

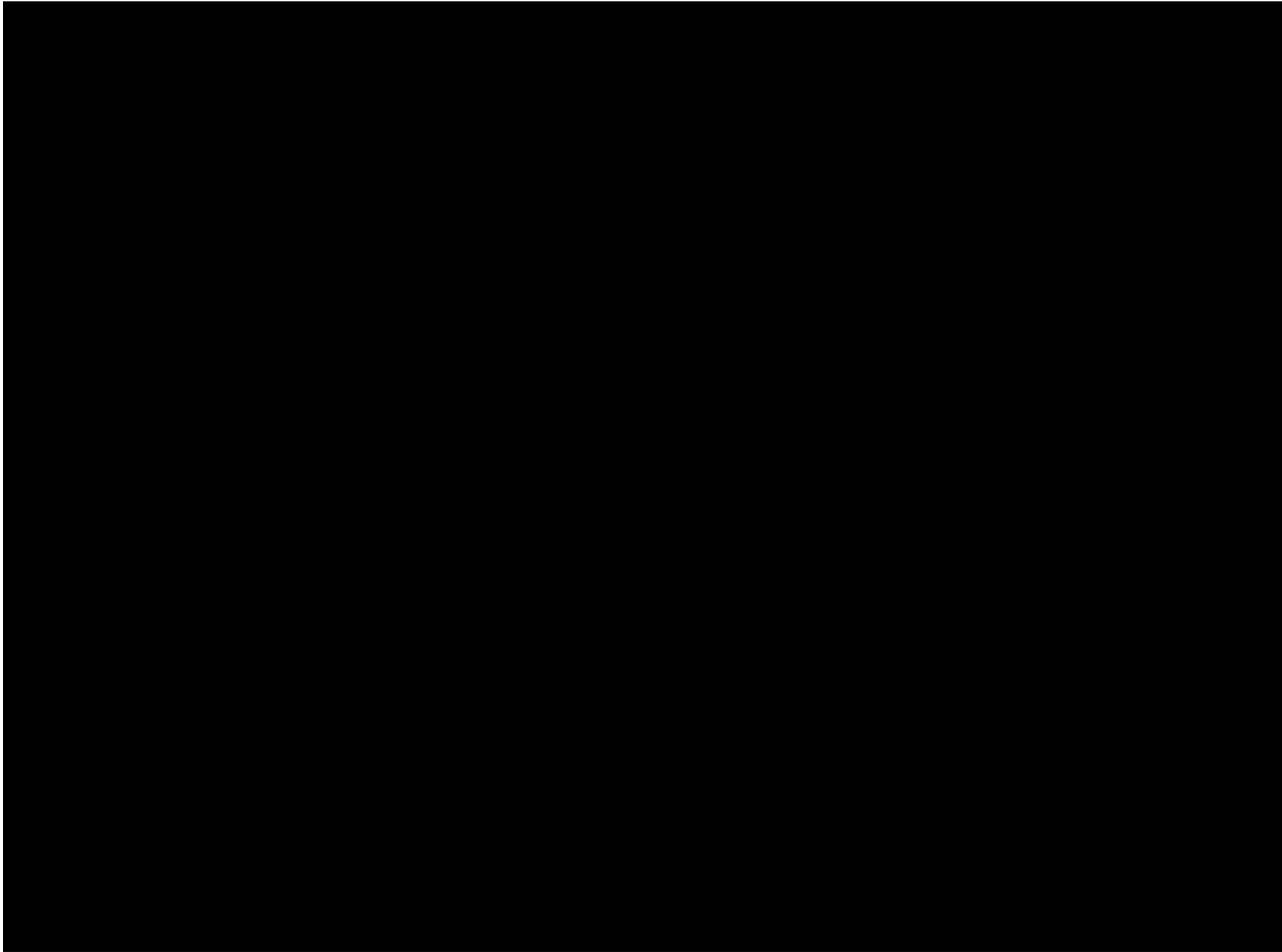
NIST

Global Standards Information



Conformity Assessment Basics

Good Afternoon!



Today's Discussion

- Terminology
- Types of conformity assessment
- How it works
- Examples

Conformity Assessment

“demonstration that specified requirements relating to a product, process, system, person, or body are fulfilled”

- *ISO/IEC 17000*

The Parties – who done it?

