

Date 10/5/2012
 Name of Report FRI Report

1 = present, 0 = absent

Sector	PC Member	Proxy	Member Present	Votes Present	Vote	Vote Total
Chairman	Jeffrey Mitchell		1	1	Abstention	0
Vice Chairman	Ben Crisp			0		0
Investor Owned Utility	David Weaver			0		0
Investor Owned Utility	Kenneth Donohoo			0		0
State/Municipal	Stuart Nelson		1	1	YEA	1
State/Municipal	Brian Keel		1	1	YEA	1
Cooperative	Jay Farrington		1	1	YEA	1
Cooperative	Paul McCurley		1	1	YEA	1
Federal/Provincial	Serge Fortin			0		0
Federal/Provincial	Gayle Nansel		1	1	YEA	1
Federal/Provincial	Bing Young			0		0
Federal/Provincial	Ron Mazur		1	1	YEA	1
Transmission Dependent Utility	Tom Reedy		1	1	YEA	1
Transmission Dependent Utility	Kevin Koloini		1	1	YEA	1
Electricity Marketer	Jason Marshall		1	1	YEA	1
Electricity Marketer	Steven Huber		1	1	YEA	1
Merchant Electricity Generator	Robert Ramekers		1	1	YEA	1
Merchant Electricity Generator	Kris Zadlo		1	1	NO	0
Small End-Use Electricity Customer	Darryl Lawrence			0		0
Small End-Use Electricity Customer	Vacant			0		0
Large End-Use Electricity Customer	Vacant			0		0
Large End-Use Electricity Customer	Vacant			0		0
ISO/RTO	Mark Westendorf		1	1	YEA	1
ISO/RTO	Dan Rochester		1	1	YEA	1
RRO-ERCOT	Blake Williams		1	0.50	YEA	0.50
RRO-FRCC	Pedro Modia			0.00		0.00
RRO-MRO	Dale Burmester			0.00		0.00
RRO-NPCC	Phil Fedora		1	0.50	YEA	0.50
RRO-RFC	Paul Kure		1	0.50	YEA	0.50
RRO-SERC	Clay Young		1	0.50	YEA	0.50
RRO-SPP	Noman Williams			0.00		0.00
RRO-WECC	Branden Sudduth			0.00		0.00
State Government	Vacant			0		0
State Government	Parveen Baig		1	1	YEA	1
			Members Present	Votes Present	Vote Total	

Quorum Reached	Yes	Totals	20	18	16
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Quorum for meeting	16.00
Quorum for vote	12.00

Approved **Yes**

Eric Rollison

From: jeff.mitchell@rfirst.org
Sent: Monday, October 01, 2012 3:10 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Follow Up Flag: Follow up
Flag Status: Flagged

abstain.

Jeff Mitchell
ReliabilityFirst Corp.
(330) 247-3043 - office
(330) 704-8837 - cell

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Eric Rollison

From: YOUNG, HUBERT C III [CYOUNG@scana.com]
Sent: Monday, October 01, 2012 3:35 PM
To: Eric Rollison
Cc: YOUNG, HUBERT C III; Joe Spencer
Subject: NERC-PC FRI Report VOTE

I vote "Yes" on the Frequency Response Initiative Report.
Clay Young (SERC Rep)

SCE&G
Manager of Transmission Planning
803-217-2030

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Eric Rollison

From: Stuart Nelson [Stuart.Nelson@LCRA.ORG]
Sent: Tuesday, October 02, 2012 7:09 AM
To: Michelle Marx; Eric Rollison
Subject: Re: NERC PLANNING COMMITTEE VOTE: Frequency Response Initiative Report: The Reliability Role of Frequency Response

I vote Yes to approve the Frequency Response Initiative.

On Oct 1, 2012, at 12:04 PM, "Michelle Marx" <Michelle.Marx@nerc.net> wrote:

