



## 2025 Loews Ventana Canyon Resort, Tucson AZ 501F & G Users Group Annual Conference Agenda

<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>Sunday, Feb 4</b>		
12:40 - 4:00 pm	Golf Outing & Vendor Registration	Ventana Canyon Golf & Raquet Club
4:30 pm - 7:00 pm	Welcome Reception	Bill's Grill & Cascade Terrace

<b>Monday, Feb 5</b>		
6:00 am - 6:00 pm	Registration Table opens for User & Vendor Registration	Tortolita
7:00 am - 8:30 am	Breakfast	Catalina Ballroom
8:30 am - 9:00 am	Welcome, Introductions, Evac Routes and Housekeeping	Ballroom BC
9:00 am - 10:00 am	<b>Webmaster/Website - Safety Roundtable and User Presentations</b>	Ballroom BC
10:00 am - 10:30 am	Morning Break	Catalina Ballroom
10:45 am - 11:45 am	Vendorama	<i>See Vendorama Schedule</i>
12:00 am - 1:00 pm	Lunch	Bill's Grill & Cascade Terrace
1:00 pm - 2:00 pm	Vendorama	<i>See Vendorama Schedule</i>
2:00 pm - 2:30 pm	Afternoon Break	Catalina Ballroom
<u>2:00 pm - 5:00 pm</u>	<u>Partner Spa Retreat</u>	Lakeside Spa & Fitness Center
2:30 pm - 3:30 pm	Vendorama	<i>See Vendorama Schedule</i>
4:00 pm - 8:00 pm	Vendor Fair and Reception	Kiva Ballroom

<b>Tuesday, Feb 6</b>		
7:00 am - 5:00 pm	Registration & Information Desk	Tortolita
7:00 am - 8:00 am	Breakfast	Salon EF
8:00 am - 8:15 am	Critique of Vendorama and Vendor Fair	Ballroom BC
8:15 am - 9:30 am	<b>Outage Execution Roundtable and User Presentations</b>	Ballroom BC
9:30 am - 10:00 am	Morning Break (Sponsored by Siemens Energy)	Salon EF
10:00 am-12:00 pm	<b>Siemens Presentations to Users</b>	Ballroom BC
12:00 am - 1:00 pm	Lunch	Salon EF
1:00 pm - 2:00 pm	<b>Mitsubishi Power Presentations to Users</b>	Ballroom BC
2:00 pm - 2:30 pm	Afternoon Break (Sponsored by Doosan Turbomachinery Services)	Salon EF
2:30 pm - 3:30 pm	<b>Mitsubishi Power Presentations to Users</b>	Ballroom BC



## 2025 Loews Ventana Canyon Resort, Tucson AZ 501F & G Users Group Annual Conference Agenda

3:30 pm - 4:00 pm	Afternoon Break (Sponsored by Doosan Turbomachinery Services)	Salon EF
4:00 pm - 5:00 pm	Mitsubishi Power Presentations to Users	Ballroom BC
6:00 pm - 9:00 pm	Mitsubishi Evening Event	TBD

