

**Southwest Power Pool  
GAS ELECTRIC COORDINATION TASK FORCE MEETING  
May 12, 2015 8:00 a.m. – 3:00 p.m.  
Face-to-Face Meeting, Conference Call/WebEx  
Dallas, Texas, AEP Building**

**• Summary of Action Items •**

NOTE: The list below includes the Item Number used in the GECTF Action Item list.

1. (109) Jodi Woods to provide performance numbers for DA Market solution time including system parameters (high/low load, high wind, season, etc...) that may be relevant.
2. (110) CJ Brown to provide performance numbers for DA RUC solution time including system parameters (high/low load, high wind, season, etc...) that may be relevant.
3. (111) Add to the agenda (Refining multi-day reliability commitment process), more rigor around the use and understanding of the process including timeframes for commitments and their interaction with other key scheduling items such as gas scheduling timelines as related to the MDRA.
4. (112) GECTF members and interested parties to send issues related to the multi-day reliability assesmentprocess to Sam and Kathy by May 22 in order for discussion prep work to be done.
5. (113) The recallable schedule required timeframe may need to be backed up, Sam and Jodi will discuss this with the Engineers.
6. GECTF members and meeting attendees should circulate the strawman inside their respective organizations and bring back comments to the next meeting.

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• M I N U T E S •

**Agenda Item 1 – Administrative Items (Amber Metzker)**

GECTF Vice-Chair Amber Metzker called the meeting to order at 8:00 a.m.

See the attachment for attendance information.

**Agenda Item 2 – Review Action Item List (Kathy Myhand)**

The action item list of In Progress items were reviewed. Updates were added to the status column in the list. The majority of the open items will be discussed in this meeting.

Rob Janssen asked if they don't have the gas information will they be soliciting it from the entities.

**Agenda Item 3 – Stakeholder Timeline (Sam Ellis)**

Sam Ellis suggested keeping close to the 90 day timeframe for a response to FERC. We should expect to present to the MOPC. MWG should be getting an update in the meeting next week.

There is no set deadline for the request for an extension. Joe Ghormley would like to submit the extension a week from now.

**Agenda Item 4 – Review of DA Market Activities (Jodi Woods)**

Jodi Woods reviewed the presentation provided as meeting material. She said that even if the timeline's start time doesn't change, she can see work to compress the timeline based on ECC and other requested enhancements.

Jim Jacoby asked if the solution could run without mitigation. Yes, they could be run in parallel, if there is no mitigation, the solution could continue. If there were mitigation needed, the process would need to be backtracked. Running without mitigation involves MMU and there would be additional discussion needed with the MMU for any changes.

The DA Market operators always run a two day case with the 48 hour solution. They mitigate the SCUC for start-up and SCED for energy.

*Action Item: Jodi Woods to provide performance numbers for DA Market solution time. Rob Janssen asked for some additional information related to system parameters (high/low load, high wind, season, etc...)*

Amber Metzker asked if there is anything that can be done the day prior to the day ahead case. Jodi Woods responded that after the case is posted, they can do prep-work for the next day achieving approximately 80% of the prep work.

SPP has already requested the vendor to start working on performance improvements, based on ECC enhancements, etc. The \$1.4 million is likely a high estimate based on the number of unknowns. Even the vendor said it was a conservative estimate. Jodi Woods mentioned a concern for the quality of results based on the compression and limiting time for analysis.

Sam Ellis mentioned a concern that if we are relying on the day prior analysis, if there are condition changes that means the prior day information needs to be updated. Sam's concern would be posting late based on the cause of the prior analysis being obsolete... that may be a day that the results are needed on time.

The process originally was to run unmitigated and mitigated and go with the unmitigated version. There has been a drop in mitigations based on some recent process changes. The unmitigated may be part of the time savings, approximately 15 minutes.

First run: 1.75 hours; second run: SCED and SFT run in about 30 minutes.

SCUC/SCED/SFT check will take about the same time for the second run as the first. The second run does see new commitments. This does affect cost, cheaper overall to commit the resource from the second run.

