

SERI
MANUAL OF POLICIES AND PROCEDURES
FOR R2 STANDARD DEVELOPMENT
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ARTICLE 1 – SCOPE AND PURPOSE

1.1 Introduction to SERI and the R2 Standard Sustainable Electronics Recycling International (“SERI”) is a non-profit organization whose mission includes maintaining and enhancing the Responsible Recycling (“R2”) Standard. The R2 Standard is a global environmental, worker health and safety standard for the electronics refurbishing and recycling industry.

1.2 Scope and Purpose of this Manual This Manual of Policies and Procedures defines the specific operating procedures SERI follows to comply with ANSI’s due process requirements, as set forth in *ANSI Essential Requirements: Due process requirements for American National Standards*:

This Manual shall govern all R2 Standard development activities and codifies SERI’s commitment to bringing open, fair and consensus-driven standard development to the electronics refurbishing and recycling industry.

ARTICLE 2 – RELATED MATERIALS

2.1 Relationship to ANSI Essential Requirements Where this Manual remains silent on an issue, the *ANSI Essential Requirements* shall serve as the precedent document and shall govern the issue’s resolution. Therefore, the *ANSI Essential Requirements* should be considered a companion document to, and principle reference document for, the policies and procedures contained in this Manual.

2.2 Other Related Materials The SERI Board of Directors’ By Laws, and the R2 Technical Advisory Committee Code of Conduct are additional documents that work in coordination with this Manual.

ARTICLE 3 – SERI AS A STANDARD DEVELOPMENT ORGANIZATION

3.1 SERI Standard Development Organization Structure There are four groups associated with SERI that have roles and responsibilities during SERI’s standard development process, and for ensuring that the standard development process conforms with ANSI’s *Essential Requirements* and the requirements of this Manual. They are: The SERI Board of Directors, the R2 Consensus Body, the Technical Advisory Committee, and the R2 Standard Management Team. These roles and responsibilities of each group are set forth below.

3.1.1 SERI Board of Directors. The multi-stakeholder SERI Board of Directors (“BOD”) shall be responsible for the approval and issuance of all revisions to the R2 Standard, and for any other matters requiring BOD review and approval under this Manual or the BOD’s By Laws.

3.1.2 R2 Consensus Body. Under the ANSI *Essential Requirements*, “Consensus is demonstrated, in part, by a vote of the Consensus Body.” ER 2.7. The R2 Consensus Body shall serve as the Consensus Body for the R2 Standard development process. The R2 Consensus Body shall be responsible for maintaining and enhancing the R2 Standard consistent with this Manual and SERI’s Purpose and Mission, and for any other matters requiring R2 Consensus Body action under this Manual.

3.1.3 R2 Technical Advisory Committee Prior to each five-year review undertaken by the R2 Consensus Body pursuant this Manual, the SERI BOD shall establish a multi-stakeholder R2 Technical Advisory Committee (“TAC”) to assist the R2 Consensus Body in developing and drafting revisions to the R2 Standard. A TAC also may be established for standard development activities undertaken between the five-year review processes as the SERI BOD deems necessary.

3.1.4 R2 Standard Management Team. The R2 Standard Management Team (“SMT”) shall be responsible for administering the R2 standard development process and for ensuring that all R2 Standard development activity is undertaken in accordance with this Manual and the ANSI *Essential Requirements*. The SMT shall include a representative from the SERI BOD, SERI’s Executive Director, the R2 Standard Manager and any other individual(s) the BOD may appoint.

3.2 R2 Consensus Body Membership

3.2.1 Membership Qualifications R2 Consensus Body membership shall be open to any individual with a direct and material interest in electronics recycling and the R2 Standard, subject to the selection procedures, size limitations, balance and dominance criteria, and other requirements set forth in this Manual.

3.2.2 Maximum Size The overall size of the R2 Consensus Body shall not exceed 17 members.

3.2.3 Interest Categories All members of the R2 Consensus Body shall be classified in accordance with the following interest categories:

- Entities Covered by the Standard
- Customers of Entities Covered by the Standard
- Regulatory/Public Interest/Other Stakeholders

Definitions of each interest category are found in Appendix A.

3.2.4 Balance Historically under *ANSI's Essential Requirements*, "the criteria for balance are that a) no single interest category constitutes more than one-third of the membership of a Consensus Body dealing with safety-related standards, or b) no single interest category constitutes a majority of the membership of a Consensus Body dealing with other than safety-related standards." With these criteria as guidance, the SERI BOD shall make a concerted effort to achieve balance of interest categories on the R2 Consensus Body. The SMT shall ensure appropriate outreach is undertaken and that evidence of this outreach is retained.

