## Planning Advisory Committee Doubletree Hotel, Westborough, MA March 22, 2016

Bruce Anderson New England Power Generator Association Dwayne Basler United Illuminating Company Denis Bergeron Maine Public Utilities Commission Peter Bernard ISO New England Inc. David Beron New England Power Company Curt Beveridge Central Maine Power Company Jon Black ISO New England Inc. Jon Breard ISO New England Inc. Jor Wisson Misson Mis	Eric Abend	Swift River Trading Company
Dewayne Basler United Illuminating Company Denis Bergeron Maine Public Utilities Commission Peter Bernard ISO New England Inc. David Beron New England Power Company Curt Beveridge Central Maine Power Company Jon Black ISO New England Inc. Marcia Blomberg ISO New England Inc. Marcia Blomberg ISO New England Inc. Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Marc Gagne ISO New England Inc. Marc Gagne ISO New England Inc. Marc Harbard Maine Public Utilities Commission Marc Gagne ISO New England Inc. Marc Harbard New England Inc. Marc Harbard New England Inc. Marc Harbard New England Inc. More Harbard New England Inc. M	Bruce Anderson	
Denis Bergeron   Maine Public Utilities Commission	Dwayne Basler	·
Peter Bernard ISO New England Inc. David Beron New England Power Company Curt Beveridge Central Maine Power Company Jon Black ISO New England Inc. Marcia Blomberg ISO New England Inc. Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Ison New England Inc. Stav Dimou Emera Maine Stan Doe ISO New England Inc. Sio New England Inc. Sio New England Inc. Sio New England Inc. Michael Drzewianowski ISO New England Inc. Sio New England Inc. Michael Drzewianowski ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Jon Gentile Quanta Technologies Brian Hayduk New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Almeride ISO New England Inc. John Moskal US EPA Margaret Neves Power Company John Moskal John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc	Denis Bergeron	Maine Public Utilities Commission
David Beron New England Power Company Curt Beveridge Central Maine Power Company Jon Black ISO New England Inc. Marcia Blomberg ISO New England Inc. Jon Breard ISO New England Inc. Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stary Dimou Emera Maine Star Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Mare Gagne ISO New England Inc. Maine Public Utilities Commission Marc Gagne ISO New England Inc. Marc Gagne ISO New England Inc. Michael Drzewianowski ISO New England Inc. Michael Drzewianowski ISO New England Inc. Michael Drzewianowski ISO New England Inc. Michael Michael ISO New England Inc. Michael Michael ISO New England Inc. Michael IS	-	
Curt Beveridge   Central Maine Power Company   Jon Black   ISO New England Inc.   Jon Breard   ISO New	David Beron	
Jon Black Marcia Blomberg ISO New England Inc. Marcia Blomberg ISO New England Inc. Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Sturesh Dave Transmission Developers Inc. Stary Dimou Emera Maine ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables ISO New England Inc. Marc Lyons ISO New England Inc. Marc Lyons ISO New England Inc.  Marc Lyons ISO New En		-
Marcia Blomberg ISO New England Inc. Jon Breard ISO New England Inc. Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Paul Dumais Central Maine Power Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Steve Mich Boreas Renewables Robin Lafayette ISO New England Inc. Don Gates ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Bill Killgoar LIPA Steve Malone United Illuminating Company All McBride ISO New England Inc. Don Marchyons ISO New England Inc. Don Marchyons ISO New England Inc. Marchyons ISO New England Inc. Don Marchyons ISO New En		
Jon Breard		
Dorothy Capra NESCOE Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Paul Dumais Central Maine Power Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Jilf Game Sun Edison Jilf Game Sun Edison Jilf Game Sun Edison Jilf Game Sun Edison John Lafayette ISO New England Inc. John Keene Sun Edison LiPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Li Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Frent Oberlin ISO New England Inc. Son New Engla	-	
Dave Cavanaugh NRG Power Marketing Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Michael Maine Public Utilities Commany Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Marc Gagne ISO New England Inc. Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Martin New England I	,	
Dave Conroy Central Maine Power Company Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  John Keeric Schoel Sch		
Ray Coxe Mosaic Energy Insights Greg Cunningham Conservation Law Foundation Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Ouanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Tim Martin New England Inc. Tim Martin New England Inc. Drited Illuminating Company All McBride ISO New England Inc. Drited Illuminating Company John Marsachusetts Department of Public Utilities CMEC Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Massachusetts Department of Public Utilities Fred Plett Massachusetts Denard Office		
Greg Cunningham Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc.	·	
