



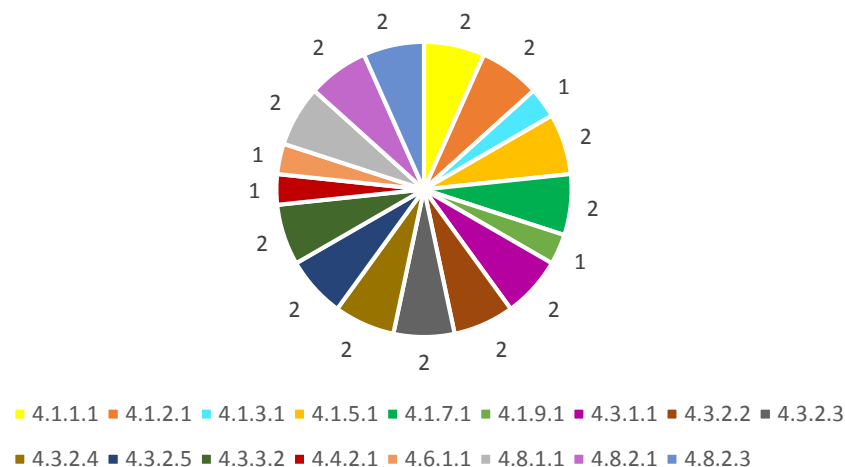
OUTCOMES REPORT EPEAT VERIFICATION ROUND TV-2014-02

1. Overview of Verification Round

This report provides the detailed results of EPEAT Verification Round TV-2014-01. This Round consisted of a total of 30 investigations of the IEEE 1680.3™ criteria listed below and illustrated in Figure 1 below:

- 4.1.1.1 Required – Compliance with provisions of European Union (EU) RoHS Directive
- 4.1.2.1 Optional – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)
- 4.1.5.1 Optional – Reduction of substances on the EU REACH Candidate List of SVHCs
- 4.1.7.1 Optional – Reducing BFR/CFR/PVC content of external plastic casings
- 4.3.1.1 Required – Ease of disassembly of product
- 4.3.2.2 Required – Plastic Markings
- 4.3.2.3 Optional – Manual separation of plastics for recycling
- 4.3.2.4 Optional – Molded/glued-in metal eliminated or removable
- 4.3.2.5 Required – Restriction on materials not compatible with reuse and recycling
- 4.3.3.2 Optional – Marking provided on the product identifying items containing materials with special handling needs
- 4.8.1.1 Required – Elimination of intentionally added heavy metals in packaging
- 4.8.2.1 Required – Separable packing materials
- 4.8.2.2 Optional – Packaging 90% compostable/recyclable
- 4.8.2.3 Required – Plastics marked in packaging materials
- Four randomly chosen criteria.

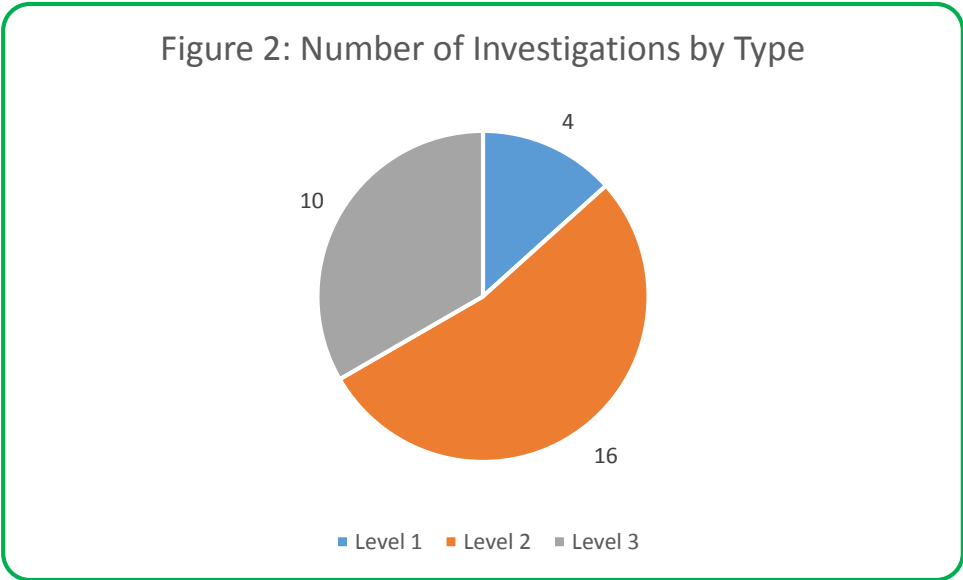
Figure 1: Number of Investigations by Criterion





The Verification Round was intended to assure conformance for televisions through laboratory evaluation as well as four randomly chosen criteria verified on four randomly chosen products.

