

Survey Report

Survey Details

Name 2007-17.4 PRC-005 FERC Order No. 803 Directive | PRC-005-6

Description

Start Date 7/30/2015

End Date 9/16/2015

Associated Ballots

2007-17.4 PRC-005 FERC Order No. 803 Directive PRC-005-6 IN 1 ST

2007-17.4 PRC-005 FERC Order No. 803 Directive PRC-005-6 Non-binding Poll IN 1 NB

Survey Questions

1. The PSMTSDT has proposed revising the definition of “Automatic Reclosing” and “Component Type” to address the FERC directive in Order 803. Do you agree that the proposed revised definitions? If not, please provide specific comments regarding the revision and any suggestions for alternatives to address the directive.

Yes

No

2. The PSMTSDT has added Table 4-3 to address maintenance activities and intervals for voltage sensing devices associated with supervisory relays. Do you agree with the proposed table? If not, please provide specific comments regarding the table and any suggestions for alternative language.

Yes

No

3. The PSMTSDT has made revisions to the Supplementary Reference and FAQ Document. Do you agree with the proposed revisions? If not, please provide specific comments regarding the revisions and any suggestions for alternative language.

Yes

No

4. The PSMTSDT has proposed combining the Implementation Plans for previous versions of PRC-005 (including PRC-005-3, PRC-005-3i, PRC-005-3ii, PRC-005-4 and PRC-005-5). Do you agree with the proposed Implementation Plan? If not, please provide specific comments regarding the Implementation Plan and any suggestions for alternative language.

Yes

No

Responses By Question

1. The PSMTSDT has proposed revising the definition of “Automatic Reclosing” and “Component Type” to address the FERC directive in Order 803. Do you agree that the proposed revised definitions? If not, please provide specific comments regarding the revision and any suggestions for alternatives to address the directive.

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

**Meghan Ferguson - International Transmission Company Holdings Corporation On Behalf of:
Michael Moltane, International Transmission Company Holdings Corporation, 1**

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Barbara Kedrowski - WEC Energy Group, Inc. - 3,4,5 - RFC

Selected Answer: No

Answer Comment:

The SDT needs to add to the definition of automatic reclosing to differentiate it from manual reclosing. This could be a possible area of confusion with compliance auditors.

Document Name:

Likes: 0

Dislikes: 0

Andrew Puztai - American Transmission Company, LLC - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Thomas Foltz - AEP - 5 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jamison Dye - Bonneville Power Administration - 1,3,5,6 - WECC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Leonard Kula - Independent Electricity System Operator - 2 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Emily Rousseau - MRO - 1,2,3,4,5,6 - MRO

Group Information

Group Name: MRO-NERC Standards Review Forum (NSRF)

Group Member Name	Entity	Region	Segments
Joe Depoorter	Madison Gas & Electric	MRO	3,4,5,6
Amy Casucelli	Xcel Energy	MRO	1,3,5,6
Chuck Lawrence	American Transmission Company	MRO	1
Chuck Wicklund	Otter Tail Power Company	MRO	1,3,5
Theresa Allard	Minnkota Power Cooperative, Inc	MRO	1,3,5,6
Dave Rudolph	Basin Electric Power Cooperative	MRO	1,3,5,6
Kayleigh Wilkerson	Lincoln Electric System	MRO	1,3,5,6
Jodi Jenson	Western Area Power Administration	MRO	1,6
Larry Heckert	Alliant Energy	MRO	4
Mahmood Safi	Omaha Public Utility District	MRO	1,3,5,6
Shannon Weaver	Midwest ISO Inc.	MRO	2
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Brad Perrett	Minnesota Power	MRO	1,5
Scott Nickels	Rochester Public Utilities	MRO	4
Terry Harbour	MidAmerican Energy Company	MRO	1,3,5,6
Tom Breene	Wisconsin Public Service Corporation	MRO	3,4,5,6
Tony Eddleman	Nebraska Public Power District	MRO	1,3,5

Voter Information

Voter	Segment
Emily Rousseau	1,2,3,4,5,6
Entity	Region(s)
MRO	MRO

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Gul Khan - Gul Khan On Behalf of: Rod Kinard, Oncor Electric Delivery, 1

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Amy Casuscelli - Xcel Energy, Inc. - 1,3,5,6 - MRO,WECC,SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Adam Padgett - TECO - Tampa Electric Co. - 1,3,4,5 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC

Group Information

Group Name: Southern Company

Group Member Name	Entity	Region	Segments
Robert A. Schaffeld	Southern Company Services, Inc.	SERC	1
R. Scott Moore	Alabama Power Company	SERC	3
William D. Shultz	Southern Company Generation	SERC	5
John J. Ciza	Southern Company Generation and Energy Marketing	SERC	6

Voter Information

Voter **Segment**

Pamela Hunter 1,3,5,6

Entity **Region(s)**

Southern Company - Southern Company Services, Inc. SERC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Coggins - Salt River Project - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Molly Devine - IDACORP - Idaho Power Company - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Rachel Coyne - Texas Reliability Entity, Inc. - 10 -

Selected Answer: Yes

Answer Comment:

The definition of Automatic Reclosing is not definitive on the functional aspect (Sudden Pressure Relaying provides functional aspect) and just delineates what Components are included. Is that the standard drafting team's intent? Does the use of the term "Automatic Reclosing" in Table 4-1 Maintenance Activities make sense without a functional aspect being defined?

Document Name:

Likes: 0

Dislikes: 0

John Seelke - PSEG - 1,3,5,6 - NPCC,RFC

Group Information

Group Name: PSEG

Group Member Name	Entity	Region	Segments
Joseph Smith	Public Service Electric and Gas	RFC	1
Jeffrey Mueller	Public Service Electric and Gas Co.	RFC	3
Tim Kucey	PSEG Fossil LLC	RFC	5
Karla Jara	PSEG Energy Resources & Trade LLC	RFC	6

Voter Information

Voter	Segment
John Seelke	1,3,5,6
Entity	Region(s)
PSEG	NPCC,RFC

Selected Answer: No

Answer Comment: We do not believe this standard is needed.

Document Name:

Likes: 2 PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
PSEG - PSEG Fossil LLC, 5, Kucey Tim

Dislikes: 0

Mike Smith - Manitoba Hydro - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

David Jendras - Ameren - Ameren Services - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RFC

Group Information

Group Name: Duke Energy

Group Member Name	Entity	Region	Segments
Doug Hils	Duke Energy	RFC	1
Lee Schuster	Duke Energy	FRCC	3
Dale Goodwine	Duke Energy	SERC	5
Greg Cecil	Duke Energy	RFC	6

Voter Information

Voter	Segment
Colby Bellville	1,3,5,6
Entity	Region(s)
Duke Energy	FRCC,SERC,RFC

Selected Answer: No

Answer Comment:

Duke Energy requests further clarification from the drafting team on the proposed definition of Automatic Reclosing. Is it the drafting team's intent that the definition should incorporate all closings that happen automatically, or just Automatic Reclosing relays? There are some scenarios where there is an automatic closing, but no relay is present. There are also some instances where a Supervisory relay is not supervising a reclosing relay, and just providing a close command itself. Would these Supervisory relays that do not supervise an Automatic Reclosing relay be in scope? We ask the drafting team to clarify the intent of the definition, chiefly whether all automatic closing, even in the event that a relay is not present, falls under the scope of this standard, as well as our concern regarding the scope of Supervisory relays.

