



IEEE P2800—Standard for Interconnection and Interoperability of Inverter-Based Resources Interconnecting with Associated Transmission Electric Power Systems

JENS C. BOEMER, WG CHAIR*

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MAHESH MORJARIA, MANISH PATEL, CHENHUI NIU, VICE-CHAIRS
DIWAKAR TEWARI, SECRETARY & TREASURER**

February 16, 2021 – IEEE SA Ballot Update

General Information for the Interested Public - <https://sagroups.ieee.org/2800/>

*Also Chair of the sponsoring ED&PG Wind and Solar Plant Interconnection Working Group ([Link to Website](#))

This effort is, in part, funded by the Alliance for Sustainable Energy, LLC, Managing and Operating Contractor for the National Renewable Energy Laboratory (NREL) for the U.S. Department of Energy (DOE) under the DOE project “Accelerating Systems Integration Standards II (ACCEL II)” under the grid performance and reliability topic area focusing on the distribution grid.



Outline – Joint IEEE-ESIG-PSERC-CURRENT Webinar – February 16, 2021

- Welcome by IEEE SA – *1 min.*
 - Jason Allnutt, IEEE SA
- Presentation by Jens C. Boemer (WG Chair) – *35 min.*
 - IEEE P2800: purpose, scope, schedule
 - High-level review of selected draft requirements
 - Potential adoption of IEEE 2800 in North America
- How to join the ballot group? (Step-by-Step Instructions) – *5 min.*
 - Malia Zaman, IEEE SA Staff Liaison
- Comments by hosting organizations – *4 min.*
 - Jason Allnutt, IEEE SA
 - Raja Ayyanar, PSERC
 - Jason MacDowell, ESIG
 - Yilu Liu, CURENT
- Q&A - *15 min.*

Summary of IEEE P2800 Draft Standard

- The draft standard harmonizes Interconnection Requirements for Large Solar, Wind and Storage Plants
- It is based on consensus developed by over ~200 participants from all utilities, system operators, transmission planners, OEMs and others over 2 years
- You can further influence the draft standard by participating in the IEEE Ballot Pool – *invitation closes March 3, 2021*

Solar, Wind & Storage Interconnection Requirements

– Status Quo

- Diverse & different requirements across responsible entities
- Inverter-based resources are different from synchronous generators
- Requirements may not be balanced



Source: <https://www.natf.net/>

IEEE P2800 Objective: Filling Gaps in North American Interconnection Standards

		Performance	Test & Verification & Model Validation
FERC / NERC?	Transmission	<ul style="list-style-type: none"> • FERC Orders • NERC Reliability Standards & Guidelines 	<ul style="list-style-type: none"> • NERC compliance monitoring & enforcement
	Sub-Transmission	<ul style="list-style-type: none"> • Not available 	<ul style="list-style-type: none"> • Not available
NARUC / State PUCs?	Distribution (for DER)	<ul style="list-style-type: none"> • IEEE Std 1547-2018 ✓ 	<ul style="list-style-type: none"> • IEEE 1547.1-2020 ✓ • UI 1741 (SB) • IEEE ICAP



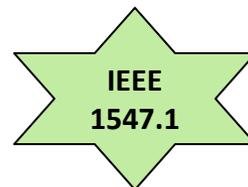
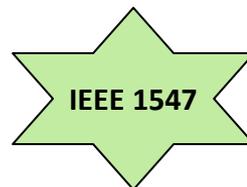
DER: Distributed Energy Resources

When adopted by the appropriate authority (e.g., Transmission Owners, NERC, FERC), IEEE standards become mandatory

IEEE Standards Classification and Consensus Building



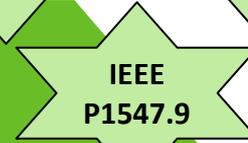
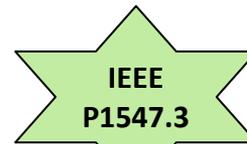
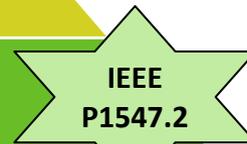
Standards
documents
specifying mandatory
requirements (*shall*)



Recommended Practices
documents in which procedures and
positions preferred by the IEEE are
presented (*should*)



Guides
documents that furnish information – e.g., provide alternative
approaches for good practice, suggestions stated but no clear-cut
recommendations are made (*may*)



What to expect from IEEE P2800?

■ Provides Value

- widely-accepted, unified technical minimum requirements for IBR
- simplification and speed-up of technical interconnection negotiations
- flexibility for IBR plant developers → not an equipment design standard

■ Specifies

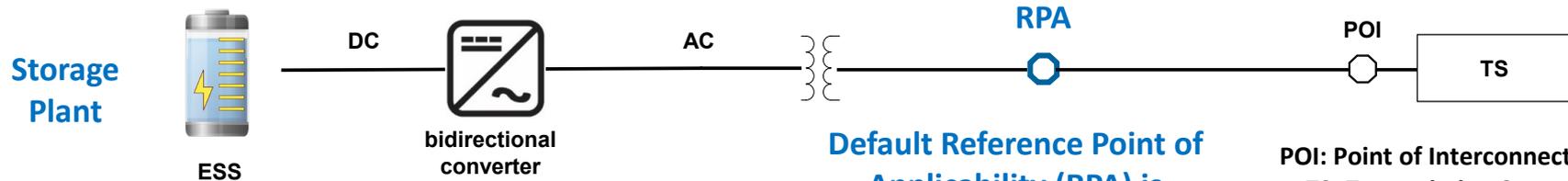
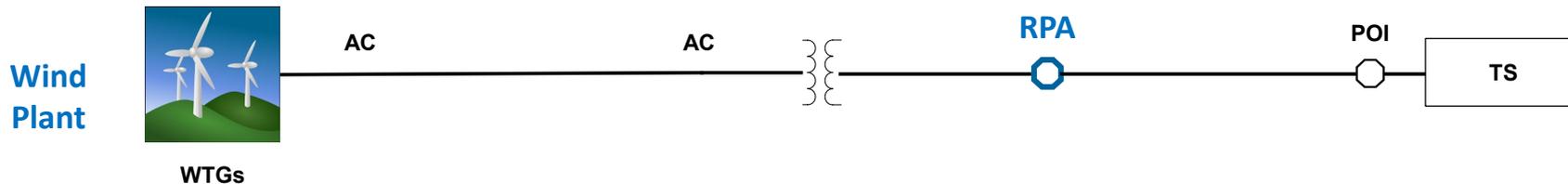
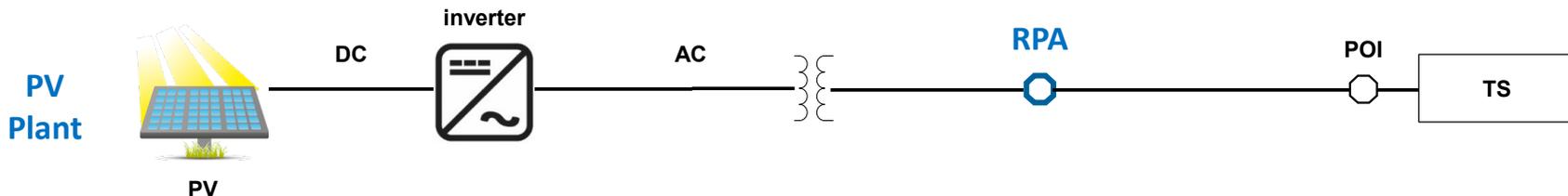
- performance and functional capabilities ≠ utilization & services
- functional default settings and ranges of available settings
- performance monitoring and model validation
- type of tests, plant-level evaluations, and other verifications means, but not detailed procedures (→ IEEE P2800.1 and/or P2800.x)

■ Scope

- Limited to all transmission and sub-transmission connected, large-scale wind, solar, energy storage and HVDC-VSC

Examples for Inverter-Bases Resources (IBR) Plants

in scope

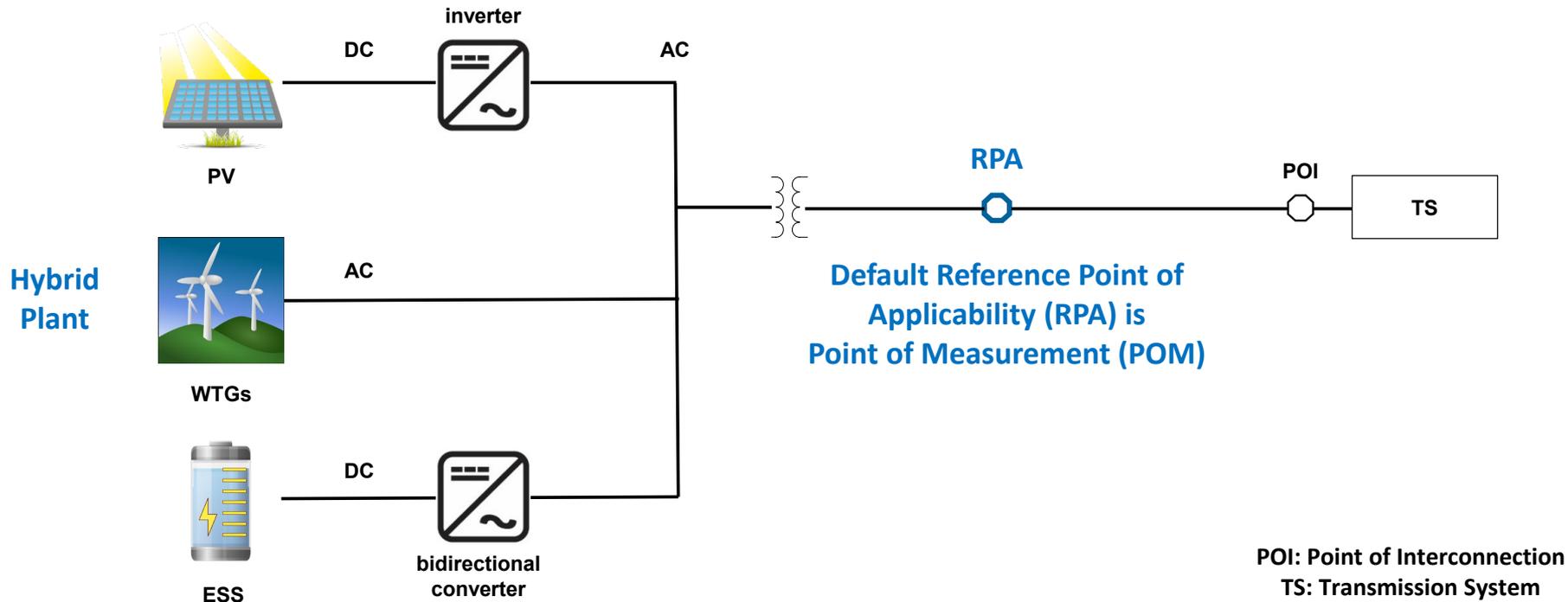


Default Reference Point of Applicability (RPA) is Point of Measurement (POM)

