

Appendix E Network and Commercial Model Update Timing

Note: The TCR Update Duration is 30 days when the change is for a TCR Auction effective outside a commercial model change month and 45 days when the TCR Auction is effective for a commercial model change month.

Anticipated types of SPP System Changes with Typical Durations for Related Updates

New Market Registration Changes				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
New Market Participant (MP) with physical assets	6 Months	This will include adding all associated Asset Owners, Resource and/or Load assets. This change is implemented following the New MP On-boarding process.	1 Month	A minimum of 7 Months, which includes 6 months for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions.
New Market Participant (MP) with no physical assets (Financial Only)	4 Months	New MPs with no physical assets do not require the same testing as do new MPs with assets. This change is implemented following the New MP On-boarding process.	N/A	N/A
New Asset Owner (Existing MP)	45 Days	This is a 45-Day change for adding a new AO to an existing MP. Adding New AO with New MP will follow the New MP duration.	1 Month	A minimum of 1 month after the scheduled Market Model Update for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update.

New Transmission Customer (TC)	45 Days / 2 Months	This is a 45-day to 2-month change depending on complexity of addition. Duration applies whether entity is becoming a new MP or not.	Monthly Auction 30 - 45 Days / Annual Auction 105 days	Monthly Auction - 30 to 45 days (TC not a MP); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Transmission Customer (TC) to Asset Owner (AO) mapping	45 Days/4 Months/6 Months	This is a 45-Day change for existing TC and AO. If not existing, this change will be included in On-boarding process.	Monthly Auction 30 - 45 Days / Annual Auction 105 days	Monthly Auction - 30 to 45 days (TC not a MP); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
New Transmission Owner (TO)	45 Days / 2 Months	This is a 45-Day to 2 months change depending on the complexity of addition.	N/A	N/A
New Meter Agent (MA)	4 Months	Adding a new Meter Agent requires testing to prove the entity is capable of supplying meter data to SPP. This change is implemented following the New MP On-boarding process as outlined in Section 6.	N/A	N/A

New Resource Asset (Unit, Plant, BDR, etc.) – Includes Settlement Location, Meter Data Submittal Location, Source/Sink, and Pnode Information	45 Days / 6 months	This is a 45-Day change for limited scope additions to existing asset owning MP. It can take up to 6 months for moderate to large scope additions, or when new ICCP connection is required.	30 - 45 Days/ 1 months / 105 days	Monthly Auction - 30 to 45 days (limited scope)/ 1 month (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
New Load Asset (Load Aggregate, DRL, etc.) – Includes Settlement Location, Meter Data Submittal Location, Source/Sink, and Pnode Information	45 Days / 6 Months	This is a 45 -Day change for limited scope additions to existing asset owning MP. It can take up to 6 months for moderate to large scope additions, or when new ICCP connection is required.	30 - 45 Days/ 1 months / 105 days	Monthly Auction - 30 to 45 days (limited scope)/ 1 month (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
New Market Hub – Includes Resource and Trading Hub	6 Months	The duration for modifying/terminating a Market Hub starts after the change has been approved following the established process outlined in Section 4.5.2.3.1.	120 Days	The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
New Settlement Area	6 Months	This is a 6-month change. Duration applies for areas within SPP BA and	1 Month	A minimum of 7 Months, which includes 6 months for the addition of all associated assets in the applicable scheduled periodic Market Model

		areas outside of the SPP BA.		Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions.
New Meter Data Submittal Location (MDSL)	45 Days	Adding an MDSL can be implemented in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	N/A	N/A
New Source, Sink, or Source/Sink	2 Weeks (Incremental)	Adding a new source, sink, or source/sink can be implemented incrementally in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	30 - 45 Days / 105 days (For TCRs/ARRs, if applicable)	Monthly Auction - 30 to 45 days; Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
External Dynamic Resource (EDR)	4 Months / 6 Months	This is a 4-Month change if it involves current Asset Owning MP. It can take up to 6 Months (minimum) if change involves a new Asset Owning Market Participant.	1 Month / 1 Month	A minimum of 5 Months (current MP) or 7 Months (new MP), which includes 4 months (current MP) or 6 months (new MP), for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in

				the applicable Monthly and Annual Auctions,
Modifications to Existing Registration (Including Terminations)				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
Terminating a Market Participant	6 Months / 1+ Years	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6. Depending on the complexity, this change could take longer than a year.	1 Month	A minimum of 7 Months, which includes 6 months for the termination of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions.
Market Participant (MP) without physical assets (financial only) becoming an MP with physical assets	4 Months / 6 Months	Financial Only MPs which are acquiring physical assets will be required to complete the necessary training and testing effort for asset owning MPs. It could take up to 6 months if ICCP connection is required. This change is implemented following the New MP On-boarding process.	1 Month	A minimum of 7 Months, which includes 6 months for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions.
Market Participant Name Change (Long Name)	45 Days	This is a 45-Day change for limited scope.	N/A	N/A
Market Participant Name Change (Short)	6 Months	This is a complex change and must be implemented to coincide with the	6 Months	This is a complex change and must be implemented to