There is a proposed change to SUC's 48 hour solution to be reduced to 36 hours. This would be for every other hour of the second day.

Another one is related to SFTCheck (an indication to check specific constraints), SFT may be made to automatically run with the constraints suggested by SFTCheck.

Amber Metzker commented that the ECC is still being looked at by other markets. Her understanding is that the cost is separate for the other ISOs. The concern is related to the perception of the two projects and their impact on the timeline.

There are approximately 100 new units in the market for the Integrated Systems (IS). There were about 500 before. Market Trials start May 17<sup>th</sup>, 2015. The IS is in the QA system now. Oct 1, 2015 is the target for the IS Integration. March 1, 2017 is the go live date for ECC.

Other enhancements were presented by Richard Ross in the MWG. The one enhancement that could impact the timeline is a new ramp product. CT management is a big issue for many.

MISO did a survey with ECC configuration, etc... to determine where their priorities are laying. Show cause (indicating "don't change the timeline") was the only one that was voted significantly higher. (~70% voted for this).

The estimated timeframe for SPP changes would be 12 – 15 months.

Moving the RUC results in time for the evening nom would be a benefit since the timeframe for the Timely Nom is an issue; this is based on the amount of time the Day Ahead Market would have to move to get the results posted in a beneficial amount of time prior to the Timely Nom.

Christi Nicoli added that the commission's order is not requiring the ISO's to have the same day ahead. She asked if in the IRC meeting, did any of the ISO's mention a show cause where they may include changes since 2014 that would accommodate the gas generation better. There is no mandated need for the consistent timeline, the stakeholders would like some consistency to better prepare for the staff work.

The DA RUC case runs with a lot of the same rules and optimization rules as the 48 hour case. CJ Brown commented that the RUC is really dependent on the DA Market results. If there is only light activity in the DA Mkt, there is more needed in the DA RUC. If it's shortened, we would post late more often.

*Action Item: Rob Janssen asked if we can get the same type of performance metrics for the DA RUC as for the DA Mkt that Jodi is going to bring back.* CJ said we need to make sure analytics are included. The DA RUC does not have the level of analytics as the DA Market.

Consideration was made for the rebid time being shortened, an offer time later than the 0800 proposed in the original Strawman timeline and the recommendation that the timeline change be phased in over time.

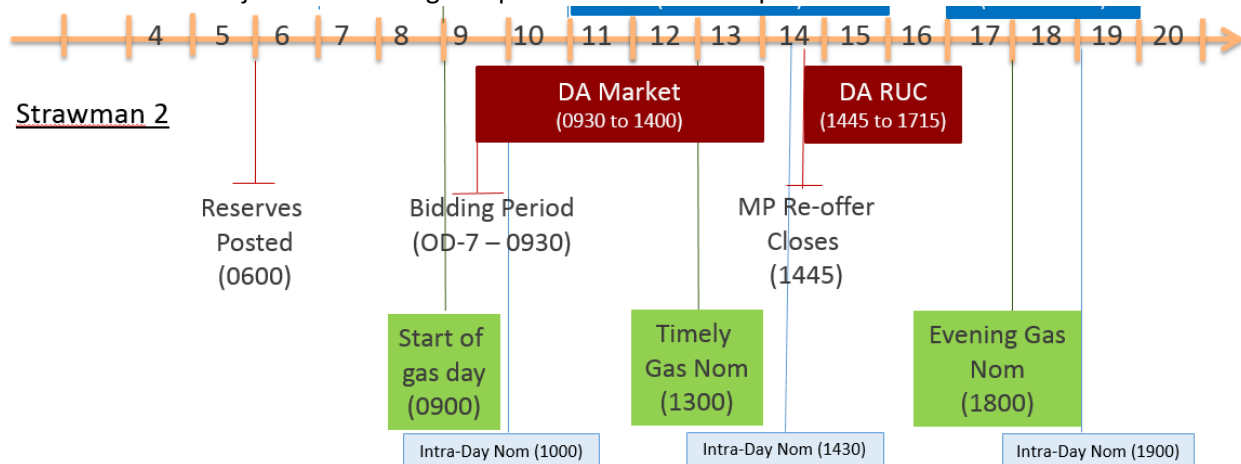
To shorten DA RUC, we would want to shorten DA Mkt, too. Many of the changes will be the same.

