

ARIZONA INDEPENDENT SCHEDULING ADMINISTRATOR ASSOCIATION

Board of Directors meeting

January 11, 2017, 1:30-2:30 pm MST (12:30 pacific)

Call-in Number: #641-715-3625, Access code 992116#

DRAFT BOARD OF DIRECTORS MEETING AGENDA

- I. Call to Order, Welcome & Introductions
- II. Appoint Corporate Secretary **VOTE**
- III. Determine Quorum
- IV. Approve September 28, 2017 Board Meeting Minutes **VOTE**
- V. Review year end Financials
- VI. Fred Schmidt call-in update on NV retail choice ballot passage
- VII. APS EIM update
- VIII. CAISO regionalization status
- IX. IPP lines update
- X. Other Business
- XI. Next Board Meeting call, May 3, 2017, 1:30 pm MST
- XII. Adjourn

Arizona Independent Scheduling Administrator Association
Members, Directors and Class Chairs
(current as of September 28, 2016)

Members' Chair: Ed Beck **Term:**
2016 - 2017

Transmission Facilities Providers Class

Director: Ed Beck, Tucson Electric Power Company 9/16 - 9/17
Director: Leland Snook, Arizona Public Service Company 9/16- 9/18
Class Chair: Ed Beck, Tucson Electric Power Company 9/16 – 9/17
Members – 2016-2017:
Tucson Electric Power Company (Ed Beck)
Arizona Public Service Company (Leland Snook)

Local Load Serving Entities Class

Director: Vacant
Director: Vacant
Class Chair: Vacant
Members – 2016-2017:
UNS-E (Ed Beck)

Aggregators Class

Director: Read Comstock, Direct Energy (Board Ratified) 9/15 – 9/17
Director: Chris Hendrix, Texas Retail Energy (Board Ratified) 9/16 – 9/18
Class Chair: Vacant
Members – 2016-2017:
Direct Energy (Read Comstock)
Noble Solutions (Greg Bass)
Texas Retail Energy (Wal-Mart Aggregator) (Chris Hendrix/Jim Staggs)
Constellation (Mary Lynch)

Independent Generators & Wholesale Power Marketers Class

Director: David Getts, Southwestern Power Group II 9/16 – 9/17
Director: Jennifer Chamberlin 9/16 – 9/18
Class Chair: Greg Patterson, Arizona Competitive Power Alliance 9/16 – 9/17
Members – 2016-2017:
Jennifer Chamberlin
Shell (Marcie Millner/Linda Willoughby)
Southwestern Power Group II (David Getts)
Arizona Competitive Power Alliance (Greg Patterson)
FCX Energy Services (Dan Stoneberger)

End-Use Customers

Director:	Kevin Higgins, Arizonans for Electric Choice & Comp	9/16 – 9/17
Director:	Mike McElrath, Freeport McMoran	9/16 – 9/18
Class Chair:	Kevin Higgins, Arizonans for Electric Choice & Comp	9/16 – 9/17
Members – 2016-2017:		
	EnerNOC (Mona Tierney Floyd)	
	Honeywell (Kevin Higgins)	
	Wal-Mart (Jess Galura)	
	Arizonans for Electric Choice & Comp (Ian Calkins)	
	Freeport McMoran Copper & Gold Mining (Mike McElrath)	
	City of Phoenix (Dimitrious Laloudakis)	

Arizona Independent Scheduling Administrator Association

Minutes from the Annual Members Meeting
Wednesday, September 28, 2016 at 2:00 PM

I. Call to Order

Vicki Sandler, Director, called the Eighteenth Annual Members Meeting of the Arizona Independent Scheduling Administrator Association (“AISA”) to order at approximately 2:00 PM.

II. Collection of Dues

The Executive Director reminded Members of the \$250 annual dues payment.

III. Appoint Corporate Secretary

Tasha Cycholl of Kutak Rock LLP was appointed as Corporate Secretary for the meeting.

IV. Determine Class Quorums

The quorum requirement for each class is a majority of Members of the class.

A. Transmission Facilities Providers Class

A quorum for this class was present.

B. Local Load Serving Entities Class

A quorum for this class was not present.

C. Aggregators Class

A quorum for this class was not present.

D. Independent Generators & Wholesale Power Marketers Class

A quorum for this class was present.

E. End-Use Customer Class

A quorum for this class was present.

V. Determine Members Quorum

The quorum requirement is that a majority of the classes must have a class quorum present. A quorum of the members was present.

VI. Elect Class Chairs & Members Chair, and Board of Directors

Having met the minimum quorum requirement, the Members proceeded to elect a Members Chair and Class Chairs as follows:

- Members' Chair: Ed Beck (16-17)
- Transmission Facilities Providers Class Chair: Ed Beck (16-17)
- Independent Generators & Wholesale Power Marketers Class Chair: Greg Patterson (16-17)
- End-Use Customers Class Chair: Kevin Higgins (16-17)

The Local Load Serving Entities Class and the Aggregators Class did not have quorums present and therefore, did not elect a Class Chair.