POI: Point of Interconnection
TS: Transmission System

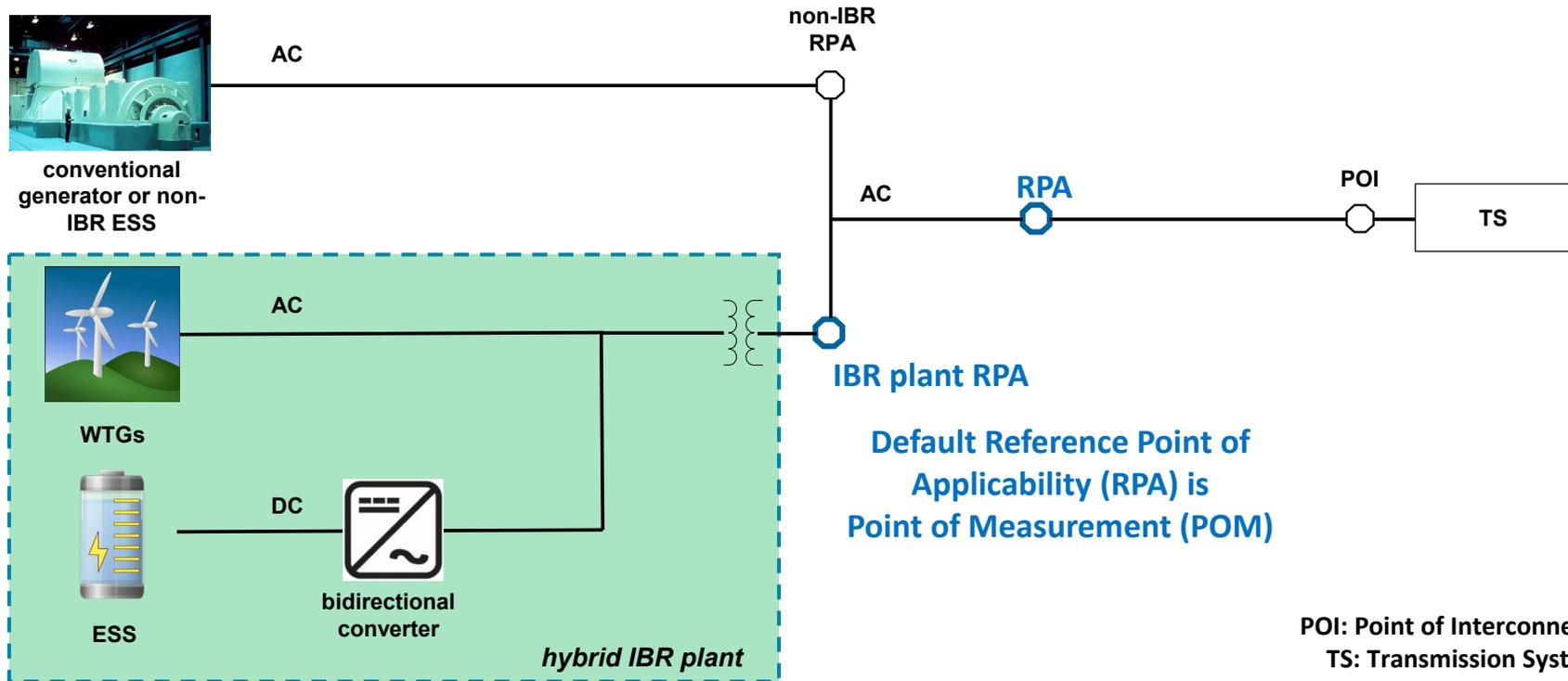
Example *hybrid IBR plant, ac-coupled*

in scope



Example *hybrid plant*: operated as a single resource

in scope



POI: Point of Interconnection
TS: Transmission System

IEEE P2800 Technical Minimum **Capability** Requirements

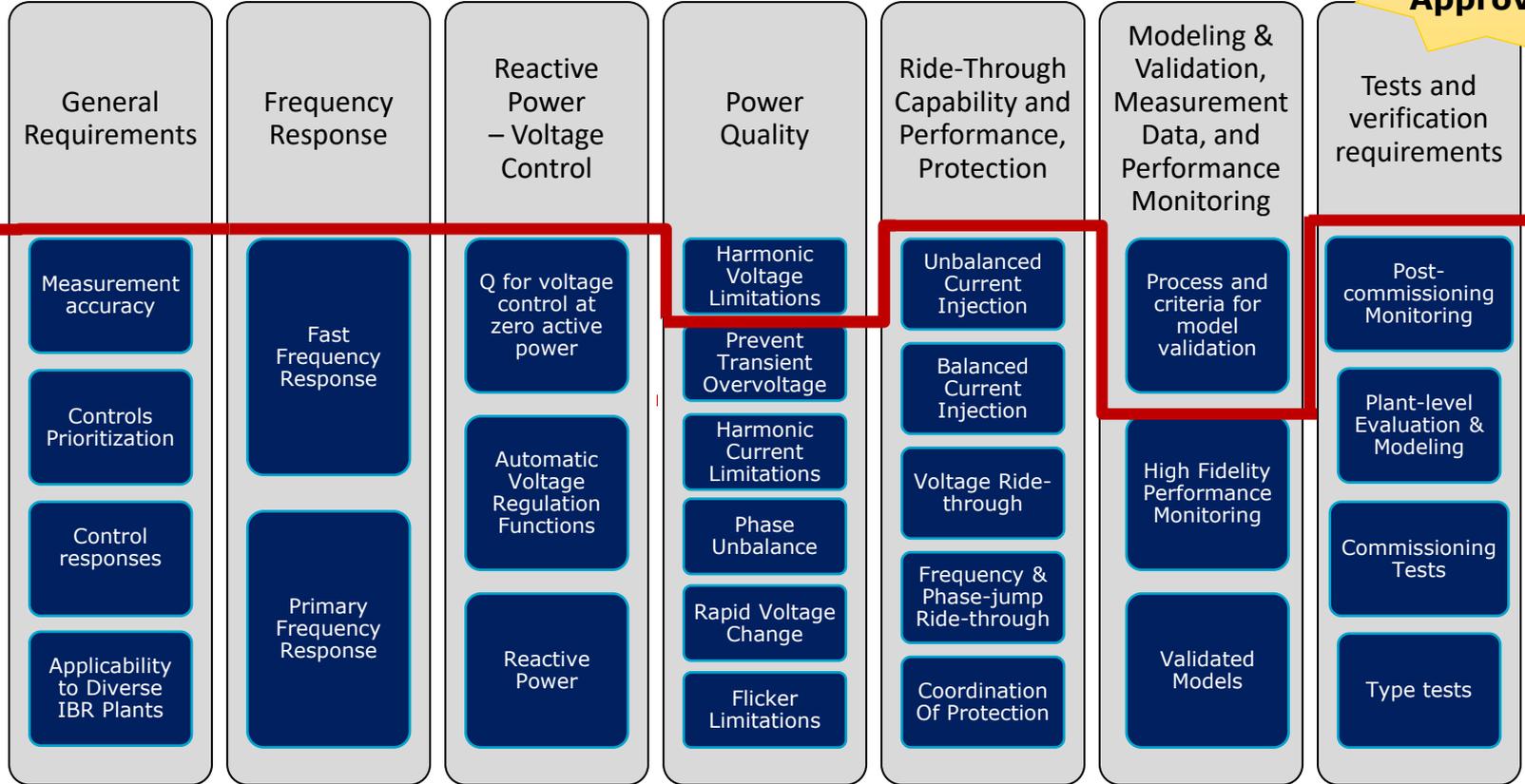
>99% Approval

TS owner can require additional capability

Capability Required in P2800



Raising the minimum bar



©EPRI

Utilization of these capabilities is outside the purview of P2800

Voltage And Reactive Power Control Modes

The *IBR plant* shall provide the following mutually exclusive modes of reactive power control functions:

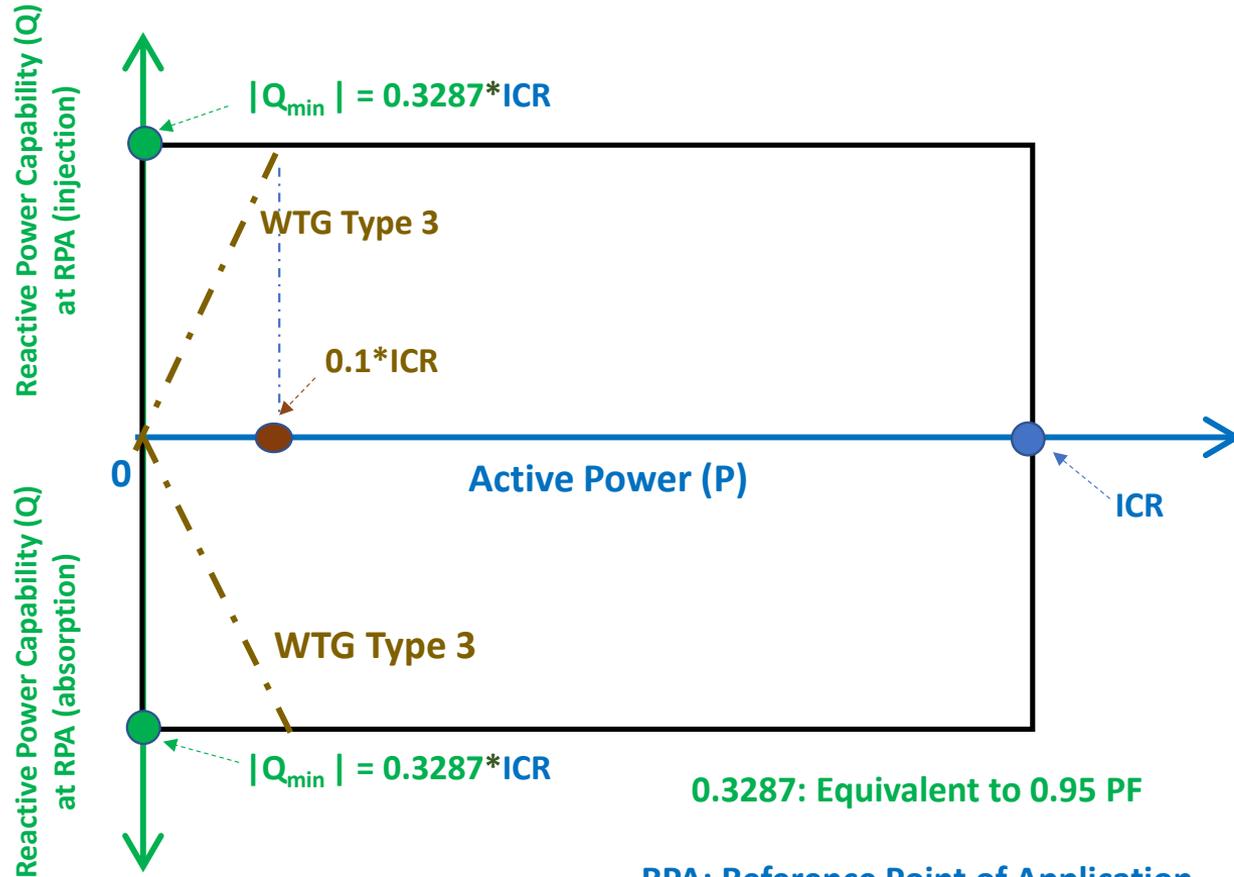
- RPA voltage control mode
- Power factor control mode
- Reactive power set point control mode