The DA Mkt posting is an automatic posting at 1600. People attempting to see the results early caused performance issues in some other areas.

The DA RUC process runs about 2 hours for the study, then remaining time is for analytics. Compressing to 2.5 hours should not be a concern. In the past 18 months there are a handful of days that it would have been longer than 2.5 hours. SPP may not be able to commit as much as we would like without the additional analytics. In the rebid period, there are usually only a few units that go to self-commit status, CJ Brown would suggest that the shops review their requirement for 45 minutes to see if it's really needed. Fall of 2016 may be feasible based on reprioritizing current projects. Dogwood is evaluating the Market, based on the prior year and expects to use the rebid period more than may currently be used.

Multi-Day Reliability commitment would still be used for the extreme gas days.

The timeline was adjusted becoming an updated Strawman Proposal. See below:



Gary, KCPL, is in agreement with the timeline changes as proposed now. What is the cost associated with the 4.5 instead of 4 timeline?

- The known change is nominal the other cost will need to be evaluated.
- There is a cost associated with the posting time being hard coded that will need to be changed for any timeline adjustment.

- The bulk of the cost is associated with the compression which was also budgeted as the ECC project.
- The guestimate for ECC should be sufficient, although it would need to be verified. There are unknowns related to the ECC required compression time.

*Break until 10:15.*

**Agenda Item 6 – Multi-Day Reliability Assessment Discussion (Temper Williams/Sam Ellis)**

Temper Williams reviewed the presentation that was provided in the meeting materials.

The MD Assessments are run every day. SPP runs 3 separate studies based on the processing time for the run. There is a 5 hour time limit, where the case automatically stops and has to be manually restarted. Running the cases simultaneously avoids this.

Amber Metzker asked about the pricing structure and how it feeds into the DA Market. The process uses RTBM offers. If no offers are submitted for a future time period, the prior offer rolls forward.

- If a resource is committed out of the rolled forward, how many days is that the price used in the commitment? It snaps the offer for settlements based on the offer for that day. The commitment is one day at a time.
- If the resource has a 5 day up time, what cost will it use? The commitment will be for the offer for the day needed, then uses the day ahead offer for the remaining times. The commitment period would only be the day. It would look like a DA Mkt offer for the other days even though the commitment is based on the Multi-Day commitment and min run time.

Weekly Potential Challenges information includes resource and planned outage information; it's a process run by the engineers. CJ Brown added sensitivity studies that are run by Operations. CJ added that when the weather may be out of the norm, sensitivity studies are run with a large load offset, when the study shows a potential time that we should consider commitments from the Multi-Day process and the conservative operations process. If the results showed something, Operations would be notified. Each study runs for approximately 2 hours.

Amber Metzker asked if SPP has had more discussions about committing for economics prior to day ahead. Sam Ellis said that would be a change to the market and he would expect it to go through MWG. We are only committing for reliability now, but economics are taken into account when there are multiple ways to solve a reliability issue.

There is a period of time where the start-up times may be changed, Dogwood self-schedules now to maintain better control of their unit use (especially for weather type related issues). It is difficult for some systems to do things (like drain) in time to be started again. Regional differences and unit specifics are not taken into consideration by the software as much as they are by the Unit owners. There may be an added risk to the generator for a cold weather start up. If the commitment is based on the parameters provided, how can get the information needed that will keep things like this from happening. Jodi Woods asked if the hourly start up times will help this situation. Amber said it may, but it's too soon to tell.

Rob Janssen asked when the commitments are made from the Multi-Day RA. Normally kicked off at 9 am, results by noon. The operator will commit it closer to the time it will run, based on potential forecast changes.