3.2.5 Dominance No single interest category or individual R2 Consensus Body member may exercise authority or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints on the R2 Consensus Body. If any directly and materially affected party believes such domination exists, that party may file a complaint with the SMT detailing their dominance claim in writing. The SMT shall review the status of the party filing the complaint and, if it deems the complaint potentially to have merit, shall forward the complaint to the SERI BOD for review and potential corrective action.

3.2.6 Selection of Members

3.2.6.1 Eligibility The SERI BOD shall select R2 Consensus Body members on the basis of their interest in, knowledge of and experience with electronics recycling and the R2 Standard; their commitment to SERI's Mission; their affiliations and interest category classification under this Manual, and their willingness to sign and adhere to the TAC Code of Conduct. Whenever possible, R2 Consensus Body members shall possess the requisite technical knowledge, but those without such knowledge also may be members. A concerted effort shall be made by the SERI BOD to assure a broad representation of relevant perspectives on the R2 Consensus Body.

3.2.6.2 Written Application Any individual with a direct and material interest in electronics recycling and the R2 Standard may seek membership on the R2 Consensus Body by

submitting a written application to the SMT which sets forth: (1) their interest in, qualifications for, and ability to contribute to the work of the R2 Consensus Body; and (2) any and all affiliations which might affect their interest category classification under this Manual.

3.2.6.3 Membership Decisions The SERI BOD shall consider each application in light of the overall needs and makeup of the R2 Consensus Body. It shall notify each applicant of its decision in writing (via email). The SERI BOD's decisions on membership shall be final.

3.2.7 Non-transferrable An "R2 Consensus Body member" is defined as the individual appointed to each R2 Consensus Body seat, not the organization or company with whom the individual is associated. Seats are not transferrable within an organization or company without prior approval given by the SERI BOD.

3.2.8 Term of Membership R2 Consensus Body members shall have three-year terms and may serve for no more than two consecutive terms.

3.2.9 Termination R2 Consensus Body members shall retain their seats for the duration of their term except in cases where they (1) resign, (2) fail to conform to the TAC Code of Conduct, (3) change employer/affiliation, or (4) have a substantive change in job responsibilities. The SERI BOD shall make determinations in situations involving (2), (3), and (4), and may ask a member to retain his or her seat notwithstanding a change in employment or job responsibilities if the change does not affect the member's interest category classification under this Manual.

3.2.10 Appointment of Co-Chairs The R2 Consensus Body shall appoint three Co-Chairs from its membership, one co-chair from each interest category classification under this Manual. The R2 Consensus Body members representing each interest category shall select the co-chair from that interest category. The Co-Chairs shall fulfill the duties assigned to them under this Manual.

3.3 R2 TAC Membership

3.3.1 Membership Qualifications R2 TAC membership shall be open to individuals who have a direct and material interest in electronics recycling and the R2 Standard, subject to the selection procedures, size limitations, and balance and dominance criteria set forth in this Manual. The TAC also shall include all current members of the R2 Consensus Body. It shall also include, to the extent possible, additional representatives from each interest category identified above. The TAC also shall include at least one representative of SERI's BOD; an R2 certification body; one R2 auditor employed by, or under contract to, an R2 certification body; and one consultant that works with recyclers on R2 certification.

3.3.2 Maximum Size The overall size of the TAC shall not exceed 45 members.

3.3.3 Balance and Dominance The SERI BOD, in forming the TAC, shall make all reasonable efforts to provide it with a balance of interests and to ensure that its development process is not

dominated by any single interest category, individual or organization.

3.3.4 Selection of Members

3.3.4.1 Eligibility The SERI BOD shall select TAC members on the basis of their interest in, knowledge of and experience with electronics recycling and the R2 Standard; their commitment to SERI's Purpose and Mission; their interest category classification under this Manual; and their willingness to sign and adhere to the TAC Code of Conduct. Whenever possible, TAC members shall possess the requisite technical knowledge, but those without such knowledge also may be members.

3.3.4.2 Written Application Any individual with a direct and material interest in electronics recycling and the R2 Standard may seek membership on the TAC by submitting a written application to the SMT which sets forth: (1) their interest in, qualifications for, and ability to contribute to the work of the R2 TAC; and (2) any and all affiliations which might affect their interest category classification under this Manual.

3.3.4.3 Membership Decisions The SERI BOD shall consider each application in light of the overall needs and makeup of the TAC. It shall notify each applicant of its decision in writing (via email). The SERI BOD's decisions on membership shall be final.