RPA voltage control

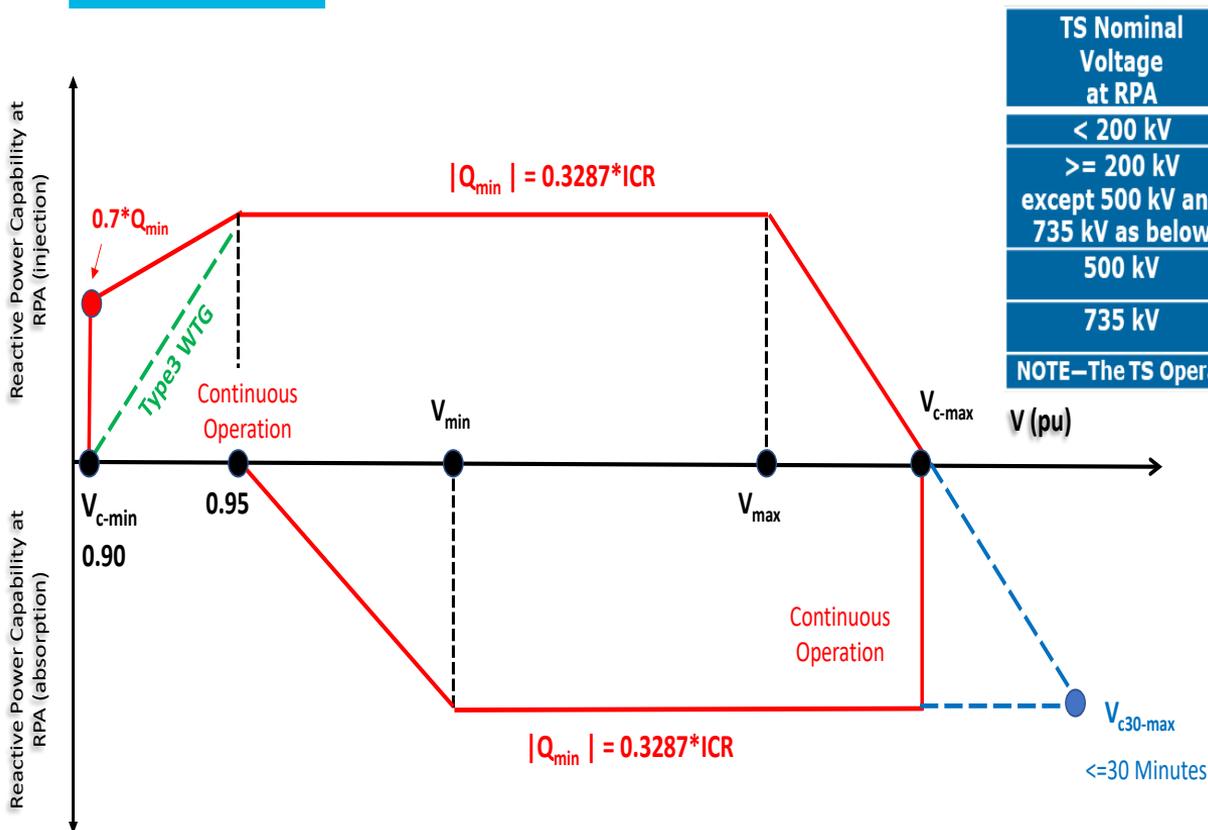
- Closed-loop automatic voltage control mode to regulate the voltage at the RPA
- Stable response & any oscillations shall be positively damped (0.3 or better damping ratio)
- Capable of reactive power droop to ensure a stable and coordinated response

Parameter	Performance Target	Notes
Reaction Time	<200 ms	
Maximum Step Response Time	As Required by TS Operator	range between 1 s and 30 s
Damping	Damping ratio of 0.3 or better	

Reactive power (Q) capability at RPA vs Active Power



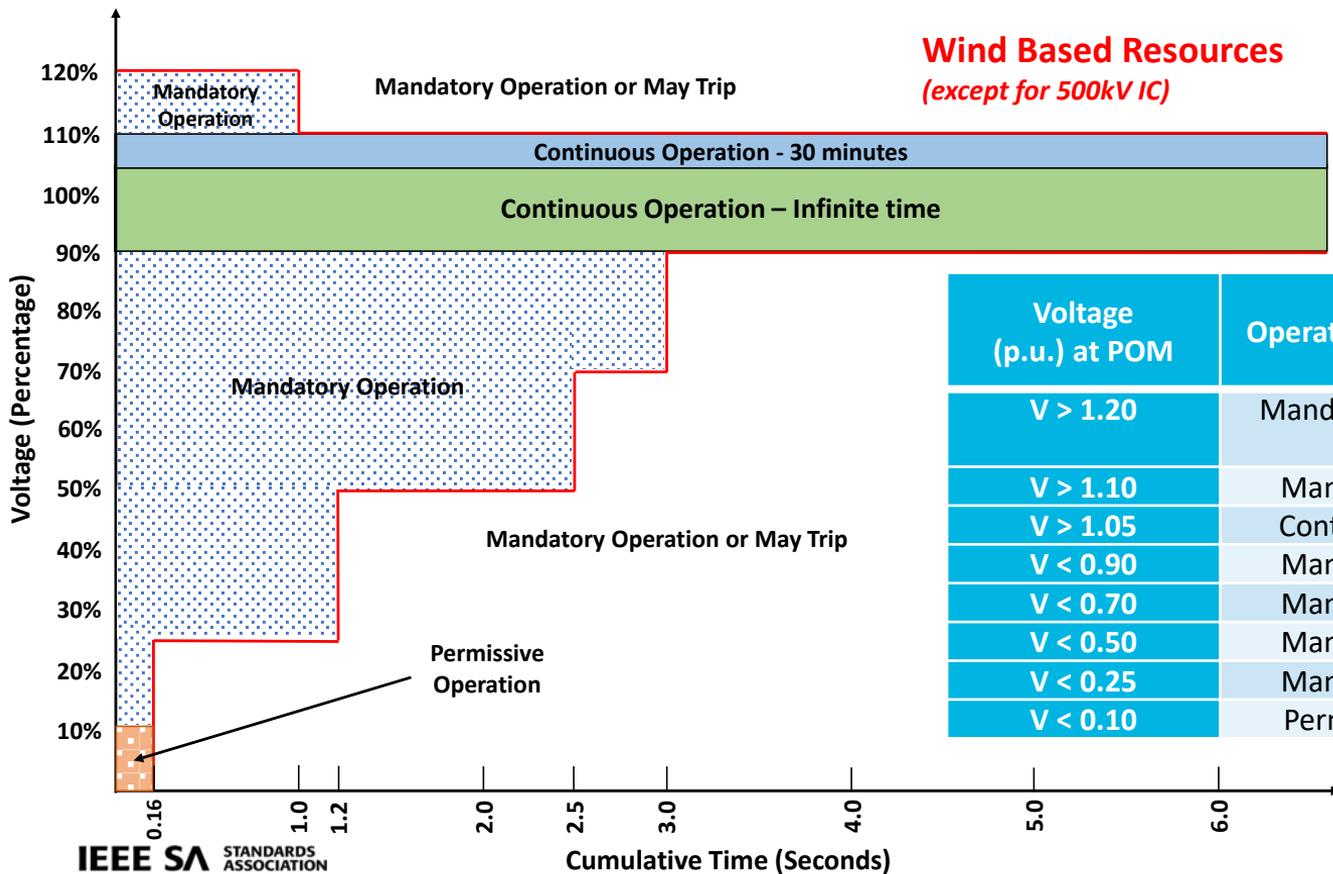
Reactive power (Q) capability at RPA Vs Voltage



TS Nominal Voltage at RPA	V_{c-min} (p.u.)	V_{min} (p.u.)	V_{max} (p.u.)	V_{c-max} (p.u.)	$V_{c30-max}$ (p.u.)
< 200 kV	0.90	0.99	1.03	1.05	1.10
>= 200 kV except 500 kV and 735 kV as below	0.90	1.00	1.04	1.05	1.10
500 kV	0.90	1.02	1.06	1.10	1.10
735 kV	0.90	1.02	1.06	1.088	1.10

NOTE—The TS Operator may require different values for the above quantities

Voltage Ride-Through Capability



Voltage (p.u.) at POM	Operating mode/response	Minimum ride-through time (s) (design criteria)
$V > 1.20$	Mandatory Operation or May Trip	NA
$V > 1.10$	Mandatory Operation	1.0
$V > 1.05$	Continuous Operation	1800
$V < 0.90$	Mandatory Operation	3.00
$V < 0.70$	Mandatory Operation	2.50
$V < 0.50$	Mandatory Operation	1.20
$V < 0.25$	Mandatory Operation	0.16
$V < 0.10$	Permissive Operation	0.16