Suresh Dave Transmission Developers Inc. Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Jiso New England Inc. Jiso New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Jiso New England Inc. Marc Lyons ISO New England Inc. Marc Lyons ISO New England Inc.  Marc Lyons ISO New England Inc.  Marc Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Fined Plett Massachusetts Attorney General Office		
Stacy Dimou Emera Maine Stan Doe ISO New England Inc. Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Ween England Inc. John Ween England Inc. John Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. John Kene ISO New England Inc. Marc Lyons ISO New England Inc. John Ween England Inc. Marc Lyons ISO New England Inc.  Marc Lyons ISO New England Inc.  Marc Horis Malone United Illuminating Company  Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Bill Opalka RTO Insider Fred Plett Massachusetts Attorney General Office		
Stan Doe   ISO New England Inc.		
Michael Drzewianowski ISO New England Inc. Paul Dumais Central Maine Power Company Dave Ehrlich ISO New England Inc. Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Marc Lyons ISO New England Inc. Marchyons United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Newes Power England Inc. Bill Opalka RTO Insider Fred Plett Massachusetts Attorney General Office		
Paul Dumais         Central Maine Power Company           Dave Ehrlich         ISO New England Inc.           Frank Ettori         Vermont Electric Company           Jeff Fenn         Emera Maine           Lisa Fink         Maine Public Utilities Commission           Bill Fowler         Exelon           Marc Gagne         ISO New England Inc.           Steve Garwood         New Hampshire Transmission           Don Gates         ISO New England Inc.           Tom Gentile         Quanta Technologies           Brian Hayduk         New England Power Company           Bruce Ho         NRDC           Jeff Jurgensmier         ISO New England Inc.           John Keene         Sun Edison           Bill Killgoar         LIPA           Steve Kirk         Exelon           Rich Kleiman         EDF           Abby Krich         Boreas Renewables           Robin Lafayette         ISO New England Inc.           Tim Martin         New England Power Company           Chris Malone         United Illuminating Company           Al McBride         ISO New England Inc.           Bruce McKinnon         CMEEC           Ed McNamara         Vermont Public Utilities Commission           Mary M		
Dave Ehrlich Frank Ettori Vermont Electric Company Jeff Fenn Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. JSO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bruce Ordination ISO New England Inc. Bruce Ordination ISO New England Inc. Brent Oberlin ISO New England Inc.		
Frank Ettori Vermont Electric Company Jeff Fenn Emera Maine Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Jiso New England Inc. Tim Martin New England Inc. Tohited Illuminating Company Al McBride ISO New England Inc. The McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Jeff Fenn Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Bruce Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		-
Lisa Fink Maine Public Utilities Commission Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc.  John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company AI McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Fred Plett Massachusetts Attorney General Office		
Bill Fowler Exelon Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	•	
Marc Gagne ISO New England Inc. Steve Garwood New Hampshire Transmission Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC Jeff Jurgensmier ISO New England Inc. John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise Fred Plett Massachusetts Attorney General Office		
Steve Garwood New Hampshire Transmission  Don Gates ISO New England Inc.  Tom Gentile Quanta Technologies  Brian Hayduk New England Power Company  Bruce Ho NRDC  Jeff Jurgensmier ISO New England Inc.  John Keene Sun Edison  Bill Killgoar LIPA  Steve Kirk Exelon  Rich Kleiman EDF  Abby Krich Boreas Renewables  Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc.  Tim Martin New England Power Company  Chris Malone United Illuminating Company  Al McBride ISO New England Inc.  Bruce McKinnon CMEEC  Ed McNamara Vermont Public Utilities Commission  Mary Menino Massachusetts Department of Public Utilities  Chris Morin Central Maine Power Company  John Moskal US EPA  Margaret Neves Power England Inc.  Bill Opalka RTO Insider  Theodore Paradise ISO New England Inc.  Paul Peterson Synapse Energy Economics  Fred Plett Massachusetts Attorney General Office		
Don Gates ISO New England Inc. Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC  Jeff Jurgensmier ISO New England Inc.  John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF  Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc.  Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bruce McGlein ISO New England Inc. Brent Oberlin ISO New England Inc.  RTO Insider Theodore Paradise ISO New England Inc.  Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Tom Gentile Quanta Technologies Brian Hayduk New England Power Company Bruce Ho NRDC  Jeff Jurgensmier ISO New England Inc.  John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bruce McClinin ISO New England Inc. Bred Oberlin ISO New England Inc. Brent Oberlin ISO New England Inc. Some England Inc. Bred Power Company John Moskal US EPA Margaret Neves Power England Inc. Brill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Brian Hayduk Bruce Ho NRDC  Jeff Jurgensmier John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc.  