3.3.5 Non-transferrable An "R2 TAC member" is defined as the individual appointed to each R2 TAC seat, not the organization or company with whom the individual is associated. Seats are not transferrable within an organization or company unless prior approval is given by the SERI BOD.

3.3.6 Term of Membership R2 TAC members shall serve up to two three-year terms.

3.3.7 Termination R2 TAC members shall retain their seats for the duration of their terms except in cases where they (1) resign, (2) fail to conform to the TAC Code of Conduct, (3) change employers, or (4) have a substantive change in job responsibilities. The SERI BOD shall make determinations in situations involving (2), (3), and (4), and may ask a member to retain his or her seat notwithstanding a change in employment or job responsibilities if the change does not affect the member's interest category classification under this Manual.

3.3.8 Co-Chairs The Co-Chairs of the R2 Consensus Body shall also chair the R2 TAC.

ARTICLE 4 –SERI’s R2 STANDARD DEVELOPMENT PROCESS

4.1 Initiation of a Draft Standard Proposal

4.1.1 Five-Year Review A revision or reaffirmation of the R2 Standard shall be completed by the end of each fifth year as part of SERI’s mission to maintain and enhance the R2 Standard, and in compliance with the ANSI *Essential Requirements*, unless an extension is granted by ANSI. Prior to the end of each five year cycle, or any extension granted, the R2 Consensus Body shall submit a Draft Standard Proposal to the SMT in accordance with this Manual.

4.1.2 Interim Review The R2 Consensus Body, any member or subgroup, and member of the TAC, or any other party with a direct and material interest in electronics recycling and the R2 standard may submit a Draft Standard Proposal to the SMT at any time in accordance with this Manual.

4.1.3 Written Submission Draft Standard Proposals must be submitted in writing to the SMT and include an explanation of the need for and scope of the action(s) proposed, the specific draft language proposed, if applicable, and an identification of all stakeholders likely to be affected.

4.1.4 Preliminary Approval The SMT shall convey all Draft Standard Proposals to the R2 Consensus Body for preliminary approval. The R2 Consensus Body shall determine whether to preliminarily approve each Draft Standard Proposal based on an evaluation of its value in clarifying or improving the R2 Standard.

4.1.5 Notification to ANSI Upon preliminary approval of a Draft Standard Proposal by the R2 Consensus Body, the SMT shall provide “project initiation” notice to ANSI under its Project Initiation Notification System (PINS), in a form appropriate for publication in ANSI’s *Standards Action*. Prompt consideration shall be given to all comments on the PINS announcement in *Standards Action*, in accordance with the ANSI *Essential Requirements* and this Manual.

4.2 Drafting Stage

4.2.1 Preparation of Draft Standard The R2 TAC shall prepare a Draft Standard in accordance with the Draft Standard Proposal and all comments received thereon. The drafting stage shall continue until a determination is made by the Co-Chairs that the current draft represents the best efforts of the drafting body.

4.2.2 Consensus in the Drafting Process - individual changes to the Draft Standard shall be considered during the drafting process with the intent to reach consensus about each individual change. If consensus for an individual change is not achievable by the quorum of R2 TAC members in attendance, R2 Consensus Body members may make a motion to vote on the individual change(s) to determine if there is consensus of two-thirds majority of all R2 Consensus Body members. Prior to any vote, R2 TAC members in attendance will be afforded the opportunity to state their support or concern.

4.2.3 R2 Consensus Body Consideration of Draft Standard Upon a determination by the Co-Chairs to close the drafting stage, the Draft Standard shall be submitted to the R2 Consensus Body for consideration. The R2 Consensus Body may make changes to the Draft Standard. When the Consensus Body deems the Draft Standard ready, it shall submit it to the SMT for publication and solicitation of public comment.

4.3 Public Comment

4.3.1 Notice The SMT shall be responsible for providing notice of each Draft Standard to the public for comment. Notice shall be provided through the SERI website, the SERI newsletter and any other means deemed suitable for reaching directly and materially affected parties, and shall include electronic access to the full Draft Standard document. The SMT also shall be responsible for providing public comment notice to ANSI, appropriate for publication in *Standards Action*.

4.3.2 Comment Period The official notice for each Draft Standard shall require that all interested parties submit their comments in writing (email) to the SMT within forty-five days.

4.3.3 Consideration of Comments by the R2 Consensus Body The SMT shall circulate all written comments received prior to the close of the comment period to the R2 Consensus Body for consideration. The R2 Consensus Body shall make an effort to resolve any objections to the Draft Standard that it receives. In reviewing and deliberating on the comments, the R2 Consensus Body should request the assistance of the R2 TAC.

