

IEEE NPEC Standards Status Update

NPEC 22-02

Chattanooga, TN

July 28, 2022

Suresh Channarasappa
NPEC Standards Coordinator

NPEC Standards and PARs – Overall Status

Color Code is based on July 22 Status						
Stadards Status	Total	SC-2	SC-3	SC-4	SC-5	SC-6
Document 0 to 2 years old	11	1	2	4	3	1
Document 3 - 4 years old	8	4	0	2	0	2
Document 5 - 6 Years old	9	2	2	2	1	2
Document 7 - 8 years old	6	2	1	1	1	1
Document 9 or more years old	16	9	3	2	1	1
Total	50	18	8	11	6	7
Total Active Standards	43	13	8	10	5	7
Total Inactive Reserve Standards	7	5		1	1	
PARs Status	Total	SC-2	SC-3	SC-4	SC-5	SC-6
Draft Development	20	6	3	3	3	5
Inactive-Reserve (Draft Development)	2	1		1		
SA Pre-Ballot	1	1				
SA Comment Resolution	2	1	1			
RevCom	3	2			1	
Inactive-Reserve (No PAR)						
Total	28	11	4	4	4	5
New Projects	4					
Revision Projects	24					

SC-2 "Qualification"
 SC-3 "Operations, Maintenance, Aging, Testing & Reliability"
 SC-4 "Auxiliary Power"
 SC-5 "Human Factors, Control Facilities and Human Reliability"
 SC-6 "Safety Related Systems"

Preview/WIP 22-02

- ▶ WIP
 - ▶ PC37.105: Suresh Channarasappa
- ▶ Preview
 - ▶ P420: Matt Evans
 - ▶ PC37.98: Suresh Channarasappa
 - ▶ IEC/IEEE 62582-3: E. Rasmussen
 - ▶ IEEE 379.1: F. Novak

New PARs-22-02

- ▶ P497*
- ▶ P1786*
- ▶ P2421*
- ▶ P60780-323-Approved by NPEC AdCom 7/27/22
- ▶ P1819-Approved by NPEC AdCom 7/27/22
- ▶ P352*
- ▶ P62671*
- ▶ P1289*

*provided to NPEC AdCom members for review

IEEE Standards Classification

- ▶ Active
- ▶ Inactive Reserved
- ▶ Withdrawn



Standards Status Details

- ▶ Sub-Committee 2
- ▶ Sub-Committee 3
- ▶ Sub-Committee 4
- ▶ Sub-Committee 5
- ▶ Sub-Committee 6

SC 2 “Qualification” - Chair: Eric Rasmussen

Color Code ;	
Document 0 to 2 years old	1
Document 3 - 4 years old	4
Document 5 - 6 Years old	2
Document 7 - 8 years old	2
Document 9 or more years old	9
Total	18

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	21-02	22-01	22-02	Status/Comments
334	2006	2022	Dec-2023	IEEE Standard for Qualifying Continuous Duty Class 1E Motors for Nuclear Power Generating Stations	2	J. Dean		10	Pre View	X		SA Ballot: In-process - Ballot Closes Aug 17, 20222
382	2019	2029	N/A	IEEE Standard for Qualification of Safety-Related Actuators for Nuclear Power Generating Stations	3	C. Abernathy	S. Channarasappa	3				
383	2015	2025	Dec-2023	IEEE Standard for Qualifying Class 1E Electric Cables, Field Splices and Field Splices for Nuclear Power Generating Stations	4	R. Konnik	J. White	7				Draft Development
572	2019	2029	N/A	IEEE Standard for Qualification of Class 1E Connection Assemblies for Nuclear Power Generating Stations and Other Nuclear Facilities	11	E. Rasmussen		3				
627	2019	2029	N/A	Standard for Qualification of Equipment Used in Nuclear Facilities	10	R. Steinman	S. Channarasappa	3				
649	2006	2021	Dec-2022	IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations	14	J. Dean		11				Draft Development PAR Extension Needed
650	2017	2027	N/A	IEEE Standard for Qualification of Class 1E Static Battery Chargers and Inverters for Nuclear Power Generating Stations	13	S. Krause		5				
1682	2011	2021	Dec-2023	Standard for Qualifying Fiber Optic Cables, Connections, and Optical Fiber Splices for Use in Safety Systems in Nuclear Power Generating Stations	15	J. Pirrong		11	Pre View	X		Ballot Comment resolution
2425			Dec-2023	Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities	16	S. Channarasappa	M. Oliver	N/A		WIP		Draft Development