Having a quorum present, with the exception of the Local Load Serving Entities Class and the Aggregators Class, the other Classes elected Board Members as follows with terms of office as noted:

Transmission Facilities Providers Class:

Leland Snook (9/16-9/18)

Independent Generators & Wholesale Power Marketers Class:

Jennifer Chamberlin (9/16-9/18)

End-Use Customer Class

Mike McElrath (9/16-9/18)

Because the Aggregators' Class did not have a quorum present, the Board of Directors noted that they would take action to appoint a director during the Board of Directors' meeting.

VII. Approval of September 1, 2015 Meeting Minutes

A motion was made and seconded to approve the Minutes of the September 1, 2015 Members Annual Meeting. The motion was unanimously approved.

At this point in the meeting (2:15 p.m.), at the motion of the Executive Director and with approval from the Members, the Members' meeting was temporarily suspended and the Board of Directors' meeting commenced, in order to accommodate the schedule of one of the Directors. The Annual Members' meeting commenced at 2:30 p.m.

VIII. AISA Financials for January to June, 2016

Ms. Sandler then discussed the current financial status of the AISA. For both the periods of January to June and April to June, the total income of the AISA was below budget, but the expenses were also below budget by a similar amount, mostly due to savings in the amount of professional expenses. Travel costs were also lower than budgeted.

IX. 2017 Draft Budget

There was a brief discussion of the 2017 Draft Budget, since this was also discussed and approved at the intervening Board Meeting.

X. Updates on APS' EIM and SPP Program

Leland Snook gave an update on the EIM program, which will go live at 12:00 am on October 1, 2016. The SPP program currently includes approximately 1,600 customers. The project started slowly, primarily due to the fact that no smart inverter which was UL listed was available in the U.S. The appropriate inverter had to be UL listed and then a communication protocol developed, to enable utility control of the inverter for all 1,600 customers. APS is seeking to recover the cost of the program in its rate case. APS also has an application available on Android and Apple smartphones in conjunction with the program, where customers can view their hourly demand. Ed Beck then gave a brief update for TEP. It is still reviewing EIM, and expects a decision by the end of the year.

XI. Updates on California Initiatives

It was noted that this is a 2 year process. At least two of the three utilities in California are taking a more neutral stance toward direct access. The legislature in California tends to reintroduce bills on renewables. California is looking for an increase from 33% to 50% clean energy in the next 15 years. The Governor of California withheld legislation on the California ISO expansion and change in governance of ISO, as new out of state entities come into play.

XII. 2017 Annual Members' Meeting

Ms. Sandler noted that the date for next year's annual meeting will be September 6, 2017.

XIII. Adjourn

A motion was made and seconded to adjourn the meeting. The motion was unanimously approved. Ms. Sandler adjourned the Members meeting at approximately 3:00 PM.

Arizona Independent Scheduling Administrator Association

Minutes from the Annual Board of Directors Meeting
Wednesday, September 28, 2016 at 2:15 PM

I. Call to Order, Welcome and Introductions

Vicki Sandler, Director, called the September Board of Directors (“Board”) Meeting of the Arizona Independent Scheduling Administrator Association (“AISA”) to order at approximately 2:15 PM.

II. Appoint Meeting Secretary

Tasha Cycholl of Kutak Rock LLP was appointed as Corporate Secretary for the meeting.

III. Determine Quorum

The quorum requirement is two-thirds of the members of the Board. A quorum was present: seven of nine board members were present.

The following Directors were present: Ed Beck, Leland Snook, David Getts, Jennifer Chamberlin, Kevin Higgins, Mike McElrath, and Vicki Sandler (Chair).

IV. Approve May 4, 2016 Board Meeting Minutes

A motion was made and seconded to approve the minutes from the May 4, 2016 Board of Directors meeting. The motion carried unanimously.

V. Ratification of Director for Aggregators Member Class

A motion was made and seconded to appoint Chris Hendrix as a Director for the Aggregators member class for the period of September 2016 through September 2018. The motion was unanimously approved.

VI. 2017 Budget

A motion was made and seconded to approve the proposed budget for the year ended December 31, 2017. The motion was unanimously approved.

VII. AzISA Potential Role in Administering AG1

There was a short discussion about the role of the AzISA in AG1. It was suggested that when the relevant orders are issued, the AzISA should consider its potential role at that time.