>
> [\[cid:image004.jpg@01CD9FD3.79C06460\]](#)
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>
> Frequency Response Initiative
>
> The Reliability Role of Frequency
> Response
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>
>
> To: NERC Planning Committee
>
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>
> Please vote by October 4, 2012 at 11:59 PM EDT (8:59 PM PDT)
>
> The final DRAFT of the Frequency Response Initiative Report: The Reliability Role of Frequency Response for approval
is available to Planning Committee members via the links below.
> Please submit an e-mail ballot to:
>
> Eric Rollison<<mailto:eric.rollison@nerc.net?subject=NERC-PC%20FRI%20Report%20VOTE>> before 11:59 p.m.EDT on
Wednesday, October 4, 2012* with your vote of:
> "Yes", "No", or "Abstain".
>
> Direct Link to CLEAN Version:
> <http://www.nerc.com/docs/pc/FRI%20Report%209-30-12%20Clean.pdf>
> Direct Link to REDLINE Version:
> <http://www.nerc.com/docs/pc/FRI%20Draft%20Report%209-30-12%20Redline.p>
> df. Based on draft from September 18, 2012 Direct Link to Highlighted
> Changes:
> <http://www.nerc.com/docs/pc/Changes%20associated%20with%20the%20FRI%20>
> Report.pdf Your vote should be one of the following:
> "YES" to approve the Frequency Response Initiative Report: The
> Reliability Role of Frequency Response "NO", which means you are not
> approving the Frequency Response Initiative Report: The Reliability
> Role of Frequency Response Or ABSTAIN Thank you for your continued support.
>

>
> For more information or assistance, please contact Eric Rollison<<mailto:eric.rollison@nerc.net>>.
>
>
>
>
> 3353 Peachtree Road NE
>
> Suite 600, North Tower
>
> Atlanta, GA 30326
>
> 404-446-2560 | www.nerc.com<<http://www.nerc.com>>
>
> [[cid:image006.jpg@01CD9FD3.79C06460](#)]
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> ---
> You are currently subscribed to pc as: stuart.nelson@lcra.org To
> unsubscribe send a blank email to
> leave-1304483-218334.529df2a3dbd0f43a728edc8ef60152ab@listserv.nerc.co
> m
> <image001.jpg>
> <image005.jpg>
> <image004.jpg>
> <image006.jpg>

Eric Rollison

From: paul.kure@rfirst.org
Sent: Tuesday, October 02, 2012 2:42 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Hi Eric:

My vote as PC representative for the RFC RE is

“YES” to approve the Frequency Response Initiative Report:
The Reliability Role of Frequency Response

Paul D. Kure
Principal Engineer
ReliabilityFirst Corporation
330-247-3057 office
330-704-8971 cell
330-456-3648 fax

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Eric Rollison

From: Rochester, Dan [dan.rochester@ieso.ca]
Sent: Tuesday, October 02, 2012 10:27 PM
To: Eric Rollison
Cc: Mark Westendorf
Subject: NERC-PC FRI Report VOTE

Eric, I vote to approve the report.

Dan Rochester, P. Eng. | Manager, Reliability Assessments, IESO | Station A, Box 4474, Toronto, Ontario, M5W 4E5
T: 905.855.6363 (office), 416.574.4018 (mobile) | F: 905.403.6932 | Email: dan.rochester@ieso.ca | Web: www.ieso.ca

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Eric Rollison

From: Keel Brian K [Brian.Keel@srpnet.com]
Sent: Tuesday, October 02, 2012 7:09 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Brian Keel voted YES.

Eric Rollison

From: Tom Reedy [Tom.Reedy@fmpa.com]
Sent: Wednesday, October 03, 2012 9:40 AM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Yes

Tom Reedy
PC Member - TDU

Eric Rollison

From: Mark Westendorf [MWestendorf@misoenergy.org]
Sent: Wednesday, October 03, 2012 10:36 AM
To: Eric Rollison
Cc: Dan Rochester
Subject: NERC-PC FRI Report VOTE

Eric,

I vote yes for approval of the Frequency Response Initiative Report: The Reliability Role of Frequency Response.

Thanks,
Mark Westendorf
Principal Advisor
MISO
317-517-5829

Eric Rollison

From: Jay Farrington [Jay.Farrington@powersouth.com]
Sent: Thursday, October 04, 2012 10:09 AM
To: Eric Rollison
Cc: Jay Farrington
Subject: NERC-PC FRI Report VOTE

APPROVE

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Eric Rollison

From: Nansel, Gayle [Nansel@WAPA.GOV]
Sent: Wednesday, October 03, 2012 4:21 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Yes.

Gayle Nansel
Transmission System Planning Manager
Western Area Power Administration
Upper Great Plains Region
2900 4th Ave North, Room 600
Billings, MT 59101
phone: (406) 255-2830
fax: (406) 255-2900
email: nansel@wapa.gov

Eric Rollison

From: Zadlo, Kris [KZadlo@invenenergyllc.com]
Sent: Thursday, October 04, 2012 10:36 AM
To: Mark Lauby; Eric Rollison
Subject: NERC-PC FRI Report VOTE

I am voting NO for the following reasons

Page 1, Intro: The first paragraph is confusing, implying that renewables are a major source of FR concerns. As NERC has made clear in previous filings

(http://www.nerc.com/files/FinalFile_Comments_Resp_to_Sept_Freq_Resp_Tech_Conf.pdf), the observed decline in frequency response has not been caused by the introduction of renewable resources, but has in fact been overwhelmingly caused by changes in the operation of conventional generators. Suggest removing the first two sentences and the last sentence of the first paragraph. **Note this is my biggest issue with this report.**

-Page 3, Ex Sum: It is unclear whether the recommendations for "Existing generator fleet" are envisioned applying to existing wind and solar resources, or if wind and solar resources are only included in the recommendations for "Other frequency-responsive resources." If wind generators are envisioned being included in the "Existing generator fleet" category, the recommendations for that category would be a source of concern.