John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc.  Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Bruce Ho NRDC  Jeff Jurgensmier ISO New England Inc.  John Keene Sun Edison  Bill Killgoar LIPA  Steve Kirk Exelon  Rich Kleiman EDF  Abby Krich Boreas Renewables  Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc.  Tim Martin New England Power Company  Chris Malone United Illuminating Company  Al McBride ISO New England Inc.  Bruce McKinnon CMEEC  Ed McNamara Vermont Public Utilities Commission  Mary Menino Massachusetts Department of Public Utilities  Chris Morin Central Maine Power Company  John Moskal US EPA  Margaret Neves Power Engineers  Brent Oberlin ISO New England Inc.  Brill Opalka RTO Insider  Theodore Paradise ISO New England Inc.  Synapse Energy Economics  Fred Plett Massachusetts Attorney General Office		
John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	•	
John Keene Sun Edison Bill Killgoar LIPA Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Bill Killgoar Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Steve Kirk Exelon Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	•	
Rich Kleiman EDF Abby Krich Boreas Renewables Robin Lafayette ISO New England Inc. Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Abby Krich  Robin Lafayette  ISO New England Inc.  Marc Lyons  ISO New England Inc.  Tim Martin  New England Power Company  Chris Malone  United Illuminating Company  Al McBride  ISO New England Inc.  Bruce McKinnon  CMEEC  Ed McNamara  Vermont Public Utilities Commission  Mary Menino  Massachusetts Department of Public Utilities  Chris Morin  Central Maine Power Company  John Moskal  US EPA  Margaret Neves  Power Engineers  Brent Oberlin  ISO New England Inc.  Bill Opalka  Theodore Paradise  ISO New England Inc.  Synapse Energy Economics  Fred Plett  Massachusetts Attorney General Office		
Robin Lafayette ISO New England Inc.  Marc Lyons ISO New England Inc.  Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc.  Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Marc Lyons ISO New England Inc. Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		
Tim Martin New England Power Company Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	•	
Chris Malone United Illuminating Company Al McBride ISO New England Inc. Bruce McKinnon CMEEC Ed McNamara Vermont Public Utilities Commission Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	-	
Al McBride ISO New England Inc.  Bruce McKinnon CMEEC  Ed McNamara Vermont Public Utilities Commission  Mary Menino Massachusetts Department of Public Utilities  Chris Morin Central Maine Power Company  John Moskal US EPA  Margaret Neves Power Engineers  Brent Oberlin ISO New England Inc.  Bill Opalka RTO Insider  Theodore Paradise ISO New England Inc.  Paul Peterson Synapse Energy Economics  Fred Plett Massachusetts Attorney General Office		
Bruce McKinnon CMEEC  Ed McNamara Vermont Public Utilities Commission  Mary Menino Massachusetts Department of Public Utilities  Chris Morin Central Maine Power Company  John Moskal US EPA  Margaret Neves Power Engineers  Brent Oberlin ISO New England Inc.  Bill Opalka RTO Insider  Theodore Paradise ISO New England Inc.  Paul Peterson Synapse Energy Economics  Fred Plett Massachusetts Attorney General Office		
Ed McNamara  Vermont Public Utilities Commission  Mary Menino  Chris Morin  Central Maine Power Company  John Moskal  US EPA  Margaret Neves  Power Engineers  Brent Oberlin  ISO New England Inc.  Bill Opalka  Theodore Paradise  Paul Peterson  Fred Plett  Massachusetts Attorney General Office	Al McBride	ISO New England Inc.
Mary Menino Massachusetts Department of Public Utilities Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	Bruce McKinnon	
Chris Morin Central Maine Power Company John Moskal US EPA Margaret Neves Power Engineers Brent Oberlin ISO New England Inc. Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	Ed McNamara	Vermont Public Utilities Commission
John MoskalUS EPAMargaret NevesPower EngineersBrent OberlinISO New England Inc.Bill OpalkaRTO InsiderTheodore ParadiseISO New England Inc.Paul PetersonSynapse Energy EconomicsFred PlettMassachusetts Attorney General Office	Mary Menino	
Margaret Neves Power Engineers  Brent Oberlin ISO New England Inc.  Bill Opalka RTO Insider  Theodore Paradise ISO New England Inc.  Paul Peterson Synapse Energy Economics  Fred Plett Massachusetts Attorney General Office	Chris Morin	
Brent Oberlin ISO New England Inc.  Bill Opalka RTO Insider Theodore Paradise ISO New England Inc.  Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	John Moskal	
Bill Opalka RTO Insider Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office		Power Engineers
Theodore Paradise ISO New England Inc. Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	Brent Oberlin	ISO New England Inc.
Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	Bill Opalka	RTO Insider
Paul Peterson Synapse Energy Economics Fred Plett Massachusetts Attorney General Office	Theodore Paradise	ISO New England Inc.
Fred Plett Massachusetts Attorney General Office	Paul Peterson	-
·	Fred Plett	
	Chris Root	

