# NYISO Business Issues Committee Meeting Minutes March 13, 2019 10:00 a.m. – 10:40 a.m.

### 1. Introductions, Meeting Objectives, and Chairman's Report

Mr. Aaron Breidenbaugh (Consumer Power Advocates) called the meeting to order at 10:00 a.m. by welcoming the members of the BIC. The members of the BIC identified themselves and attendance was recorded. A quorum was determined.

#### 2. Market Operations Report and Broader Regional Markets Report

Dr. Nicole Bouchez (NYISO) reviewed the Market Operations report posted with the meeting material. There were no questions or comments regarding the Market Operations report.

Dr. Bouchez reviewed the Broader Regional Markets report included with the meeting material. There were no questions or comments regarding the Broader Regional Markets report.

#### 3. Fixed Price TCC Credit Enhancements Update

Ms. Sheri Prevratil (NYISO) reviewed the presentation included with the meeting material.

Ms. Doreen Saia (Greenberg Traurig) stated that not seeking approval at the BIC in this instance prior to seeking approval at the Management Committee (MC) appears acceptable given that the incremental revisions are merely clarifying in nature, but noted that this is an exception to the general practice of seeking approval at both BIC and MC.

#### 4. ICAP Manual Revisions for External-to-Rest of State Deliverable Rights

Mr. Ryan Patterson (NYISO) reviewed the presentation included with the meeting material.

Mr. Jim D'Andrea (Helix Ravenswood) sought confirmation that the proposed manual revisions are in accordance with the tariff. Mr. Patterson confirmed that the proposed manual changes are in accordance with the tariff requirements related to External-to-ROS Deliverable Rights.

#### Motion #1:

The Business Issues Committee ("BIC") hereby approves the revisions to the Installed Capacity Manual as described in the presentation to the BIC on March 13<sup>th</sup>, 2019.

Motion passed unanimously with abstentions.

#### 5. Establishing Zone J Operating Reserves

Ms. Ashley Ferrer (NYISO) reviewed the presentation included with the meeting material.

Mr. Mark Younger (Hudson Energy Economics) asked for clarification that, during a Load Zone J activation of SCR/EDRP, the scarcity pricing rules would apply a \$500 per MWh reserve demand curve price to the additional scarcity reserve requirement established during the activation. Mr. Garrett Bissell (NYISO) confirmed that the proposed tariff revisions included as part of the proposal apply the scarcity pricing rules to the proposed NYC reserve region and would result in a \$500/MWh price being applied to any scarcity reserve requirement established during an activation of SCR/EDRP in NYC.

Mr. Younger requested that if circumstances arise where the proposed \$25 per MWh reserve demand curve price result in the need for out-of-market action to meet the proposed NYC reserve requirements that either the NYISO or the Market Monitoring Unit report on such circumstances to assist with assessing whether the proposed reserve demand curve value remains appropriate.

# Motion #2:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to the Market Administration and Control Area Services Tariff and the Open Access Transmission Tariff as more fully described in the presentation entitled "Establishing Zone J Operating Reserves" made to the BIC on March 13, 2019.

Motion passed unanimously.