Voltage Ride-Through Performance

No specification of Current magnitude

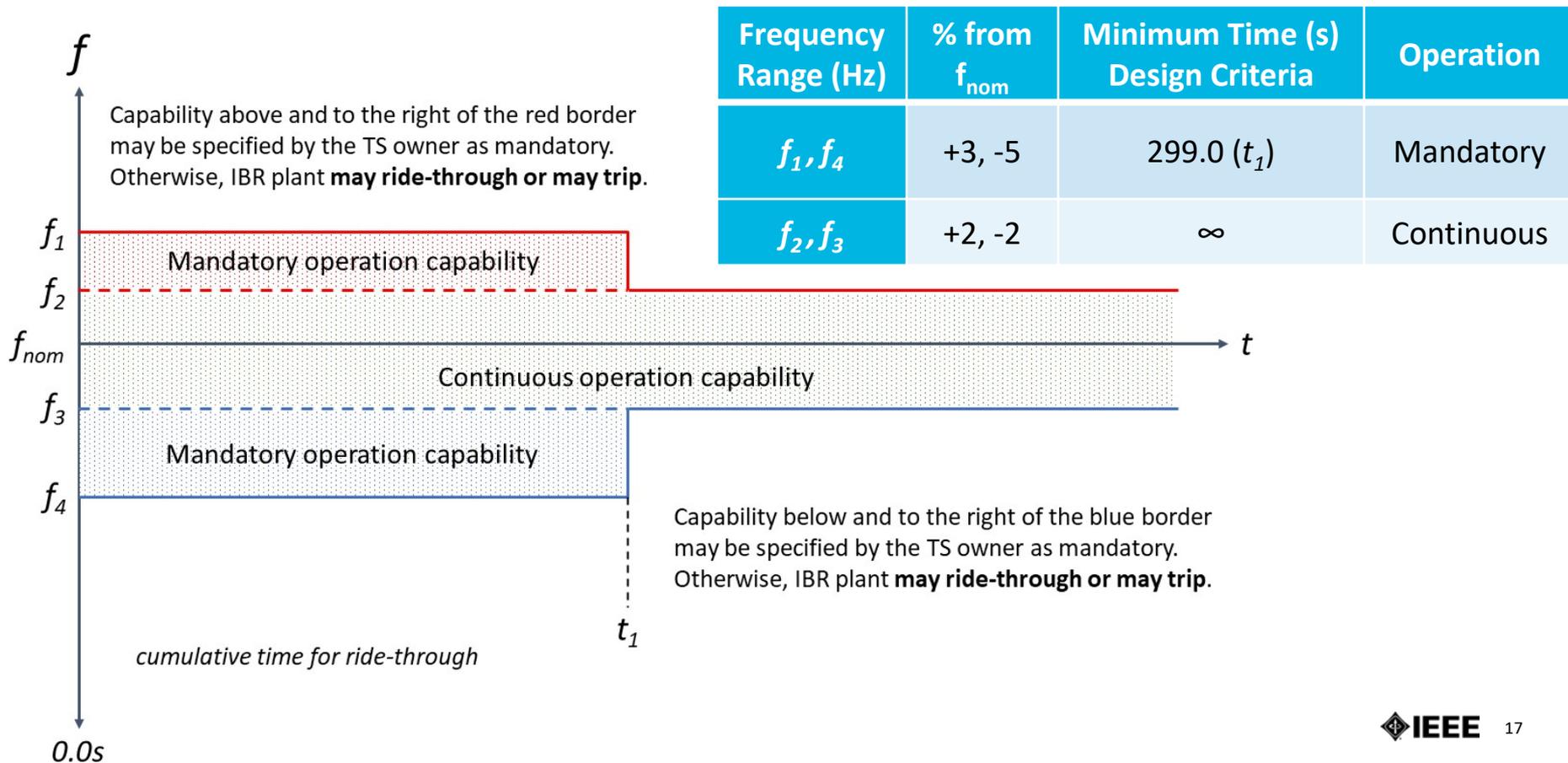
The 1-cycle time required for DFT (to derive phasor quantities) is included in specified response/settling time.

	Type III WTGs	All other IBR Units
Step Response Time	NA ¹	≤ 2.5 cycles
Settling Time	≤ 6 cycles	≤ 4 cycles
Settling Band	Max of (±10% of required change or ±2.5% of IBR unit maximum current)	Max of (±10% of required change or ±2.5% of IBR unit maximum current)

Note 1: Initial response is driven by machine characteristics, & not the control system.

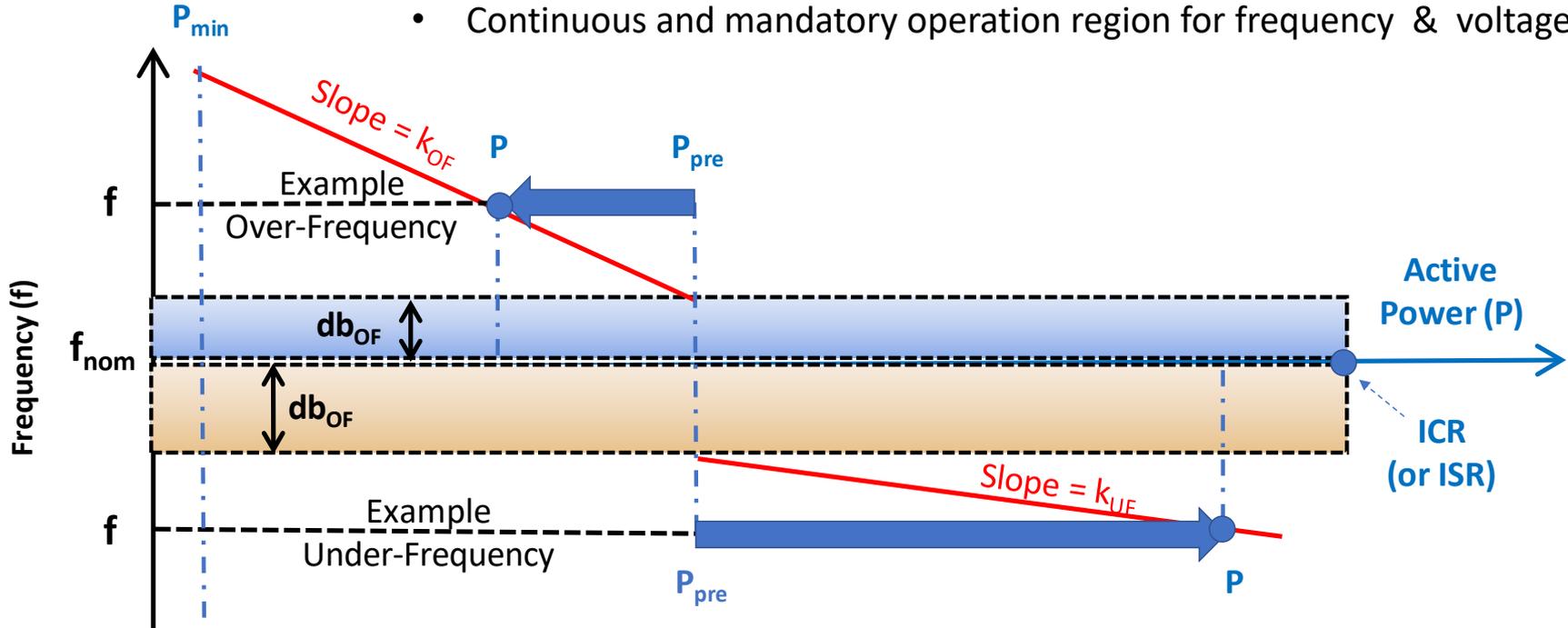
Slower response/settling time is permitted with mutual agreement between *TS owner* and *IBR owner*.

Frequency Ride-Through Capability

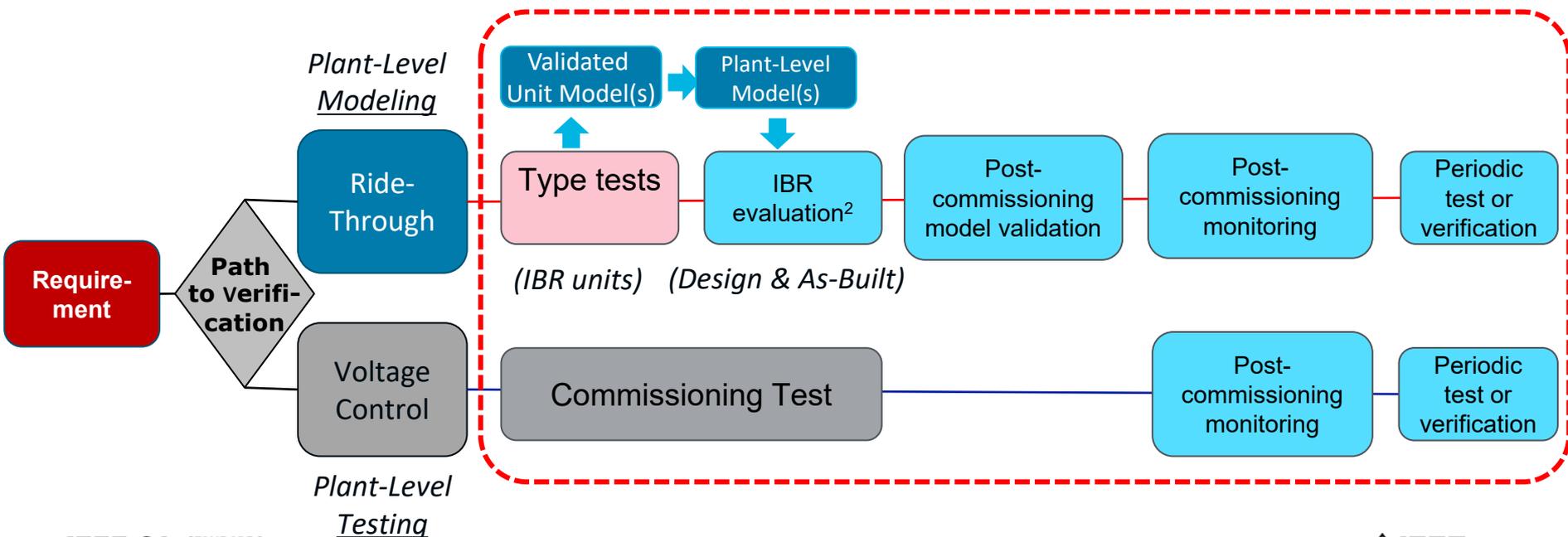
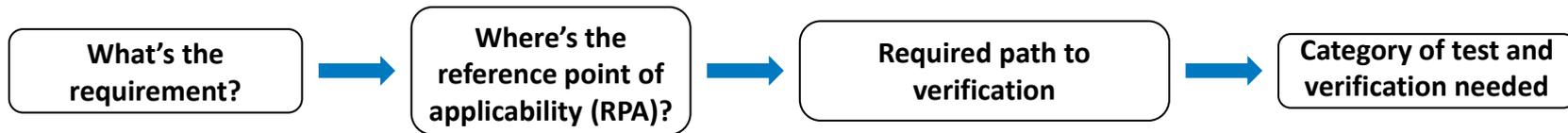


Primary Frequency Response (PFR) of an IBR at RPA

- The PFR capability shall meet the performance requirement as shown
- Continuous and mandatory operation region for frequency & voltage.

