



VERIFICATION PLAN: IMAGING EQUIPMENT – ROUND IE-2013-03 AUGUST 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 1680.2™-2012

III. SELECTION OF CRITERIA AND PRODUCTS FOR VERIFICATION

This third Verification Round IE 2013-03 for the IEEE 1680.2™ Standard for the Environment Assessment of Imaging Equipment 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 1680.2™ criteria:

1. 4.1.1.1 Required – Compliance with provisions of European Union RoHS Directive
2. 4.1.2.1 Optional – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)
3. 4.1.4.1 Optional – Reduction of substances on the EU REACH Candidate List of SVHCs
4. 4.1.6.1 Required – Reducing BFR/CFR/PVC content of external plastic casings
5. 4.3.1.1 Required – Ease of disassembly of product
6. 4.3.1.2 Optional – Ease of disassembly of consumer products
7. 4.3.2.1 Required – Use of single recyclable plastic type per plastic part
8. 4.3.2.2 Required – Restriction on materials not compatible with reuse and recycling
9. 4.3.2.3 Required – Manual separation and marking of plastics
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 imaging equipment products and will focus on lower cost products. This Round will involve lab testing of 5 low-end imaging equipment products. It will include a maximum of 65 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 if needed. All PREs with active imaging equipment products will be involved in the Round. From these active products, a Subset of 5 Subscribers will be chosen based on the cost of the product. Not all Subscribers will be chosen during this round.

The Investigations will be chosen as follows:

- For the nine required criteria each chosen Subscriber will be investigated.
- For the four 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:

- EPEAT PRE
- ULE PRE
- Intertek PRE
- DEKRA PRE

VI. VERIFICATION ROUND PLAN APPROVAL

Round Plan approved by PVC by discussion and e-mail on August 30, 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"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 3 investigation. 	5
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. 	5
3	4.1.4.1	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 1, 2 and / or 3 investigations. 	5
4	4.1.6.1	Required – Reducing BFR/CFR/PVC content of external plastic casings	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 3 investigation. 	5
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. 	5
6	4.3.1.2	Optional – Ease of disassembly of consumer products	<ul style="list-style-type: none"> Products claiming this optional criterion will be investigated. Criterion verified using Level 2 and 3 investigations. 	5
7	4.3.2.1	Required – Use of single recyclable plastic type per plastic part	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	5
8	4.3.2.2	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. 	5

	Criterion		Verification Selection and Process	# Planned Investigations
9	4.3.2.3	Required – Manual separation and marking of plastics	<ul style="list-style-type: none"> Each product chosen will be investigated for this required criterion. Criterion verified using Level 2 and 3 investigations. 	5
10	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. 	5
11	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. 	5
12	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. 	5
13	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. 	5
			Total	65*

* 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.