Jim Jacoby asked what changes if we're in the conservative operations. CJ Brown said we would do most of the commitments in the multi-day process, where we would commit more like the day ahead. We would try to clear more headroom (depending on wind forecast estimates). We would back up the DA RUC process to the Multi-Day. The multi-day feeds into the day ahead. The DA Market takes the commitments as forced commitments and runs them. This doesn't provide additional capacity, it is just capacity because the energy from those units would count as needed capacity. DA Market does not have headroom. We do have headroom in the DA RUC. The units would get the information sooner, as soon as it's entered into the Current Operating Plan (COP), which could be as much as 7 days ahead. We have committed for outage coordination reasons, OD+2 is the study. OD+1 is technically DA Mkt.

Rob Janssen added that in a conservative operations time, the timely nom becomes more important. The need over a weekend has been discussed during conservative operations, giving as much advance notice as possible. *Action Item: Add to the agenda (Refining multi-day reliability commitment process), more rigor around the timeframes for gas purchases as related to the MDRA.* (Bring a list of issues for the discussion and timelines.) It may be available to implement before the next winter without Tariff changes. CJ Brown and Sam Ellis said it falls under reliability. The notification is hard to interpret. It's received through the same process as any other commitment. They would like to know where it's coming from. *Action Item: GECTF members and interested parties to send issues related to the MD commitment process to Sam and Kathy in order for discussion prep work to be done.* This may need the FERC approval for the decommitment of resources in conservative operations.

During conservative ops, the resource would only be decommitted in an emergency, if they know that it's committed from the MDRA instead of just "Manual" they have some assurance that it will remain on. There is currently no call to inform resources. CJ Brown added that the normal process is not to decommit resources once they are committed, even outside of Conservative Operations.

The MWG is discussing economic commitments, but that seems to be the only discussion that has to do with Multi-Day Assessments.

#### **Agenda Item 7 – Discussion of Implementation Options (Sam Ellis)**

The updated straw poll can be shown to MWG as a preliminary option for discussion.

First step to achieve the new Strawman by winter of late 2016 as the first step toward the progress FERC has made.

Amy Jeffries, Dan Buckner, and Amber Metzker suggested this is a good first step with the idea that clearing times can improve with additional steps.

There is benefit in the evening gas nomination. Both sides gave a little and this is a good Strawman plan.

Sam added that the updates strawman balances the price discovery and the changes to the timeline.

Gary Gottsch agrees that the compromised approach is better. Some procurements with the evening cycle can be made with certainty. Ryan Davis also agreed with the comments so far.

Proposed MPRR and documentation of rationale for the next meeting for compromised Strawman approach to be provided for the next meeting. The reason for change section of the RR will be helpful for Joe Ghormley and Sam Ellis for the filing. The OR requirement posting may need to be moved. Supplemental has to be submitted by 0500. These were mentioned in the original timeline changes MPRR. Change the reserve posting to 0600 for the additional time. *Action Item: The recallable*

*schedule required timeframe may need to be backed up, Sam Ellis and Jodi Woods will discuss this with the Engineers.*

**FERC waiver request discussion:** Rob Janssen's concerns with the proposed timeline does not need the additional timeframe for the filing extension. Others agreed, including SPP.

It is desirable to have WG's endorsement, and recommend changes as the proposal moved to the MOPC. RTWG May agenda, ORWG June 3<sup>rd</sup> meeting.

**Agenda Item 8 – Review New Action Items (10 min) (Kathy Myhand)**

The action item list was reviewed with minor changes, see the first page for the list.

**Agenda Item 9 – Next Meetings (Amber Metzker)**

6/3/2015, Face-to-Face, Dallas, AEP Building 8:15 a.m. to 3 p.m.

A call will be added after the next face-to-face, no schedule set at this meeting to review MOPC meeting materials. Materials will be due July 3. June 25<sup>th</sup> in the afternoon.

**Agenda Item 10 – Adjourn (Amber Metzker)**

The meeting adjourned at 11:36 pm.