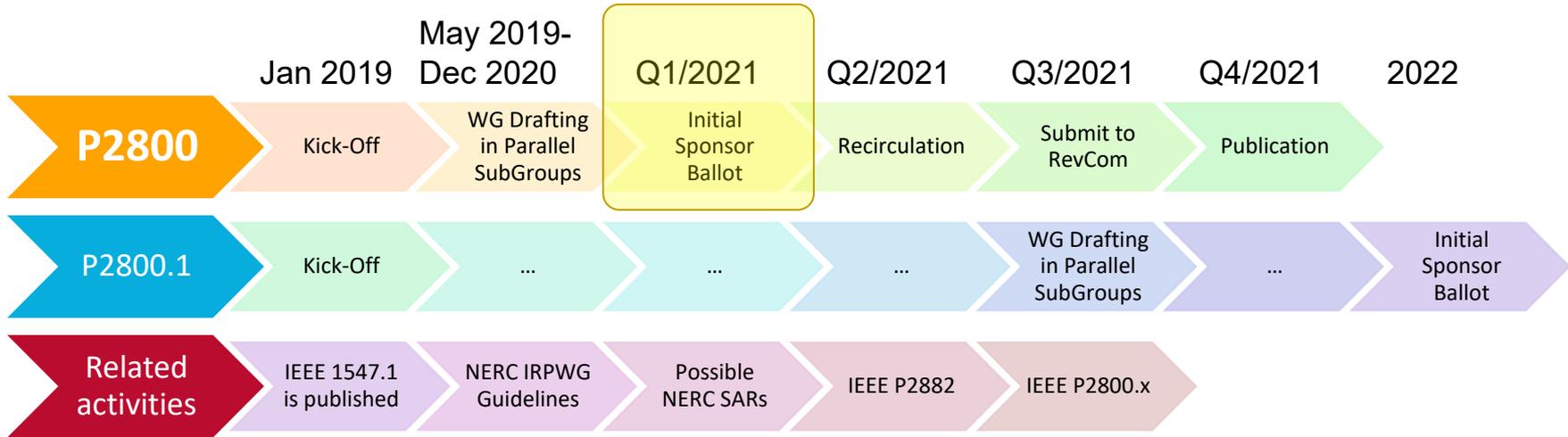


Clause 12 (Test and Verification) Framework



Anticipated Timeline to Publication

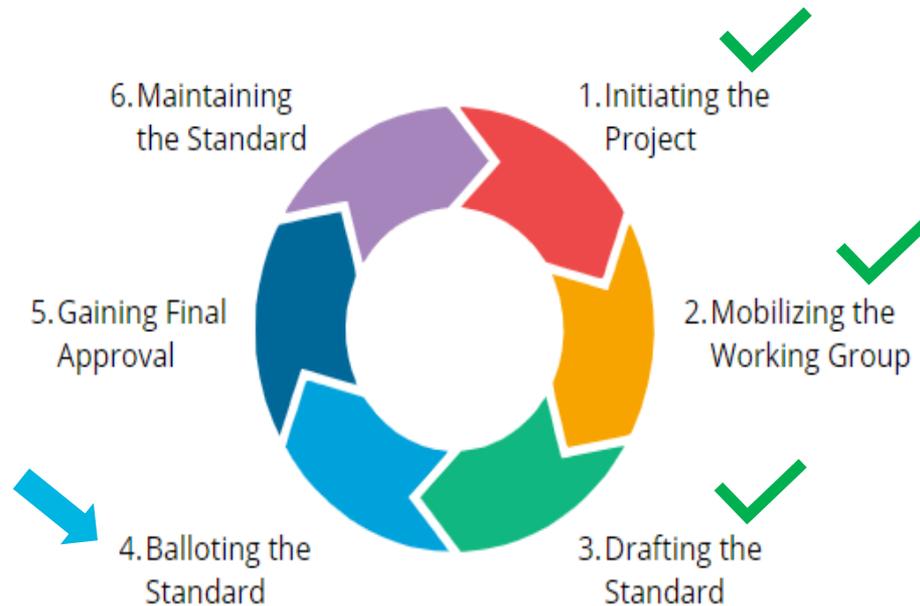
Current Phase



As soon as IEEE P2800 has been successfully balloted, the drafting of conformance procedures will commence in projects like IEEE P2800.1, P2800.x, and P2882.

IEEE-SA Sponsor Ballot & Public Review

- IEEE SA Ballot Group invitation was **sent to >2,500 subject matter experts** within IEEE societies and their committees
- Goal is to form a balanced ballot group **by March 3, 2021**, with no one stakeholder group having dominance
 - Follow instructions available on the P2800 website at <https://sagroups.ieee.org/2800/members/>
 - General information on the (public) IEEE-SA ballot is available at <https://standards.ieee.org/faqs/balloting.html>



Consensus =

- $\geq 75\%$ Quorum
- $\geq 75\%$ Approval
 - *WG Chair's goal is $\geq 90\%$!*

Milestone: SA Initial Ballot + Public Review	March 4, 2021* (30 days for SA ballot, WG/CRG resolves comments, 60 days for public review)
Recirculation 1	June 2021* (10 days + comment resolution)
Recirculation 2	July 2021* (10 days + comment resolution)
Recirculation n-th	Aug 2021* (10 days + comment resolution)
Milestone: Submission to RevCom	Aug 13 / Sep 10 / Oct 18, 2021*
Milestone: Publication	December 2021*

* tentative dates

IEEE SA Ballot – SA ballot group

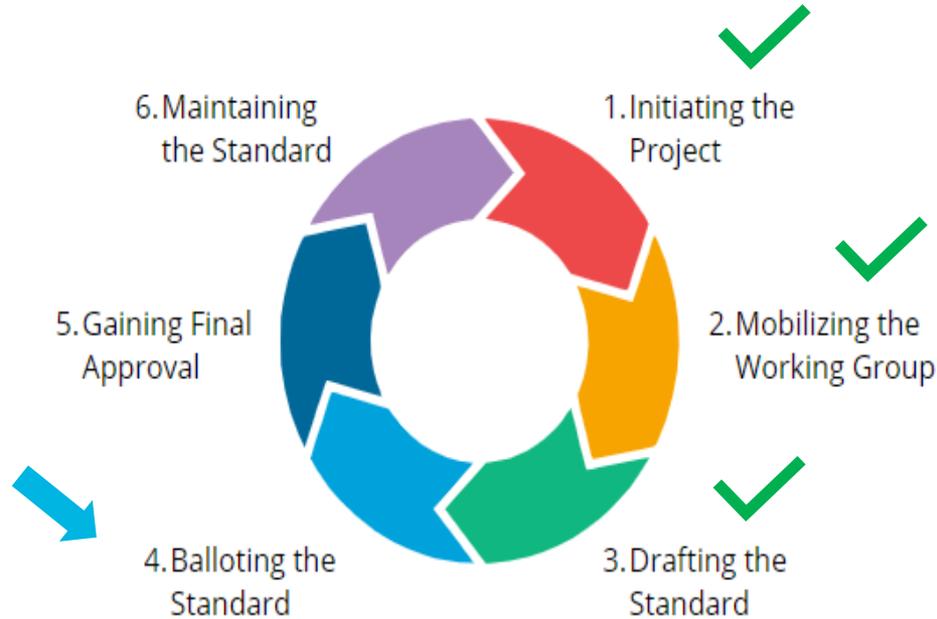
MALIA ZAMAN

SENIOR PROGRAM MANAGER

IEEE STANDARDS ASSOCIATION

Presentation Date Feb 16th, 2021

Standards Development Lifecycle



This presentation provides an overview of Stage 4 of the standards development lifecycle –Balloting the Standard

AGENDA

1. Invitation Process step by Step
2. Balloting Flow Chart
3. Public Review
4. SA Ballot - Response & approval rate

MyProject Sign in

- MyProject
- IEEE SA Membership

myProject

Please be aware, you may have trouble with file downloads due to a recent Chrome update. Please see our **Known Issues** page for more details.

The IEEE Standards Association myProject system is an application used for IEEE standards process items, such as Standards Association balloting (SA Ballot), PAR submission, and related aspects of the IEEE standards process.

SIGN IN **CREATE ACCOUNT**

In addition, IEEE SA offers a variety of tools to assist in the standards development process. For assistance with requesting access to any of these tools please contact your IEEE SA program Manager. [View eTools >](#)