Alex Rost	ISO New England Inc.
Jose Rotger	Cross Sound Cable Company
Eric Runge	Day Pitney
Lou Sahlu	Massachusetts DOER
Dan Schwarting	ISO New England Inc.
Melissa Scott	New England Power Company
Jose Sebastio	Vermont Electric Power Company
Carissa Sedlacek	ISO New England Inc.
Patricio Silva	ISO New England Inc.
Kannan Sreenivaschar	ISO New England Inc.
Joe Staszowski	Eversource Energy
Larry Swartz	Covanta Energy
Eric Winkler	ISO New England Inc.
Jinlin Zhang	ISO New England Inc.

#### Item 1 – Chair's Remarks

Mr. Don Gates welcomed the committee and reviewed the day's agenda.

#### <u>Item 2 – FCA 11 Zonal Boundary Determinations</u>

Mr. Dan Schwarting (ISO) provided an overview of the FCA 11 Zonal Boundary Determinations – Northern New England/Scobie 394 Transfer Limits.

- *Q Is the Scobie 394 interface new or is it renamed.*
- A This interface has always been there. It may not bind on a day to day basis but it is something we look at.
- *Q What is the present margin limit?*
- A 3100MWs
- Q If the Everett substation was upgraded to BPS, what would the new limits be?
- A Our testing shows roughly 3500MWs.
- *Q* Would line upgrades at Seabrook impact the transfer limits?
- A Not in a significant manner.

Mr. Al McBride (ISO) provided an overview of the FCA 11 Zonal Boundary Determination.

- Q You mentioned that there were no significant changes to the topology that would cause a change to the zonal boundaries. What would cause a change to the Zonal boundaries?
- $A-\bar{S}$ omething like significant resource retirements, new transmission projects like Interstate or transmission upgrades due to resource retirement.
- Q Do you see anything in the RSP project list that could cause a Zonal Boundary change?
- A There is nothing we see at this time that could cause a Zonal Boundary revision.
- *Q Why hasn't the new generation in CT improved the transfer limits?*
- A It related to the generation location. They are located in the interior of the boundary versus nearer the zonal boundary. The closer to the boundary, the more impact it has.

Comment – I request further discussion and review of the 1400 MW Import Limit on Phase II as the system has changed and often Phase II flows exceed 1400 MWs and the import capability should be accounted for.

## <u>Item 3 – VELCO Structure Condition Improvement</u>

Mr. Jose Sebastiao (VELCO) provided an overview of the VELCO Structure Condition Improvement Project.