Respectfully Submitted,

Kathy Myhand  
Secretary

Attachments:  
Attendance  
Action Item List Updates  
Strawman Timeline

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May 12, 2015, 8:00 a.m. – 3:00 p.m.  
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<b>Addending</b>	<b>First Name</b>	<b>Last Name</b>	<b>Member</b>	<b>Company</b>
x	Ryan	Davis	M	Basin Electric
x	Dirk	Dietz	M	Nebraska Public Power District
x	Gary	Gottsch	M	Kansas City Power & Light Company
x	Robert	Janssen	M	Dogwood Energy, LLC
x	Amy	Jeffries	M	Public Service Company of Oklahoma
x	Amber	Metzker	M	Xcel Energy
x	Cody	VandeVelde	M	Westar Energy
	Jacob	Langthorn, IV	M	Oklahoma Gas and Electric Company
	Matt	Moore	M	Golden Spread Electric Cooperative, Inc.
x	CJ	Brown	S	Southwest Power Pool
x	Sam	Ellis	S	Southwest Power Pool
x	Joseph	Ghormley	S	Southwest Power Pool
x	Kathy	Myhand	S	Southwest Power Pool
x	Jodi	Woods	S	Southwest Power Pool
x	Dan	Buckner	G	ACES
x	Jason	Fix	G	Lincoln Electric System
x	Jim	Fort	G	The Energy Authority
x	Lori	Frisk-Thompson	G	Basin Electric Power Cooperative
x	Brian	Hurst	G	
x	Jim	Jacoby	G	American Electric Power
x	Dick	Kahle	G	Lincoln Electric System
x	Jessica	Kasperek	G	Lincoln Electric System
x	Ryan	Kirk	G	American Electric Power
x	Jim	Krajecki	G	Customized Energy Solutions, LTD
x	Steve	McKee	G	
x	Haley	McKewan	G	Grand River Dam Authority
x	Christi	Nicolay	G	Macquarie Energy LLC
x	Thomas	Schroeder	G	NPPD
x	Lera	Shemwell	G	Missouri Public Service Commission
x	Heather	Starnes	G	City Utilities of Springfield
x	Kim	Sullivan	G	
x	John	Tennyson	G	City Utilities of Springfield
x	Ronald	Thompson Jr.	G	Nebraska Public Power District
x	RJ	Thornbury	G	The Energy Authority for City Utilities of Springfield
x	Rick	Yanovich	G	Omaha Public Power District



Color-code indicators:

Complete	On Hold	In Progress	Past Due	Abandoned	No Work to date
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**GECTF Action Log**

No.	Action Item Description	Reference (CY items #, decision log #, other)	Assigned to	Est. Completion Date	Final status/ comments	Status	Closed Date
40	Update contact list to include gas contacts within their organization.	3/14/2014 Meeting	SPP Staff (Russell)		11/11/2014: Will be added to the 12/1 model and to the Customer Service process for updated. 1/22/15: Pending confirmation that this is complete. 2/27: Don Shipley will confirm complete with Russell, keeping open until this is complete.	In Progress	
70	Work with CWG/MWG to determine an estimate of cost for members to modify their systems to accommodate changes to the Marketplace timeline.	9/17/2014 Meeting	SPP Staff (Jodi)		SPP to provide analysis of expected cost implications and system changes in Q4, Information to be provided to Members for member cost analysis in Q1 2015. None at this time, reprioritized based on Pinnacle Project. 2/27: Don to discuss as separate agenda item.	In Progress	
79	Multi Day Reliability Assessment discussion for gas related issues.	9/17/2014 Meeting	SPP Staff (Sam)		RUC sessions and 12/4 session and EOP discussions are taking place. Maintain separation of reliability (EOP) and economics (MPRR) information. 1/29: Additional features may need this item to remain open. Such as Economic needs instead of just Reliability needs. 2/27: Change in the group responsible for DA Assessment (Casey and Jason Smith). Improvements are being discussed and will be provided by Casey at a later time. (Sam now owns this) Sam will update GECTF at next scheduled May meeting. 5/12: Meeting Agenda Item.	In Progress	
98	Develop process with BAOC to track GECTF requested updates to the EOP to completion / Complete requested 2014 changes to the EOP.	1/29/2015 meeting	SPP Staff (Kim/Kathy)	5/12/2015	2/27: Kathy and Kim to track progress based on Action Items and the RMS process. Next step is item 101. 4/23: Review of requested items and redline items was performed with additional updates made to the EOP. More discussion is needed on this topic. 5/12: Changes discussed, including between CJ and Carl Stelly from the last meeting. New redlines are not available yet.	In Progress	
103	SPP Staff to develop a bullet list for a discussion related to fuel management information that can be shared. a) Executive level, b) operational level	2/27/2015 meeting	SPP Staff (Sam)	6/3/2015	4/23: Revision Request process may be needed for this. Staff can assist in the development of the RR information, but a member should submit it. Jake to update GECTF at next meeting. 5/12: Jake is unable to attend this meeting.	In Progress	
104	John Rhea to discuss code of conduct potential issues with RCWG and provide information to GECTF.	2/27/2015 meeting	John Rhea	6/3/2015	4/23: John Rhea met with the RCWG, they formed a task force and he is the chair. Jake to update GECTF at next meeting. 5/12: Jake is unable to attend this meeting.	In Progress	