SC 2 “Qualification” (Continued)

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	21-02	22-01	22-02	Status/Comments
60780-323	2016	2026	N/A	IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations	1	J. White (not assigned as Chair In NPE Roster)		6				
60980-344	2020	2030	Dec-2022	IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations	5	M. Brown		2				
62582-1	2011	2021	Dec-2022	Nuclear power plants - Instrumentation and control important to safety - Electrical equipment conditioning monitoring Part 1: General	17	J. White (not assigned as Chair In NPE Roster)		11				Draft Development
62582-2	2011	2021	Dec-2022	Nuclear power plants - Instrumentation and control important to safety - Electrical equipment conditioning monitoring Part 2: Indenter modulus	17	S. Palm		11				RevCom Agenda(20 Sep 2022)
62582-3	2012	2022	Dec-2023	Nuclear power plants - Instrumentation and control important to safety - Electrical equipment conditioning monitoring Part 3: Elongation at break	17	J. White (not assigned as Chair In NPE Roster)		10				Draft Development
62582-4	2011	2021	Dec-2022	Nuclear power plants - Instrumentation and control important to safety - Electrical equipment conditioning monitoring Part 4: Oxidation induction measurements	17	S. Palm		11				RevCom Agenda(20 Sep 2022)
62582-5	2015	2025	N/A	Nuclear power plants - Instrumentation and control important to safety - Electrical equipment conditioning monitoring Part 5: Optical Time Domain Reflectometry	17	J. White (not assigned as Chair In NPE Roster)		7				
62582-6	2019	2029	N/A	Instrumentation and control important to safety -- Electrical equipment condition monitoring methods. Part 6: Insulation resistance	17	J. White (not assigned as In NPE Roster)		3				
C37.98	2013	2023	Dec-2024	IEEE Standard for Seismic Qualification Testing of Protective Relays and Auxiliaries for Nuclear Facilities	6	S. Channarasappa		9			Pre view	Draft Development
C37.105	2010	2020	Dec-2024	IEEE Standard for Qualifying Class 1E Protective Relays and Auxiliaries for Nuclear Power Generating Stations	6	S. Channarasappa		12			WIP	Draft Development - Std moved from PSRC to NPEC

SC-3 "Operations, Maintenance, Aging, Testing & Reliability"

Chair: Rebecca Steinman

Color Code	
Document 0 to 2 years old	2
Document 3 - 4 years old	0
Document 5 - 6 Years old	2
Document 7 - 8 years old	1
Document 9 or more years old	3
Total	8

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	21-02	22-01	22-02	Status/Comments
336	2020	2030	N/A	IEEE Standard Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities	1	Y. Williams		2				
338	2012	2022	Dec-2022	IEEE Standard Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems	1	Y. Williams		10		Preview		SA Comment Resolution
352	2016	2026	N/A	IEEE Guide for General Principles of Reliability Analysis of Nuclear Power Generating Stations and Other Nuclear Facilities	3	K. Nguyen		6				
577	2022	2032	Dec-2022	IEEE Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Power Generating Stations	3	K. Nguyen		0				Standard Published
692	2013	2023	Dec-2022	IEEE Standard Criteria for Security Systems for Nuclear Power Generating Stations	2	Vacant		9				Will be moved to Inactive-Reserve since the WG is not active
933	2013	2023	Dec-2025	IEEE Guide for Definition of Reliability Program Plans for Nuclear Generating Stations and Other Nuclear Facilities	3	K. Nguyen		9				Draft Development
1205	2014	2024	Dec-2026	IEEE Guide for Assessing, Monitoring, and Mitigating Aging Effects on Class 1E Equipment used in Nuclear Power Generating Stations	4	R. Steinman	S. Channarasappa	8				Draft Development
1819	2016	2026	N/A	Standard for Risk-Informed Categorization and Treatment of Electrical Equipment in Nuclear Facilities	1	Y. Williams		6				

