**Green Electronics Council**

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# PLAN FOR VERIFICATION ROUND IE-2017-02

IMAGING EQUIPMENT – IEEE 1680.2

June 2017

## I. PURPOSE AND CONTENTS OF THIS DOCUMENT

This document outlines the plan for a Verification Round of Investigations to be performed in accordance P15 Verification Procedure, this Verification Plan, and EPEAT scheme rules.

## II. SELECTION OF CRITERIA AND PRODUCTS FOR VERIFICATION

Verification Round IE-2017-02 for the IEEE 1680.2™ Standard for the Environment Assessment of Imaging Equipment will investigate all verification requirements for the following 12 criteria:

| Criterion | Description of Criterion | Level 2 | Level 3 |
|---|---|---|---|
| 4.1.1.1 | Required – Compliance with provisions of European Union RoHS Directive | X | X |
| 4.1.2.1 | Optional – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium) | X | X |
| 4.1.4.1 | Optional – Reduction of substances on the EU REACH Candidate List of SVHCs | X | X |
| 4.1.6.1 | Required – Reducing BFR/CFR/CDP content of external plastic casings | X | X |
| 4.3.1.1 | Required – Ease of disassembly of product | X | |
| 4.3.1.2 | Optional – Ease of disassembly of consumer products | X | |
| 4.3.2.1 | Required – Use of single recyclable plastic type per plastic part | X | |
| 4.3.2.2 | Required – Restriction on materials not compatible with reuse and recycling | X | |
| 4.8.1.1 | Required – Elimination of intentionally added heavy metals in packaging | X | X |
| 4.8.2.1 | Required – Separable packing materials | X | |
| 4.8.2.2 | Optional – Packaging 90% compostable/recyclable | X | |
| 4.8.2.3 | Required – Plastics marked in packaging materials | X | |

This Round is intended to assure conformance for Imaging Equipment. This Round will involve lab evaluation of 3 randomly chosen Imaging Equipment products* from Manufacturers who have not yet had full Level 2 / 3 lab testing. The Round will include a maximum of 36 Level 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. In Level 2 and 3 investigations a lab chosen by the

Conformity Assurance Body (CAB) acquires products without the Manufacturer's knowledge, if possible, disassembles them, and conducts detailed analytical testing, as needed.

CABs with active Imaging Equipment products and with Manufacturers whose products have not yet been involved in Level 2 and 3 investigations to date will be eligible for inclusion in this Round. Each CAB will have lab testing completed on no more than 2 products. Each Manufacturer will have lab testing completed for no more than 1 product. Products will be chosen from a list of active products from those Manufacturers claiming all 4 optional criteria targeted in this Round. If there are no products claiming all 4 optional criteria, then products will be selected from a list of products claiming the greatest number of optional criteria from the criteria subject to investigation in this Round.

The Investigations will be chosen as follows:

- The nine required criteria will be investigated for the chosen products.
- For the four optional criteria, each chosen product will be investigated for each optional criterion declared.

* Note: In the event that a randomly chosen product costs more than $10,000, GEC will work with the CAB to determine how to verify the product. This may involve purchasing a subset of parts, a factory visit and / or choosing a different product. The type of investigation may change to Level 1 in certain cases.

The products and criteria will be selected as follows:

| | **Selection Process:** | ***Notes:*** |
|---|---|---|
| Step 1 | A list of products for manufacturers whose products have never been Level 2 / 3 tested will be pulled from the EPEAT Registry. | *Only products that are currently active in the Registry will be included.* |
| Step 2 | For each of the previously identified manufacturers, sort for greatest number of optional criteria and randomly select one product for testing. | *Only manufacturers who have never been fully Level 2 / 3 tested will be considered for this criterion.* |

- All geographies and Manufacturers who have not had products that have been fully Level 2 / 3 tested are eligible for inclusion.
- Exception is as follows: If a product is randomly selected and a chosen criteria has been investigated in the last six months, a new product will be randomly selected.

## III. VERIFICATION PROCESSS

The Verification Round will proceed in accordance with current procedures, as outlined below.

1. The EPEAT Scheme will take a "snapshot" of the Registry. Products will be selected from this document.
2. The EPEAT Scheme will instruct Conformity Assurance Body to proceed with product purchase and the Level 2/3 investigations.

3. After obtaining the products, the Conformity Assurance Body will notify their subject Manufacturers that their products are being investigated, if applicable.
4. The EPEAT Scheme will publish the Verification Round Plan on EPEAT.net.
5. The Conformity Assurance Body instructs a laboratory to conduct testing and analysis.
6. The laboratory conducts Level 2 / 3 testing and creates a Lab Report which is delivered to the Conformity Assurance Body.
7. The Conformity Assurance Body reviews all Lab Reports to ensure they are clear, complete and the evidence supports the recommendation, and forwards the Reports and supporting evidence to the EPEAT Scheme. At the same time, Conformity Assurance Body will forward the draft Reports (without the final Conformity Decision Panel's decision) to the subject Manufacturers.
8. The Conformity Decision Panel will review the Lab Reports and make a decision regarding conformity. The products and Manufacturers will not be disclosed to the Conformity Decision Panel, as the Panel must be blind to the specific product and Manufacturer for which they are making conformity decisions.
9. Conformity Assurance Body will inform the subject Manufacturers of the Conformity Decision Panel's conformity decision. For decisions of Non-Conformance, Manufacturers are required to take corrective action within 14 calendar days to restore the accuracy of the EPEAT Registry.
10. The EPEAT Scheme will publish a "Verification Round Outcomes Report" identifying the nonconforming products and Manufacturers, as well as the action taken to restore accuracy of the Registry.

## IV. CONFORMITY DECISION PANEL

The following individuals are the members of the Conformity Decision Panel:

- Libby Chaplin, CEO, Arcadian Solutions
- Jack Geibig, President, Ecoform
- Robert Pfahl, Pfahl Consulting L.L.C.
- Annette Roesler, Ph.D., Independent Professional Chemist

## V. CONFORMITY ASSURANCE BODIES AND AUDITORS

All investigations will be conducted through Conformity Assurance Bodies approved by the Green Electronics Council. The following Conformity Assurance Bodies may be involved in Investigations for this Verification Round:

- GEC
- ULE

## VI. VERIFICATION ROUND PLAN APPROVAL

This Verification Round Plan was approved by GEC Conformity Assurance staff by discussion and/or email on May 17, 2017.

## VII. SUMMARY OF IE-2017-02 PLANNED INVESTIGATIONS

| Criterion | Verification Selection and Process | # Planned Investigations |
|---|---|---|
| 4.1.1.1 | • Level 2 and 3 investigations.<br>• Targeted investigation of products where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.1.2.1 | • Level 2 and 3 investigations.<br>• Targeted investigation of products where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.1.4.1 | • Level 2 and 3 investigations.<br>• Targeted investigation of products where the manufacturer has never undergone full Level 2 / 3 lab testing. | 2 |
| 4.1.6.1 | • Level 2 and 3 investigations.<br>• Targeted investigation of products where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.3.1.1 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.3.1.2 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 0 (no consumer products were chosen) |
| 4.3.2.1 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.3.2.2 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.8.1.1 | • Level 2 and 3 investigations.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.8.2.1 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.8.2.2 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| 4.8.2.3 | • Level 2 investigation.<br>• Targeted investigation of criteria where the manufacturer has never undergone full Level 2 / 3 lab testing. | 3 |
| | Total | 32 |