4.3.4 Disposition of Objections All objectors shall be informed in writing, including electronic communication, of the disposition of their objections within sixty days from the close of the comment period. This shall be accomplished by distribution to all commenters of a single document containing all comments, the dispositions of each, and the reasons therefore. This document also shall notify objectors of their right to appeal, as set forth under this Manual and the ANSI *Essential Requirements*.

4.3.5 Recirculation of Unresolved Objections Each unresolved objection, attempt at resolution and any substantive changes made to the Draft Standard shall be recirculated to the full R2 Consensus Body in order to afford all members an opportunity for review, consideration and response.

4.3.6 Substantive Changes Any substantive changes to a Draft Standard resulting from consideration of public comments shall be announced for another round of public comments, limited to the scope of changes made.

ARTICLE 5 – CONSENSUS PROCEDURES

5.1 Consensus Decisions Once the public comment period has closed and all objections and attempted resolutions have been circulated for R2 Consensus Body consideration, the R2 Consensus Body shall vote upon the Draft Standard in accordance with the following procedures.

5.2 Voting Positions Each R2 Consensus Body member shall vote one of the following positions:

1. Affirmative;
2. Affirmative with comment;
3. Negative with comment (if possible include specific wording or actions that would resolve the objection); or
4. Abstain

All R2 Consensus Body voting members shall be given the opportunity to vote on each Draft Standard, regardless of whether they are in attendance at a given meeting. Votes may be cast during in-person meetings, conference calls, and/or by email or other electronic means (e.g., voting survey or other tool) as agreed by the R2 Consensus Body.

5.3 Consideration of Voting Positions For each negative vote with comment, the Consensus Body shall make an effort to resolve the objection and the objector shall be informed in writing of the disposition of the objection and the reasons therefore. If resolution of an objection is not achieved (i.e. if the objector is not satisfied with the outcome), the objector shall be informed in writing that an appeals process exists, as set forth in this Manual and the *ANSI Essential Requirements*.

5.4 Recirculation of Unresolved Objections Each unresolved objection, attempt at resolution and any substantive changes made to the Draft Standard shall be reported to the full R2 Consensus Body in order to afford all R2 Consensus Body members an opportunity to respond, reaffirm or change their votes.

5.5 Substantive Changes – Public Comment Any substantive changes to a Draft Standard resulting from consideration of voting comments shall be announced for another round of public comments.

5.6 Final Decision Final consensus decisions by the R2 Consensus Body on Draft Standards shall require an affirmative vote of at least a two-thirds majority of all members of the R2 Consensus Body.

ARTICLE 6 – FINAL ADOPTION

6.1 SERI BOD Review Following an R2 Consensus Body vote to approve a Draft Standard, the Draft Standard shall be sent to the BOD, which shall have a sixty-day period to review the new language for consistency with SERI’s Mission.

6.2 Remand Option At the conclusion of its review, the BOD may adopt the Draft Standard or remand it for further consideration by the R2 Consensus Body. If the BOD chooses to remand a Draft Standard, it shall identify the grounds for its decision and suggest substitute language or action. The R2 Consensus Body may then work to address the BOD concerns by re-drafting and re-voting on new language using the procedures, including public comment, contained in this Manual.

6.3 Adoption and Implementation A Draft Standard becomes final once the BOD has undertaken a review of an R2 Consensus Body vote to approve the Draft Standard and let it stand. SERI will then submit the Draft Standard to ANSI for its review, along with all necessary documentation regarding the standard development process. Following final adoption, reasonable time shall be allowed for implementation of the revised R2 Standard by Certification Bodies.

ARTICLE 7 – APPEALS

7.1 Right to Appeal Any R2 Standard development process participant, including R2 Consensus Body members, TAC members and public commenters, shall have the right to appeal any R2 Consensus Body action or inaction related to the R2 Standard development process.

7.2 Grounds for Appeal Appeals are permitted on grounds of procedural nonconformity with this Manual or the ANSI *Essential Requirements*, including whether a technical issue was afforded due process (as defined in the ANSI *Essential Requirements*). Appeals regarding technical or substantive content of the R2 Standard are not permitted.

7.3 Written Submission All appeals must be submitted in writing via email to the SMT within fourteen days after the procedural action. Appeals for inaction can be submitted at any time. The appeal shall state:

1. The way in which the R2 Consensus Body decision-making process did not substantially conform to the requirements of this Manual or the ANSI *Essential Requirements*;
2. The specific disadvantage(s) caused by the alleged non-conformity; and
3. The specific relief requested.