Recommendations not featured prominently in report, but should be:

-Discussions at the NERC FR technical conferences focused heavily on the point that a solution to FR needs should be market-based, to take advantage of the fact that different resources have widely different costs for providing frequency response. This should be discussed in the report.

-Discussions at the NERC FR technical conferences also focused on the concern that Energy Imbalance penalties are needlessly discouraging sustained frequency response by imposing penalties on resources that exceed scheduled set-points by providing frequency response, thus encouraging generator owners to set their generator controls so that they do not provide sustained frequency response. This should be discussed in the report.

Regards,

Kris Zadlo, PE
Vice President

Invenergy LLC

One South Wacker Drive; Suite 1900
Chicago, IL 60606
Direct: (312) 582-1532
Fax: (312) 224-1444
Mobile: (312) 848-5308

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Eric Rollison

From: Michelle Marx
Sent: Thursday, October 04, 2012 1:58 PM
To: Eric Rollison
Subject: FW: NERC PLANNING COMMITTEE VOTE REMINDER: Frequency Response Initiative Report: The Reliability Role of Frequency Response

Michelle Marx

Administrative Assistant

North American Electric Reliability Corporation (NERC)

Office: 404-446-9727

Cell: 404-772-7297

michelle.marx@nerc.net

From: Mazur, Ron [<mailto:rwmazur@hydro.mb.ca>]
Sent: Thursday, October 04, 2012 1:57 PM
To: Michelle Marx
Subject: Re: NERC PLANNING COMMITTEE VOTE REMINDER: Frequency Response Initiative Report: The Reliability Role of Frequency Response

Yes

Ron Mazur
Ron W. Mazur, M.Sc.E.E., P.Eng.
Manager
System Planning Department.
Manitoba Hydro

From: Michelle Marx [<mailto:Michelle.Marx@nerc.net>]
Sent: Thursday, October 04, 2012 12:03 PM
To: Michelle Marx <Michelle.Marx@nerc.net>
Subject: NERC PLANNING COMMITTEE VOTE REMINDER: Frequency Response Initiative Report: The Reliability Role of Frequency Response

Frequency Response Initiative *The Reliability Role of Frequency Response*



To: NERC Planning Committee

REMINDER

Please vote by October 4, 2012 at 11:59 PM EDT (8:59 PM PDT)

The final DRAFT of the Frequency Response Initiative Report: *The Reliability Role of Frequency Response* for approval is available to Planning Committee members via the links below. Please submit an e-mail ballot to:

Eric Rollison before 11:59 p.m. EDT on Wednesday, October 4, 2012* with your vote of: “Yes”, “No”, or “Abstain”.

Direct Link to **CLEAN** Version: <http://www.nerc.com/docs/pc/FRI%20Report%209-30-12%20Clean.pdf>

Direct Link to **REDLINE** Version: <http://www.nerc.com/docs/pc/FRI%20Draft%20Report%209-30-12%20Redline.pdf>. Based on draft from September 18, 2012

Direct Link to Highlighted **Changes**:
<http://www.nerc.com/docs/pc/Changes%20associated%20with%20the%20FRI%20Report.pdf>

Your vote should be one of the following:

“YES” to approve the Frequency Response Initiative Report: *The Reliability Role of Frequency Response*

“NO”, which means you are not approving the Frequency Response Initiative Report: *The Reliability Role of Frequency Response*

Or **ABSTAIN**

Thank you for your continued support.

For more information or assistance, please contact [Eric Rollison](#).

3353 Peachtree Road NE

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Atlanta, GA 30326
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Eric Rollison

From: McCurley, Paul [Paul.McCurley@nreca.coop]
Sent: Thursday, October 04, 2012 2:20 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

“Yes” to approve report.