Color-code indicators:

Complete	On Hold	In Progress	Past Due	Abandoned	No Work to date
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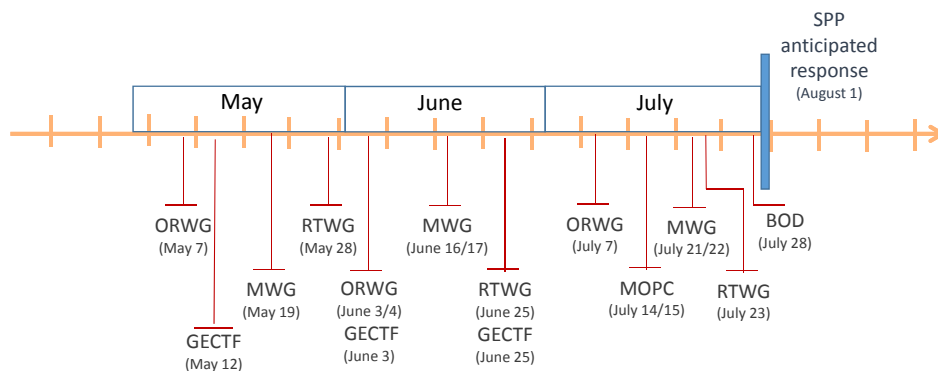
### GECTF Action Log

No.	Action Item Description	Reference (CY items #, decision log #, other)	Assigned to	Est. Completion Date	Final status/ comments	Status	Closed Date
107	Determine if the IRC will submit comments on the FERC Order 206 (Gas Day) as a group.	4/23/2015 Meeting	SPP Staff (Sam)	5/12/2015	Discuss in the May GECTF meeting.	In Progress	
108	Determine if there are changes to the timeline for DA Mkt actions and provide an update to the group for the Gas Day timeline discussion. (Include an SPP explanation of why the enhancements are needed for the timeline compression)	4/23/2015 Meeting	SPP Staff (Jodi)	5/12/2015	Discuss in the May GECTF meeting.	In Progress	
109	Jodi Woods to provide performance numbers for DA Market solution time including system parameters (high/low load, high wind, season, etc...) that may be relevant.	5/12/2015 meeting	SPP Staff (Jodi)			In Progress	
110	CJ Brown to provide performance numbers for DA RUC solution time including system parameters (high/low load, high wind, season, etc...) that may be relevant.	5/12/2015 meeting	SPP Staff			In Progress	
111	Add to the agenda (Refining multi-day reliability commitment process), more rigor around the use and understanding of the process including timeframes for commitments and their interaction with other key scheduling items such as gas scheduling timelines as related to the MDRA.	5/12/2015 meeting	SPP Staff			In Progress	
112	GECTF members and interested parties to send issues related to the MD commitment process to Sam and Kathy in order for discussion prep work to be done.	5/12/2015 meeting	GECTF			In Progress	
113	The recallable schedule required timeframe may need to be backed up, Sam and Jodi will discuss this with the Engineers.	5/12/2015 meeting	SPP Staff			In Progress	