Document Name:

Likes: 0

Dislikes: 0

Chris Mattson - Tacoma Public Utilities (Tacoma, WA) - 5 -

Selected Answer: No

Answer Comment:

Tacoma Power generally agrees with the revised definition of "Automatic Reclosing"; however, Tacoma Power recommends consistently using "supervisory relay(s)" or "supervisory relay(s) or function(s)" among the bulleted Component Types.

Document Name:

Likes: 0

Dislikes: 0

Lee Pedowicz - Northeast Power Coordinating Council - 10 - NPCC

Group Information

Group Name: NPCC--Project 2007-17.4 PRC-005 FERC Order No. 803 Directive - PRC-005-6

Group Member Name	Entity	Region	Segments
Alan Adamson	New York State Reliability Council, LLC	NPCC	10
David Burke	Orange and Rockland Utilities Inc.	NPCC	3
Greg Campoli	New York Independent System Operator	NPCC	2
Gerry Dunbar	Northeast Power Coordinating Council	NPCC	10
Mark Kenny	Northeast Utilities	NPCC	1
Helen Lainis	Independent Electricity System Operator	NPCC	2
Rob Vance	New Brunswick Power Corporation	NPCC	9
Paul Malozewski	Hydro One Networks Inc.	NPCC	1
Bruce Metruck	New York Power Authority	NPCC	6
Lee Pedowicz	Northeast Power Coordinating Council	NPCC	10
David Ramkalawan	Ontario Power Generation, Inc.	NPCC	5
Brian Robinson	Utility Services	NPCC	8
Wayne Sipperly	New York Power Authority	NPCC	5
Edward Bedder	Orange and Rockland Utilities Inc.	NPCC	1
Michael Jones	National Grid	NPCC	1
Brian Shanahan	National Grid	NPCC	1
Glen Smith	Entergy Services, Inc.	NPCC	5
RuiDa Shu	Northeast Power Coordinating Council	NPCC	10
Connie Lowe	Dominion Resources Services, Inc.	NPCC	5

Guy Zito	Northeast Power Coordinating Council	NPCC	10
Silvia Parada Mitchell	NextEra Energy, LLC	NPCC	5
Robert Pellegrini	The United Illuminating Company	NPCC	1
Kathleen Goodman	ISO - New England	NPCC	2
Kelly Dash	Consolidated Edison Co. of New York, Inc.	NPCC	1
Michael Forte	Consolidated Edison Co. of New York, Inc.	NPCC	1
Brian O'Boyle	Consolidated Edison Co. of New York, Inc.	NPCC	8
Peter Yost	Consolidated Edison Co. of New York, Inc.	NPCC	3
Sylvain Clermont	Hydro-Quebec TransEnergie	NPCC	1
Si Truc Phan	Hydro-Quebec TransEnergie	NPCC	1

Voter Information

Voter	Segment
Lee Pedowicz	10
Entity	Region(s)
Northeast Power Coordinating Council	NPCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jennifer Losacco - NextEra Energy - Florida Power and Light Co. - 1 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 -

Group Information

Group Name: IRC Standards Review Committee

Group Member Name	Entity	Region	Segments
Charles Yeung	SPP	SPP	2
Ben Li	IESO	NPCC	2
Greg Campoli	NYISO	NPCC	2
Mark Holman	PJM	RFC	2
Matt Goldberg	ISONE	NPCC	2
Lori Spence	MISO	MRO	2
Christina Bigelow	ERCOT	TRE	2
Ali Miremadi	CAISO	WECC	2

Voter Information

Voter	Segment
Charles Yeung	2
Entity	Region(s)
Southwest Power Pool, Inc. (RTO)	

Selected Answer: Yes

Answer Comment: Thank you for the clarification which addresses the SRC's comments on the SAR.

Document Name:

Likes: 0

Dislikes: 0

Jason Smith - Southwest Power Pool, Inc. (RTO) - 2 - SPP

Group Information

Group Name: SPP Standards Review Group

Group Member Name	Entity	Region	Segments
Shannon Mickens	Southwest Power Pool	SPP	2
Jason Smith	Southwest Power Pool	SPP	2
Karl Diekevers	Nebraska Public Power District	MRO	1,3,5
Allan George	Sunflower Electric Power Corporation	SPP	1
Robert Gray	Board of Public Utilities Kansas City, Kansas	SPP	3
Robert Hirschak	CLECO Corporation	SPP	1,3,5,6
Stephanie Johnson	Westar Energy, Inc.	SPP	1,3,5,6
James Nail	City of Independence, Missouri	SPP	3,5
Scott Williams	City Utilities of Springfield	SPP	1,4

Voter Information

Voter **Segment**

Jason Smith 2

Entity **Region(s)**

Southwest Power Pool, Inc. (RTO) SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Ben Engelby - ACES Power Marketing - 6 -

Group Information

Group Name: ACES Standards Collaborators - PRC-005 Project

Group Member Name	Entity	Region	Segments
Amber Skillern	East Kentucky Power Cooperative	SERC	1,3
Shari Heino	Brazos Electric Power Cooperative, Inc.	TRE	1,5
Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	RFC	1
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Ellen Watkins	Sunflower Electric Power Corporation	SPP	1
Ryan Strom	Buckeye Power, Inc.	RFC	4
Ginger Mercier	Prairie Power, Inc.	SERC	1,3
Lucia Beal	Southern Maryland Electric Cooperative	RFC	3

Voter Information

Voter	Segment
Ben Engelby	6
Entity	Region(s)
ACES Power Marketing	

Selected Answer: Yes

Answer Comment: The definition change is consistent with the FERC directive in Order 803.

Document Name:

Likes: 0

Dislikes: 0

Oshani Pathirane - Oshani Pathirane On Behalf of: Paul Malozewski, Hydro One Networks, Inc., 1, 3
Payam Farahbakhsh, Hydro One Networks, Inc., 1, 3

Selected Answer: Yes

Answer Comment:

With respect to requirements 4.2.7.1 and 4.2.7.2, automatic reclosing relays addressed are subject to an exemption if the owner of the equipment could demonstrate that a close-in three-phase fault present for twice the normal clearing time (capturing a minimum trip-close-trip time delay) does not result in a total loss of gross generation in the Interconnection exceeding the gross capacity of the largest relevant BES generating unit where the Automatic Reclosing is applied. However, Hydro One Networks Inc. would like to suggest that the SDT consider indicating the timelines for demonstrating the above applicability. For example, additional detail on what would trigger a system review, or intervals in which the system review should be performed, could be explicitly stated within the body of the standard.

Document Name:

Likes: 0

Dislikes: 0

2. The PSMTSDT has added Table 4-3 to address maintenance activities and intervals for voltage sensing devices associated with supervisory relays. Do you agree with the proposed table? If not, please provide specific comments regarding the table and any suggestions for alternative language.

