE

- A Participant may have a total of 20 product lines and 10 of those product lines include ENERGY STAR qualified options.
- The Participant may only sell ENERGY STAR qualified product options in 5 of the product lines.
- Participant selects those 5 product lines only upon which the IVP product line fees are based.

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PRODUCT PROCUREMENT

- Selection of Product
- How are Products Procured?
- Additional Fees



SELECTION OF PRODUCT

- Certification Body (CB) criteria is to select 10% of designated product lines
- NFRC selects 50% using IVP algorithm meeting CB directives.
 - Section 2 of NFRC 713.
- EPA selects 50%

HOW ARE PRODUCTS PROCURED?

- Direct contact
 - Staff will contact the Participant's representative listed on the IVP information form.
 - Participant will ship the product to the lab designated by NFRC.
 - NFRC to provide a Participant's guideline document.
 - If a product is not available for testing, another product will be chosen.
 - Blind manner
 - Staff will work independently and not involve the Participant.
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ADDITIONAL FEES

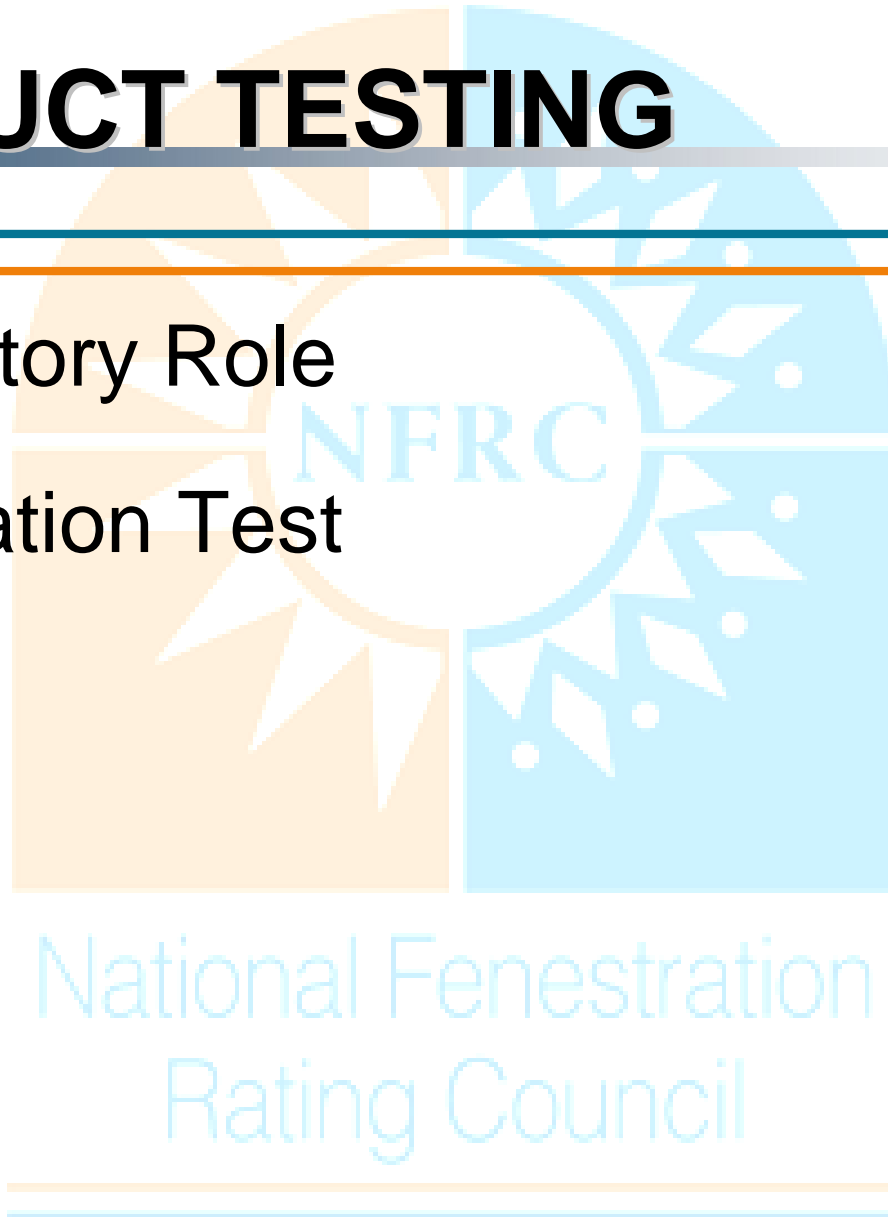
- The fees listed in the NFRC 704 will cover the cost to procure and test the initial product selected for IVP.
 - The Participant is responsible for any additional costs that may occur, such as:
 - a second product for corrective action testing;
 - possibly other expenses if the Participant would like to review the product at the lab, etc.
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PRODUCT TESTING

- Laboratory Role
- Verification Test



LABORATORY ROLE

- Section 3.1 of NFRC 713
- NFRC to provide the laboratory guideline document
- Requirements in NFRC 701 documents

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VERIFICATION TEST

- The IVP verification test will be a thermal test.
 - Lab performs a NFRC 102 thermal test and forwards the results to NFRC staff for review.
 - At NFRC's direction, the lab performs a component evaluation (cut-up) of the product and provides a final report to NFRC.