SC4 "Auxiliary Power"- Chair: M. Staskiewicz

Color Code ;	
Document 0 to 2 years old	3
Document 3 - 4 years old	0
Document 5 - 6 Years old	1
Document 7 - 8 years old	1
Document 9 or more years old	1
	6

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	22-01	22-02	23-01	Status/Comments
308	2020	2030	N/A	IEEE Standard Criteria for Class 1E Power Systems for Nuclear Power Generating Stations	1	J. Disosway		2				
317	2013	2023	Dec-2023	IEEE Standard for Electric Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations	3	M. Staskiewicz		9			Pre view	Draft Development Preview Target 2023
387	2017	2027	Dec-2023	IEEE Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations	2	K. Fleischer		5				Draft Development IEC 63332-387 ED1 in progress
628	2020	2030	N/A	IEEE Standard Criteria for the Design, Installation, and Qualification of Raceway	9	G. Poletto		2				
690	2018	2028	N/A	IEEE Standard for the Design and Installation of Cable Systems for Class 1E Circuits in Nuclear Power Generating Stations	5	R. Konnik		4				White paper started
741	2022	2032	N/A	IEEE Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations	7	M. Bowman	John Disosway	0				Standard Published

SC4 "Auxiliary Power" (Continued)

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	22-01	22-02	23-01	Status/Comments
765	2022	2032	N/A	Standard for Preferred Power Supply for Nuclear Power Plants	6	T. Womack		0				Standard Published
833	2005	2021	Dec-2023	IEEE Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards	8	K. Bush		11		Pre view		Draft Development
1290	2015	2025	N/A	Guide for MOV Motor Application, Protection, Control and Testing in Nuclear Generating Stations	4	J. Krvavac (not assigned as Chair In NPE Roster)		7				Initiate PAR discussion 22-02
1792	2017	2027	N/A	Recommended Practices for Nuclear Power Plant Offsite Power Circuits Reliability	6	T. Womack		5				
2420	2019	2029	N/A	Standard Criteria for Combustion Turbine Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations	2	K. Fleischer		3				
63160			Dec-2023	Nuclear Power Plants - Instrumentation, Control and Electrical Power Systems Important to Safety - Common Cause Failure Systems Analysis and Diversity	4			N/A				Draft Development?

SC5 "Human Factors, Control Facilities and Human Reliability"

Chair: David Desaulniers

Color Code ;	
Document 0 to 2 years old	3
Document 3 - 4 years old	0
Document 5 - 6 Years old	1
Document 7 - 8 years old	1
Document 9 or more years old	1
	6

PROJECT	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	21-02	22-01	22-02	Comments/Results
845	1999	2021	Dec-2022	IEEE Guide to Evaluation of Man-Machine Performance in Nuclear Power Generating Station Control Rooms and Other Peripheries	1	J.Joe		11			Preview	Draft Development PAR Extension Should be initiated
1023	2020	2030	N/A	IEEE Guide for the Application of Human Factors Engineering to Systems, Equipment, and Facilities of Nuclear Power Generating Stations	1	J.Joe		2				
1082	2017	2027	N/A	Guide for Incorporation of Human Reliability Analysis into PRA for Nuclear Power Generating Stations	3	R. Boring		5				Revision approved by SB 12/06/2017 IEC Joint LOGO std was issued in May 2020
1289	Withdrawn		Dec-2023	Guide for the Application of Human Factors Engineering in the Design of Computer-Based Monitoring and Control Displays for Nuclear Power Generating Stations	2	S. Fleger		N/A				Draft Development Draft PAR submitted to NPEC AdCom
1707	2015	2025	N/A	Recommended Practice for Investiugation of Events at Nuclear Facilities	3	R. Boring		7				Initiate New PAR and form WG
1786	2022	2032	N/A	Human Factors Guide for Application of Computerized Operating Procedure Systems at Nuclear Power Generating Stations and Other Nuclear Facilities	2	S. Fleger		0	Preview			Standard Published
2411	2021	2031	N/A	Human Factors Engineering Guide for the Validation of System Designs and Integrated Systems Operations at Nuclear Facilities	1	J.Joe		1				
2421			Dec-2022	Guide for Designing and Developing Computer-Based Displays for Monitoring and Control of Nuclear Facilities	2	S. Fleger		N/A				Draft Development Draft PAR submitted NPEC AdCom