# 6. Working Group Updates

- <u>Billing and Accounting and Credit Working Group</u>: The group met on February 22, 2019 and reviewed the standard accounting/settlement reports.
- <u>Electric System Planning Working Group</u>: The group has not met since the last BIC meeting.
- Installed Capacity Working Group: The group has met jointly with MIWG and/or PRLWG four times since the last BIC • meeting. The group met on February 15, 2019 and reviewed a presentation by Astrape Consulting regarding results from its alternative analysis undertaken for New York Battery and Energy Storage Technology Consortium (NY BEST) assessing the capacity value of resources with energy limitations, the proposed rules for applying the buyer-side mitigation rules to distributed energy resources (DER) participating in the capacity market, and a proposal for revising capacity payment and qualification structures to address duration-limited resources including capacity market participation rules for DER. On February 25, 2019, the group met and reviewed a presentation by Potomac Economics regarding its assessment of the capacity value of duration-limited resources, and a presentation by The Analysis Group providing an overview of its proposed study approach for assessing fuel and energy security. The group met on March 4, 2019 and reviewed a proposal to add a competitive entry exemption to the buyer-side mitigation rules for additional Capacity Resource Interconnection Service requests, proposed tariff revisions related to applying the buyer-side mitigation rules to DER participating in the capacity market, and an initial overview of the 2019-2020 ICAP Demand Curve reset process. The group also met on March 7, 2019 and reviewed a proposal for revising capacity payment and qualification structures to address duration-limited resources including capacity market participation rules for DER, and a proposal for revising the availability calculation methodologies for capacity supply resources.
- Load Forecasting Task Force: The group has not met since the last BIC meeting.
- <u>Market Issues Working Group</u>: The group has met jointly with ICAPWG and/or PRLWG five times since the last BIC meeting. On February 15, 2019, the group met and reviewed the market design concept proposal for enhancements to the current transmission constraint pricing logic, and proposed rules related to the participation of DER in the wholesale energy and ancillary services markets. The group met on February 20, 2019 and reviewed proposed enhancements to the methodology for calculating the Monthly Net Benefit Offer Floor value for demand response resources participating in the wholesale energy and ancillary services markets, and a presentation regarding the operation of New York wind and solar resources during 2018. The group met on February 25, 2019 and reviewed a presentation by The Analysis Group providing an overview of its proposed study approach for assessing fuel and energy security. On February 28, 2019, the group met and reviewed proposed rules for the dual participation of DER that is participating in wholesale energy and ancillary services markets, and proposed tariff revisions related to the carbon pricing initiative. The group also met on March 4, 2019 and reviewed a proposal for implementing a New York City reserve region and associated reserve requirements.
- <u>Price Responsive Load Working Group</u>: The group has met five times since the last BIC meeting. The group met jointly with MIWG and/or ICAPWG on February 15, 2019, February 20, 2019, February 28, 2019, March 4, 2019, and March 7, 2019 and reviewed the agenda topics related to DER and/or the demand response programs for each meeting.

# 7. New Business

There was no new business.

The meeting adjourned at 10:40 a.m.

# Business Issues Committee Meeting March 13, 2019 Final Motions

<u>Motion #1:</u>

The Business Issues Committee ("BIC") hereby approves the revisions to the Installed Capacity Manual as described in the presentation to the BIC on March 13<sup>th</sup>, 2019.

Motion passed unanimously with abstentions.

<u>Motion #2</u>:

The Business Issues Committee ("BIC") hereby recommends that the Management Committee approve revisions to the Market Administration and Control Area Services Tariff and the Open Access Transmission Tariff as more fully described in the presentation entitled "Establishing Zone J Operating Reserves" made to the BIC on March 13, 2019.

Motion passed unanimously.