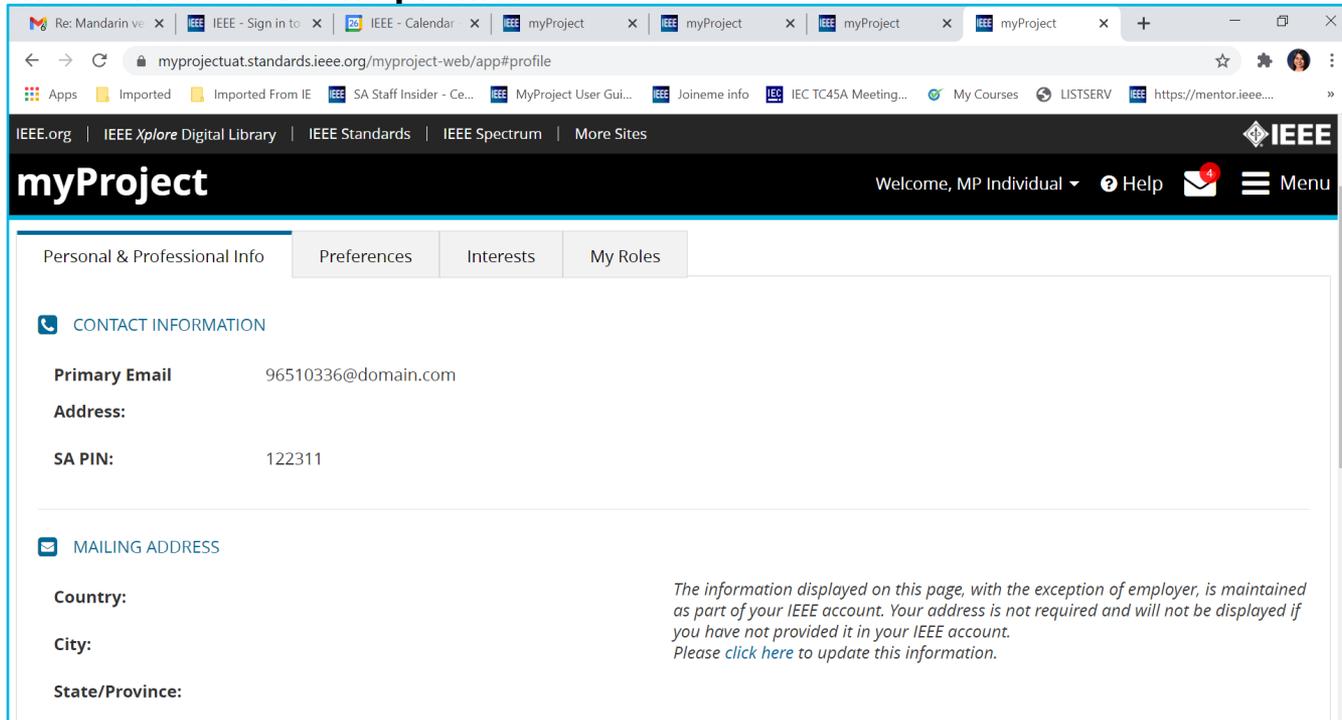
myProject Help Video

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Accept & Close

Manage Profile and Interest

If this is the first time you have signed in, you will be asked to add personal and professional info and preferences and to save the profile.



The screenshot shows a web browser window with multiple tabs. The active tab is titled "myProject" and the address bar shows "myprojectuat.standards.ieee.org/myproject-web/app#profile". The page header includes the IEEE logo and navigation links like "IEEE.org", "IEEE Xplore Digital Library", "IEEE Standards", and "IEEE Spectrum". The main content area is titled "myProject" and displays a user profile for "MP Individual". The profile is divided into four sections: "Personal & Professional Info", "Preferences", "Interests", and "My Roles". The "Personal & Professional Info" section is currently selected and shows "CONTACT INFORMATION" with fields for "Primary Email" (96510336@domain.com), "Address:", and "SA PIN:" (122311). Below this is the "MAILING ADDRESS" section with fields for "Country:", "City:", and "State/Province:". A disclaimer note is present: "The information displayed on this page, with the exception of employer, is maintained as part of your IEEE account. Your address is not required and will not be displayed if you have not provided it in your IEEE account. Please click here to update this information."

Menu – Click on Invitations/Ballots

Click on the Menu bottom on the right, select Invitation/Ballots

The screenshot shows a web browser window displaying the IEEE Standards Association user interface. The top navigation bar includes links for 'Library', 'IEEE Standards', 'IEEE Spectrum', and 'More Sites'. The user is logged in as 'MP Individual' and has access to 'Help', 'Menu', and a notification icon. The main content area shows a profile summary with tabs for 'Preferences', 'Interests', and 'My Roles'. The profile information includes an email address '96510336@domain.com' and a phone number '122311'. A blue arrow points to the 'Invitations/Ballots' option in the right-hand menu. The menu also includes options for 'Home', 'Manage Profile & Interests', 'Manage Groups', 'View/Manage PARs', 'AudCom/NesCom/RevCom', 'View/Manage Standards Committee P&Ps', 'PARs and Standards Report', and 'Test Tools'. The IEEE logo is visible at the bottom of the menu. A disclaimer at the bottom of the page states: 'The information displayed on this page, with the exception of employer, is maintained as part of your IEEE account. Your address is not required and will not be displayed if you have not provided it in your IEEE account. Please click here to update this information.'

Invitations/Ballot – All Invitations

Click on the Open Invitations TAB, then click on the button that shows All Invitations to see all open invitations.

If you have added interest for this project, it will show up in the my Invitations listing

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

myProject

Welcome, MP Individual | ? Help | 4 | Menu

Invitations/Ballots System Date/Time: 26-JAN-2021 09:55 UTC-12

Warning: Use of the browser back button may result in unsaved data or unexpected behavior. Use system navigation buttons or menus.

Open Invitations My Ballots (Voter)

The "My Invitations" view displays open invitations which are based on your interest designation or those to which you have been invited. The "All Invitations" view shows all current open invitations.

Show: My Invitations All Invitations

Search Invitations

Showing 1-2 of 2

PAR/Standard Number	Project Title	Committee	Ballot Type	Invitation Close Date	Ballot Invitations
P2800	Standard for Interconnection and Interoperability of Inverter-Based Resources (IBR) Interconnecting with Associated Transmission Electric Power Systems [-]	PE/EDPG/WSPPID/WSPI/WSPI-P	Individual	03 Mar 2021	

Join the BALLOT GROUP

Click on Join the Ballot button on the right

The screenshot shows the IEEE myProject interface. At the top, there is a navigation bar with links for IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. The user is logged in as 'Welcome, MP Individual'. A notification icon shows 4 unread messages. The main content area is titled 'myProject' and shows a breadcrumb trail: 'Invitations/Ballots > View Ballot Invitation for P1012'. Below this, there is a 'Ballot Invitation for P2800' section with a 'View PAR' button. A checkbox option is present: 'Opt out from all future ballot notifications for P2800'. The main text of the invitation reads: '***** Standards Association (SA) Ballot Invitation***** We are contacting you because you indicated an interest in participating in this technical area, or you indicated an interest in the activities of this Working Group, project, or its Standards Committee in myProject. IMPORTANT! To participate, you must have access to myProject through an IEEE Account If you would like to participate in the balloting of the document listed below, you must enroll as a member of the ballot group by 03 Mar 2021, 23:59 UTC-12. ***** IEEE STANDARD DOCUMENT INFORMATION ***** The IEEE Power and Energy Society Society/Energy Development & Power Generation invites you to participate in the Individual Standards Association Ballot for: P2800 Title: Standard for Interconnection and Interoperability of Inverter-Based Resources (IBR) Interconnecting with Associated Transmission Electric Power Systems Scope: This standard establishes the required interconnection capability and performance criteria for inverter-based resources interconnected with transmission and sub-transmission systems. Included in this standard are performance requirements for reliable integration of inverter-based resources into the bulk power system, including, but not limited to, voltage and frequency ride-through, active power control, reactive power control, dynamic active power support under abnormal frequency conditions, dynamic voltage support under abnormal voltage conditions, power quality, negative sequence current injection, and system protection. The standard shall also be applied to isolated inverter-based resources that are interconnected to an AC transmission system via a dedicated voltage source converter high-voltage direct current (HVDC-VSC) transmission facilities; in these cases, the standard shall apply to the combination of the isolated IBR and the HVDC-VSC facility and shall not apply to...'. A blue arrow points to the 'Join The Ballot' button on the right side of the invitation card.

Add your affiliation

Add your affiliation, you can type it in or select it, next click on the select Classification button

Join Individual Ballot for P2800 ✖

[Affiliation](#) > [Classification](#)

Please update your affiliation(s) per [IEEE SA Standards Board Bylaws 5.2.1.5](#). You must declare at least one affiliation before saving.
You can add affiliations that do not already appear in the affiliation list by typing the full name, and then clicking on the Add button.

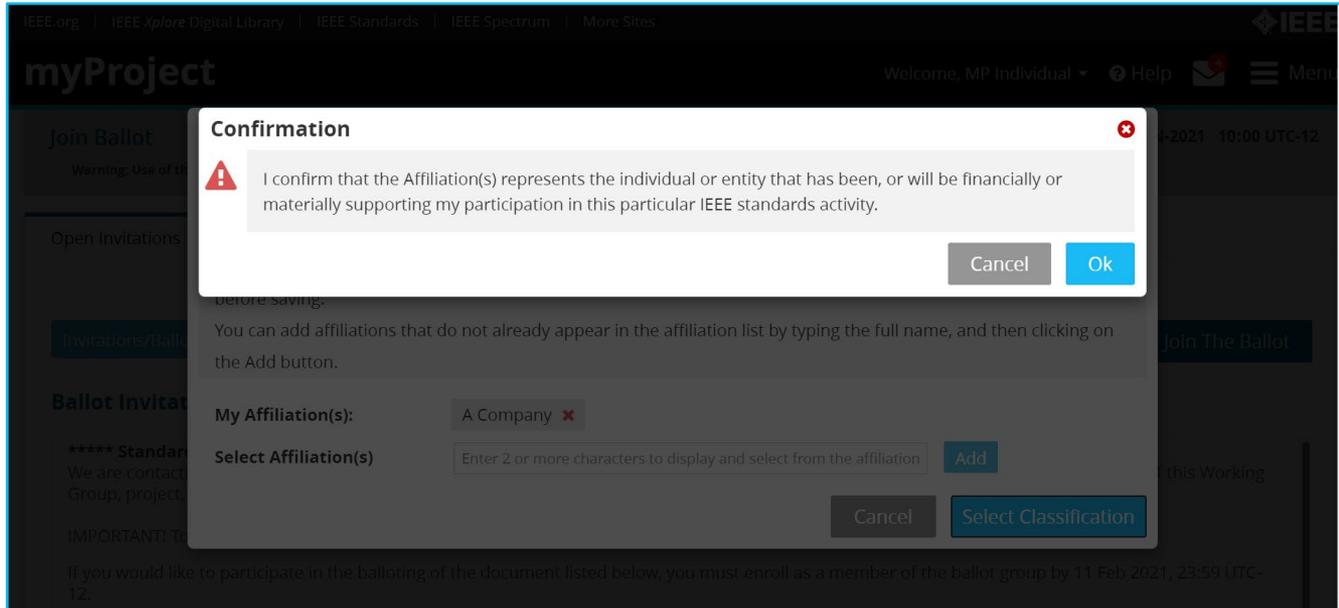
My Affiliation(s): Electric Power Research Institute, Inc. (EPRI) ✖ US Department of Energy ✖

Select Affiliation(s) Add

Cancel Select Classification

AFFILIATION Confirmation SCREEN

Confirm your affiliation by clicking ok



SELECT classification

Select a voter classification that best suits your interest in this ballot.

Join Individual Ballot for P2800

Affiliation > Classification

Select the voter classification from the list below that best represents your voting interest. You may change your selection at any time during ballot group formation.