7.4 Response Upon receipt of an appeal submitted in accordance with this Manual, the SMT shall circulate the appeal to the SERI BOD for review and consideration. Within sixty days after receipt of an

appeal, the SERI BOD shall respond in writing to the Appellant in an attempt to resolve the Appellant's complaint(s). To preserve impartiality, any SERI BOD member that may have direct and materially affected interests or benefit or be adversely affected by the SERI BOD decision shall be recused from any deliberation and decisions regarding the appeal.

7.5 Appeals Panel If an Appellant's complaint(s) cannot be resolved to his or her satisfaction in this manner, the SMT shall appoint a panel to hold a hearing at a time agreeable to all parties. The panel shall consist of three individuals who are knowledgeable about the standards process and were not involved in the actions or inactions at issue, two of which must be agreeable to both the Appellant and the SMT, with the third appointed by the first two. Panel members may not have direct and materially affected interests nor be potentially affected by any action or inaction by the panel to decide the appeal.

7.6 Appeals Hearing At the Appeals Hearing it is the Appellant's responsibility to present evidence showing how the procedural actions or inactions at issue did not conform with this Manual or the ANSI *Essential Requirements*; the disadvantages suffered as a result of those procedural actions or inactions; and the efficacy of the requested relief. The Respondent has the responsibility to present evidence showing that the procedural actions or inactions at issue were in compliance with this Manual and the ANSI *Essential Requirements*; and that the requested remedy would be ineffective and/or detrimental. The burden of proof rests on the Appellant.

7.7 Final Decision The Appeals Panel shall notify the parties in writing of its decision, together with supporting arguments and evidence, within sixty days after the Appeals Hearing's completion.

7.8 ANSI Appeal Persons with direct or material interests in R2 Certification who have been or will be adversely affected by a procedural action or inaction by SERI's R2 standards development process as set out in this manual have the right to appeal to ANSI. Such appeals shall be directed to ANSI in accordance with the procedures of the appropriate ANSI board or council. Appeals will not normally be heard by ANSI until the appeals process in Article 7 has been completed.

ARTICLE 8 – DISCONTINUANCE OF STANDARD DEVELOPMENT PROJECT

SERI, by and through its BOD, may decide to abandon the processing of a proposed new or revised American National Standard, or portion thereof, at its own discretion and without a vote of the Consensus Body. SERI must notify ANSI immediately of such actions, which will be announced in Standards Action.

ARTICLE 9 – WITHDRAWAL OF AMERICAN NATIONAL STANDARD

An American National Standard must be supported by an ANSI-Accredited Standards Developer. If SERI, by and through its BOD, wishes to withdraw its approval of one or more of its American National Standards it may do so without a vote of the Consensus Body. If SERI does withdraw an American National Standard then it shall notify ANSI immediately and the Standard shall be withdrawn as an ANS and announced in Standards Action.

ARTICLE 10 – INTERPRETATIONS POLICY

10.1 Written Submission A request for a formal explanation of the meaning or intent of a specific provision of the R2 Standard may be submitted by any materially affected party. It must be submitted in writing to the SMT and include the following information:

1. The name and contact information of the requestor;
2. The specific provision of the R2 Standard at issue;
3. A statement demonstrating the requestor's direct and material interest in the R2 Standard and the provision at issue; and
4. A statement of the question(s) involving the provision at issue.

10.2 Response Upon receipt of a written request for an interpretation submitted in accordance with this Manual, the SMT shall circulate the request to the R2 Consensus Body which, with input from the TAC, shall prepare a draft response. If the draft response includes a statement of interpretation, the SMT shall submit the statement of interpretation to the SERI BOD for review and final approval. Notification of approved interpretations shall be provided by the SMT in writing to the requestor, and to users of the R2 Standard through the SERI newsletter, website and other appropriate means. Furthermore, all such interpretations shall be made available on the SERI website. Any statement, written or oral, that is not processed in accordance with these procedures shall not be considered or relied upon as a formal interpretation of the R2 Standard.

ARTICLE 11 – PATENT POLICY

SERI accepts and adopts the ANSI Patent Policy, as outlined in the ANSI *Essential Requirements*.

ARTICLE 12 – METRIC POLICY

SERI accepts and adopts the ANSI Metric Policy, as outlined in the ANSI *Essential Requirements*.

ARTICLE 13 – COMMERCIAL TERMS AND CONDITIONS POLICY

SERI accepts and adopts the ANSI Commercial Terms and Conditions Policy, as outlined in the *ANSI Essential Requirements*.