# New York Independent System Operator - Committee Membership

# Business Issues Committee - March 13, 2019 - NYISO - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
toria Energy LLC	Generation Owners	McCall, Chuck	Browne, Scott	Habib , Phillipe	Singer, Leonard					Schwall, Matt	
yonne Energy Center, LLC	Generation Owners		🗸 Caplan , Stu			1					
PV Valley LLC	Generation Owners	Litchfield, Matt	Rumsey, Tom	Pierpont, Daniel						Schwall, Matt	
pine	Generation Owners	Kruse, Brett	Reitmeyer, Jay	Flumerfelt, John	Schleimer, Steve					Schwall, Matt	
				Flumenen, John	Schlenner, Steve					Schwan, Matt	
vanta Niagara, LP cket Valley Energy Center	Generation Owners Generation Owners	Burke , David Davis , Charles	Abbott , Sharon Wallenstein , Arnold	Paryl, Ron							
	Generation Owners	Reid, William		Paryi, Kon							
nskammer Energy, LLC P Renewables North America LLC	Generation Owners	Brodbeck, John	Cada, Eric Konlon, Soth	Incollo Kallon	Loturco, Thomas	Llich Lanomy	Driaman Dustin				
st Coast Power, LLC	Generation Owners	Shanker, Roy	Kaplan , Seth Fogarty , Thomas	Ingalls , Kellen McEachern , Ben	Franzetti, Paul	High , Jeremy	Priemer, Dustin				
pire Generating Co, LLC	Generation Owners	Nuss , Kurt	Argetsinger , Andrew	Willson, Darrell	Swenson, Nils						
ergy Nuclear Northeast	Generation Owners		Saia, Doreen		Swelison, Iviis						
				Bergeron , John							
lix Ravenswood LLC	Generation Owners	D'Andrea, James	Kline, Marc	DiBari , Dominic							
ward Wind LLC	Generation Owners	Merich , Olivia	Rugh , Chris								
eck Energy Services, Inc.	Generation Owners		Vounger, Mark								
ovative Energy Systems	Generation Owners	Zeliff, Peter	Henningham, Scott								
energy Energy Management LLC	Generation Owners	Pakula, Maggie	Goldstein, Michael	Orzel, Chris							
ional Grid Generation LLC	Generation Owners	Kain, Terrence	McCabe, Brian								
kirk Cogen Partners, LP	Generation Owners	Biittig, Timothy	Ryan, James								
merset Operating Company, LLC	Generation Owners	Gregson, Brian	Goodenough , Jeery	Love, Jordan							
Energy LLC	Other Suppliers	Ni, Bing	Lee, George	1							
Energy Company	Other Suppliers	Chintapalli , Raj	Magruder, Kathy	🗸 Ackerman, Alan							
bUrja Power, LLC	Other Suppliers	Shah , Kinjal	Patel, Ankeet	Eamani, Arun							
ueRock Energy, Inc.	Other Suppliers	VanHorne, Phil	Campese, Bobby	Quill, Megan	Klaben, Jason						
ookfield Energy Marketing L.P.	Other Suppliers	LaRoe , Chris	Talamo, Marco	Dallaire, Eric	Lund, Roxana						
ower	Other Suppliers	Dotson-Westphalen, Peter	Hourihan, Michael	Damaskos, Deno	Campbell, Bruce						
stleton Commodities Merchant Trading L.P.	Other Suppliers	Stuss , Gordon	Romine, Brad	Emmett, Robert							
igroup Energy Inc.	Other Suppliers	Trayers, Barry									