### Wednesday, Feb 7

7:00 am - 5:00 pm	Registration & Information Desk	Tortolita
7:00 am - 8:00 am	Breakfast	Salon EF
8:00 am - 8:30 am	Users Critique of Mitsubishi & Siemens Presentation with 501F BOD	Ballroom BC
8:30 am - 9:30 am	Auxiliaries Roundtable and Users Presentations	Ballroom BC
9:30 am - 10:00 am	Morning Break (Sponsored by Trinity Turbine Technology)	Salon EF
10:00 am - 11:00 am	Generator(s) Roundtable and Users Presentations	Ballroom BC
11:00 am - 12:00 am	ST Roundtable and User Presentations	Ballroom BC
12:00 am - 1:00 pm	Lunch	Salon EF
1:00 pm - 2:00 pm	PSM Session Introduction from the Board Welcome PSM Celebrates 10 Years of FlameSheet™	Ballroom BC
2:00 pm - 2:30 pm	Afternoon Break (Sponsored by Falcon Crest Aviation Supply)	Salon EF
2:30 pm - 3:30 pm	Monitoring & Diagnostics / Digital Products & Services (Live from PSM Studios!) 501F Flexibility Upgrade	Ballroom BC
3:30 pm - 4:00 pm	Afternoon Break (Sponsored by Falcon Crest Aviation Supply)	Salon EF
4:00 pm - 5:00 pm	Case Studies: 501F Flexibility Installations The Next Generation of GTOP7 Q/A Session: Industry Issues and Needs	Ballroom BC
6:00 pm - 9:00 pm	PSM Evening Event co-sponsored by Arnold Group 5:45 pm: Transportation Shuttle Pick up 6:00 pm: Shuttles depart 6:30 pm - 9:00 pm: Evening event - Dinner 9:30 pm - 10:00 pm: Transportation back to the hotel	TBD



## 2025 Loews Ventana Canyon Resort, Tucson AZ 501F & G Users Group Annual Conference Agenda

### Thursday, Feb 8

7:00 am - 8:00 am	Breakfast	Salon EF
8:00 am - 8:15 am	<b>Users Critique of PSM Presentation with 501F BOD</b>	Ballroom BC
8:15 am - 9:45 am	<b>Inlet and Exhaust Roundtable and Users Presentations</b>	Ballroom BC
9:45 am - 10:15 am	Morning Break	Salon EF
10:15 am - 11:45 pm	<b>Compressor Roundtable and User Presentations</b>	Ballroom BC
11:45 am - 1:00 pm	Lunch	Salon EF
1:00 pm - 2:30 pm	<b>Casing Alignment Discussion? Rotor Considerations?</b>	Ballroom BC
2:30 pm - 3:00 pm	Afternoon Break (Sponsored by Falcon Crest Aviation Supply)	Salon EF
3:00 pm - 4:30 pm	<b>Combustion Roundtable</b>	Ballroom BC
4:30 pm	End of day - No evening event - Dinner on own	

### Friday, Feb 9

7:00 am - 8:00 am	Breakfast	Salon EF
8:00 am - 9:45 am	<b>Hot Gas Roundtable and Users Presentations</b>	Ballroom BC
9:45 am - 10:15 am	Morning Break	Salon EF
10:15 am - 11:45 pm	<b>Rotor Roundtable and Users Presentations</b>	Ballroom BC
11:45 am - 1:00 pm	Lunch on own	Salon EF
1:00 pm - 2:30 pm	Conference Critique with Users	Ballroom BC
2:30 pm - 3:00 pm	501F & G Official Board Meeting and Conference Critique & Wrap-up with Square One Meeting Planning	Executive Boardroom



# 2025 501F & G Users Group

Lowes Ventana Canyon Resort  
Tucson, Arizona  
**February 9 - 14, 2025**

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To provide an open forum through conferences and technological aids, to the Owners/Operators of 501F generator systems for effective communication, discussion, and information dissemination regarding the operation, maintenance, inspection, troubleshooting, and repair of such systems to maximize equipment performance and reliability.

***Controlled by Users***

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## DAY 1- Monday February 10th

- Registration
- Welcome & Introductions
- Conference Instructions
- Safety Roundtable
- Vendorama
- Partner's Spa Retreat @ Lakeside Spa & Fitness Center
- Vendor Fair & Reception

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## Welcome & Introductions

Monday – Feb 10<sup>th</sup>  
8:00 to 9:00 AM  
Ballroom BC

- Welcome to All Users
- Introduction of Board Members & Conference Staff
- First time Attendees and Users
- Conference Etiquette

Ivan Kush

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## SAFETY Roundtable

Monday – Feb 10<sup>th</sup>  
9:00 to 10:00 AM  
Ballroom BC



The more YOU participate,  
The more YOU get out of the conference,  
The more YOU will be prepared...