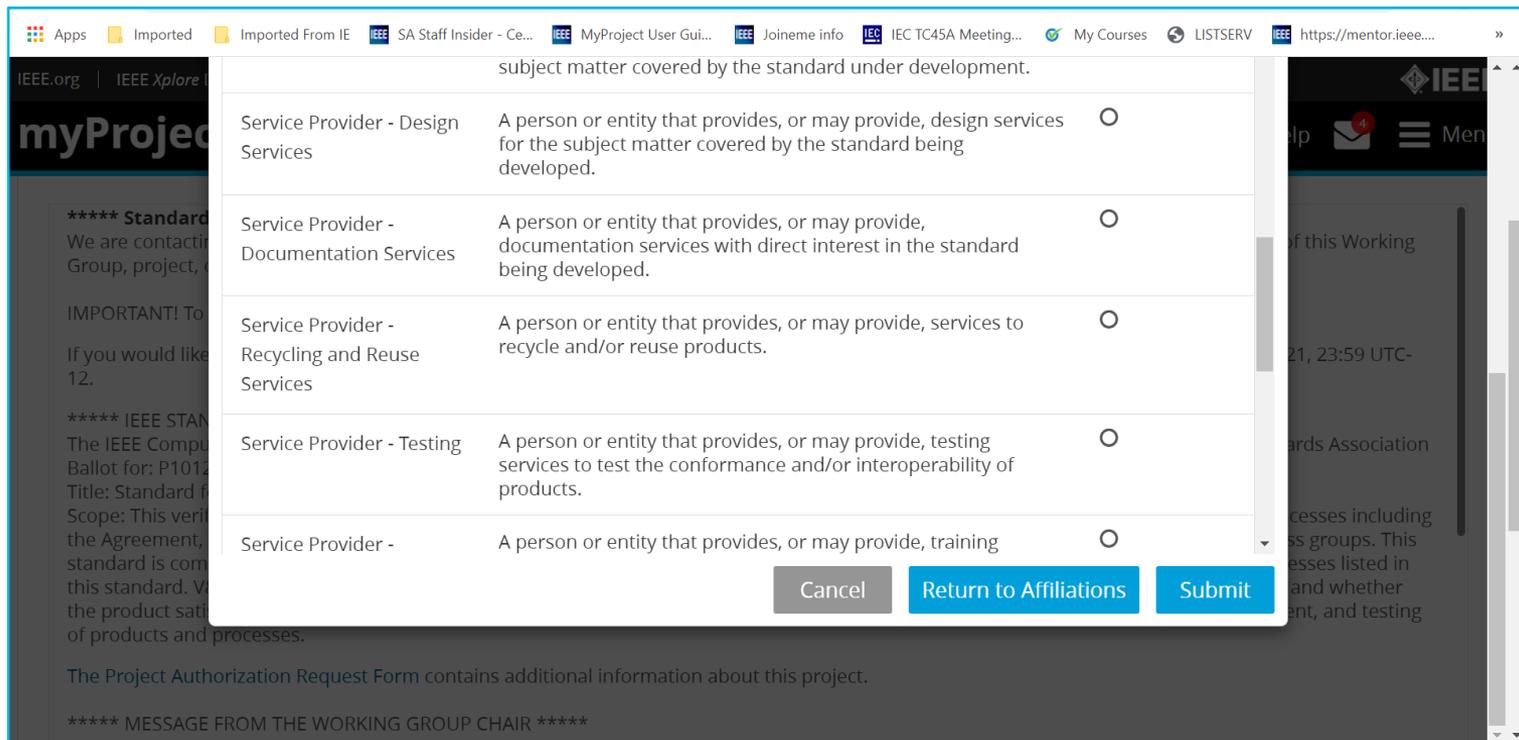
Specify Voter Classification

Academic-Other	An educational institution or a person or entity affiliated with such institution, that does not fall under any of the other Academic categories, providing academic review of the standard being developed.	<input type="radio"/>
Academic-Researcher	An educational institution, or a person affiliated with such institution, engaged in research in the subject matter covered by the standard being developed.	<input type="radio"/>
Academic-Student	A student of an educational institution with direct interest in the standard being developed.	<input type="radio"/>
Academic-Teacher	A teacher/professor/instructor at an educational institution with direct interest in the standard being developed.	<input type="radio"/>
Consulting	A person or entity that provides consulting services in the field covered by the standard being developed.	<input type="radio"/>
Distributor/ Retailer/Reseller	Distributors, resellers, or retailers of conformant products, or a person affiliated with such entity.	<input type="radio"/>
General Interest	A participant in standards activities that may benefit directly or indirectly, and may be affected by the standard being developed without being primarily a member of any of the other interest categories defined for this ballot.	<input type="radio"/>
Government - Defense/Military	A defense or military governmental entity, or a person affiliated with such entity, with direct interest in the standard being developed.	<input type="radio"/>
Government - Other	A governmental entity that does not fall under any other Government categories, or a person affiliated with such entity with direct interest in the standard being developed.	<input type="radio"/>
Government/Trade/Association	A governmental entity (unclassified in previous categories) or a person affiliated with such entity with direct interest in the standard being developed.	<input type="radio"/>

Cancel Return to Affiliations

Submit Your selection For Voter Classification

Scroll down the page the list and click on the submit button



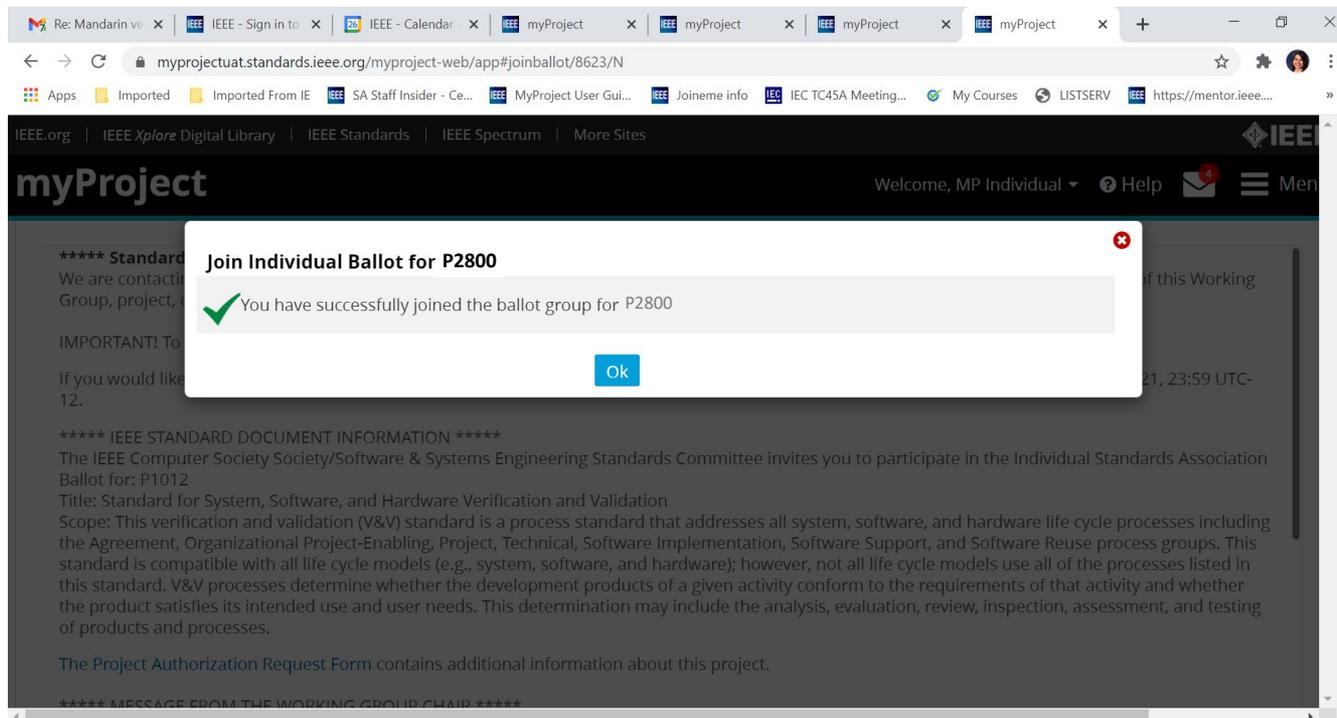
The screenshot shows a web browser window with the IEEE MyProject User Guide. A modal window is open, displaying a list of service provider options for voter classification. The list includes:

Service Provider - Design Services	A person or entity that provides, or may provide, design services for the subject matter covered by the standard being developed.	<input type="radio"/>
Service Provider - Documentation Services	A person or entity that provides, or may provide, documentation services with direct interest in the standard being developed.	<input type="radio"/>
Service Provider - Recycling and Reuse Services	A person or entity that provides, or may provide, services to recycle and/or reuse products.	<input type="radio"/>
Service Provider - Testing	A person or entity that provides, or may provide, testing services to test the conformance and/or interoperability of products.	<input type="radio"/>
Service Provider -	A person or entity that provides, or may provide, training	<input type="radio"/>

At the bottom of the modal window, there are three buttons: "Cancel", "Return to Affiliations", and "Submit".