1st Party

2nd Party

3rd Party

First Party – seller or manufacturer

Second Party – purchaser or user

Third Party – independent entity

Government

Types of Conformity Assessment

- Supplier's Declaration of Conformity (SDoC)
- Inspection
- Testing
- Certification
- Registration
- Accreditation
- ISO/IEC 17050 parts 1 and 2
- ISO/IEC 17020
- ISO/IEC 17025
- ISO/IEC Guide 65
- ISO/IEC 17021
- ISO/IEC 17011

Supplier's Declaration of Conformity (SDoC)

1st Party

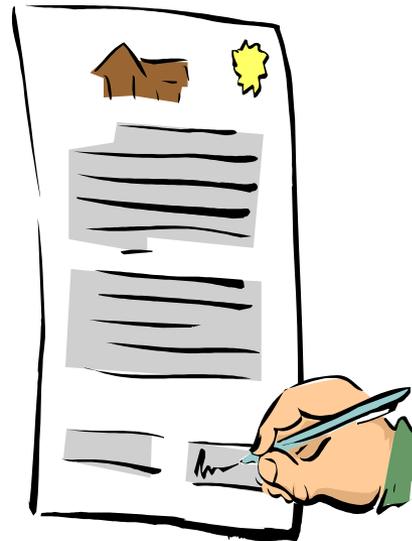
2nd Party

3rd Party

Characteristics

- Used when low product risk
- Penalties for noncompliant products
- Effective recall system

Examples



- ISO/IEC 17050

Testing

1st Party

2nd Party

3rd Party

Characteristics

Examples

- Measures Characteristics
- Representative samples are often used
- May be element of SDoC or certification system

- *ISO/IEC 17025*



Inspection

1st Party

2nd Party

3rd Party

Characteristics

- Simple test measurement or examination
- Code compliance

- *ISO/IEC 17020*

Examples



Certification

1st Party
2nd Party
3rd Party

Characteristics

- Used when moderate – high product risk
- More expensive
- Surveillance

- *ISO/IEC GUIDE 65*

Examples



1st Party

2nd Party

3rd Party

Management System Registration

Characteristics

Examples

- Process requirements
- Scope matters: can be general or specific

- *ISO/IEC 17021*



Accreditation

1st Party
2nd Party
3rd Party

Characteristics

- Confidence in Competence

Examples



- *ISO/IEC 17011*



The American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL CERTIFIED TESTING LABORATORIES, INC. (NCTL-NW)
3310 Hill Ave.
Everett, WA 98201
Jeffrey Douglas Phone: 425 259 6799
jdouglas@nctlinc.com