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## SAFETY Roundtable

Monday - Feb 10<sup>th</sup>  
9:00 to 10:00 AM  
Ballroom BC

### Safety Roundtable and User Presentations

- **Magnetic Case Measuring Sticks-**  
Dave Gundry , Xcel Energy
- **501 Teardrop Egress Device –**  
Blaine Gartner , Xcel Energy

Chaired by:  
Brian Berkstresser



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## 501F Users Website Updates

Open to approved 501F Users

By  
Chad Boschert  
Apt Crowd  
@

Chaired by:  
Dave Gundry

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## Vendorama

Monday - Feb 10<sup>th</sup>  
10:20 to 12 Noon

501F Users Group 2025 Vendorama Morning Schedule					
Room - Host		10:20 - 10:50	10:55 - 11:25	11:30 - 12:00	12:00 - 12:55
A	Subject:	Significant Startup Improvement through Electrical Steam Turbine & HRSG Warming Solutions	501f single layer insulation	Demystifying Varnish	Lunch
Greg Dolezal Brian Berstreser	Vendor:	Arnold Group	Arnold Group	C.C.JENSEN, Oil Maintenance	
B	Subject:	Oil, your hidden asset!	Steam Turbine Major Contingency Planning	Generator Topic	Lunch
Blaine Gartner Steven Smith	Vendor:	C.C.JENSEN, Oil Maintenance	Advance Turbine Support	AGT Services, Inc.	
C	Subject:	Online Non-destructive Partial Discharge Testing of MV/HV Cables	Online Non-destructive Partial Discharge Testing of MV/HV Cables	Compressor cleaning chemical update / wash skids	Lunch
David Gundry Jody Lumpkin	Vendor:	Doble Engineering Company	Doble Engineering Company	Rochem Fyrewash Inc.	
D	Subject:	Allied Power Group	Better filtration pays for itself	Frenzeli Exhaust Expansion Joint Upgrades For New and Legacy 501F Units	Lunch
Tyler Wensel Rodney Kapavik	Vendor:	Allied Power Group	EMW filtertechnik GmbH	Frenzeli, Inc.	
F	Subject:	Proper Monitoring of Turbine Oil Degradation to Prevent Varnish Formation.	Engineering an exhaust silencer system for todays gas turbines including material selection and proper welding process and filler materials.	Gulf Turbine Specialists - Benefits of hiring an owner engineer	Lunch
Zach Wood Scott Wiley	Vendor:	Shell Oil Products	SVI BREMCO	Gulf Turbine Services	

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## Vendorama

Monday – Feb 10<sup>th</sup>  
1:00 PM to 3:35 PM

501F Users Group 2025 Vendorama Afternoon Schedule						
Room - Host		1:00 - 1:30	1:35 - 2:05	2:05 - 2:25	2:30 - 3:00	3:05 - 3:35
A	Subject:	Case Study: Extending Catalyst Life Through Proper SCR System Evaluation	Enhancing Siemens SGT6-5000F Transition Duct Liner: A 3D-Scanned Approach	Break	MeeFog for Cooling and Wet Compression Technology and Fleet Experience	Comprehensive Approach to Turbine Blade Ring Repair and Assembly
	Vendor:	Environex, Inc.	HRST, Inc.		Mee Industries	TRS Services
B	Subject:	Turbine Vane Downstream Deflection – Identification, Mitigation, and Correction	TBD	Break	The 4-Way Joint Leak Solution	Flange Leak Detection System
	Vendor:	Doosan Turbomachinery	Industrial Air Flow Dynamics, Inc.		Nord-Lock Group	HP Leak Detection
C	Subject:	Improvements in Freeze Protection Technology	Generator Service / New Innovations	Break	TBD	
	Vendor:	CIAC Systems LLC	National Electric Coil		PSM	
D	Subject:	Filter Topic	Understanding the impact of balance of plant equipment on liquid fuel system reliability	Break	501F & G Torque Converter Updates	Plant Turbine Upgrade Assessment
	Vendor:	Hilco Filtration	JASC		Voith US	Tetra Engineering Group, Inc.
F	Subject:	TBD	The Effects of Distribution on SCR System Performance	Break		KinetiClean - HRSG Tube Cleaning Technology
	Vendor:	Shermco Industries	Vector Systems, Inc.			Groome Industrial Service Group