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TESTING RESULTS

- Staff Investigation Process
- Performance rating tolerances
- Labeling tolerances
- Requirements for Unsuccessful Test

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STAFF INVESTIGATION PROCESS

- See Section 4.1 of NFRC 713
- Verify product tested matches product selected by algorithm

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PERFORMANCE RATING TOLERANCES

- See Section 4.2 through 4.4 of NFRC 713
 - Comparison of the verification test results are based on the U-factor tolerances
 - 0.03 / 10%
 - Compared against ENERGY STAR qualification performance zone requirements
 - Tables 2, 3, and 4
-
-

TOLERANCE AND GRADE EXAMPLE

Table 1 - Tolerances

Certified U-factor ¹	Accepted Difference Between Tested and Certified U-factor
1.7 W/m ² K (0.3 Btu/h·ft ² ·°F) or less	0.17 W/m ² K (0.03 Btu/h·ft ² ·°F)
Greater than 1.7 W/m ² K (0.3 Btu/h·ft ² ·°F)	10% of Simulated U-factor

¹ Certified U-factor may be adjusted due to tested product size not equivalent to the NFRC model size

Table 2 - Grades

Windows			
Climate Zone	Required U-factor	Successful Test U-factor Tolerances	Unsuccessful Test U-factor Tolerances
Northern	≤ 0.30	≤ 0.33	≥ 0.34
	= 0.31	≤ 0.34	≥ 0.35
	= 0.32	≤ 0.35	≥ 0.36
North-Central	≤ 0.32	≤ 0.35	≥ 0.36
South-Central	≤ 0.35	≤ 0.39	≥ 0.40
Southern	≤ 0.60	≤ 0.66	≥ 0.67

LABELING TOLERANCES

- Product shall contain both an ENERGY STAR and NFRC temporary label
 - Labels must be present
 - Rating values match the designated zone
 - NFRC Certified Product

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LABELING REQUIREMENT *EXAMPLE*

- ENERGY STAR qualified product line
 - Contains 100 individual product options.
 - 50 of the individual product options qualify for ENERGY STAR in at least one climate zone.
 - When manufactured, those 50 individual product options **must always** be labeled as an ENERGY STAR product for the proper climate zone.
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REQUIREMENTS FOR UNSUCCESSFUL TEST

- NFRC as Certification Body.
- Participant as ENERGY STAR Partner



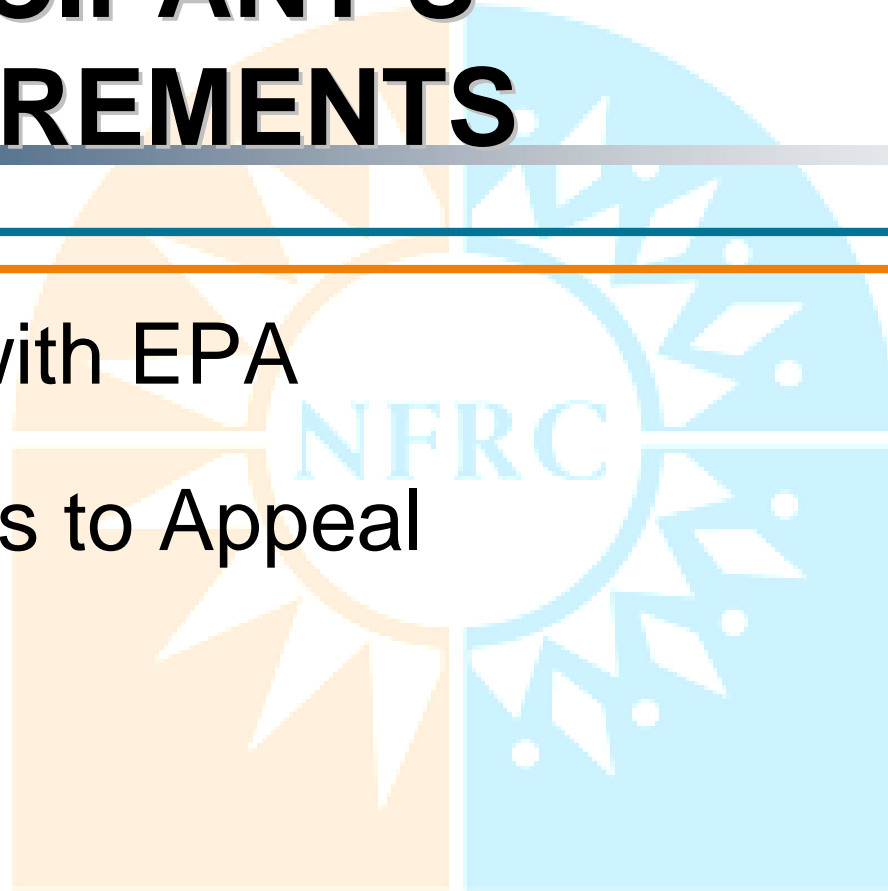
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NFRC REQUIREMENTS