Name/Acronym)		ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6.		coincide with the ARR/TCR Annuals process.
Asset Owner Name Change (Long Name)	45 Days	This is a 45-Day change for limited scope.	N/A	N/A
Asset Owner Name Change (Short Name/Acronym)	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6.	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process.
Move Asset Owner from one MP to another	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6.	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process.
Terminating an Asset Owner	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6.	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process.
Transmission Customer (Long Name)	45 Days	Name change only - TC must submit new service agreements in new name. (Process should be shortened and improved for this task.)	30 - 45 Days / 105 days	Monthly Auction - 30 to 45 days; Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in

				the TCR Models during the applicable scheduled Model updates.
Transmission Customer (Short Name/Acronym)	6 Months	This is a complex change and must be implemented to coincide with the ARR/TCR Annuals process. This change is implemented following the timeline outlined in Section 6.	30 - 45 Days / 105 days	(Same as note above.)
Terminating a Transmission Customer	45 Days / 4 Months	This is a 45-Day change if TC is not a Market Participant. It could take 4 Months if TC is MP (TC may have outstanding requests, cannot terminate until end of contract.)	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (TC not a MP) / 1 month (TC is current MP with outstanding requests); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Terminating a Resource due to Deactivation, Retirement, or Mothball	3 Months	Deactivated, retired or mothballed Resources could have reliability and/or economic impacts on the SPP footprint. Market Participants must provide a 3 month notification prior to planned Resource deactivation, retirement, or mothball in order for SPP to have sufficient time to study possible impacts.	30-45 days/1 month/105 days	Monthly Auction – 30 to 45 days (limited scope) / 1 month (moderated to large scope); Annual Auction – 75 to 105 days prior to June 1 st . The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.

Contact Information Changes	2 Weeks	Change will be implemented with the next scheduled model update.	N/A	N/A
Modify/Terminate Resource Asset Configuration – Includes aggregating to a plant, de-aggregating a plant, breaking out individual units from a plant, etc.	45 Days / 4 Months	This is a 45-Day change for limited scope additions for current MP. It can take up to 4 months for moderate to large scope additions. This includes changes to related Settlement Location, Meter Data Submittal Location, and Source/Sink Information.	30-45 Days / 1 Month / 105 Days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
External Dynamic Resources (EDR)	45 Days / 4 months	This is a 45-Day change for limited scope additions for current MP. It can take up to 4 months for moderate to large scope additions.	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Modify/Terminate Load Asset Configuration – Includes adding and removing bus level loads	45 Days / 4 Months	This is a 45-Day change for limited scope additions for current MP. It can take up to 4 months for moderate to large scope additions. This includes changes to related Settlement Location, Meter Data Submittal Location,	30-45 Days / 1 Month / 105 Days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in

		and Source/Sink Information.		the TCR Models during the applicable scheduled Model updates.
Modify/Terminate Market Hub – Includes Resource and Trading Hub	6 Months	The duration for modifying/terminating a Market Hub starts after the change has been approved following the established process outlined in Section 4.5.2.3.1	120 Days	The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Modify/Terminate Settlement Location	45 Days / 6 Months	This is a 45-Day change for limited scope. It could take up to 6 months for moderate to large scope. A settlement location with a hedge cannot be modified or terminated until the ARR/TCR expires. This change is implemented following the timeline outlined in Section 6.	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 5 months (moderate to large scope); Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Modify/Terminate Meter Data Submittal Location (MDSL)	45 Days	Changing an MDSL can be implemented in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	N/A	N/A
Modify/Terminate Source, Sink, or Source/Sink	2 Weeks (Incremental)	Changing a source, sink, or source/sink can be implemented incrementally in advance of the next scheduled model update if deemed necessary by MP and	30 - 45 Days / 105 days (For TCRs/ARRs, if applicable)	Monthly Auction - 30 to 45 days; Annual Auction - 75 to 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and

		approved by SPP Management.		publishing these changes in the TCR Models during the applicable scheduled Model updates.
Modify/Terminate Meter Agent (MA)	6 Months	This is a 6-Month change.	N/A	N/A
Settlement Area Change / Termination	4 Months / 6 Months	This is 4 months for limited scope changes. It could take up to 6 Months for moderate to large scope changes.	1 Month / 1 Month	A minimum of 5 Months (limited scope) or 7 Months (large scope), which includes 4 months (limited scope) or 6 months (large scope), for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions,
Resource Reasonable Limit MW Value Changes	2 Weeks (Incremental)	Changing Reasonable Limit MW value can be implemented incrementally in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	N/A	N/A
Resource Certification Flag Changes – Includes Reg Up, Reg Down	45 Days	Changing Resource Certification Flags can be implemented in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	N/A	N/A