This Verification Round consisted of 30 investigations that were a mix of Level 1, Level 2 and Level 3 investigations as seen below in Figure 2. In Level 2 and 3 investigations, the PRE purchased products without the Subscriber’s knowledge and sent them to a laboratory where they were disassembled and detailed analytical testing was conducted as applicable. For four investigations, a random number generator was used to select each criterion and each product. All active TV Subscribers and one active PRE were involved in this Round. If a Subscriber had already received a decision of Conformance for one of the criteria in a different Verification Round in the past year, they were not verified again for the same criteria.



The PRE involved in this Verification Round was ULE.

2. Summary of Outcomes

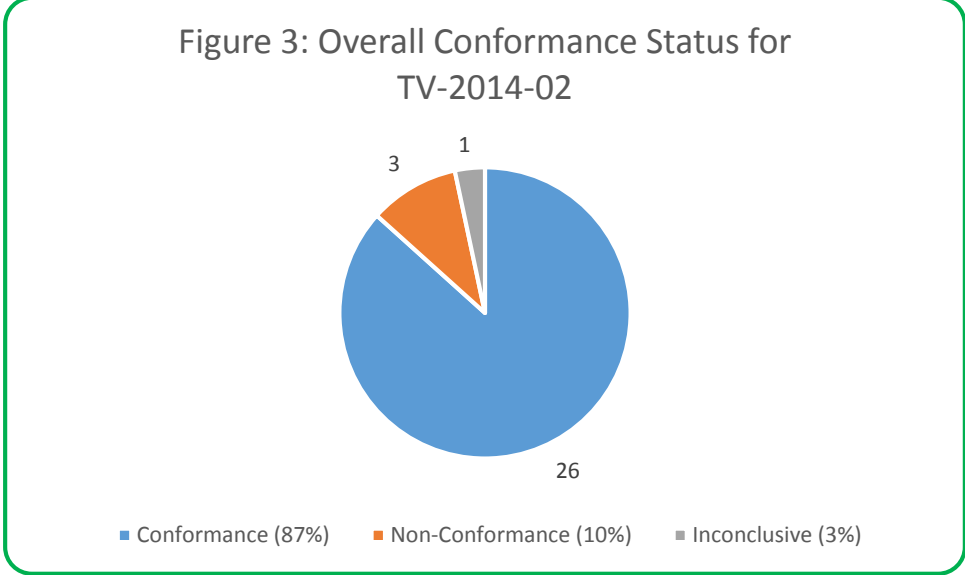
Highlights from this Verification Round are:

- **Up to 32** Investigations Planned
- **30** Investigations Completed *
- **26** Decisions of Conformance
- **3** Decisions of Non-Conformance
- **1** Inconclusive Investigation **

* The total number of investigations completed was fewer than planned because the products chosen didn’t claim two of the optional criteria.

** One investigation was found to be inconclusive due to the fact that the laboratory could not generate a definitive test result.

Figure 3 below shows the overall conformance status for this Verification Round. Tables showing a Summary of Findings (Table 1) and Specific Non-Conformance Findings and Corrective Action Taken (Table 2) can be found in Section 4 below.



3. Key Lessons

1680.3: All Criteria requiring Conformance Assurance Systems: When a Conformance Assurance System is required in the Verification Requirements of a criterion, the Subscriber must provide evidence for all four phases of the Conformance Assurance System. The four phases of a Conformance Assurance System are Plan, Do, Check, and Act.

1680.3: 4.3.2.2: This required criterion requires all plastic parts over 25 grams to be marked with materials codes in accordance with requirements in the Television standard.

1680.3: 4.3.3.2: This optional criterion requires that information be provided on the product itself about the presence and location of all materials and components with special handling needs. Per the criterion text, this information cannot reference an external source.

1680.3: All Criteria: The Subscriber must provide all evidence within the required 30 days. It is prudent to provide sufficient time within this 30 day period for the Qualified Verifier to review all information and ask questions if needed. In several Non-Conforming investigations the Subscriber waited until the very last days to provide evidence which did not give the Qualified Verifier time to clarify or request additional information before the end of the Verification Round.