en Edison Solutions Inc.	Other Suppliers	🗸 Mah, Norman	Dannels, Jeff								
nstellation New Energy	Other Suppliers	Barlette, Richard	Kirk, Steven								
oss Sound Cable Company, LLC	Other Suppliers	Reinhart, Brian	Rotger, Jose								
Energy	Other Suppliers	Bleiweis, Bruce	Stevens, Andrew	Tate, Matthew	Milberg, Sadao	Jeev , Kumar					
Έ Energy	Other Suppliers	Pakela, Gregory	Wieszczyk, Raymond	German , Robert							
ect Energy Business Marketing, LLC	Other Suppliers	Galarneau, Kenneth	Philips, Marjorie								
ift Marketplace, Inc.	Other Suppliers	Tilley , Alan	Robinson, Greg								
negy Marketing and Trade	Other Suppliers	Frazier, Amanda	Allen, Sean								
IEL X	Other Suppliers	Geller, Greg	Chibani, Yanis								
GIE Energy Marketing NA, Inc.	Other Suppliers	Levine, Jeffrey	Hawkins , Darin	Campbell, Chad							
stern Generation	Other Suppliers	Baker, Liam	Reese, John	Vounger, Mark	Schwall , Matthew	Johnson, David	Wolcott, Tyler				
ergy Spectrum	Other Suppliers	David, Gary	Ahrens, David	Neiburg, David	Iskowitz, Aron	Brown, Ruben	Pentland, William	Villegas, Cristina	Cinadr , Matt		
ergy Technology Savings Inc. d/b/a Logical	Other Suppliers					,	,				
ildings		Hendler , Jeff	Ross, Valerie								
elon Generating Co. LLC	Other Suppliers	Barlette, Richard	Kirk, Steven								
t Power	Other Suppliers	Fernands, Rochelle	🗸 Ackerman, Alan								
Energy Services US	Other Suppliers	VPlante, Matthieu	🗸 Leuthauser, Scott	Guilbault, Louis	Bélanger, Frédéric						
oventive Power	Other Suppliers	Gruber, Craig	Halford, Steve								
onsdale Biomass, LLC	Other Suppliers	Ralston, William	Hebel, Nathan	Carrigan, Kathleen							
rcuria Energy America, Inc.	Other Suppliers		Vounger, Mark	Frye, Samuel		1					
rgan Stanley Capital Group, Inc.	Other Suppliers	Kochonies, Karen	Meditz, Alex	Grimes , Jordan							
G Power Marketing Inc.	Other Suppliers	Fitch , Neal	Hsia, Jennifer	Cona, Lisa	Kranz, Bradley	1					
v York Transco	Other Suppliers	Mullin, Victor	Hitti , Nabil	Caso, Rob	Carrigan, Kathleen	McKinney , Jeff					
tEra Energy	Other Suppliers	Applebaum, David	Gardner, Michelle	✓ Gibelli , Stephen							
ario Power Generation, Inc.	Other Suppliers	Gell, Richard	Smaller, mentile	. Steenin, Stephen							
										1	
EG Energy Resource & Trade, LLC	Other Suppliers	Fromer, Howard	DePillo, Raymond	Cimino , David	Murawski , James					Schwall, Matt	
verbay Corporation	Other Suppliers	Merola, Peter	Ellison, Noel								
SCO Enterprises, LLC	Other Suppliers	Schubiger, Michael	Thoresen, James								
ell Energy North America, LLC	Other Suppliers	Picardi, Matt									
phentown Spindle, LLC	Other Suppliers	Streeter, Christopher									
len Energy	Other Suppliers	Toomey, Megan	Hohenshilt, Jennifer	Labella, Julie	Raggio , Debra						
ridity Energy, Inc.	Other Suppliers	Freifeld, Allen				1			1		