- Q Will you replace the wood polls in kind or swap out to steel or concrete?
- A For the taller polls we are looking at steel replacements.
- Q Can the replacement be done while the circuits are live?
- A About 80% of the poll replacements can be done while the circuits are live.
- Q Are you replacing all your polls?
- A-No, it was a targeted evaluation based on a set criteria. We are only replacing the polls that are in really bad shape and perhaps other nearby polls that are close to being needed replacement.

Comment – There was discussion on TO's poll replacement program and the need for submission of TCAs if the program and/or replacements exceeds \$5M.

## <u>Item 4 – Regional System Plan Transmission Projects and Asset Conditions – March 2016</u> <u>Update</u>

Mr. Brent Oberlin (ISO) provided an overview of the Regional System Plan Transmission Projects and Asset Conditions – March 2016 Update.

Mr. Oberlin requested feedback to limit the historical status to 8 years to facilitate automation as the addition of status columns prohibits automation.

It was requested that a separate historical status sheet be maintained.

# <u>Item 5 – Draft New England Energy Efficiency, Photovoltaic, and Load Forecast Update</u>

Mr. Dave Ehrlich (ISO) provided an overview of the Draft New England Energy Efficiency, Photovoltaic, and Load Forecast Update.

- Q How much did the PV account for the Weather Normalized Energy reduction of -1.1%?
- A Not much.
- O How are the Settlement Only Generator handled?
- A It is factored into the reconstituted generation data.

Mr. Eric Winkler (ISO) provided an overview of the Draft Energy Efficiency Forecast.

- Q Have you performed an analysis of past EE Forecast data to see how it compares with this year's forecast?
- A We have made that comparison analysis but I don't have the exact values to quote. I believe the forecast error is 10% or less between years.

Mr. Jon Black (ISO) provided an overview of the Draft 2016 PV Forecast.

- *Q* Can we get something that shows the specific reasons that what caused some of the changes to the PV values increasing the penetration by 30%?
- A This presentation was meant to be an update to the PAC. Generally, it is due to changes in state policies that provide incentives on the retail side. The specific details are reviewed and discussed at the DGFWG and can be found in those meeting materials.

Other clarifying questions were asked and responded to by Mr. Black.

Mr. Ehrlich provided an overview of the 2016 Energy and Summer Peak Load Forecast.

### <u>Item 6 – Transmission Planning Process Guide - Solution Development</u>

Mr. Brent Oberlin (ISO) provided an overview of the Transmission Planning Process Guide - Solution Development.

- *Q Will ISO be publishing QTPS applications?*
- A We will not as there is customer sensitive and proprietary information within them.
- *Q What is the processing time for QTPS applications?*
- A 90 days
- *Q What will individuals or companies will be in the study group?*
- A The TO's with load obligation in the area.
- Q Is there an area in this process where the TO's provide a backup plan?
- A There is a call out provision for that step.
- Q What is the timing for submission of responses to RFP's?
- A- There is a minimum of 60 days but for very large project (ex. Greater Boston), the process could take up to a year.
- *Q* When the solution proposals are submitted, do they need to address every issue or could it be targeted pieces of the problem?
- A The solution proposal will need to address and solves every issue within the RFP proposal.
- Q If two project proposals solve the needs in the RFP, will one or both of the project sponsors receive reimbursement for their Phase I study work?
- A We will take that back for discussion.

Comment – NHT stated they do not agree with process that ISO is proposing and believes it violates the intent of FERC Order 1000.

#### Item 7 – SEMA/RI 2026 Needs Assessment

Mr. Kannan Sreenivasachar (ISO) provided an overview of the SEMA/RI 2026 Needs Assessment.

- *Q Do the results in the presentation include FCA 10 results and the Pilgrim retirement?*
- A That is correct. They do
- Q Will the Brayton Point retirement transmission improvements be included in this review?
- A They are and we will revise the presentation to list them.
- Q What were the assumptions for area fast start resources?
- A 80% availability
- Q Can you get these solutions done prior to the next auction?
- A We will do our best.

Planning Advisory Committee meeting adjourned at 4:55 PM

Respectively submitted

Marc Lyons Secretary, Planning Advisory Committee