Confirmation of joining SA Ballot

A confirmation screen pops up to confirms showing you have joined the Ballot group



Confirmation on JOINING Ballot Group

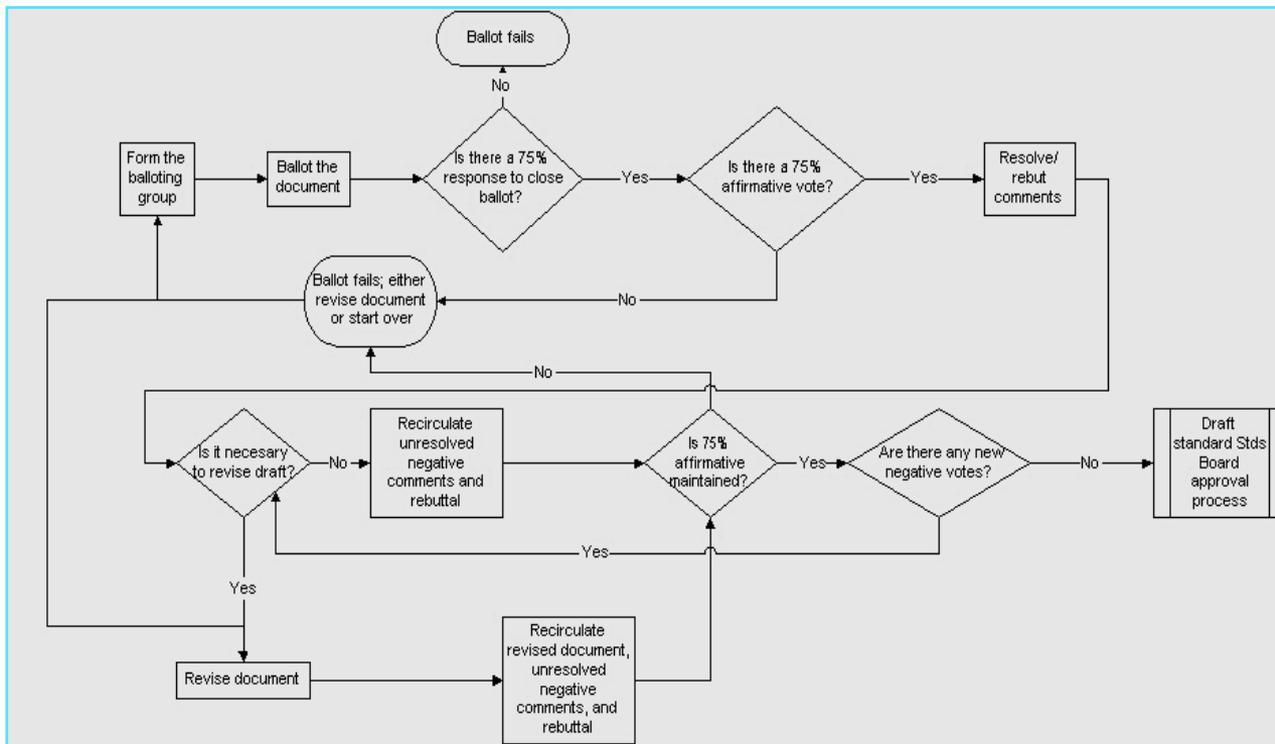
The Check indicates you have joined the ballot group successfully.

When the Ballot is initiated and once the invitation period closes, you will be informed to ballot on the document. Invitation is open for 30 days.

The screenshot shows the IEEE myProject web interface. At the top, there is a navigation bar with links to IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. The main header includes the myProject logo, a user greeting 'Welcome, MP Individual', a Help icon, a notification bell with a red '4', and a Menu icon. Below the header, there are two tabs: 'Open Invitations' and 'My Ballots (Voter)'. A text box explains that the 'My Invitations' view displays open invitations based on interest designation or invitations received, while the 'All Invitations' view shows all current open invitations. Below this, there are radio buttons for 'My Invitations' and 'All Invitations', a search bar for 'Search Invitations', and a pagination control showing 'Showing 1-2 of 2'. A table lists the invitations with columns for PAR/Standard Number, Project Title, Committee, Ballot Type, Invitation Close Date, and Ballot Invitations. The first row shows PAR/Standard Number P2800, Project Title 'Standard for Interconnection and Interoperability of Inverter-Based Resources (IBR) Interconnecting with Associated Transmission Electric Power Systems [-]', Committee 'PE/EDPG/WSPPID/WSPi/WSPi-P', Ballot Type 'Individual', and Invitation Close Date '03 Mar 2021'. The Ballot Invitations column for this row shows a green checkmark and a person icon, with a blue arrow pointing to it from the right.

PAR/Standard Number ⓘ	Project Title	↕Committee	↕Ballot Type	↑Invitation Close Date	Ballot Invitations
P2800	Standard for Interconnection and Interoperability of Inverter-Based Resources (IBR) Interconnecting with Associated Transmission Electric Power Systems [-]	PE/EDPG/WSPPID/WSPi/WSPi-P ⓘ	Individual	03 Mar 2021	

Balloting Flow chart



Please see section 6.10 of the [myProject user guide](#) for steps on how to Ballot

Public Review Process Overview

A 60 day Public Review period begins automatically with the opening of the SA Ballot

The IEEE SA Public Review process provides an opportunity for any interested party to submit comments on any eligible initial ballot draft, and obtain responses from the IEEE Working Group.

All comments received from the Public Review period shall be considered and responded to. Public Review comments do not have votes associated with them.

- Consensus is not based on Public Review comments
- Working Group/Comment Resolution Group will identify in their response if they have determined that they will make a change in the draft
- If responses identify a change to the draft, the Public Review commenter can request a revised draft
- Each public review commenter receives only their responses
- As normally required, changes to the draft must be recirculated in a SA Ballot recirculation
- All Public Review comments and responses shall be submitted to RevCom

IEEE SA Ballot consensus: Response & approval rate

IEEE SA Ballot Consensus is achieved when:

- At least *75% of the ballot group* voted (Response rate)
- The number of *Approve votes is 75% or more of the total Approve and Do Not Approve (with Comments) votes.* (Approval Rate)
- Fewer than *30% of the ballot group* voted Abstain

Response Rate:

- If the response rate is not met:
 - The ballot can be extended by the Program Manager (PM)
 - WG Officers and PM can work together to reach out to those that have not responded
- The response rate must be met in order to continue with the balloting process.

Approval Rate:

- If the approval rate is not met, the entire draft is open for comments on the next ballot (recirculation).
- During a recirculation ballot, SA balloting group members shall have an opportunity to cast votes or change their previously cast votes.

SA Ballot Next Steps - Recirculation Overview

When is a recirculation ballot required?

- All unresolved Do Not Approve votes with comments shall be recirculated to the Standards Association balloting group.
- All substantive changes made since the last ballot of the proposed standard shall be identified and recirculated to the Standards Association balloting group. If there are significant changes made to the draft you may consider opening:
 - The entire draft for comments on the next ballot recirculation
 - The recirculation for a longer period of time

Recirculation ballot(s):

- Minimum of 10 days
- During a recirculation ballot, SA balloting group members shall have an opportunity to cast votes or change their previously cast votes
- Once the proposed standard has achieved 75% approval, comments in recirculation ballot(s) shall be based on:
 - Only on the changed portions of the draft
 - Portions affected by the changes
 - Portions subject to unresolved comments associated with Do Not Approve votes.

SA Ballot – Comment Resolution Guidelines

- The Comment Resolution Group will review and consider all comments that are received by the close of the ballot. This includes comments received outside of the myProject system and mandatory coordination comments.
- Evidence of Consideration
 - Comments that advocate changes in the proposed standard, whether technical or editorial, may be accepted, revised, or rejected.
- Until the proposed standard has achieved 75% approval, comments can be based on any portion of the proposed standard
- Comments not based on the proposed standard may be rejected and deemed out-of-scope of the standards balloting process by the Standards Committee.

Comments received by the WG after the close of the ballot

- Shall be acknowledged and may be considered
- The Standards Committee shall acknowledge the receipt of these late comments
- Take action as the Standards Committee deems appropriate.

❖ For more information, see the IEEE SASB Operations Manual Clause 5.4.3.3 - Comments in the ballot

Additional Resources

The SA Balloting Process

<https://standards.ieee.org/develop/balloting-standard/balloting.html>

RevCom Ballot and Comment Resolution Process Guidelines

<https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/revcom/guidelines.pdf>

RevCom Comment Resolution Preparation Guidelines

https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/revcom/Comment_Resolution_Preparation_Guidelines.pdf

[IEEE SA Standards Working Group Chair Fundamentals Course](#), Module 10 “Balloting Your Standard”

Questions?

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Comments by hosting organizations

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February 16, 2021 – IEEE SA Ballot Update

General Information for the Interested Public - <https://sagroups.ieee.org/2800/>

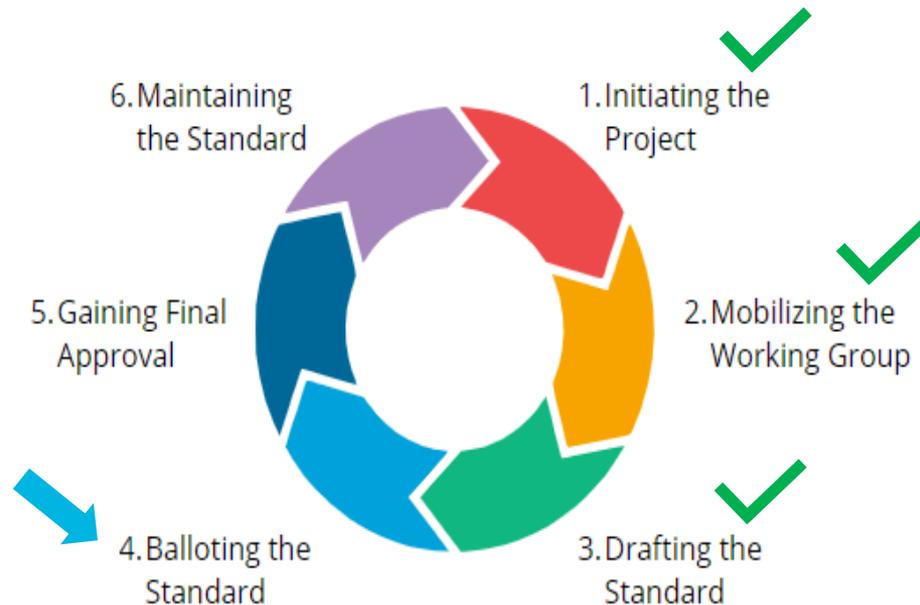
*Also Chair of the sponsoring ED&PG Wind and Solar Plant Interconnection Working Group ([Link to Website](#))

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IEEE-SA Sponsor Ballot & Public Review

- IEEE SA Ballot Group invitation was **sent to >2,500 subject matter experts** within IEEE societies and their committees
- Goal is to form a balanced ballot group **by March 3, 2021**, with no one stakeholder group having dominance
 - **Follow instructions available on the P2800 website at <https://sagroups.ieee.org/2800/members/>**
 - General information on the (public) IEEE-SA ballot is available at <https://standards.ieee.org/faqs/balloting.html>



Consensus =

- $\geq 75\%$ Quorum
- $\geq 75\%$ Approval
- *WG Chair's goal is $\geq 90\%$!*

Milestone: SA Initial Ballot + Public Review	March 4, 2021* (30 days for SA ballot, WG/CRG resolves comments, 60 days for public review)
Recirculation 1	June 2021* (10 days + comment resolution)
Recirculation 2	July 2021* (10 days + comment resolution)
Recirculation n-th	Aug 2021* (10 days + comment resolution)
Milestone: Submission to RevCom	Aug 13 / Sep 10 / Oct 18, 2021*
Milestone: Publication	December 2021*

* tentative dates