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

**Meghan Ferguson - International Transmission Company Holdings Corporation On Behalf of:
Michael Moltane, International Transmission Company Holdings Corporation, 1**

Selected Answer: No

Answer Comment:

The note on Table 4-3 needs to be updated with the correct information and table reference.

Currently, the Note on Table 4-3 reads: *"Note: In cases where **Components of Sudden Pressure Relaying** are common to Components listed in **Table 1** , the Components only need to be tested once during a distinct maintenance interval."*

The Note on Table 4-3 should be re-worded as: *"Note: In cases where **Automatic Reclosing Components** are common to Components listed in **Table 1** , the Components only need to be tested once during a distinct maintenance interval."*

Document Name:

Likes: 0

Dislikes: 0

Barbara Kedrowski - WEC Energy Group, Inc. - 3,4,5 - RFC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Andrew Pusztai - American Transmission Company, LLC - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Thomas Foltz - AEP - 5 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jamison Dye - Bonneville Power Administration - 1,3,5,6 - WECC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Leonard Kula - Independent Electricity System Operator - 2 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Emily Rousseau - MRO - 1,2,3,4,5,6 - MRO

Group Information

Group Name: MRO-NERC Standards Review Forum (NSRF)

Group Member Name	Entity	Region	Segments
Joe Depoorter	Madison Gas & Electric	MRO	3,4,5,6
Amy Casucelli	Xcel Energy	MRO	1,3,5,6
Chuck Lawrence	American Transmission Company	MRO	1
Chuck Wicklund	Otter Tail Power Company	MRO	1,3,5
Theresa Allard	Minnkota Power Cooperative, Inc	MRO	1,3,5,6
Dave Rudolph	Basin Electric Power Cooperative	MRO	1,3,5,6
Kayleigh Wilkerson	Lincoln Electric System	MRO	1,3,5,6
Jodi Jenson	Western Area Power Administration	MRO	1,6
Larry Heckert	Alliant Energy	MRO	4
Mahmood Safi	Omaha Public Utility District	MRO	1,3,5,6
Shannon Weaver	Midwest ISO Inc.	MRO	2
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Brad Perrett	Minnesota Power	MRO	1,5
Scott Nickels	Rochester Public Utilities	MRO	4
Terry Harbour	MidAmerican Energy Company	MRO	1,3,5,6
Tom Breene	Wisconsin Public Service Corporation	MRO	3,4,5,6
Tony Eddleman	Nebraska Public Power District	MRO	1,3,5

Voter Information

Voter	Segment
Emily Rousseau	1,2,3,4,5,6
Entity	Region(s)
MRO	MRO

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Gul Khan - Gul Khan On Behalf of: Rod Kinard, Oncor Electric Delivery, 1

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Amy Casuscelli - Xcel Energy, Inc. - 1,3,5,6 - MRO,WECC,SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Adam Padgett - TECO - Tampa Electric Co. - 1,3,4,5 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC

Group Information

Group Name: Southern Company

Group Member Name	Entity	Region	Segments
Robert A. Schaffeld	Southern Company Services, Inc.	SERC	1
R. Scott Moore	Alabama Power Company	SERC	3
William D. Shultz	Southern Company Generation	SERC	5
John J. Ciza	Southern Company Generation and Energy Marketing	SERC	6

Voter Information

Voter **Segment**

Pamela Hunter 1,3,5,6

Entity **Region(s)**

Southern Company - Southern Company Services, Inc. SERC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Coggins - Salt River Project - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Molly Devine - IDACORP - Idaho Power Company - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Rachel Coyne - Texas Reliability Entity, Inc. - 10 -

Selected Answer: No

Answer Comment:

Texas RE inquires as to why the standard drafting team choose 12 years for this Component Type. In general, in most, not all, of the previous Tables provided for maintenance activities of any unmonitored relay had a 6 Calendar Year Minimum Maintenance Interval.

Texas RE noticed Maintenance Activities of Table 4-1 are not consistent (e.g.- Row 1 states "Verify that settings are as specified" but Row 2 states "Verify: Settings are as specified" (in bullets) but the format is backwards for the "Operation of the relay inputs..." statement in both rows.

Additional clarity may be needed between the Table 4-1 additions and Table 4-3. In Table 4-1 there is a Component Attribute for supervisory relays that essentially states a 12 Calendar Year Maximum Maintenance Interval for supervisory relays that have “AC measurements are continuously verified by comparison to an independent AC measurement source, with alarming for excessive error (See Table 2).” In Table 4-3 “Voltage sensing devices that are connected to microprocessor supervisory relays with AC measurements that are continuously verified by comparison of sensing input value, as measured by the microprocessor relay, to an independent AC measurement source, with alarming for unacceptable error or failure. (See Table 2)” has no periodic maintenance specified. Texas RE is concerned it appears an entity is required to do the “Maintenance Activity” described in Table 4-1 (“Verify acceptable measurement of power system input values.”) within 12 Calendar Years on the relays but is not required to do any Maintenance Activity on the voltage sensing devices.

Document Name:

Likes: 0

Dislikes: 0

John Seelke - PSEG - 1,3,5,6 - NPCC,RFC

Group Information

Group Name: PSEG

Group Member Name	Entity	Region	Segments
Joseph Smith	Public Service Electric and Gas	RFC	1
Jeffrey Mueller	Public Service Electric and Gas Co.	RFC	3
Tim Kucey	PSEG Fossil LLC	RFC	5
Karla Jara	PSEG Energy Resources & Trade LLC	RFC	6

Voter Information

Voter	Segment
John Seelke	1,3,5,6
Entity	Region(s)
PSEG	NPCC,RFC

Selected Answer: No

Answer Comment: We do not believe this standard is needed.

Document Name:

Likes: 2 PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
PSEG - PSEG Fossil LLC, 5, Kucey Tim

Dislikes: 0

Mike Smith - Manitoba Hydro - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

David Jendras - Ameren - Ameren Services - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RFC

Group Information

Group Name: Duke Energy

Group Member Name	Entity	Region	Segments
Doug Hils	Duke Energy	RFC	1
Lee Schuster	Duke Energy	FRCC	3
Dale Goodwine	Duke Energy	SERC	5
Greg Cecil	Duke Energy	RFC	6

Voter Information

Voter	Segment
Colby Bellville	1,3,5,6
Entity	Region(s)
Duke Energy	FRCC,SERC,RFC

Selected Answer: Yes

Answer Comment: Duke Energy is unsure of the necessity of inserting the note: “Note: In cases where Components of Sudden Pressure Relaying are common to Components listed in Table 1-5, the Components only need to be tested once during a distinct maintenance interval” to Table 4-3. It doesn’t appear that the note is applicable to this Table. We recommend that the drafting team consider only including the Note on tables where it is best applicable.

Document Name:

Likes: 0

Dislikes: 0

Chris Mattson - Tacoma Public Utilities (Tacoma, WA) - 5 -

Selected Answer: Yes

Answer Comment:

In Tables 4-2(a), 4-2(b), and 4-3, "Sudden Pressure Relaying" should be changed to "Automatic Reclosing."