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## Users Partner Retreat

Pre-Registration is Required

Monday – February 10<sup>th</sup>  
2 to 5 PM

Lakeside Spa and Fitness Center

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## **Vendor Fair & Reception** **@ Kiva Ballroom**

Monday – February 10<sup>th</sup>  
**4 to 8 PM**

**Open to 501F & G User Group Attendees**

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## **DAY 2- Tuesday** **February 11<sup>th</sup>**

- Critique of Roundtable Vendoroma & Vendor Fair
- Outage Execution Roundtable & Presentations
- Siemens Presentation to Users
- Mitsubishi Presentation to Users
- Mitsubishi Evening Event

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## DAY 2-Tuesday

February 11<sup>th</sup>

8:00 – 8:15 AM

Critique of Safety Roundtable,  
Vendorama and Vendor Fair

*Ivan Kush*

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## User Roundtables

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The more YOU participate,  
The more YOU get out of the conference,  
The more YOU will be prepared...



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## Outage Execution Roundtable

Tuesday – Feb. 11<sup>th</sup>  
8:15 to 9:30 AM  
Ballroom BC

### User Presentations :

#### Suggested Topics

- Labor Resources OEM vs Non-OEM
- Lead times on components refurbishment or deliveries
  - Bearings
  - Diaphragms
  - Blades
  - Blade Rings
  - Typical Hot Gas Components
- Shop Loads
- Quality of repairs
- Used Parts Availability and vendors

*Chaired by:  
Ivan Kush*

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## Siemens Energy Presentation to Users Ballroom BC

Tuesday – February 11<sup>th</sup>  
10:00 AM to 12 Noon

**\* Presentation can only be attended by Approved 501 User's**

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## Mitsubishi Power Presentation to Users

Ballroom BC

Tuesday – February 11<sup>th</sup>

1:00 to 5:00 PM

\* Presentation can only be attended by approved 501 User's

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## Mitsubishi Evening Event Tuesday – February 11<sup>th</sup>

*TBD*

6 PM to 9 PM

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## Day 3 – Wednesday February 12th

- Critique of Siemens Energy & Mitsubishi Power w/ 501F BOD
- Auxiliaries Roundtable and User Presentations
- Generator Roundtable and User Presentation
- Steam Turbine Roundtable & User Presentation
- PSM Presentation to Users
- PSM Evening Event

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## DAY 3- Wednesday February 12th Ballroom BC

**8:00-8:15AM** Users Critique of Siemens &  
Mitsubishi Presentations w/ 501F BOD

*Ivan Kush*

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## User Roundtables



The more YOU participate,  
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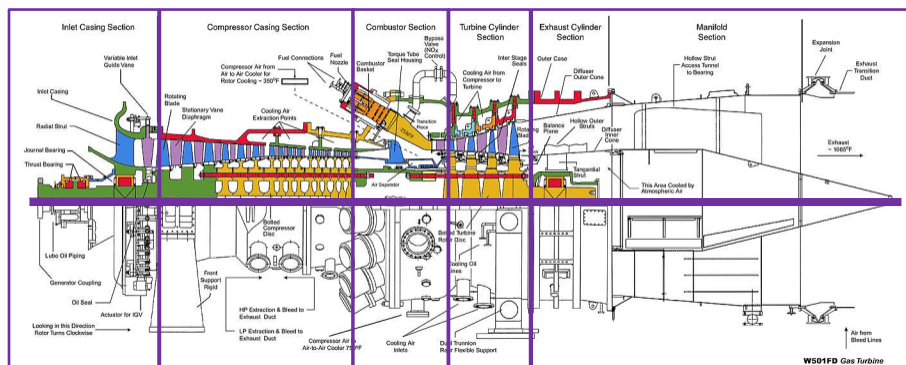