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6
Vitol Inc.	Other Suppliers	Wadsworth , Joe	Viola , Bob	Kahn, Casey				
XO Energy NY, LP	Other Suppliers	Drangula , Carey	Thompson, Matthew	Hughes, Adam				
Central Hudson Gas & Electric Corp.	Transmission Owners	Borchert, John	🗸 Chan, Ting	May , Jeff	Dittmann, David			
Consolidated Edison Co. of NY, Inc.	Transmission Owners	🗸 Quin , Jane	Nachmias, Stuart	Butler, Scott	✓ Hargett, Chris	Butterklee, Neil		
National Grid	Transmission Owners	🖌 Janzen , Margaret	Lodemore, David	Wilkie, Brian				
New York State Electric & Gas (NYSEG)	Transmission Owners	🗸 Caletka, Patricia	Lynch , Tim	Brophy , Richard				
Orange & Rockland Utilities, Inc.	Transmission Owners							
Rochester Gas and Electric Corp.	Transmission Owners	🗸 Caletka, Patricia	Lynch , Tim	Brophy , Richard				
Alcoa, Inc.	Large Consumer	🗸 Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin			
IBM Corporation	Large Consumer	Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin			
Nucor Steel Auburn, Inc.	Large Consumer	Brew, James	Mackaronis, Chris					
Occidental Chemical Corp.	Large Consumer	🗸 Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin			
Wegmans Food Markets	Large Consumer	🗸 Mager, Michael	Loughney, Robert	Trinsey, Amanda	Lang, Kevin			
Metropolitan Transportation Authority	Large Consumer Government Agency	Keller, David	Chou, Frances					
American Sugar Refining, Inc	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
Association for Energy Affordability	Small Consumer	Strauss, Valerie	Hepinstall, David	Farmer, Miles				
Beth Israel Health Care System	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
Fordham University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
Memorial Sloan Kettering Cancer Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
Mount Sinai Medical Center	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
New York University	Small Consumer	Luthin, Catherine	Breidenbaugh , Aaron	Lang, Kevin	Mager, Michael	Trinsey, Amanda		
Utility Intervention Unit, Division of Consumer Protection, NY Dept. of State	Government Statewide Consumer Advocate	Hogan , Erin	Montalvo , Marc	Loiacono, Matthew	O'Hare , Katie			
City of New York	Government Small Consumer and Retail Aggregate	Lang, Kevin	✓ Mager, Michael	Trinsey , Amanda				
NYS Energy Research & Dev. Authority	Government Small Consumer and Retail Aggregate	✓ Hall , Christopher	Matteson , Schuyler	Osso Jr., Joe	Mas , Carl	Coup, David		
Long Island Power Authority	State Power Authorities	Clarke, Dave	Wilczek , Mariann					
New York Power Authority	State Power Authorities	Antinori, Andrew	Cordi , John	🗸 Kane , James	Mahoney , Daniel			
Bath Electric, Gas & Water Systems	Municipalities and Coops	Bonacci, Erin	Wentlent, Chris	Cordeiro, Mark				
Freeport Electric	Municipalities and Coops	Livingston, Al	Rudebusch, Tom	Fiore, Chris				
Jamestown Board of Public Utilities	Municipalities and Coops	Sellstrom, Kris	Leathers, David	Allen, Cory	Rudebusch, Tom			
Lake Placid Village	Municipalities and Coops	Daby , Kimball	Wentlent, Chris	Cordeiro, Mark				
Municipal Commission of Boonville	Municipalities and Coops	Varner , Doug	Wentlent, Chris	Cordeiro, Mark				
Plattsburgh Municipal Lighting Dept	Municipalities and Coops	Treacy, William	Wentlent, Chris	Cordeiro, Mark				
Village of Arcade	Municipalities and Coops	Kilburn, Larry	Wentlent, Chris	Cordeiro, Mark				
Village of Fairport	Municipalities and Coops	Hegarty, Matt	Wentlent, Chris	Cordeiro, Mark				
Village of Rockville Centre	Municipalities and Coops	Andreas, Philip	Valenzano, Michael	Rudebusch, Tom				
Village of Solvay	Municipalities and Coops	Hawksby, Joe	Wentlent, Chris	Cordeiro, Mark				
Village of Westfield	Municipalities and Coops	Thompson, Andrew	Wentlent, Chris Reeder, Mark	Cordeiro, Mark	Deals Deter	Const. Const.	McIntire . Natalie	
American Wind Energy Association Environmental Advocates	Environmental Environmental	Fink , Sari Bambrick , Conor	Farmer, Miles	Reynolds, Anne Morris, Jackson	Beck , Betsy	Grace , Gene	McIntire, Natalie	
Environmental Defense Fund	Environmental	Christian, Rory	Stein, Elizabeth	Panfil, Michael				
Natural Resources Defense Council	Environmental	Farmer, Miles	Morris, Jackson	De Costanzo, Donna				
PACE Energy & Climate Center	Environmental	Musgrove , Sheryl	Taylor, Geordi	Farmer, Miles				
Riverkeeper	Environmental	Webster, Richard	Morris, Jackson	Farmer, Miles				
AES ES Holdings LLC	Non Voting	Hillman , Sharon	Kumaraswarmy , Kiran					
Acadia Center	Non Voting	Howe, Cullen	Donovan, Deborah					
Alliance for Clean Energy New York	Non Voting	Reynolds, Anne	Dufresne , Zach Klein , Abram	Reeder, Mark	Westlund, John	Laich, Marcus		
Appian Way Energy Partners East, LLC Ardor Energy LLC	Non Voting Non Voting	Levy , Tal Breen , Erika	Kielii , Abrain	Shen , Dong	westiund, John	Laich, Marcus		
Avangrid Renewables, Inc.	Non Voting	Kilgallen, Kevin	Sokolski , Adam					
Boston Energy Marketing & Trading	Non Voting	Kramek , Mike						
Bruce Power	Non Voting	Jain , Anshul	Meyer, Sandra					
Caithness Energy LLC	Non Voting	Keevill, Gary	Alvarez, Asavari	Garber, Mitchell				
Calpine Energy Solutions	Non Voting	Sun, Jungsuk	Nakhonthap, Jade	Sunga , Leonard				
Cubit Power One Inc.	Non Voting	Powell, Alan	Powell, Leighton	Singer, Leonard				
Customized Energy Solutions	Non Voting	Mancini, Rick	Fernands, Stephen	Rexrode, Caryn	🗸 Ackerman, Alan			
Cypress Creek Renewables	Non Voting	Kohlstedt, Kevin	Kemp , Melissa	Scavo , Marisa				
Ecesis LLC Energya VM	Non Voting Non Voting	Wu , Brian Garcia , Francisco	Maeso, Manual	Lopez Ano	Corvillo, Cristina			
Energya VM Fluent Energy	Non Voting Non Voting	Acampora, Peter	Maeso, Manual Doll, Ed	Lopez , Ana	Corvino, Cristina			
GI Energy	Non Voting	Falcier, Peter	Robinson, James					
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Alternate7	Proxy	Guest