Document Name:

Likes: 0

Dislikes: 0

Lee Pedowicz - Northeast Power Coordinating Council - 10 - NPCC

Group Information

Group Name: NPCC--Project 2007-17.4 PRC-005 FERC Order No. 803 Directive - PRC-005-6

Group Member Name	Entity	Region	Segments
Alan Adamson	New York State Reliability Council, LLC	NPCC	10
David Burke	Orange and Rockland Utilities Inc.	NPCC	3
Greg Campoli	New York Independent System Operator	NPCC	2
Gerry Dunbar	Northeast Power Coordinating Council	NPCC	10
Mark Kenny	Northeast Utilities	NPCC	1
Helen Lainis	Independent Electricity System Operator	NPCC	2
Rob Vance	New Brunswick Power Corporation	NPCC	9
Paul Malozewski	Hydro One Networks Inc.	NPCC	1
Bruce Metruck	New York Power Authority	NPCC	6
Lee Pedowicz	Northeast Power Coordinating Council	NPCC	10
David Ramkalawan	Ontario Power Generation, Inc.	NPCC	5
Brian Robinson	Utility Services	NPCC	8
Wayne Sipperly	New York Power Authority	NPCC	5
Edward Bedder	Orange and Rockland Utilities Inc.	NPCC	1
Michael Jones	National Grid	NPCC	1
Brian Shanahan	National Grid	NPCC	1
Glen Smith	Entergy Services, Inc.	NPCC	5
RuiDa Shu	Northeast Power Coordinating Council	NPCC	10
Connie Lowe	Dominion Resources Services, Inc.	NPCC	5

Guy Zito	Northeast Power Coordinating Council	NPCC	10
Silvia Parada Mitchell	NextEra Energy, LLC	NPCC	5
Robert Pellegrini	The United Illuminating Company	NPCC	1
Kathleen Goodman	ISO - New England	NPCC	2
Kelly Dash	Consolidated Edison Co. of New York, Inc.	NPCC	1
Michael Forte	Consolidated Edison Co. of New York, Inc.	NPCC	1
Brian O'Boyle	Consolidated Edison Co. of New York, Inc.	NPCC	8
Peter Yost	Consolidated Edison Co. of New York, Inc.	NPCC	3
Sylvain Clermont	Hydro-Quebec TransEnergie	NPCC	1
Si Truc Phan	Hydro-Quebec TransEnergie	NPCC	1

Voter Information

Voter	Segment
Lee Pedowicz	10
Entity	Region(s)
Northeast Power Coordinating Council	NPCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jennifer Losacco - NextEra Energy - Florida Power and Light Co. - 1 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 -

Group Information

Group Name: IRC Standards Review Committee

Group Member Name	Entity	Region	Segments
Charles Yeung	SPP	SPP	2
Ben Li	IESO	NPCC	2
Greg Campoli	NYISO	NPCC	2
Mark Holman	PJM	RFC	2
Matt Goldberg	ISONE	NPCC	2
Lori Spence	MISO	MRO	2
Christina Bigelow	ERCOT	TRE	2
Ali Miremadi	CAISO	WECC	2

Voter Information

Voter	Segment
Charles Yeung	2
Entity	Region(s)
Southwest Power Pool, Inc. (RTO)	

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jason Smith - Southwest Power Pool, Inc. (RTO) - 2 - SPP

Group Information

Group Name: SPP Standards Review Group

Group Member Name	Entity	Region	Segments
Shannon Mickens	Southwest Power Pool	SPP	2
Jason Smith	Southwest Power Pool	SPP	2
Karl Diekevers	Nebraska Public Power District	MRO	1,3,5
Allan George	Sunflower Electric Power Corporation	SPP	1
Robert Gray	Board of Public Utilities Kansas City, Kansas	SPP	3
Robert Hirschak	CLECO Corporation	SPP	1,3,5,6
Stephanie Johnson	Westar Energy, Inc.	SPP	1,3,5,6
James Nail	City of Independence, Missouri	SPP	3,5
Scott Williams	City Utilities of Springfield	SPP	1,4

Voter Information

Voter **Segment**

Jason Smith 2

Entity **Region(s)**

Southwest Power Pool, Inc. (RTO) SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Ben Engelby - ACES Power Marketing - 6 -

Group Information

Group Name: ACES Standards Collaborators - PRC-005 Project

Group Member Name	Entity	Region	Segments
Amber Skillern	East Kentucky Power Cooperative	SERC	1,3
Shari Heino	Brazos Electric Power Cooperative, Inc.	TRE	1,5
Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	RFC	1
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Ellen Watkins	Sunflower Electric Power Corporation	SPP	1
Ryan Strom	Buckeye Power, Inc.	RFC	4
Ginger Mercier	Prairie Power, Inc.	SERC	1,3
Lucia Beal	Southern Maryland Electric Cooperative	RFC	3

Voter Information

Voter	Segment
Ben Engelby	6
Entity	Region(s)
ACES Power Marketing	

Selected Answer: Yes

Answer Comment:

We identified a minor grammatical error in Table 1-1. There is inconsistent capitalization of the acronym "AC" in the first bullet, which lists both "Ac" and "AC".

We ask the drafting team to clarify in Table 4-1 the phrase "with preceding row attributes," as the format of the table is unclear whether the reference is to all of the monitored microprocessor reclosing relays and supervisory relays, including Table 2, or just the supervisory relays with waveform sampling three or more

times per power cycle. The format of each table carrying over the header from the previous page makes the phrase “with preceding row attributes” unclear.

We appreciate the drafting team providing clarity in the note of Table 4-3 for cases where Components of Sudden Pressure Relaying are common to Components listed in Table 1 during a distinct maintenance interval.

-5,

Document Name:

Likes: 0

Dislikes: 0

Oshani Pathirane - Oshani Pathirane On Behalf of: Paul Malozewski, Hydro One Networks, Inc., 1, 3
Payam Farahbakhsh, Hydro One Networks, Inc., 1, 3

Selected Answer: No

Answer Comment:

Hydro One Networks Inc. would like to suggest that, the wording of the title bar's note be changed to read, "In cases where ***Automatic Reclosing Components*** are common to Components listed in ***Tables 1-3 and 1-5***, the Components only need to be tested once during a distinct maintenance interval."

Hydro One Networks Inc. would also like to suggest that Tables 4-2(a) and 4-2(b) title bars' notes also be revised to read, "Automatic Reclosing Components", instead of "Sudden Pressure Relaying"

Document Name:

Likes: 0

Dislikes: 0

3. The PSMTSDT has made revisions to the Supplementary Reference and FAQ Document. Do you agree with the proposed revisions? If not, please provide specific comments regarding the revisions and any suggestions for alternative language.

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

**Meghan Ferguson - International Transmission Company Holdings Corporation On Behalf of:
Michael Moltane, International Transmission Company Holdings Corporation, 1**

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Barbara Kedrowski - WEC Energy Group, Inc. - 3,4,5 - RFC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Andrew Pusztaï - American Transmission Company, LLC - 1 -

Selected Answer: Yes

Answer Comment:

However, in the draft standard, the terms, "AC" and "DC" are capitalized. However, in the FAQ Document, "ac" and "dc" are lower case. ATC recommends using capitalization (or lack thereof) related to "AC" and "DC" consistently in both the standard and the FAQ Document.