Paul McCurley
NRECA
703-907-5867

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Eric Rollison

From: Kevin Koloini [KKoloini@amppartners.org]
Sent: Thursday, October 04, 2012 2:39 PM
To: Eric Rollison
Subject: FW: NERC PLANNING COMMITTEE VOTE: Frequency Response Initiative Report: The Reliability Role of Frequency Response

YES

From: Michelle Marx [<mailto:Michelle.Marx@nerc.net>]
Sent: Monday, October 01, 2012 12:52 PM
To: Michelle Marx
Subject: NERC PLANNING COMMITTEE VOTE: Frequency Response Initiative Report: The Reliability Role of Frequency Response

Frequency Response Initiative *The Reliability Role of Frequency Response*



To: NERC Planning Committee

Please vote by October 4, 2012 at 11:59 PM EDT (8:59 PM PDT)

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"NO", which means you are not approving the Frequency Response Initiative Report: *The Reliability Role of Frequency Response*

Or **ABSTAIN**

Thank you for your continued support.

For more information or assistance, please contact **Eric Rollison**.

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Eric Rollison

From: Baig, Parveen [IUB] [Parveen.Baig@iub.iowa.gov]
Sent: Thursday, October 04, 2012 2:28 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

I vote yes for the FRI report
Parveen Baig

Eric Rollison

From: Philip A. Fedora [pfedora@npcc.org]
Sent: Thursday, October 04, 2012 4:07 PM
To: Eric Rollison
Cc: John G. Mosier Jr.; Ed Schwerdt; Quoc; Paul A. Roman; jeff.mitchell@rfirst.org; John Moura
Subject: NERC-PC FRI Report VOTE

Importance: High

Hi Eric:

NPCC votes to approve the subject report with the following corrections addressed:

Title Page - has a September 30, 2012 date, but the footer on the first 100 pages (and the Appendices Table of Contents) show August 2012 (assuming that is an error, and not that these pages haven't been updated to September 2012 – please verify – note: the Appendices are all dated September 2012);
Page 24 - missing references for footnotes 26 & 27 (page 24)
Appendices Table of Contents – “Contributor” Bookmark not defined.

Thanks,

Phil

Eric Rollison

From: Ramaekers, Bob [RRamaekers@TENASKA.com]
Sent: Thursday, October 04, 2012 4:34 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Bob Ramaekers from Tenaska votes YES.

Eric Rollison

From: Jason Marshall [jmarshall@acespower.com]
Sent: Thursday, October 04, 2012 4:57 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Eric,

I vote yes but did note a few minor changes that need to be made.

Page 10 – second paragraph under frequency response illustration- the second and third sentences start out identical and say nearly the same thing

Page 11- first partial paragraph – “It is produced by the generator’s spinning inertial mass’ resistance to the slowdown”. This is not really correct. While it is true the spinning mass wants to resist the slow down, it is in fact the slowdown that releases the potential kinetic energy.

Page 19 – third paragraph – “allowing the allowing” needs to be fixed.

Page 30 – bullet 6 - second paragraph – Figure Stat 3 needs fixed.

Page 33 – first full paragraph, first line – should governors appear after operational?

Page 40 – first paragraph under graph – “A major for” should be “A major reason for”

Page 44 – Please consider rewording “Analysis of those data showed the Western Interconnection frequency characteristic to be less volatile than actual experience since the Balancing Authority ACE Limit (BAAL) field trial began there in March of 2010.” It is not clear if this is saying frequency is less volatile or more volatile since the beginning of the field trial.

Page 48 – third paragraph in “Adjustment for Differences between Value B and Point C” – The first sentence after Point C needs some rewording.

Page 50 – second paragraph – since CB_R is a ratio of Hz to Hz, the last sentence does not make sense that 5 mHz was added. The ratio is unitless.

Page 51 – last paragraph – “sever” should be “severe”

Jason

Think before you print

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Eric Rollison

From: Williams, Blake A. [BAWilliams@CPSEnergy.com]
Sent: Thursday, October 04, 2012 6:20 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Eric,

On behalf of Texas RE, I vote: **"YES"** to approve the Frequency Response Initiative Report: *The Reliability Role of Frequency Response*.

Thanks,
Blake Williams, P.E.

Manager
Transmission Planning
CPS Energy
210-353-3557
bawilliams@cpsenergy.com

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Eric Rollison

From: Huber, Steven E. [Steven.Huber@pseg.com]
Sent: Thursday, October 04, 2012 6:33 PM
To: Eric Rollison
Subject: NERC-PC FRI Report VOTE

Frequency Response Initiative Report

Vote – Yes.

Steven Huber
Manager - NERC/CIP Compliance - PSE&G
80 Park Plaza, T2B
Newark, NJ 07102
(973) 430-5860

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