SC6 "Safety Related Systems"

Chair: Chris Lamb

Color Code ;	
Document 0 to 2 years old	1
Document 3 - 4 years old	2
Document 5 - 6 Years old	2
Document 7 - 8 years old	1
Document 9 or more years old	1
	7

Project	Year	Standard Expiration	PAR Expiration	TITLE	Working Group	Chair	Vice Chair	Cycle Year	22-01	22-02	23-01	Status/Comments
379	2014	2024	Dec-2023	IEEE Standard Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems	3	F. Novack		8				
379.1			Dec-2025	Guide for Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems	3	F. Novack		N/A				Draft Development
384	2018	2028	N/A	IEEE Standard Criteria for Independence of Class 1E Equipment and Circuits	5	M. Evans		4				
420	2013	2023	Dec-2022	IEEE Standard for the Design and Qualification of Class 1E Control Boards, Panels, and Racks Used in Nuclear Power Generating Stations	5	M. Evans		9				Draft Development PAR Extension initiated - On NESCOM 9/20/22 Agenda for Approval
497	2016	2026	N/A	Standard for Accident Monitoring Instrumentation for Nuclear Power Generating Stations	1	C. Paugh		6				
603	2018	2028	N/A	IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations	3	F. Novack		4				

SC6 "Safety Related Systems" (Continued)

Project	Year	Standard Expiration	PAR Expiration	TITLE	Sub-Committee	Working Group	Chair	Vice Chair	Cycle Year	22-01	22-02	23-01	Status/Comments
1891			N/A	Standard Criteria for Application Intelligent Digital Devices to Nuclear Power Generating Stations	6	6	A. Nack	Eric Bernard	N/A				WG looking at reducing scope and possible joint logo. Current PAR will be allowed to expire and a new PAR with different scope will be prepared (IEC 63671 joint logo) - In Process
61226			Dec-2022	Standard for categorization and classification of I&C and electrical systems in nuclear power generating stations.	6	2	D. Herrell	W. Odess-Gillett	N/A				Draft Development IEC rejected the request for Joint logo so PAR will be revised to reflect IEEE only std
63113	2021	2031	N/A	Nuclear Facilities - Instrumentation Important To Safety - Spent Fuel Pool Instrumentation	6	1	C. Paugh		1				
7-4.3.2	2016	2026	Dec-2022	Standard Criteria for Programmable Digital Devices in Safety Systems for Nuclear Power Generating Stations	6	4	W. Odess-Gillett		6				Draft Development PAR Extension should be initiated
63160			Dec-2023	Nuclear Power Plants - Instrumentation, Control and Electrical Power Systems Important to Safety - Common Cause Failure Systems Analysis and Diversity	6	4	W. Odess-Gillett		N/A				Draft Development

Questions



Backup Standards and PARs



Active Standards - Details (7/26/2022)