4. Investigations Tables

Table 1: Summary of Non-Conformance Findings						
Criterion	Required or Optional	Description	Total	Completed	Non-	
			Investigations	Investigations	Conformances	Inconclusive
4.1.1.1	Required	Compliance with provisions of European Union (EU) RoHS Directive	2	2		
4.1.2.1	Optional	Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)	2	2		
4.1.3.1	Required	Reporting on amount of mercury content in light sources	1	1		
4.1.5.1	Optional	Reduction of substances on the EU REACH Candidate List of SVHCs	2	2		
4.1.7.1	Optional	Reducing BFR/CFR/PVC content of external plastic casings	2	2		
4.1.9.1	Optional	Inventory of intentionally added chemicals residing in the product	1	1		
4.3.1.1	Required	Ease of disassembly of product	2	2		
4.3.2.2	Required	Plastic markings	2	2	1	
4.3.2.3	Optional	Manual separation of plastics for recycling	2	2		
4.3.2.4	Optional	Molded/glued-in metal eliminated or removable	2	2		
4.3.2.5	Required	Restriction on materials not compatible with reuse and recycling	2	2		1
4.3.3.2	Optional	Marking provided on the product identifying items containing materials with special handling needs	2	2	1	
4.4.2.1	Required	Service information readily available	1	1		
4.6.1.1	Required	Provision of product take-back service	1	1	1	
4.8.1.1	Required	Elimination of intentionally added heavy metals in packaging	2	2		
4.8.2.1	Required	Separable packing materials	2	2		
4.8.2.3	Required	Plastics marked in packaging materials	2	2		
Totals			30	30	3	1



TABLE 2: Specific Non-Conformance Findings and Corrective Action Taken

Subscriber	Product	Country	Product Type	PRE	Criterion	Required or Optional	Criterion Description	NC Finding Description	Corrective Action Taken
LG	47LA7400	United States	TV	UL Environment	4.3.2.2	Required	Plastic markings	Demonstrated Non-Conformance	Subscriber deleted product from EPEAT Registry.
LG	47LA7400	United States	TV	UL Environment	4.3.3.2	Optional	Marking provided on the product identifying items containing materials with special handling needs	Demonstrated Non-Conformance	Subscriber deleted product from EPEAT Registry.
LG	50LA6900	United States	TV	UL Environment	4.6.1.1	Required	Provision of product take-back service	Demonstrated Non-Conformance	Subscriber expanded mail back program to cover entire country.



5. General Message to Subscribers

Provision of information for Verification Rounds: The IEEE 1680 standard and the EPEAT subscriber agreements require that Subscribers provide the information identified in Verification Requirements to prove the accuracy of their declarations within 30 days of EPEAT's request. Failure to provide that information is inconsistent with the agreement and may result in termination of the Subscriber from EPEAT.

Initial response to Qualified Verifiers: When contacted regarding participation in a Verification Round, EPEAT staff continue to request that Subscribers respond to the Qualified Verifier as soon as possible to let them know they are communicating with the correct person or to inform them of the correct contact. This step also helps the Qualified Verifier know that s/he has a valid email address.

6. Looking Forward

Plans for Future Verification Activities: There are two Verification Rounds planning for televisions in 2015.

Conformity Assessment Protocols: This and all future Verification Rounds have and will be conducted according to the guidance provided in the Conformity Assessment Protocols posted on www.epeat.net.

7. Background

To assure the credibility of the EPEAT Registry, verification of the claims by participating manufacturers (called "Subscribers") are rigorous, independent and transparent. Verification is conducted strictly according to policies and procedures described in the IEEE 1680 Standard and in documents provided on www.epeat.net. Subscribers are given no forewarning that their products will be verified and verification is performed based on the declarations as they are in the database at the time the round begins.

Level 0 investigations are based on the Qualified Verifier attempting to establish Conformance based on publicly available information (without obtaining a product). This type of investigation is only applicable to some criteria. If the Qualified Verifier is unable to establish conformance based on publicly available information, the investigation proceeds to Level 1. In Level 1 verification investigations, Subscribers are required to provide detailed and accurate information to demonstrate their conformance to each criterion of the standard in a timely manner that demonstrates Conformance, such as supply chain management records. In Levels 2 and 3 investigations, EPEAT buys or borrows products without the Subscriber's knowledge, disassembles them, and conducts detailed analytical testing if needed.

Investigations are performed by expert technical contractors who are free of conflicts of interest, and their recommended decisions are reviewed and finalized by a five-person panel of independent technical experts (called the Product Verification Committee) who are also contractors free of conflicts of interest. Verification activities conducted by the Product Verification Committee are done blind to the identity of the products and companies they are judging. The Committee makes a Conformance/Non-Conformance decision on each investigation, based on evidence collected and analyzed by Qualified Verifiers. A serious consequence of receiving a Non-Conformance is that it is published publicly in an Outcomes Report, for purchasers, competitors, and others to see.

Subscribers must correct Non-Conformances, either by bringing the product into Conformance, by un-declaring the criterion until Conformance is achieved, or by removing the product from the Registry. (EPEAT recommends that Subscribers also examine other products to determine if these declarations should be corrected as well.) If a Subscriber corrects the Non-Conformance by un-declaring the criterion and the criterion is an optional criterion, they lose that point, and possibly the product drops a rating tier. If it is a required criterion, they must archive the product. If it is a required corporate criterion, all their products must be archived.