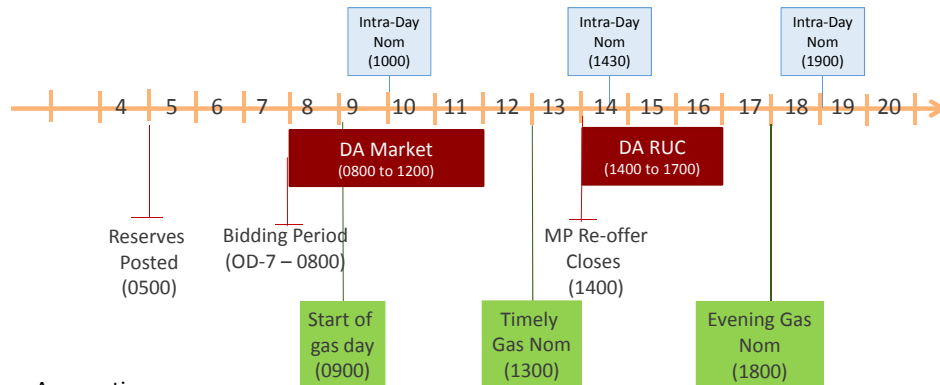
# Timeline Changes

GECTF Discussion

## Timeline for Response



# Strawman Marketplace Timeline

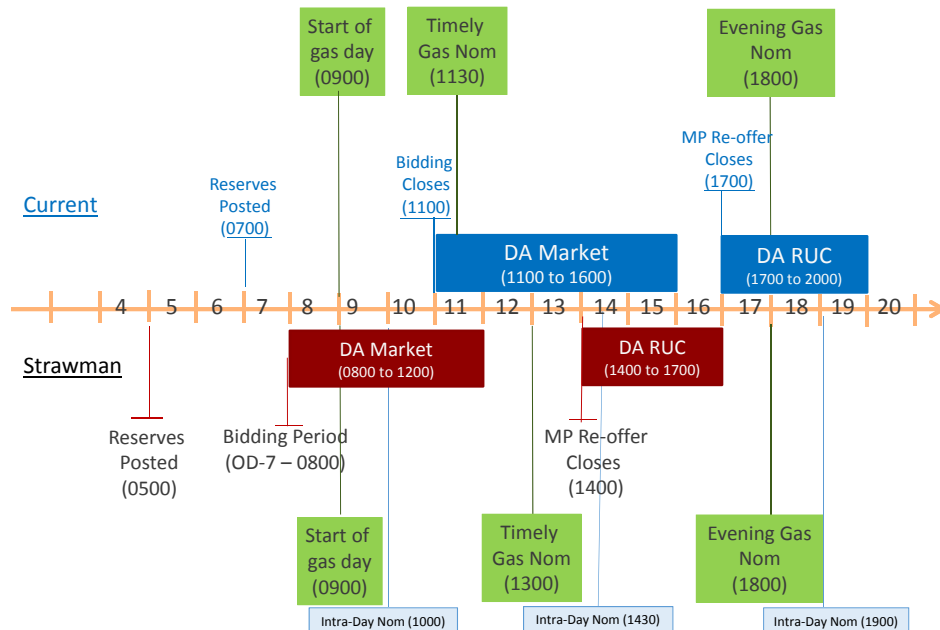


**Assumptions:**

- The FERC NOPR introduces a Timely Gas Nom at 1300 and an Evening Gas Nom at 1800.
- The daily price formation window for Natural Gas trading is expected to remain as it is today.

NOTE: The green boxes represent the FERC Order 206 gas timing.

# Marketplace Timeline Comparison



# Marketplace Timeline Discussion Strawman