Document Name:

Likes: 0

Dislikes: 0

Thomas Foltz - AEP - 5 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jamison Dye - Bonneville Power Administration - 1,3,5,6 - WECC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Leonard Kula - Independent Electricity System Operator - 2 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Emily Rousseau - MRO - 1,2,3,4,5,6 - MRO

Group Information

Group Name: MRO-NERC Standards Review Forum (NSRF)

Group Member Name	Entity	Region	Segments
Joe Depoorter	Madison Gas & Electric	MRO	3,4,5,6
Amy Casucelli	Xcel Energy	MRO	1,3,5,6
Chuck Lawrence	American Transmission Company	MRO	1
Chuck Wicklund	Otter Tail Power Company	MRO	1,3,5
Theresa Allard	Minnkota Power Cooperative, Inc	MRO	1,3,5,6
Dave Rudolph	Basin Electric Power Cooperative	MRO	1,3,5,6
Kayleigh Wilkerson	Lincoln Electric System	MRO	1,3,5,6
Jodi Jenson	Western Area Power Administration	MRO	1,6
Larry Heckert	Alliant Energy	MRO	4
Mahmood Safi	Omaha Public Utility District	MRO	1,3,5,6
Shannon Weaver	Midwest ISO Inc.	MRO	2
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Brad Perrett	Minnesota Power	MRO	1,5
Scott Nickels	Rochester Public Utilities	MRO	4
Terry Harbour	MidAmerican Energy Company	MRO	1,3,5,6
Tom Breene	Wisconsin Public Service Corporation	MRO	3,4,5,6
Tony Eddleman	Nebraska Public Power District	MRO	1,3,5

Voter Information

Voter	Segment
Emily Rousseau	1,2,3,4,5,6
Entity	Region(s)
MRO	MRO

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Gul Khan - Gul Khan On Behalf of: Rod Kinard, Oncor Electric Delivery, 1

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Amy Casuscelli - Xcel Energy, Inc. - 1,3,5,6 - MRO,WECC,SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Adam Padgett - TECO - Tampa Electric Co. - 1,3,4,5 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC

Group Information

Group Name: Southern Company

Group Member Name	Entity	Region	Segments
Robert A. Schaffeld	Southern Company Services, Inc.	SERC	1
R. Scott Moore	Alabama Power Company	SERC	3
William D. Shultz	Southern Company Generation	SERC	5
John J. Ciza	Southern Company Generation and Energy Marketing	SERC	6

Voter Information

Voter **Segment**

Pamela Hunter 1,3,5,6

Entity **Region(s)**

Southern Company - Southern Company Services, Inc. SERC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Coggins - Salt River Project - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Molly Devine - IDACORP - Idaho Power Company - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Rachel Coyne - Texas Reliability Entity, Inc. - 10 -

Selected Answer:

Answer Comment:

Texas RE noticed some references to version four of PRC-005, which could cause confusion:

- Page four in the first paragraph, "PRC-005-4 would apply to this equipment"; and
- Page Five in the FAQ section regarding Distribution Provider.

On page 20 of the Supplementary document there is a reference to CBM that appears incorrect ("if the condition of the device is continuously monitored (CBM).")

Document Name:

Likes: 0

Dislikes: 0

John Seelke - PSEG - 1,3,5,6 - NPCC,RFC

Group Information

Group Name: PSEG

Group Member Name	Entity	Region	Segments
Joseph Smith	Public Service Electric and Gas	RFC	1
Jeffrey Mueller	Public Service Electric and Gas Co.	RFC	3
Tim Kucey	PSEG Fossil LLC	RFC	5
Karla Jara	PSEG Energy Resources & Trade LLC	RFC	6

Voter Information

Voter	Segment
John Seelke	1,3,5,6
Entity	Region(s)
PSEG	NPCC,RFC

Selected Answer: No

Answer Comment: We do not believe this standard is needed.

Document Name:

Likes: 2 PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
PSEG - PSEG Fossil LLC, 5, Kucey Tim

Dislikes: 0

Mike Smith - Manitoba Hydro - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

David Jendras - Ameren - Ameren Services - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RFC

Group Information

Group Name: Duke Energy

Group Member Name	Entity	Region	Segments
Doug Hils	Duke Energy	RFC	1
Lee Schuster	Duke Energy	FRCC	3
Dale Goodwine	Duke Energy	SERC	5
Greg Cecil	Duke Energy	RFC	6

Voter Information

Voter	Segment
Colby Bellville	1,3,5,6
Entity	Region(s)
Duke Energy	FRCC,SERC,RFC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Chris Mattson - Tacoma Public Utilities (Tacoma, WA) - 5 -

Selected Answer:

Answer Comment:

On page 24 of the redlined version of the Supplementary Reference and FAQ, the bottom box in the flowchart should show R5, not R3.

Document Name:

Likes: 0

Dislikes: 0

Lee Pedowicz - Northeast Power Coordinating Council - 10 - NPCC

Group Information

Group Name: NPCC--Project 2007-17.4 PRC-005 FERC Order No. 803 Directive - PRC-005-6

Group Member Name	Entity	Region	Segments
Alan Adamson	New York State Reliability Council, LLC	NPCC	10
David Burke	Orange and Rockland Utilities Inc.	NPCC	3
Greg Campoli	New York Independent System Operator	NPCC	2
Gerry Dunbar	Northeast Power Coordinating Council	NPCC	10
Mark Kenny	Northeast Utilities	NPCC	1
Helen Lainis	Independent Electricity System Operator	NPCC	2
Rob Vance	New Brunswick Power Corporation	NPCC	9
Paul Malozewski	Hydro One Networks Inc.	NPCC	1
Bruce Metruck	New York Power Authority	NPCC	6
Lee Pedowicz	Northeast Power Coordinating Council	NPCC	10
David Ramkalawan	Ontario Power Generation, Inc.	NPCC	5
Brian Robinson	Utility Services	NPCC	8
Wayne Sipperly	New York Power Authority	NPCC	5
Edward Bedder	Orange and Rockland Utilities Inc.	NPCC	1
Michael Jones	National Grid	NPCC	1
Brian Shanahan	National Grid	NPCC	1
Glen Smith	Entergy Services, Inc.	NPCC	5
RuiDa Shu	Northeast Power Coordinating Council	NPCC	10
Connie Lowe	Dominion Resources Services, Inc.	NPCC	5

Guy Zito	Northeast Power Coordinating Council	NPCC	10
Silvia Parada Mitchell	NextEra Energy, LLC	NPCC	5
Robert Pellegrini	The United Illuminating Company	NPCC	1
Kathleen Goodman	ISO - New England	NPCC	2
Kelly Dash	Consolidated Edison Co. of New York, Inc.	NPCC	1
Michael Forte	Consolidated Edison Co. of New York, Inc.	NPCC	1
Brian O'Boyle	Consolidated Edison Co. of New York, Inc.	NPCC	8
Peter Yost	Consolidated Edison Co. of New York, Inc.	NPCC	3
Sylvain Clermont	Hydro-Quebec TransEnergie	NPCC	1
Si Truc Phan	Hydro-Quebec TransEnergie	NPCC	1

Voter Information

Voter	Segment
Lee Pedowicz	10
Entity	Region(s)
Northeast Power Coordinating Council	NPCC

Selected Answer: No

Answer Comment:

Suggest a clarification in the definition of a synchronizing or synchronism check relay (Sync-Check - 25) as shown below:

“A synchronizing device that produces an output that supervises closure of a circuit breaker between two circuits whose voltages are within prescribed limits of magnitude and within the prescribed phase angle **for the prescribed time**. It may or may not include voltage or speed control. A sync-check relay permits the paralleling of two circuits that are within prescribed (usually wider) limits of voltage magnitude and phase angle **for the prescribed time**.”