MECHANICAL

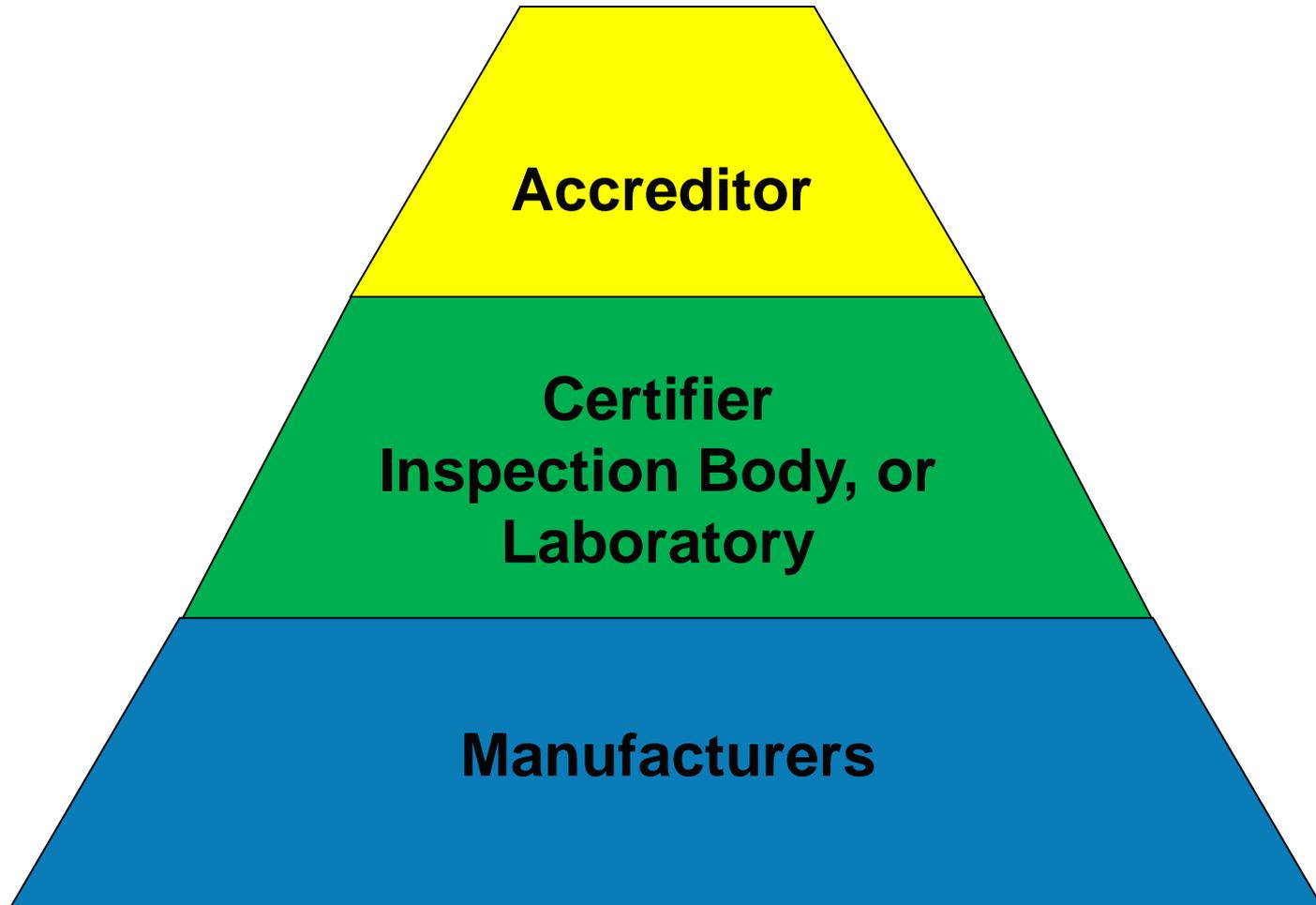
Valid To: June 30, 2012

Certificate Number: 2701.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on assembled windows, doors, skylights and curtain walls:

<u>Test</u>	<u>Test Method(s)</u>
Air Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors	ASTM E283
Water Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference	ASTM E331

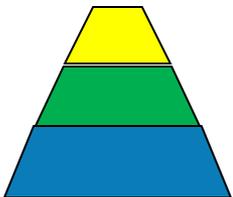
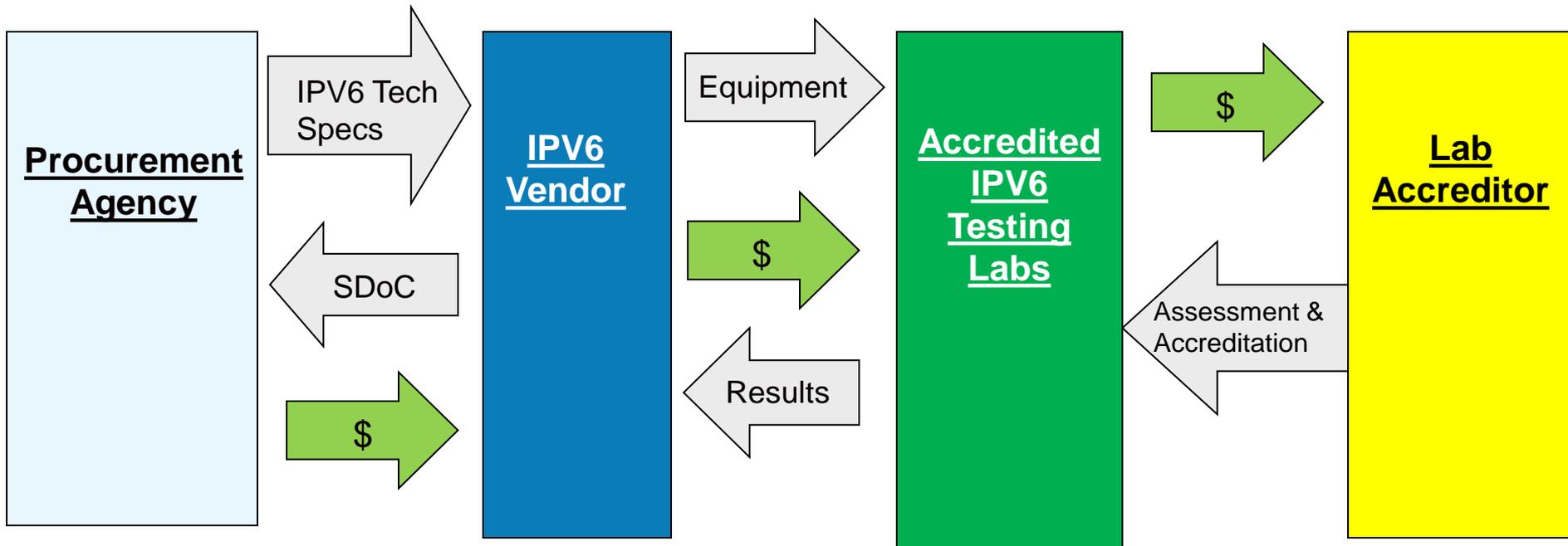
Who watches the watchers?



Factors in Conformity Assessment Systems

- Risks associated with non-compliance should be proportional to the rigor of the system design
 - ▶ Over-design costs too much
 - ▶ Under-design gives too little confidence
- Marketplace consequences (penalties) & effective recall allow less rigor

IPV6 Example of Conformity Assessment System



Review

- Terminology
- Types of conformity assessment
- How it works
- Examples

Thank You

Conformity Assessment Basics

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