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## Auxiliaries & Operations

Wednesday – Feb.12th  
8:30 to 9:30 AM  
Ballroom BC



Inlet

Compressor

Combustor

HGS

Rotor &amp; Casings

Exhaust

Chaired by:  
Blaine Gartner

+ Generator

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## Auxiliaries & Operations

Wednesday – Feb. 12<sup>th</sup>

8:30 to 9:30AM

Ballroom BC

### Presentations

- **Controls Upgrades and Replacements** - Gilbert Shupe , SRP
- **Outage Prep and Inspections of Auxiliaries** - Blaine Gartner , Xcel Energy

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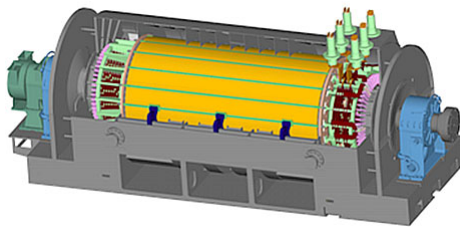


## Generator Roundtable

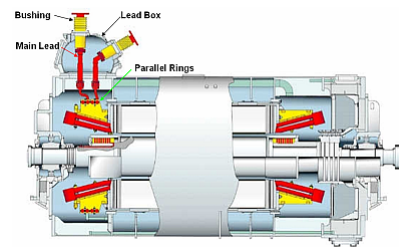
Wednesday Feb 12<sup>th</sup>

10:00 to 11:00 AM

Ballroom BC



**Air-Cooled Generator**



**Modular H2 Cooled Generator**

**\* Presentation can only be attended by Approved 501 Users**

+ Generator

Chaired by  
Steve Smith

ST Roundtable

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## Generator Roundtable

Wednesday - Feb. 12<sup>th</sup>  
10:00 to 11:00 AM  
Ballroom BC

### Presentations

- 2000H Generator Fault on B Phase – Steve Smith , Ethos Energy

**\* Presentation can only be attended by Approved 501 Users**

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## Steam Turbine

Wednesday – Feb. 12<sup>th</sup>  
11:00 to 12 Noon  
Ballroom BC

### Presentations

+ Generator

Chaired by:

PSM Session

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## **PSM Presentation to Users**

**Wednesday–February 12<sup>th</sup>**

**1:00 to 5 PM**

**Ballroom BC**

**Afternoon Breaks Sponsored by Falcon Crest  
Aviation Supply**

**\* Presentation can only be attended by Approved 501 Users**

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## **PSM Evening Event & Co-Sponsored by Arnold Group**

**Wednesday – February 12<sup>th</sup>**

**6:00 PM to 9:00 PM**

**Shuttle**

**Pickup @ 5:45 Departs 6 PM**

**Departs event @ 9:30**

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## DAY 4 –Thursday February 13<sup>th</sup>

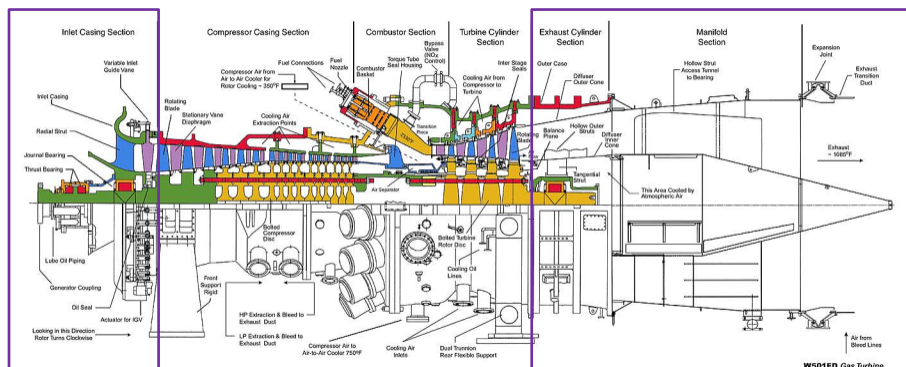
- User's Critique of PSM w/ BOD
- Inlet & Exhaust Roundtable and User Presentations
- Compressor Roundtable and User Presentations
- Casing Alignment Discussion? Rotor Considerations
- Combustion Roundtable