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Alternate5	Alternate6	Alternate7	Proxy	Guest
Highview Power Storage, Inc.	Non Voting	Robson , Paul	Riley, Richard								
Hudson River Energy Group	Non Voting	Radigan, Frank	Canfield, Richard								
Hydro-Quebec TransEnergie	Non Voting	Prevost, Michel									
ITC Mid-Atlantic Development LLC	Non Voting	Wrenbeck, Tom	Benedict, Nathan								
Institute for Policy Integrity at NYU School of Law	Non Voting	Unel, Burcin	Noll, Bethany	Bialek , Sylwia							
Key Capture Energy	Non Voting	Fitzgerald, Dan	Bishop, Jeff								
LS Power Grid NY	Non Voting	Willick , Lawrence	York, Joshua	Hayes, Patrick							
MAG Energy Solutions, Inc.	Non Voting	Pelletier, Simon	Vezina, Alexandre								
NRG Curtailment Solutions, Inc.	Non Voting	Popova , Julia	Ainspan, Malcolm	Pieniazek, Marie							
NY-BEST Consortium	Non Voting	Acker, William	Sheehan, Denise								
NYS Department of Public Service	Non Voting	Paynter, Thomas	🗸 Evans , Adam								
National Fuel Gas Distribution Corporation	Non Voting	Novak, Michael	Eck , Robert								
New Athens Generating Co. LLC	Non Voting	Tripp , Hank									
Northeast Clean Heat & Power Initiative	Non Voting	Melpignano, Kristin	Brown, Ruben	Cinadr , Matt	Dwyer, Herb	Lillian, Jon					
Northline Utilities LLC	Non Voting	McKinney, Jeff	Danskin, Susan								
NuEnergen	Non Voting	Hamilton , Sandy	Korczykowski, Ryan								
RBC Energy Services, LP	Non Voting	Rigby, Angus	Everhardt, Brandon								
RENEW Northeast	Non Voting	Pullaro, Francis	Krich , Abigail								
Red Wolf NT, LLC	Non Voting	Christian, Adam									
Richard P. Felak	Non Voting	Felak, Rich									
STEM, Inc.	Non Voting	Ko , Ted	Bellacicco, John								
Saracen Energy East LP	Non Voting	Peebles, Andy	Miller, Jason								
Siemens Energy, Inc.	Non Voting	Feltes, James									
Taylor Biomass Energy, LLC	Non Voting	Taylor , Jim	Page, Allan								
Teichos Energy, LLC	Non Voting	Maclearnsberry, Kirk	VanCoevering, Darrel								
Tesla, Inc.	Non Voting	Watson, Betty	Gonzales, Carlos	Van Cleve , Sarah							
TransAlta Energy Marketing (U.S.) Inc.	Non Voting	Nivolianitis, Ted	🗸 Abend , Erik								
Transmission Developers Inc.	Non Voting	Jessome, Donald	Helmer, William	Harrison, Bob							
Transource New York, LLC	Non Voting	Burkholder , Joshua									
William P. Short	Non Voting	Short, William	Schaefer, Marc		Savage, Paul	Verna, Jim					