ARTICLE 14 – ANTITRUST POLICY

SERI accepts and adopts the ANSI Antitrust Policy, as outlined in the *ANSI Essential Requirements*.

ARTICLE 15 – RECORD KEEPING

The SMT shall be responsible for collecting and preserving all records related to the R2 Standard development process and shall retain such records for at least five years, until approval of the subsequent revision, reaffirmation of the full standard, or reviewed in connection with the stabilized maintenance of the standard as an ANSI National Standard. If an extension to the standard cycle is granted by ANSI, case records shall be retained for the entirety of the extended standard cycle. The SMT also shall be responsible for ensuring compliance with PINS and any other applicable record keeping and notice requirements mandated by the *ANSI Essential Requirements*.

ARTICLE 16 – OPERATIONS

16.1 BOD Operations The SERI BOD shall conduct its activities as specified in this Manual and in accordance with the BOD By-laws.

16.2 R2 Consensus Body The R2 Consensus Body shall meet in person at least once each year. All members of the TAC shall be invited to these meetings. These meetings shall be organized by the R2 Consensus Body Co-Chairs. Notice of meetings shall be provided in the SERI newsletter, on the SERI website and in other media suitable for providing an opportunity for participation by all directly and materially affected parties. The public may attend these meetings and opportunity for public comment shall be provided.

16.3 TAC Operations The R2 Consensus Body shall set forth the meeting schedule, procedures, and policies for the TAC.

ARTICLE 17 – AMENDMENTS TO THIS MANUAL

This Manual of Policies and Procedures may be amended only by the SERI BOD.

APPENDIX A – Glossary of Acronyms & Terms

American National Standard (ANS): A standard developed by an ANSI-accredited standards developer and approved by the ANSI Board of Standards Review.

American National Standards Institute (ANSI): A national organization with the stated mission “[t]o enhance both the global competitiveness of U.S. business and the U.S. quality of life by promoting and facilitating voluntary consensus standards and conformity assessment systems, and safeguarding their integrity.” http://www.ansi.org/about_ansi/overview/overview.aspx?menuid=1

ANSI Essential Requirements: The *ANSI Essential Requirements: Due process requirements for American National Standards*, a set of due process requirements governing standard development activities, to which all ANSI-accredited standard development organizations must adhere.

ANSI Standards Action: The ANSI weekly publication providing members and the public with timely information about, and seeking active participation in, standards development activities worldwide.

BOD: SERI’s Board of Directors

Customers: One of the three main interest categories of stakeholders participating on the Consensus Body and Technical Advisory Committee. This interest category includes the customers of the services provided by R2 certified electronics recyclers and refurbishers.

Draft Standard: A draft of the R2 Standard submitted to ANSI for initial approval as an ANS, prepared by the R2 Consensus Body, and submitted for public comment.

Draft Standard Proposal: A written submittal made in accordance with this Manual to the SMT, by the R2 Consensus Body or another eligible party, seeking to initiate an R2 Standard development action.

Entities Covered by the Standard: One of the three main interest categories of stakeholders participating on the Consensus Body and Technical Advisory Committee. This interest category includes any organization that can be certified to the R2 Standard.

Manual: SERI’s Manual of Policies and Procedures for R2 Standard Development.

PINS: ANSI’s Project Initiation Notification System.

Regulatory/Public Interest/Other Stakeholders: One of the three main interest categories of stakeholders participating on the Consensus Body and Technical Advisory Committee. This interest category includes entities of international, national, state or local governments; and any other individual or organization that has an interest in, is materially affected by, or has special expertise

regarding electronics recycling and the R2 Standard and does not fall under one of the other two interest categories.

R2 Consensus Body: The SERI group responsible for approving Draft Standard Proposals and Draft Standards and whose vote demonstrates evidence of consensus.