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## Inlet & Exhaust

Thursday – Feb 13<sup>th</sup>  
8:15 to 9:45 AM  
Ballroom BC



Inlet

Compressor

Combustor HGS

Rotor &amp; Casings

Exhaust

Chaired by:

+ Compressor

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# Inlet & Exhaust

Thursday – Feb 13<sup>th</sup>  
8:15 to 9:45 AM  
Ballroom BC

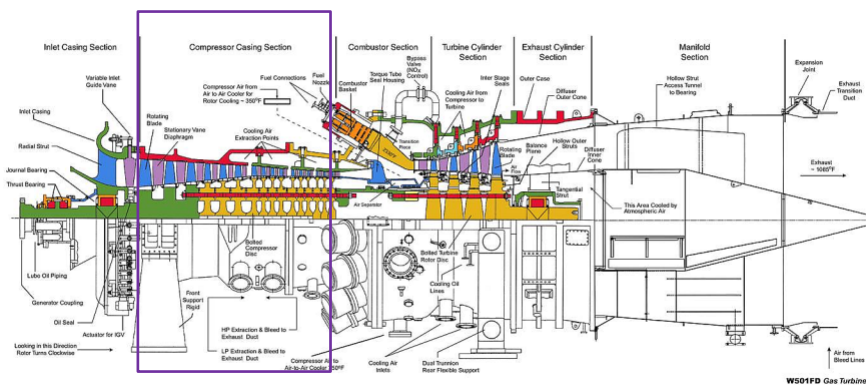
## Presentations

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# Compressor

Thursday – Feb 13<sup>th</sup>  
10:15 AM to 11:45 PM  
Ballroom BC



Inlet

Compressor

Combustor HGS

Rotor &amp; Casings

Exhaust

+ Inlet &amp; Exhaust

Chaired by:  
Dave Gundry

+ Casing Alignment

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## Compressor

Thursday – Feb 13<sup>th</sup>  
10:15 AM to 11:45 PM  
Ballroom BC

### **Presentations**

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## Casing Alignment & Rotor Consideration

Thursday - Feb 13<sup>th</sup>  
1:00 to 2:30 PM  
Ballroom BC

*Chaired by:  
Brian Berkstresser*

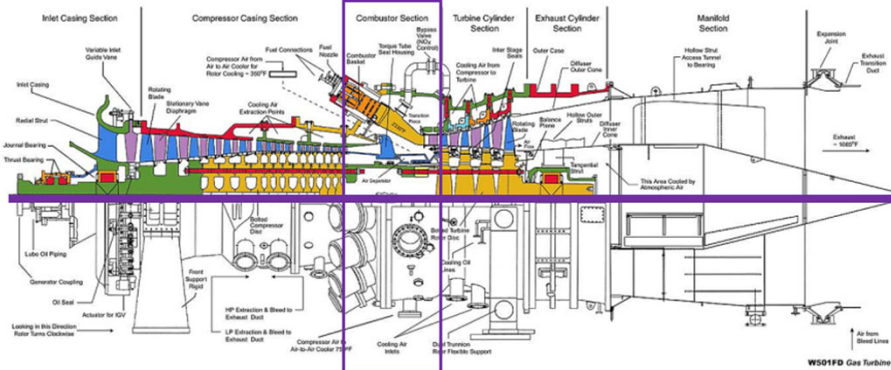
**\* Presentation can only be attended by Approved 501 User's**