Standard Number	Year	Committee	SASB Approval Date	Status
62582-5	2015	PE/NPE/WG_2.1	11 Jun 2015	Completed
62582-3	2012	PE/NPE/WG_2.1	05 Dec 2012	Completed
60780-323	2016	PE/NPE/WG_2.1	29 Jan 2016	Completed
62582-6	2019	PE/NPE/WG_2.1	05 Sep 2019	Completed
627	2019	PE/NPE/WG_2.10_627	05 Sep 2019	Completed
572	2019	PE/NPE/WG_2.11	08 Feb 2019	Completed
650	2017	PE/NPE/WG_2.13	06 Dec 2017	Completed
1682	2011	PE/NPE/WG_2.15	10 Sep 2011	Completed
334	2006	PE/NPE/WG_2.2	15 Sep 2006	Completed
382	2019	PE/NPE/WG_2.3	07 Nov 2019	Completed
383	2015	PE/NPE/WG_2.4	03 Sep 2015	Completed
60980-344	2020	PE/NPE/WG_2.5	24 Sep 2020	Completed
C37.98	2013	PE/NPE/WG_2.6/C37.98_WG	11 Dec 2013	Completed
338	2012	PE/NPE/WG_3.1	06 Feb 2012	Completed
1819	2016	PE/NPE/WG_3.1	22 Sep 2016	Completed
336	2020	PE/NPE/WG_3.1	24 Sep 2020	Completed
692	2013	PE/NPE/WG_3.2	23 Aug 2013	Completed
933	2013	PE/NPE/WG_3.3	11 Dec 2013	Completed
352	2016	PE/NPE/WG_3.3	07 Dec 2016	Completed
577	2022	PE/NPE/WG_3.3	09 Feb 2022	Completed
1205	2014	PE/NPE/WG_3.4	27 Mar 2014	Completed

Active Standards - Details (7/26/2022)

Standard Number	Year	Committee	SASB Approval Date	Status
308	2020	PE/NPE/WG_4.1	30 Jan 2020	Completed
387	2017	PE/NPE/WG_4.2	28 Sep 2017	Completed
2420	2019	PE/NPE/WG_4.2	07 Nov 2019	Completed
317	2013	PE/NPE/WG_4.3	14 Jun 2013	Completed
1290	2015	PE/NPE/WG_4.4	03 Sep 2015	Completed
690	2018	PE/NPE/WG_4.5	05 Dec 2018	Completed
1792	2017	PE/NPE/WG_4.6	23 Mar 2017	Completed
765	2022	PE/NPE/WG_4.6	09 Feb 2022	Completed
741	2022	PE/NPE/WG_4.7	24 Mar 2022	Completed
628	2020	PE/NPE/WG_4.9	30 Jan 2020	Completed
2411	2021	PE/NPE/WG_5.1	09 Nov 2021	Completed
1023	2020	PE/NPE/WG_5.1	03 Dec 2020	Completed
1786	2022	PE/NPE/WG_5.2	09 Feb 2022	Completed
1082	2017	PE/NPE/WG_5.3	06 Dec 2017	Completed
1707	2015	PE/NPE/WG_5.3	26 Oct 2015	Completed
497	2016	PE/NPE/WG_6.1	15 May 2016	Completed
63113	2021	PE/NPE/WG_6.1	25 Mar 2021	Completed
379	2014	PE/NPE/WG_6.3	16 May 2014	Completed
603	2018	PE/NPE/WG_6.3	27 Sep 2018	Completed
7-4.3.2	2016	PE/NPE/WG_6.4	29 Jan 2016	Completed
420	2013	PE/NPE/WG_6.5	03 May 2013	Completed
384	2018	PE/NPE/WG_6.5	08 Mar 2018	Completed

Inactive Reserved Standards - Details (7/26/2022)