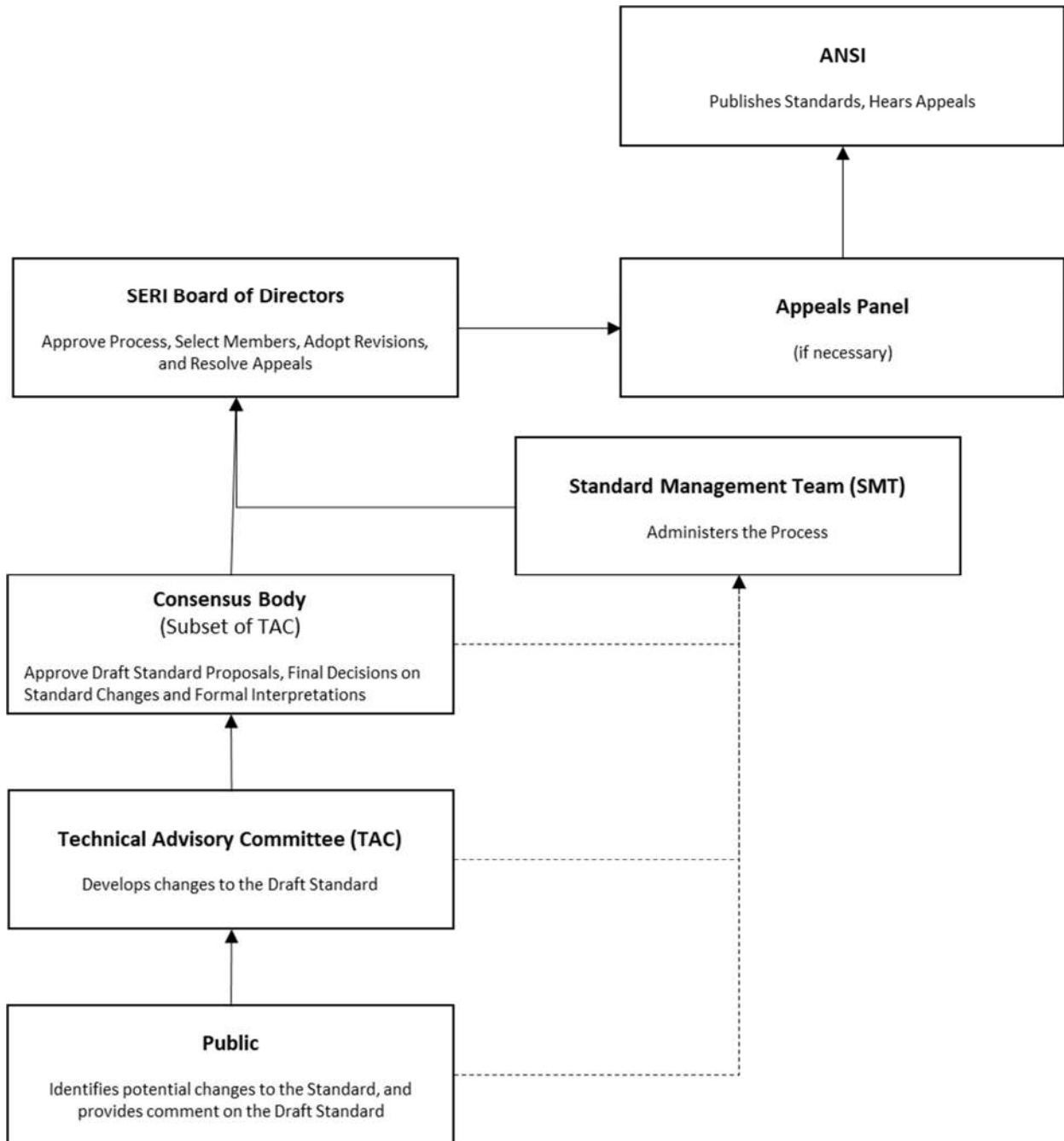
R2 Consensus Body Member: The individual appointed to each R2 Consensus Body seat, not the organization or company with whom the individual is associated.

SMT: The Standards Management Team, which is responsible for administering the standard development process and assuring that the process conforms to this document and ANSI's *Essential Requirements*.

TAC: Technical Advisory Committee; the body made up of stakeholders responsible for providing technical and other guidance during the R2 Standard development process.

TAC Member: The individual appointed to each TAC seat, not the company or organization with which the individual is associated.

APPENDIX B – SERI as SDO: Organizational Chart



Appendix C – Outline of Key Steps in the R2 Standard Development Process

Initiation of an R2 Standard development project: A written proposal to revise or affirm the R2 Standard is submitted to the SMT, either by R2 Consensus Body members or by another interested party. The SMT sends each *Draft Standard Proposal* to the full R2 Consensus Body for preliminary approval.

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Preliminary approval: The R2 Consensus Body decides whether to preliminary approve each *Draft Standard Proposal* based on its value in clarifying or improving the R2 Standard.

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ANSI Notice: Upon preliminary approval of a *Draft Standard Proposal*, the SMT provides notice to ANSI under the Project Initiation Notice System (“PINS”).