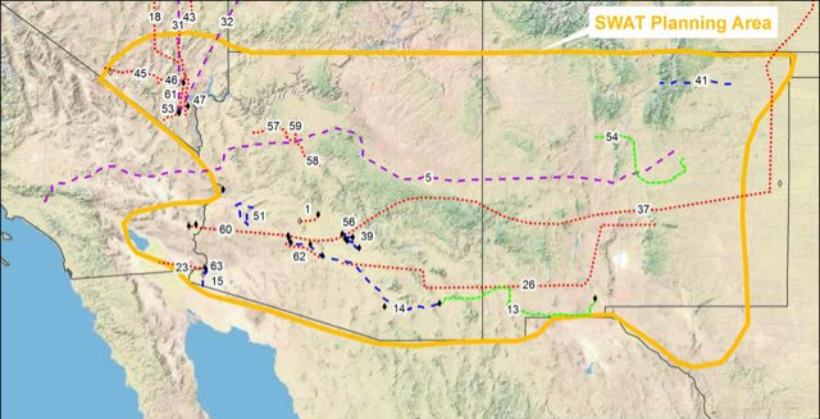
VIII. Next Board Meeting

The next board meeting will be held on January 11, 2017 at 1:30 p.m.

IX. Adjourn

Vicki Sandler, Director, adjourned the meeting at approximately 2:30 PM.

SWAT Planning Area



SWAT Projects Under Development

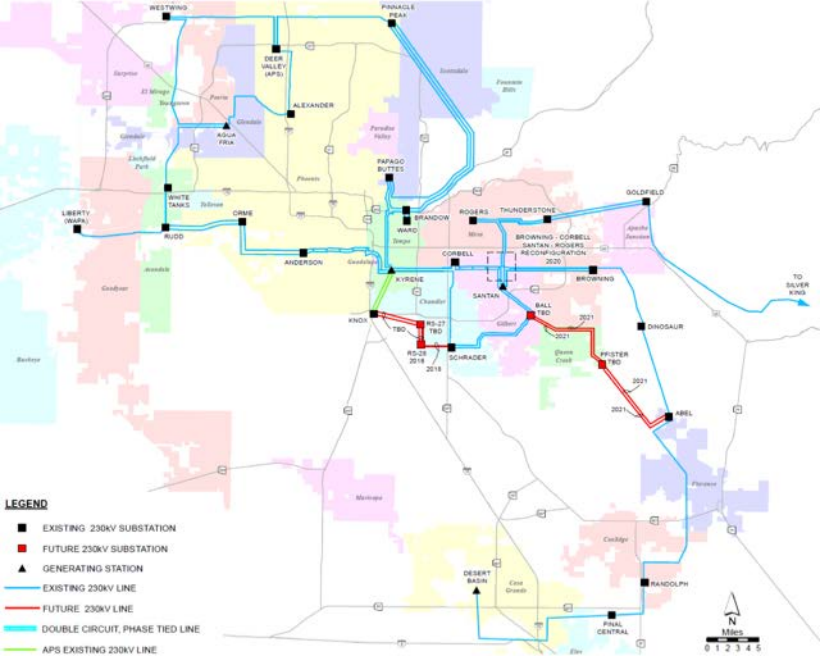
- 500kV
 - 345kV
 - - - - 230kV
 - - - - 500 / 600kV DC
 - Below 230kV
- Substations
- ◆ Existing
 - Future



Last Updated: 8/16/2016

Not all projects have received permits to construct and routes are subject to change
 Not all SWAT projects are shown due to the scale of the map

Map ID	Project	In-Service	Map ID	Project	In-Service
1	Sun Valley - Morgan	2018	45	Centennial II (Amargosa - Northwest)	2026
5	Centennial West	2026	46	Centennial II (Northwest - Harry Allen)	2026
13	Southline Project (Alton-Apache)	2018	47	Centennial II (Harry Allen - Bldorado)	2026
14	Southline Project (Apache-Saguaro)	2018	51	Harcuar Transmission Project	2020
15	North Branch	2026	53	Bighorn-Bldorado	2026
18	SWIPON Line	2026	54	Western Spirit Clean Line	2018
23	Imperial Valley - North Gila #2	2020	56	Browning-Corbeil-Santan-Rogers 230kV line	2020
24	SunZia Southwest Transmission Project	2021	57	Longview to Peacock Line	2021
31	Zephyr	2020	58	Longview to Yavapai Line	2021
32	Trans West Express	2020	59	Longview to Moonlight-Bldorado Line	2021
33	Tres Amigas	2017	60	Delaney - Colorado River	2020
37	High Plains Express	TBD	61	Harry Allen - Bldorado	2020
39	Abel - Ball (formerly Abel-Moody)	2020-2021	62	Hassayampa - Pinal West #2	2024
41	Lucky Corridor Transmission Project	2018	63	North Gila - Orchard	2021
43	NV Energy Self Build Robinson - Harry Allen	2026			



LEGEND

- EXISTING 230KV SUBSTATION
- FUTURE 230KV SUBSTATION
- ▲ GENERATING STATION
- EXISTING 230KV LINE
- FUTURE 230KV LINE
- DOUBLE CIRCUIT, PHASE TIED LINE
- APS EXISTING 230KV LINE



138kV Ten Year Plan Map (2018 – 2027)

- = Existing Substation
- = Existing EHV / HV Line
- = New Substations
- = New 138kV Line
- = Reconductored 138kV Line
- = New EHV Line