Standard Number	Year	Committee	SASB Approval Date	Status
62582-1	2011	PE/NPE/WG_2.1	31 Mar 2011	Inactive Reserved
62582-2	2011	PE/NPE/WG_2.1	31 Mar 2011	Inactive Reserved
62582-4	2011	PE/NPE/WG_2.1	31 Mar 2011	Inactive Reserved
62582-2-am1	2015	PE/NPE/WG_2.1	26 Oct 2015	Inactive Reserved
649	2006	PE/NPE/WG_2.14	15 Sep 2006	Inactive Reserved
C37.105	2010	PE/NPE/WG_2.6/C37.105-1987	30 Sep 2010	Inactive Reserved
833	2005	PE/NPE/WG_4.8	07 Dec 2005	Inactive Reserved
845	1999	PE/NPE/WG_5.1	26 Jun 1999	Inactive Reserved
1289	1998	PE/NPE/WG_5.2	19 Mar 1998	Inactive Reserved
622	1987	PE/NPE/WG_6.5	11 Dec 1986	Inactive Reserved

Withdrawn Standards - Details (7/26/2022)

Standard Number	Year	Committee	SASB Approval Date	Status
279	1971	PE/NPE/ADMIN	03 Jun 1971	Withdrawn Standard
381	1977	PE/NPE/ADMIN	09 Dec 1976	Withdrawn Standard
415	1986	PE/NPE/ADMIN	02 May 1985	Withdrawn Standard
467	1980	PE/NPE/ADMIN	07 Jun 1979	Withdrawn Standard
494	1974	PE/NPE/ADMIN	30 May 1974	Withdrawn Standard
500	1984	PE/NPE/ADMIN	23 Jun 1983	Withdrawn Standard
566	1976	PE/NPE/ADMIN	09 Dec 1976	Withdrawn Standard
600	1983	PE/NPE/ADMIN	10 Jun 1982	Withdrawn Standard
749	1983	PE/NPE/ADMIN	18 Dec 1981	Withdrawn Standard
934	1987	PE/NPE/ADMIN	18 Sep 1986	Withdrawn Standard
1033	1985	PE/NPE/ADMIN	13 Sep 1984	Withdrawn Standard
500_P-V	1984	PE/NPE/ADMIN	23 Jun 1983	Withdrawn Standard
567	1980	PE/NPE/ADMIN	20 Dec 1979	Withdrawn Standard
498	1990	PE/NPE/ADMIN	06 Dec 1990	Withdrawn Standard
627	1980	PE/NPE/WG_2.10_627	20 Dec 1979	Withdrawn Standard
C37.98	1987	PE/NPE/WG_2.6/C37.98_WG	13 Jun 1985	Withdrawn Standard
387	1984	PE/NPE/WG_4.2	11 Mar 1982	Withdrawn Standard
497	1981	PE/NPE/WG_6.1	05 Mar 1981	Withdrawn Standard
7-4.3.2	1982	PE/NPE/WG_6.4	21 May 1981	Withdrawn Standard

PARs - Details (7/26/2022)