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Drafting: Once ANSI notice is provided the R2 TAC may begin preparing a *Draft Standard* as a whole, by committee or otherwise. Drafting continues until the TAC Co-Chairs determine that the current version represents the best efforts of the Committee. The final *Draft Standard* is then sent to the R2 Consensus Body for review and final revision, before submission to the SMT for notice and comment.

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ANSI Notice/Public comment: The SMT provides notice of and electronic access to the full *Draft Standard* document through the SERI website, SERI newsletter and in ANSI’s “Standards Action.” Comments must be submitted in writing to the SMT w/in 45 days and are circulated to the R2 Consensus Body for consideration and attempted resolution of any objections, with assistance from the TAC as needed.

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Recirculation of objections: Each unresolved objection is re-circulated to the R2 Consensus Body for consideration. Objectors are given notice of the disposition of their objections and their right to appeal.

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Additional Public Comment: Any substantive changes to the *Draft Standard* resulting from consideration of public comments are announced for another round of public comment.

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Consensus: Once public comment closes, R2 Consensus Body members ballot the final *Draft Standard* by voting affirmative or negative, with or without comments. Efforts are made to resolve any negative voting comments. Any unresolved voting comments are re-circulated to the R2 Consensus Body so members can reaffirm or change their votes. At least a 2/3 majority of the R2 Consensus Body must vote affirmative to send the *Draft Standard* to the SERI BOD for final approval.

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Adoption: After receiving a *Draft Standard* the SERI BOD has 60 days to review and adopt it, or return it to the R2 Consensus Body with specific grounds for further consideration. If the BOD undertakes its 60 day review and lets a *Draft Standard* stand it becomes final.

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Appeals: Any participant in the R2 Standard development process (TAC member, R2 Consensus Body member, public commenter) may submit an appeal to the SMT on the sole grounds that the process did not meet the procedural requirements of the Manual and/or the ANSI ER's. If attempts to informally resolve the Appeal fail, the SMT appoints an Appeals Panel, holds an Appeals Hearing and provides notice of the Panel's final decision to all participants and ANSI.

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ANSI Notice: After completing any Appeals process, the SMT submits the adopted *R2 Draft Standard*, together with documentation demonstrating evidence of due process and achievement of consensus, to ANSI for final approval by the ANSI Board of Standards Review.

REVISION HISTORY

Revision No.	Date of Revision	Revision Details
1.0	June 14 2019	<ul style="list-style-type: none"> • Deleted URL from section 1.2: http://publicaa.ansi.org/sites/apdl/Documents/Standards%20Activities/American%20National%20Standards/Procedures,%20Guides,%20and%20Forms/2015_ANSI_Essential_Requirements.pdf • Addition of the following statements under 4.2.2: <ul style="list-style-type: none"> ○ Consensus in the Drafting Process - individual changes to the Draft Standard shall be considered during the drafting process with the intent to reach consensus about each individual change and ○ Prior to any vote, R2 TAC members in attendance will be afforded the opportunity to state their support or concern. • Added under section 4.3.6 the following statement: limited to the scope of changes made.” • Added under Section 7.2 Grounds for Appeal the following sentence: including whether a technical issue was afforded due process (as defined in the <i>ANSI Essential Requirements</i>) • Added the following sentence under section 7.4 (Response): To preserve impartiality, any SERI BOD member that may have direct and materially affected interests or benefit or be adversely affected by the SERI BOD decision shall be recused from any deliberation and decisions regarding the appeal. • Added the following sentence under Section 7.5 Appeals Panel: Panel members may not have direct and materially affected interests nor be potentially affected by any action or inaction by the panel to decide the appeal. • Added a new section 7.8 ANSI Appeal: Persons with direct or material interests in R2 Certification who have been or will be adversely affected by a procedural action or inaction by SERI’s R2 standards development process as set out in this manual have the right to appeal to ANSI. Such appeals shall be directed to ANSI in accordance with the procedures of the appropriate ANSI board or council. Appeals will not normally be heard by ANSI until the appeals process in Article 7 has been completed.

		<ul style="list-style-type: none">• Added the following sentence under Appendix 15 (Record Keeping): until approval of the subsequent revision, reaffirmation of the full standard, or reviewed in connection with the stabilized maintenance of the standard as an ANSI National Standard.• Added under Appendix A (ANSI) the following url: http://www.ansi.org/about_ansi/overview/overview.aspx?menuid=1• Deleted URL from Appendix A (ANSI Essential Requirements): http://publicaa.ansi.org/sites/apdl/Documents/Standards%20Activities/American%20National%20Standards/Procedures,%20Guides,%20and%20Forms/2015_ANSI_Essential_Requirements.pdf
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