Resource Certification Flag Changes – Includes Spin, Supp	2 Weeks (Incremental)	Changing Resource Certification Flags can be implemented incrementally in advance of the next scheduled model update if deemed necessary by MP and approved by SPP Management.	N/A	N/A
1st Tier CA/External Aggregate	45 Days / 4 months	This is a 45-Day change for limited scope changes. It could take up to 4 months for moderate to large scope changes.	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Market Footprint Changes – Includes moving Footprint SA to 1st Tier and moving 1st Tier BA to Footprint.	6 Months	Implement in applicable scheduled seasonal/periodic update.	1 Month	A minimum of 7 Months, which includes 6 months for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions,
Combined Interest Resource Share Modification	2 Weeks (Incremental) / 45 Days	Two weeks to change a percentage of interest to an existing Asset Owner. 45	N/A	N/A

		Days to add an Asset Owner.		
Add EMS NEIMOM / GENMOM / SCADAMOM Equipment				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In Market Footprint				
Asset Owner Company	4 months / 6 Months	4 Months for limited scope changes. 6 Months for Moderate to large scope changes. This change will also impact commercial reliability and other models. (Include in applicable periodic Update)	1 Month / 1 Month	A minimum of 5 Months (limited scope) or 7 Months (large scope), which includes 4 months (limited scope) or 6 months (large scope), for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions,
Units	45 Days / 4 months	4 Months for limited scope changes. 6 Months for Moderate to large scope changes. This change will also impact commercial reliability and other models. (Include in applicable periodic Update)	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Loads	45 Days / 4 months	4 Months for limited scope changes. 6 Months for Moderate to large scope changes. This change	30 - 45 Days / 1 month / 105 days	(Same as note above.)

		will also impact commercial reliability and other models. (Include in applicable periodic Update)		
Other Equipment ND, LD, LN, CAP, XFMR, ZBR, DCLN, CB, DSC, LS	45 Days / 4 months	4 Months for limited scope changes. 6 Months for Moderate to large scope changes. This change will also impact commercial reliability and other models. (Include in applicable periodic Update)	30 - 45 Days / 1 month / 105 days	(Same as note above.)
Outside of Market Footprint				
All Changes	45 Days / 4 months	4 Months for limited scope changes. 6 Months for Moderate to large scope changes. This change will also impact commercial reliability and other models. (Include in applicable periodic Update) (Same as note above.)	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Change EMS NEIMOM / GENMOM / SCADAMOM Equipment				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
Changes - In Market Footprint				
Asset Owner Company	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days / 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the

				Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Units	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
Loads	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
Other Equipment ND, LD, LN, CAP, XFMR, ZBR, DCLN, CB, DSC, LS	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
All Other Changes	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
Remove EMS NEIMOM / GENMOM / SCADAMOM Equipment				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In Market Footprint				
Asset Owner Company	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	Monthly Auction - 30 to 45 days (limited scope) / 1 month (moderate to large scope); Annual Auction - 75 - 105 days prior to June 1st. The indicated durations include the time for implementing changes in the

				Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Units	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
Loads	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
Other Equipment ND, LD, LN, CAP, XFMR, ZBR, DCLN, CB, DSC, LS	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days	(Same as note above.)
In 1st Tier Entity				
EMS Company	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days/ 1 month / 105 days (If applicable)	Monthly Auction - 30 to 45 days (limited scope)/ 1 month (moderate to large scope); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Loads	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate	30 - 45 Days / 1 month / 105 days (If applicable)	(Same as note above.)

		to large scope changes. (Include in periodic Update)		
Other Equipment ND, LD, LN, CAP, XFMR, ZBR, DCLN, CB, DSC, LS	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days / 1 month / 105 days (If applicable)	(Same as note above.)
Beyond 1st Tier	45 Days / 4 months	45 Days for limited scope changes. 4 Months for Moderate to large scope changes. (Include in periodic Update)	30 - 45 Days / 1 month / 105 days (If applicable)	(Same as note above.)
Add or Remove EMS Contingency				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
Both inside and outside of Market Footprint	2 weeks / (45 days if have associated TCR/ARR)	Include in scheduled and coordinated rolling type updates. (This type change may need to be implemented prior to the next scheduled periodic Model Update.)	30 - 45 Days / 105 days (For TCRs/ARRs, if applicable)	Monthly Auction - 30 to 45 days, Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Add New, Modify, or Remove Flowgate				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In SPP Region				
AFC	45 Days	Implement in applicable periodic update.	30 - 45 Days / 105 days	Monthly Auction - 30 to 45 days; Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability

				Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Coordinated	45 Days	Implement in applicable periodic update.	30 - 45 Days / 105 days	(Same as note above.)
Reciprocal	45 Days	Implement in applicable periodic update.	30 - 45 Days / 105 days	(Same as note above.)
Temporary	On the fly	Implement this type change as needed.	N/A	N/A
In Other Regions				
Coordinated	45 Days	Implement in applicable periodic update.	30 - 45 Days / 105 days	Monthly Auction - 30 to 45 days; Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Reciprocal	45 Days	Implement in applicable periodic update.	30 - 45 Days / 105 days	(Same as note above.)
Define New or Change ICCP Inbound				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In Market Footprint	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes	30 - 45 Days / 1 month / 105 days (If applicable)	Monthly Auction - 30 to 45 days (basic additions) / 1 month (gen and load changes); Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the

				Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
In Reliability Area	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes	30 - 45 Days/ 1 month / 105 days (If applicable)	(Same as note above.)
PNODE	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes	30 - 45 Days/ 1 month / 105 days (If applicable)	(Same as note above.)
EMS Equipment or Station Name	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes	30 - 45 Days/ 1 month / 105 days (If applicable)	(Same as note above.)
IDC Bus or Machine ID	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes	30 - 45 Days/ 1 month / 105 days (If applicable)	(Same as note above.)
Delete ICCP Inbound points				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
(Typical for any type ICCP Deletion)	1 Week / 5 Weeks	The max time for deletions is five weeks unless there is no impact to any other system (local or remote). If there is no impact, the request can be completed in the	30 - 45 Days / 105 days (If applicable)	Monthly Auction - 30 to 45 days; Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and

		next ICCP model update.		publishing these changes in the TCR Models during the applicable scheduled Model updates.
Define New or Change ICCP Outbound Points				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In Market Footprint	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes.	1 Month (If applicable)	A minimum of 5 Months, which includes 4 months for the addition of all associated assets in the applicable scheduled periodic Market Model Update and 1 month afterwards for implementing and publishing applicable TCR related change via the applicable scheduled TCR Model Update. These changes will be included in the applicable Monthly and Annual Auctions,
In Reliability Area	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes.	1 Month (If applicable)	(Same as note above.)
PNODE	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes.	1 Month (If applicable)	(Same as note above.)
EMS Equipment or Station Name	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes.	1 Month (If applicable)	(Same as note above.)

IDC Bus or Machine ID	1 Week / 6 Months	1 Week for basic ICCP/Scada Ref. additions. 6 Months for Generation and load related changes.	1 Month (If applicable)	(Same as note above.)
Delete ICCP Outbound Points				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
(Typical for any type ICCP Deletion)	1 Week / 5 Weeks	The max time for deletions is five weeks unless there is no impact to any other system (local or remote). If there is no impact, the request can be completed in the next ICCP model update.	30 - 45 Days / 105 days (If applicable)	Monthly Auction - 30 to 45 days; Annual Auction - 75 – 105 days prior to June 1st. The indicated durations include the time for implementing changes in the Market and/or Reliability Models as well as implementing and publishing these changes in the TCR Models during the applicable scheduled Model updates.
Add or Change Programmable Logic Controller (PLC) Points				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
In Market Footprint				
Plant	4 Months	Implement in applicable periodic update.	N/A	N/A
Unit	4 Months	Implement in applicable periodic update.	N/A	N/A
Other	4 Months	Implement in applicable periodic update.	N/A	N/A
In Reliability Area				
Plant	4 Months	Implement in applicable periodic update.	N/A	N/A

Unit	4 Months	Implement in applicable periodic update.	N/A	N/A
Other	4 Months	Implement in applicable periodic update.	N/A	N/A
IDC Model Change				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
IDC Bus Name or Machine ID Change	45 Days	Changes are incorporated during periodic Model Updates. IDC data updated on monthly and Semi-annual bases -- Monthly changes accumulate for the month and are implemented one day per month (includes time to re-map units to Market Systems). Semi-annual changes accumulate over six months and are implemented over four days twice a year. (June 1st and October 1st are the update times)	N/A	N/A
IDC Mapping Changes	45 Days	Changes are incorporated during periodic Model Updates. IDC data updated on monthly and Semi-annual bases -- Monthly changes accumulate for the month and are implemented one day per month (includes time to re-map units to Market Systems). Semi-annual changes	N/A	N/A

		accumulate over six months and are implemented over four days twice a year. (June 1st and October 1st are the update times)		
External RSS				
System Update Type	Update Duration	Comments	TCR Update Duration	Comments
Add New Resources	1 Week	Change to External RSS Table only. (This type change may need to be implemented prior to the next scheduled periodic Model Update.)	N/A	N/A
Change Resource Information	1 Week	(Same as note above.)	N/A	N/A
Delete Resource Information	1 Week	(Same as note above.)	N/A	N/A