No.	Project Number	Project Type	Committee	Project Title	Approval PAR Date	Expiration PAR Date	Project Status
1	P62582-1	Revision	PE/NPE/WG_2.1	Nuclear power plants - Instrumentation and control important to safety	27 Sep 2018	31 Dec 2022	Draft Development
2	P62582-2	Revision	PE/NPE/WG_2.1	Nuclear power plants - Instrumentation and control important to safety	27 Sep 2018	31 Dec 2022	RevCom Agenda(19 Sep 2022)
3	P62582-4	Revision	PE/NPE/WG_2.1	Nuclear power plants - Instrumentation and control important to safety	27 Sep 2018	31 Dec 2022	RevCom Agenda(19 Sep 2022)
4	P62582-3	Revision	PE/NPE/WG_2.1	Nuclear Power Plants - Instrumentation and control important to safety	07 Nov 2019	31 Dec 2023	Draft Development
5	P649	Revision	PE/NPE/WG_2.14	Standard for Qualifying Class 1E Motor Control Centers for Nuclear Facilities	15 Feb 2018	31 Dec 2022	Draft Development
6	P1682	Revision	PE/NPE/WG_2.15	Standard for Qualifying Fiber Optic Cables, Connections, and Optical Fibers	07 Nov 2019	31 Dec 2023	SA Ballot: Comment Resolution
7	P2425	New	PE/NPE/WG_2.16	Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation	12 May 2016	31 Dec 2023	Draft Development
8	P334	Revision	PE/NPE/WG_2.2	Standard for Qualifying Alternating Current Class 1E Motors for Nuclear Power Plants	21 Mar 2019	31 Dec 2023	SA Ballot: Ballot
9	P383	Revision	PE/NPE/WG_2.4	Standard for Qualifying Electric Cables and Splices for Nuclear Facilities	05 Sep 2019	31 Dec 2023	Draft Development
10	PC37.105	Revision	PE/NPE/WG_2.6/C3 7.105-1987	Standard for Qualifying Class 1E Protective Relays and Auxiliaries for Nuclear Power Plants	03 Dec 2020	31 Dec 2024	Draft Development
11	PC37.98	Revision	PE/NPE/WG_2.6/C3 7.98_WG	Standard for Seismic Qualification Testing of Protective Relays and Auxiliaries	03 Dec 2020	31 Dec 2024	Draft Development
12	P338	Revision	PE/NPE/WG_3.1	Standard for Criteria for the Periodic Surveillance Testing of Nuclear Power Plants	27 Sep 2018	31 Dec 2022	SA Ballot: Comment Resolution
13	P692	Revision	PE/NPE/WG_3.2	Standard Criteria for Security Systems for Nuclear Power Generating Stations	27 Sep 2018	31 Dec 2022	Draft Development
14	P933	Revision	PE/NPE/WG_3.3	Guide for the Definition of Reliability Program Plans for Nuclear Generating Stations	25 Mar 2021	31 Dec 2025	Draft Development
15	P1205	Revision	PE/NPE/WG_3.4	Guide for Assessing, Monitoring, and Mitigating Aging Effects on Electrical Equipment	24 Mar 2022	31 Dec 2026	Draft Development
16	P63332-387	Revision	PE/NPE/WG_4.2	Nuclear Facilities – Electrical Power Systems – Part 387: Diesel Generator	24 Sep 2020	31 Dec 2023	Draft Development
17	P317	Revision	PE/NPE/WG_4.3	Standard for Electric Penetration Assemblies in Containment Structures	21 Mar 2019	31 Dec 2023	Draft Development
18	P833	Revision	PE/NPE/WG_4.8	Recommended Practice for the Protection of Electric Equipment in Nuclear Power Plants	13 Jun 2019	31 Dec 2023	Draft Development
19	P845	Revision	PE/NPE/WG_5.1	Guide for the Evaluation of Human-System Performance in Nuclear Power Plants	25 Mar 2021	31 Dec 2022	Draft Development
20	P2421	New	PE/NPE/WG_5.2	Guide for Designing and Developing Computer-Based Displays for Monitoring	12 May 2016	31 Dec 2022	Draft Development
21	P1289	Revision	PE/NPE/WG_5.2	Guide for the Application of Human Factors Engineering in the Design of Control Rooms	21 May 2019	31 Dec 2023	Draft Development
22	P61226	New	PE/NPE/WG_6.2	Nuclear power plants - Instrumentation and control systems important to safety	27 Sep 2018	31 Dec 2022	Draft Development
23	P379.1	New	PE/NPE/WG_6.3	Guide for Application of the Single-Failure Criterion to Nuclear Power Generating Stations	21 May 2021	31 Dec 2025	Draft Development
24	P7-4.3.2	Revision	PE/NPE/WG_6.4	Standard Criteria for Programmable Digital Devices in Safety Systems of Nuclear Power Plants	27 Sep 2018	31 Dec 2022	Draft Development
25	P63160	New	PE/NPE/WG_6.4	Nuclear Power Plants - Instrumentation, Control and Electrical Power Systems	21 May 2019	31 Dec 2023	Draft Development
26	P420	Revision	PE/NPE/WG_6.5	Standard for the Design and Qualification of Class 1E Control Boards, Panels, and Cabinets	27 Sep 2018	31 Dec 2022	Draft Development