Document Name:

Likes: 1 Pathirane Oshani On Behalf of: Paul Malozewski, Hydro One Networks, Inc.,
1, 3,
Payam Farahbakhsh

Dislikes: 0

Jennifer Losacco - NextEra Energy - Florida Power and Light Co. - 1 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 -

Group Information

Group Name: IRC Standards Review Committee

Group Member Name	Entity	Region	Segments
Charles Yeung	SPP	SPP	2
Ben Li	IESO	NPCC	2
Greg Campoli	NYISO	NPCC	2
Mark Holman	PJM	RFC	2
Matt Goldberg	ISONE	NPCC	2
Lori Spence	MISO	MRO	2
Christina Bigelow	ERCOT	TRE	2
Ali Miremadi	CAISO	WECC	2

Voter Information

Voter	Segment
Charles Yeung	2
Entity	Region(s)
Southwest Power Pool, Inc. (RTO)	

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jason Smith - Southwest Power Pool, Inc. (RTO) - 2 - SPP

Group Information

Group Name: SPP Standards Review Group

Group Member Name	Entity	Region	Segments
Shannon Mickens	Southwest Power Pool	SPP	2
Jason Smith	Southwest Power Pool	SPP	2
Karl Diekevers	Nebraska Public Power District	MRO	1,3,5
Allan George	Sunflower Electric Power Corporation	SPP	1
Robert Gray	Board of Public Utilities Kansas City, Kansas	SPP	3
Robert Hirschak	CLECO Corporation	SPP	1,3,5,6
Stephanie Johnson	Westar Energy, Inc.	SPP	1,3,5,6
James Nail	City of Independence, Missouri	SPP	3,5
Scott Williams	City Utilities of Springfield	SPP	1,4

Voter Information

Voter **Segment**

Jason Smith 2

Entity **Region(s)**

Southwest Power Pool, Inc. (RTO) SPP

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Ben Engelby - ACES Power Marketing - 6 -

Group Information

Group Name: ACES Standards Collaborators - PRC-005 Project

Group Member Name	Entity	Region	Segments
Amber Skillern	East Kentucky Power Cooperative	SERC	1,3
Shari Heino	Brazos Electric Power Cooperative, Inc.	TRE	1,5
Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	RFC	1
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Ellen Watkins	Sunflower Electric Power Corporation	SPP	1
Ryan Strom	Buckeye Power, Inc.	RFC	4
Ginger Mercier	Prairie Power, Inc.	SERC	1,3
Lucia Beal	Southern Maryland Electric Cooperative	RFC	3

Voter Information

Voter	Segment
Ben Engelby	6
Entity	Region(s)
ACES Power Marketing	

Selected Answer: Yes

Answer Comment:

We generally agree with the document, but question the need for listing PRC-005, PRC-008, PRC-011, and PRC-017 in the introduction. This only creates confusion and will need to be revised when these standards are retired. The implementation plan already covers these changes. The introduction should explain the various FERC orders and the rationale for adding additional equipment to the scope of this standard. While we understand that the supplementary reference is not mandatory nor enforceable, it should be drafted in a way that does not require constant updates or maintenance for each new version of the standard.

On page 98, the newly added FAQ regarding the parts of the control circuitry that need to be verified should clarify that the numbers listed in the bullets are IEEE device numbers. Also, the format of this question makes it appear that all of the bullets are applicable and need to be verified. The reader must get to the final sentence before they find that three of the six bullets do not need verification. We ask the SDT to reword this question by removing the bullets and clarifying that IEEE device numbers 79, 25, and 27 or 59 would need to be verified while IEEE device numbers 79/ON, 52, and 86 do not.

We identified inconsistent capitalization for “AC,” “DC,” and “VAR”. The standard capitalizes these words while the technical reference does not. We recommend that the supplemental reference matches the same usage and capitalization as the standard.

Document Name:

Likes: 0

Dislikes: 0

Oshani Pathirane - Oshani Pathirane On Behalf of: Paul Malozewski, Hydro One Networks, Inc., 1, 3
Payam Farahbakhsh, Hydro One Networks, Inc., 1, 3

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

4. The PSMTSDT has proposed combining the Implementation Plans for previous versions of PRC-005 (including PRC-005-3, PRC-005-3i, PRC-005-3ii, PRC-005-4 and PRC-005-5). Do you agree with the proposed Implementation Plan? If not, please provide specific comments regarding the Implementation Plan and any suggestions for alternative language.

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

**Meghan Ferguson - International Transmission Company Holdings Corporation On Behalf of:
Michael Moltane, International Transmission Company Holdings Corporation, 1**

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Barbara Kedrowski - WEC Energy Group, Inc. - 3,4,5 - RFC

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Andrew Puztai - American Transmission Company, LLC - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Thomas Foltz - AEP - 5 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jamison Dye - Bonneville Power Administration - 1,3,5,6 - WECC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Leonard Kula - Independent Electricity System Operator - 2 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Emily Rousseau - MRO - 1,2,3,4,5,6 - MRO

Group Information

Group Name: MRO-NERC Standards Review Forum (NSRF)

Group Member Name	Entity	Region	Segments
Joe Depoorter	Madison Gas & Electric	MRO	3,4,5,6
Amy Casucelli	Xcel Energy	MRO	1,3,5,6
Chuck Lawrence	American Transmission Company	MRO	1
Chuck Wicklund	Otter Tail Power Company	MRO	1,3,5
Theresa Allard	Minnkota Power Cooperative, Inc	MRO	1,3,5,6
Dave Rudolph	Basin Electric Power Cooperative	MRO	1,3,5,6
Kayleigh Wilkerson	Lincoln Electric System	MRO	1,3,5,6
Jodi Jenson	Western Area Power Administration	MRO	1,6
Larry Heckert	Alliant Energy	MRO	4
Mahmood Safi	Omaha Public Utility District	MRO	1,3,5,6
Shannon Weaver	Midwest ISO Inc.	MRO	2
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Brad Perrett	Minnesota Power	MRO	1,5
Scott Nickels	Rochester Public Utilities	MRO	4
Terry Harbour	MidAmerican Energy Company	MRO	1,3,5,6
Tom Breene	Wisconsin Public Service Corporation	MRO	3,4,5,6
Tony Eddleman	Nebraska Public Power District	MRO	1,3,5

Voter Information

Voter	Segment
Emily Rousseau	1,2,3,4,5,6
Entity	Region(s)
MRO	MRO

Selected Answer: No

Answer Comment:

The NSRF suggest the following up date as we believe it was a cut and paste error.

