



## VERIFICATION PLAN: TELEVISION – ROUND TV-2013-03 SEPTEMBER 2013

### **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 third Verification Round TV-2013-03 for the IEEE 1680.3™ Standard for the Environment Assessment of Televisions will focus on testing a large number of criteria for a small number of products. 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. 4.1.7.1 Optional – Reducing BFR/CFR/PVC content of external plastic casings
4. 4.3.1.1 Required – Ease of disassembly of product
5. 4.3.2.2 Required – Plastic Markings
6. 4.3.2.3 Optional – Manual separation of plastics for recycling
7. 4.3.2.4 Optional – Molded/glued-in metal eliminated or removable
8. 4.3.2.5 Required – Restriction on materials not compatible with reuse and recycling
9. 4.3.3.2 Optional – Marking provided on the product identifying items containing materials with special handling needs
10. 4.8.1.1 Required – Elimination of intentionally added heavy metals in packaging
11. 4.8.2.1 Required – Separable packing materials
12. 4.8.2.2 Optional – Packaging 90% compostable/recyclable
13. 4.8.2.3 Required – Plastics marked in packaging materials

This round is intended to assure baseline conformance for televisions. Using a list of all products that claim all six optional criteria one product from each Subscriber will be randomly chosen. This Round will involve laboratory investigation of 2 televisions. It will include a maximum of 26 Level 1, 2 and 3 investigations. 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 analytical testing if needed. All PREs with active televisions will be involved in the Round. All Subscribers will be involved in the Round.

The Investigations will be chosen as follows:

- For the seven required criteria each chosen Subscriber will be investigated.
- For the six optional criteria all chosen Subscribers declaring to this criterion will be investigated.

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 PREs to proceed with the investigations.
3. Each PRE will notify their Subscribers that their products are being investigated.
4. The PREs will have 30 days to have all testing completed.
5. The PREs will provide reports to EPEAT Staff. For each assigned investigation, the PRE / testing lab will complete an Investigation Report recommending 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 not be provided to the Product Verification Committee until after completion of the conformance/non-conformance findings of the Verification Round. However, when a Subscriber presents specific information to the Committee regarding a decision, the Subscriber and product will be revealed to the Committee in order to resolve any issues.
7. The subject 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.

#### **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
- 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 PREs will be included in this plan's investigations:

- ULE PRE
- Intertek PRE

#### **VI. VERIFICATION ROUND PLAN APPROVAL**

Round Plan approved by PVC by discussion and e-mail on September 25, 2013.

## VII. COMPUTER PRODUCTS VERIFICATION ROUND 2013-02 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"> <li>Each product chosen will be investigated for this required criterion.</li> <li>Criterion verified using Level 3 investigation.</li> </ul>	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"> <li>Products claiming this optional criterion will be investigated.</li> <li>Criterion verified using Level 3 investigation.</li> </ul>	2
3	4.1.7.1	Optional – Reducing BFR/CFR/PVC content of external plastic casings	<ul style="list-style-type: none"> <li>Products claiming this optional criterion will be investigated.</li> <li>Criterion verified using Level 3 investigation.</li> </ul>	2
4	4.3.1.1	Required – Ease of disassembly of product	<ul style="list-style-type: none"> <li>Each product chosen will be investigated for this required criterion.</li> <li>Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
5	4.3.2.2	Required – Plastic Markings	<ul style="list-style-type: none"> <li>Each product chosen will be investigated for this required criterion.</li> <li>Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
6	4.3.2.3	Optional – Manual separation of plastics for recycling	<ul style="list-style-type: none"> <li>Products claiming this optional criterion will be investigated.</li> <li>Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
7	4.3.2.4	Optional – Molded/glued-in metal eliminated or removable	<ul style="list-style-type: none"> <li>Products claiming this optional criterion will be investigated.</li> <li>Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
8	4.3.2.5	Required -- Restriction on materials not compatible with reuse and recycling	<ul style="list-style-type: none"> <li>Each product chosen will be investigated for this required criterion.</li> <li>Criterion verified using Level 2 and 3 investigations.</li> </ul>	2

	Criterion		Verification Selection and Process	# Planned Investigations
9	4.3.3.2	Optional – Marking provided on the product identifying items containing materials with special handling needs	<ul style="list-style-type: none"> <li>• Products claiming this optional criterion will be investigated.</li> <li>• Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
10	4.8.1.1	Required – Elimination of intentionally added heavy metals in packaging	<ul style="list-style-type: none"> <li>• Each product chosen will be investigated for this required criterion.</li> <li>• Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
11	4.8.2.1	Required – Separable packing materials	<ul style="list-style-type: none"> <li>• Each product chosen will be investigated for this required criterion.</li> <li>• Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
12	4.8.2.2	Optional – Packaging 90% compostable/recyclable	<ul style="list-style-type: none"> <li>• Products claiming this optional criterion will be investigated.</li> <li>• Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
13	4.8.2.3	Required – Plastics marked in packaging materials	<ul style="list-style-type: none"> <li>• Each product chosen will be investigated for this required criterion.</li> <li>• Criterion verified using Level 2 and 3 investigations.</li> </ul>	2
			<b>Total</b>	<b>26</b>