



VERIFICATION PLAN: TELEVISION – ROUND TV-2014-02 SEPTEMBER 2014

I. PURPOSE AND CONTENTS OF THIS DOCUMENT

This document outlines the plan for a round of verification investigations to be performed in accordance with EPEAT process document QP-02, rev. 1, this verification plan, and other governing documents.

II. APPLICABLE STANDARDS

IEEE 1680:2009 and IEEE 1680.3™-2012

III. SELECTION OF CRITERIA AND PRODUCTS FOR VERIFICATION

This second Verification Round TV-2014-02 for the IEEE 1680.3™ Standard for the Environment Assessment of Televisions will focus on investigation of 14 criteria plus 4 randomly chosen criteria. The Verification Round will investigate all verification requirements for the following IEEE 1680.3™ criteria:

1. 4.1.1.1 Required – Compliance with provisions of European Union (EU) RoHS Directive
2. 4.1.2.1 Optional – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)
3. 4.1.5.1 Optional – Reduction of substances on the EU REACH Candidate List of SVHCs
4. 4.1.7.1 Optional – Reducing BFR/CFR/PVC content of external plastic casings
5. 4.3.1.1 Required – Ease of disassembly of product
6. 4.3.2.2 Required – Plastic Markings
7. 4.3.2.3 Optional – Manual separation of plastics for recycling
8. 4.3.2.4 Optional – Molded/glued-in metal eliminated or removable
9. 4.3.2.5 Required – Restriction on materials not compatible with reuse and recycling
10. 4.3.3.2 Optional – Marking provided on the product identifying items containing materials with special handling needs
11. 4.8.1.1 Required – Elimination of intentionally added heavy metals in packaging
12. 4.8.2.1 Required – Separable packing materials
13. 4.8.2.2 Optional – Packaging 90% compostable/recyclable
14. 4.8.2.3 Required – Plastics marked in packaging materials
15. Randomly chosen criteria.

This Round is intended to assure conformance for televisions. This Round will include 4 investigations randomly selected using a random number generator to select both the criteria and the product. This Round will also involve lab evaluation of 2 randomly chosen televisions*. It will include a maximum of 32 Level 1, 2 and 3 investigations. In the event that a chosen product doesn't claim one or more of the optional criteria, the total number of investigations completed may be fewer than planned. A Level 1 investigation involves a review of Subscriber submissions. In Level 2 and 3 investigations EPEAT acquires products without the Subscriber's knowledge, disassembles them, and conducts detailed analytical testing, when appropriate. The PRE with active television products will be involved in this Round. Two products will be chosen randomly from a list of products that have not already been evaluated in a Verification Round, and that have claimed the 7 optional criteria subject to investigation in this Round.

If at least 2 products do not claim all 7 optional criteria, then products will be selected from a list of products claiming the greatest number of optional criteria targeted in this Round.

The Investigations will be chosen as follows:

- For the seven required criteria each chosen product will be investigated.
- For the seven optional criteria, each chosen product will be investigated for each criterion declared.
- For four investigations, a random number generator will be used to select both the criteria and the product.

A snapshot will be taken of the Registry. The registration status of the planned products will be confirmed. Products will be selected as per the Verification Round Plan.

1. This plan will be published on epeat.net.
2. EPEAT Staff will instruct the PRE to proceed with the purchase of the products to be tested.
3. After purchasing the products, the PRE will notify their Subscribers that their products are being tested or investigated.
4. The PRE will have 30 days to have all testing completed.
5. The PRE will provide an Investigation Report for each product to EPEAT Staff. For each assigned investigation, the PRE / testing lab will recommend Conformance or Non-Conformance.
6. The Product Verification Committee will review the reports and determine conformity. The products and Subscribers to be verified will not be specifically disclosed to the Product Verification Committee, but will be known to the EPEAT/PRE staff and the testing labs. The intention is for the Product Verification Committee to be blind to the specific product and Subscriber for which they are making conformity decisions. This information will only be provided to the Product Verification Committee after completion of the decision where Non-Conformance findings are published in the Outcomes Report. In the event of an appeal, a Subscriber may present specific information to the Committee regarding a decision, and in that case, the Subscriber and product may be revealed in order to resolve any issues.
7. The investigated Subscribers will be informed of the decision. For decisions of Non-Conformance, the Subscribers are required to take corrective action within 14 calendar days to restore the accuracy of the Registry.
8. EPEAT will publish a "Verification Round Outcomes Report" identifying the Non-Conforming products and Subscribers, as well as the action taken to restore the accuracy of the Registry.

* Note: In the event that a randomly chosen product costs more than \$1,500, the MSE will work with the PRE to determine how to verify the product. This may involve purchasing a subset of parts, a factory visit and / or choosing a different product.

IV. PRODUCT VERIFICATION COMMITTEE

Following are the members of the PVC:

- Libby Chaplin, CEO, Arcadian Solutions
- Patty Dillon, Dillon Environmental Associates
- Jack Geibig, President, Ecoform
- Robert Pfahl, Pfahl Consulting L.L.C.

- Annette Roesler, Ph.D., Independent Professional Chemist

V. PREs AND QUALIFIED VERIFIERS

All investigations will be conducted through PREs with qualified testing labs working for the respective PRE. The following PRE will be included in this plan's investigations:

- ULE PRE

VI. VERIFICATION ROUND PLAN APPROVAL

Round Plan approved by PVC by discussion and e-mail on September 19, 2014.

VII. TELEVISION VERIFICATION ROUND TV-2014-02 INVESTIGATIONS

	Criterion		Verification Selection and Process	# Planned Investigations
1	4.1.1.1	Required – Compliance with provisions of European Union RoHS Directive	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 3 investigation. 	2
2	4.1.2.1	Optional – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 3 investigation. 	2
3	4.1.5.1	Optional – Reduction of substances on the EU REACH Candidate List of SVHCs	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 3 investigation. 	2
4	4.1.7.1	Optional – Reducing BFR/CFR/PVC content of external plastic casings	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 3 investigation. 	2
5	4.3.1.1	Required – Ease of disassembly of product	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
6	4.3.2.2	Required – Plastic Markings	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
7	4.3.2.3	Optional – Manual separation of plastics for recycling	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 2 and 3 investigations. 	2
8	4.3.2.4	Optional – Molded/glued-in metal eliminated or removable	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 2 and 3 investigations. 	2

	Criterion		Verification Selection and Process	# Planned Investigations
9	4.3.2.5	Required -- Restriction on materials not compatible with reuse and recycling	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
10	4.3.3.2	Optional – Marking provided on the product identifying items containing materials with special handling needs	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 2 and 3 investigations. 	2
11	4.8.1.1	Required – Elimination of intentionally added heavy metals in packaging	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
12	4.8.2.1	Required – Separable packing materials	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
13	4.8.2.2	Optional – Packaging 90% compostable/recyclable	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 2 and 3 investigations. 	2
14	4.8.2.3	Required – Plastics marked in packaging materials	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	2
14	Random	Random	<ul style="list-style-type: none"> Four selections will be made using a Random Number Generator to choose the criteria and products. Criterion verified using Level 1 investigations. 	4
			Total	32

** In the event that a chosen product doesn't claim one or more of the optional criteria, the total number of investigations completed may be fewer than planned.