- Within 2 days of determining and unsuccessful test, for both energy performance and labeling grades, NFRC will provide to the EPA a report and recommended corrective action.
 - NFRC will provide to the Participant:
 - A successful Notice of Verification; or
 - A Notice of Non-compliance
-
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PARTICIPANT'S REQUIREMENTS

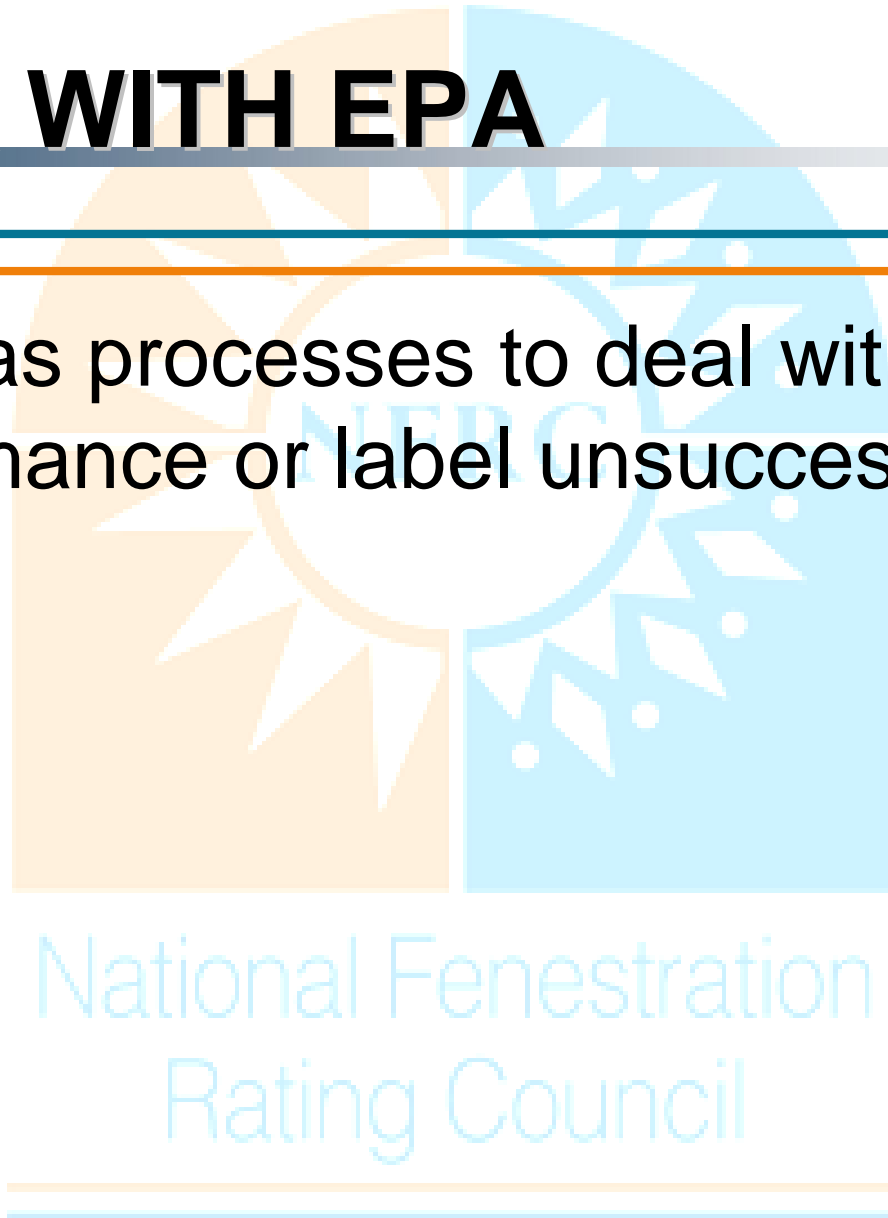
- Work with EPA
- Process to Appeal



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WORK WITH EPA

- EPA has processes to deal with a energy performance or label unsuccessful test



PROCESS TO APPEAL

- Participant may appeal the results of the grade within 15 days.
- Discussed by the Verification Policy Committee (VPC)
- NFRC Executive Committee provides final decision

The background features a large, semi-transparent watermark of the NFRC logo. The logo is circular and split vertically into two halves: the left half is orange and the right half is light blue. It contains stylized icons of a sun, a window, and a person, along with the letters 'NFRC' in the center.

QUESTIONS AND ANSWERS SESSION

Thank You!

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