Tables 4-2(a), 4-2(b) and 4-3 have a note contained within the header that needs to be corrected. The note states "Note: In cases where Components of **Sudden Pressure Relaying** are common to Components listed in Table..."

The notes in these tables should be changed from Sudden Pressure Relaying to Automatic Reclosing.

Document Name:

Likes: 0

Dislikes: 0

Gul Khan - Gul Khan On Behalf of: Rod Kinard, Oncor Electric Delivery, 1

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Amy Casuscelli - Xcel Energy, Inc. - 1,3,5,6 - MRO,WECC,SPP

Selected Answer: Yes

Answer Comment:

We strongly support the consolidation of the various PRC-005 Implementation Plans and believe this effort will eliminate much confusion and provide for a much more manageable change process.

Document Name:

Likes: 0

Dislikes: 0

Adam Padgett - TECO - Tampa Electric Co. - 1,3,4,5 - FRCC

Selected Answer: Yes

Answer Comment:

Eliminating multiple revisions of this standard will facilitate improved understandability of the standard while reducing the potential for errors in implementing the standard.

Document Name:

Likes: 0

Dislikes:

0

Pamela Hunter - Southern Company - Southern Company Services, Inc. - 1,3,5,6 - SERC

Group Information

Group Name: Southern Company

Group Member Name	Entity	Region	Segments
Robert A. Schaffeld	Southern Company Services, Inc.	SERC	1
R. Scott Moore	Alabama Power Company	SERC	3
William D. Shultz	Southern Company Generation	SERC	5
John J. Ciza	Southern Company Generation and Energy Marketing	SERC	6

Voter Information

Voter Segment

Pamela Hunter 1,3,5,6

Entity Region(s)

Southern Company - Southern Company Services, Inc. SERC

Selected Answer:

Answer Comment:

Southern Company supports the proposed implementation plan but, as noted early, feel that the the enforcement date of the already approved PRC-005-3 should immediately be placed on hold in order to coincide with the approval of this version of PRC-005.

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Fontenot - Bryan Texas Utilities - 1 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

John Coggins - Salt River Project - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Molly Devine - IDACORP - Idaho Power Company - 1 -

Selected Answer: Yes

Answer Comment:

With the number of revisions, keeping track is becoming a full time job.

Document Name:

Likes: 0

Dislikes: 0

Rachel Coyne - Texas Reliability Entity, Inc. - 10 -

Selected Answer: No

Answer Comment:

Texas RE understands registered entities need time to implement standards, but the extended timeframes for testing and maintenance of the components in the series of standards listed above is too long. If registered entities are aware of the future need they should already be working to identify the Components (and associated maintenance schedules). Texas RE is concerned there would be significant reliability risk if a registered entity was not maintaining a list of the relays it has implemented and when testing was completed on those implemented relays. The extended timeframe, now possibly beyond 2030, could lead to misinterpretations and inconsistencies in registered entities practices and could impact auditing.

Texas RE made the following additional observations:

- There does not appear to be consistent use and applicability of relay types associated with term “relay” (e.g. In Table 4-1 there is a distinction made in Row 1 (page 34) between “microprocessor relays” and “non-microprocessor relays” AND “microprocessor supervisory relays”.) This could lead to confusion. If there is a “non-microprocessor supervisory relay” does an entity need to “Test and, if necessary calibrate”? It appears that verification requirements will apply to reclosing and supervisory relays and an additional requirement for microprocessor supervisory relays has been added. Is that the intent? In Row 2, no distinction is made (i.e. “Verify: Settings are as specified” will apply to both reclosing relays and supervisory relays);
- Section 1.3 “Compliance Monitoring and Assessment Processes” does not follow the Standards template; and
- In Table 3 “Ac” at the beginning of a sentence on page 32 needs capitalized Page 18 Table 1-1 has similar issue).

Document Name:

Likes: 0

Dislikes: 0

John Seelke - PSEG - 1,3,5,6 - NPCC,RFC

Group Information

Group Name: PSEG

Group Member Name	Entity	Region	Segments
Joseph Smith	Public Service Electric and Gas	RFC	1
Jeffrey Mueller	Public Service Electric and Gas Co.	RFC	3
Tim Kucey	PSEG Fossil LLC	RFC	5
Karla Jara	PSEG Energy Resources & Trade LLC	RFC	6

Voter Information

Voter	Segment
John Seelke	1,3,5,6
Entity	Region(s)
PSEG	NPCC,RFC

Selected Answer: No

Answer Comment: We do not believe this standard is needed.

Document Name:

Likes: 2 PSEG - Public Service Electric and Gas Co., 1, Smith Joseph
PSEG - PSEG Fossil LLC, 5, Kucey Tim

Dislikes: 0

Mike Smith - Manitoba Hydro - 1 -

Selected Answer: No

Answer Comment:

Manitoba Hydro disagrees with the imposed maintenance requirements introduced in PRC-005-6 through the merging of developed maintenance requirements from PRC-005-4.

Manitoba Hydro disagrees with the 6 calendar year maximum maintenance interval proposed in Table 5, relating to sudden pressure relays. Manitoba Hydro has never seen evidence that maintaining sudden pressure relays will in any way prevent instability, cascading outages, or islanding. If such evidence or peer-reviewed publications exist, please share them. Without such evidence, enforcing this maintenance falls outside of NERC's mandate. Moreover, the System Protection and Control Subcommittee (SPCS) errs in believing that it is "more important to base intervals for fault pressure relaying on similar Protection System Components than transformer maintenance intervals." (p 105 of the "PRC-005-4 Supplementary Reference and FAQ – October 2014"). Justification for this perspective is that maintaining sudden pressure relays necessitates transformer outages, which is not the case with most other protection system component maintenance. To avoid unnecessary reliability risks from these transformer outages, sudden pressure relay maintenance should be based on the transformer maintenance intervals, which in Manitoba Hydro's case greatly exceeds six years.

As proposed, PRC-005-6 is mandating a reduction in the availability of equipment (transformers), reducing the reliability of the BES during these maintenance forced outages, without providing any additional security to the BES. The maintenance frequency appears to be arbitrarily aligned with maintenance intervals of other protective systems, which do not require outages or impose notable reliability risks to the BES during such maintenance.

Document Name:

Likes: 0

Dislikes: 0

David Jendras - Ameren - Ameren Services - 3 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Colby Bellville - Duke Energy - 1,3,5,6 - FRCC,SERC,RFC

Group Information

Group Name: Duke Energy

Group Member Name	Entity	Region	Segments
Doug Hils	Duke Energy	RFC	1
Lee Schuster	Duke Energy	FRCC	3
Dale Goodwine	Duke Energy	SERC	5
Greg Cecil	Duke Energy	RFC	6

Voter Information

Voter	Segment
Colby Bellville	1,3,5,6
Entity	Region(s)
Duke Energy	FRCC,SERC,RFC

Selected Answer: Yes

Answer Comment: Duke Energy is supportive of the proposal to combine the Implementation Plans for all of the listed versions of PRC-005. Based on the approaching effective date of PRC-005-3, we encourage that the proposal to combine all Implementation Plans be considered and approved prior to PRC-005-3 effective date.