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## Combustor Roundtable

Thursday - Feb. 13<sup>th</sup>  
1:00 to 2:30 PM  
Ballroom BC



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## Combustor Roundtable

Thursday - Feb. 13<sup>th</sup>  
3:00 to 4:30 PM  
Ballroom BC

**Rocky Mountain Flamesheet Update** – Devin Schumacher ,  
Xcel Energy (*Presenter is Tentative*)

Chaired By:

\* Presentation can only be attended by Approved 501 User's

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## User Roundtables



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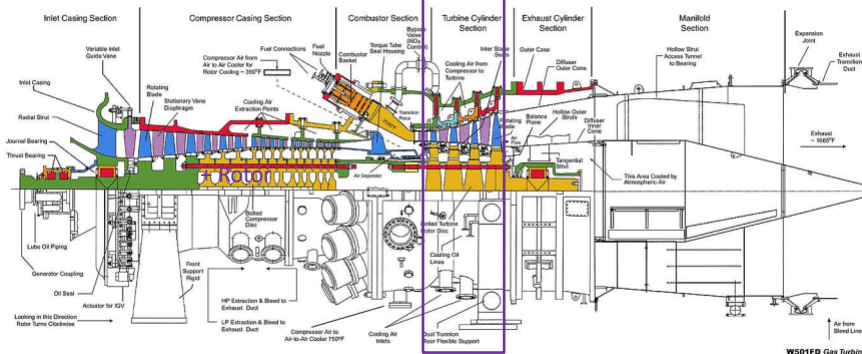


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## Hot Gas Section

Friday – Feb. 14<sup>th</sup>  
8:00 to 9:45 AM  
Ballroom BC



Inlet

Compressor

Combustor

HGS

Rotor &amp; Casings

Exhaust

+ Combustor

Chaired by:

+ Rotor

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# Hot Gas

Wednesday – Feb 14<sup>th</sup>  
10:45 AM to 11:45

## Presentations:

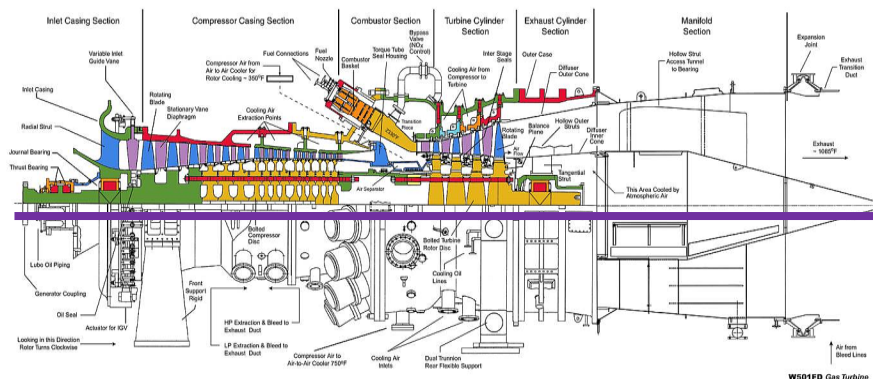
- R1 Vane TBC Loss – Joe Booth , Brazos Electric

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# Rotor

Wednesday - Feb 14th  
9:45 – 10:45 AM  
Ballroom BC



Inlet

Compressor

Combustor HGS

Rotor

Exhaust

+ Hot Gas

Chaired by:



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## Rotor

Friday - Feb. 14th  
10:15 to 11:45 AM  
Ballroom BC

- **Rotor Exchange vs Replacement with New-** Dave Gundry, Xcel Energy **Tentative**
- **Replacement of 501F Rotor w/Mistubishi** -Meridith Anne Neal , TVA ( **WORKING TITLE**)
- **Coated Air Separator Experience** – Gilbert Shupe , SRP (Working Title )

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## Conference Critique with Users

Friday – February 14<sup>th</sup>

**1:00 to 2:30 PM**

Chaired by:  
Ivan Kush

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