Document Name:

Likes: 0

Dislikes: 0

Chris Mattson - Tacoma Public Utilities (Tacoma, WA) - 5 -

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Lee Pedowicz - Northeast Power Coordinating Council - 10 - NPCC

Group Information

Group Name: NPCC--Project 2007-17.4 PRC-005 FERC Order No. 803 Directive - PRC-005-6

Group Member Name	Entity	Region	Segments
Alan Adamson	New York State Reliability Council, LLC	NPCC	10
David Burke	Orange and Rockland Utilities Inc.	NPCC	3
Greg Campoli	New York Independent System Operator	NPCC	2
Gerry Dunbar	Northeast Power Coordinating Council	NPCC	10
Mark Kenny	Northeast Utilities	NPCC	1
Helen Lainis	Independent Electricity System Operator	NPCC	2
Rob Vance	New Brunswick Power Corporation	NPCC	9
Paul Malozewski	Hydro One Networks Inc.	NPCC	1
Bruce Metruck	New York Power Authority	NPCC	6
Lee Pedowicz	Northeast Power Coordinating Council	NPCC	10
David Ramkalawan	Ontario Power Generation, Inc.	NPCC	5
Brian Robinson	Utility Services	NPCC	8
Wayne Sipperly	New York Power Authority	NPCC	5
Edward Bedder	Orange and Rockland Utilities Inc.	NPCC	1
Michael Jones	National Grid	NPCC	1
Brian Shanahan	National Grid	NPCC	1
Glen Smith	Entergy Services, Inc.	NPCC	5
RuiDa Shu	Northeast Power Coordinating Council	NPCC	10
Connie Lowe	Dominion Resources Services, Inc.	NPCC	5

Guy Zito	Northeast Power Coordinating Council	NPCC	10
Silvia Parada Mitchell	NextEra Energy, LLC	NPCC	5
Robert Pellegrini	The United Illuminating Company	NPCC	1
Kathleen Goodman	ISO - New England	NPCC	2
Kelly Dash	Consolidated Edison Co. of New York, Inc.	NPCC	1
Michael Forte	Consolidated Edison Co. of New York, Inc.	NPCC	1
Brian O'Boyle	Consolidated Edison Co. of New York, Inc.	NPCC	8
Peter Yost	Consolidated Edison Co. of New York, Inc.	NPCC	3
Sylvain Clermont	Hydro-Quebec TransEnergie	NPCC	1
Si Truc Phan	Hydro-Quebec TransEnergie	NPCC	1

Voter Information

Voter	Segment
Lee Pedowicz	10
Entity	Region(s)
Northeast Power Coordinating Council	NPCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jennifer Losacco - NextEra Energy - Florida Power and Light Co. - 1 - FRCC

Selected Answer: Yes

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Charles Yeung - Southwest Power Pool, Inc. (RTO) - 2 -

Group Information

Group Name: IRC Standards Review Committee

Group Member Name	Entity	Region	Segments
Charles Yeung	SPP	SPP	2
Ben Li	IESO	NPCC	2
Greg Campoli	NYISO	NPCC	2
Mark Holman	PJM	RFC	2
Matt Goldberg	ISONE	NPCC	2
Lori Spence	MISO	MRO	2
Christina Bigelow	ERCOT	TRE	2
Ali Miremadi	CAISO	WECC	2

Voter Information

Voter	Segment
Charles Yeung	2
Entity	Region(s)
Southwest Power Pool, Inc. (RTO)	

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0

Jason Smith - Southwest Power Pool, Inc. (RTO) - 2 - SPP

Group Information

Group Name: SPP Standards Review Group

Group Member Name	Entity	Region	Segments
Shannon Mickens	Southwest Power Pool	SPP	2
Jason Smith	Southwest Power Pool	SPP	2
Karl Diekevers	Nebraska Public Power District	MRO	1,3,5
Allan George	Sunflower Electric Power Corporation	SPP	1
Robert Gray	Board of Public Utilities Kansas City, Kansas	SPP	3
Robert Hirschak	CLECO Corporation	SPP	1,3,5,6
Stephanie Johnson	Westar Energy, Inc.	SPP	1,3,5,6
James Nail	City of Independence, Missouri	SPP	3,5
Scott Williams	City Utilities of Springfield	SPP	1,4

Voter Information

Voter	Segment
Jason Smith	2
Entity	Region(s)
Southwest Power Pool, Inc. (RTO)	SPP

Selected Answer: Yes

Answer Comment:

The proposed implementation plan and request by NERC to align the implementations seem to address prior concerns with the staggered and confusing implementation dates. Thank you for the effort.

Document Name:

Likes: 0

Dislikes: 0

Ben Engelby - ACES Power Marketing - 6 -

Group Information

Group Name: ACES Standards Collaborators - PRC-005 Project

Group Member Name	Entity	Region	Segments
Amber Skillern	East Kentucky Power Cooperative	SERC	1,3
Shari Heino	Brazos Electric Power Cooperative, Inc.	TRE	1,5
Bob Solomon	Hoosier Energy Rural Electric Cooperative, Inc.	RFC	1
Mike Brytowski	Great River Energy	MRO	1,3,5,6
Ellen Watkins	Sunflower Electric Power Corporation	SPP	1
Ryan Strom	Buckeye Power, Inc.	RFC	4
Ginger Mercier	Prairie Power, Inc.	SERC	1,3
Lucia Beal	Southern Maryland Electric Cooperative	RFC	3

Voter Information

Voter	Segment
Ben Engelby	6
Entity	Region(s)
ACES Power Marketing	

Selected Answer: Yes

Answer Comment:

We believe that unless there is an urgent reliability gap, revisions to PRC-005 should be limited to no more than once per year. Frequent modifications to these requirements can have detrimental effects on electric system reliability due to rushed standards development and the possibility of inadequately reviewed relay test plans.

While we agree with the approach in the current implementation plan, we question the process of having multiple versions that have resulted in the conundrum that we face today. Each effective version of PRC-005 should supersede all previous versions and include all current requirements for

clarity. We understand and appreciate that there are varied implementation dates for different requirements, but maintaining multiple versions is cumbersome, burdensome, and creates risk that a requirement is missed. We believe confusion would be alleviated if the NERC Standards Department had a policy of requiring each standard revision have a whole number for the next applicable version. For example, if PRC-005-2 is to be superseded, then PRC-005-2 would be retired and PRC-005-“3” would take precedence. We strongly urge NERC to discontinue the practice of creating sub-sets with standard versions, such as “PRC-005-2(i)”.

Document Name:

Likes: 0

Dislikes: 0

Oshani Pathirane - Oshani Pathirane On Behalf of: Paul Malozewski, Hydro One Networks, Inc., 1, 3
Payam Farahbakhsh, Hydro One Networks, Inc., 1, 3

Selected Answer:

Answer Comment:

Document Name:

Likes: 0

Dislikes: 0