



# Texas Nodal Process Timeline

*The time-based baseline for high-level inputs and outputs across defined time periods, including cycle time and a closer look at the market processes*

July 2<sup>nd</sup> 2008

Version history:

Aug 2006	V1.0	TPTF approved
Jul 2008	V1.1	Update made based on MP feedback: - see red box in slide 5: “updated to T” changed to “updated to T-1”

## OBJECTIVES:

1. Establish a common understanding of Nodal inputs and outputs from a time-based perspective.
2. Understand the end-to-end timeline of the Nodal market.
3. Provide a high-level view of the volume of Nodal interfaces.

## ASSUMPTIONS:

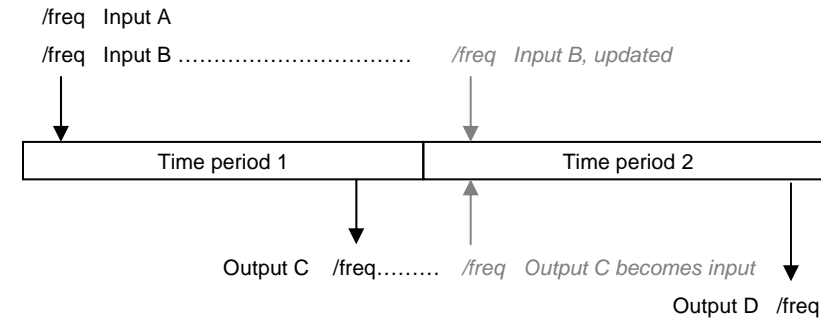
1. The **naming** of inputs/outputs follow protocols as best possible, and may be subject to change/re-categorization when the data dictionary is defined.
2. These diagrams may include **design** decisions that are not specified in Nodal protocols.
3. These diagrams may not include all the **exceptions** or alternative scenarios.
4. Processes and information from **retail** processes are not included.
5. Information specific to PUCT or protocol mandates, such as “**post to MIS**”, are not reflected in this document as of yet (TBD).
6. The **network models** are distinct but “as much as practicable, have information consistent with the Network Operations Model”, as specified in the protocols. They include the Network Operations Model (DAM and RT each have a separate version), CRR Network Model and the Annual Planning Model.
7. The **settlement point prices** (SPPs) and **aggregated base points** are calculated by MMS, not settlements.
8. Any required **reporting, extracts and analyses** are represented here under “extracts and reports (all)”, and include compliance, monitoring, generation and load, settlement and billing, system operations and market operations.
9. The **CRR auction results** are represented and updated as part of the ownership records.
10. Cycle time for **financial payments** (and **invoices** for late fees, etc.) are not reflected.
11. The “asset and entity application” includes the **resource parameters**.
12. The “Notification of Suspension of Operations” may, but does not necessarily, result in an **RMR agreement**.
13. Certain external financial inputs– such as FIP and FOP, or other financial information needed to assess the Market Participant’s ability to participate in the markets- are not represented in the baseline.

## TIME PERIODS:

- “**Long term planning**” = far in advance or annual processes
- “**Before day ahead**” = months/days before the “Day Ahead”
- “**Day Ahead**” = the day before the Operating Day (today)
- “**Up to end of Adjustment Period**” = today up till end of Adjustment Period (**incl. last H-RUC**)
- “**Operating Hour**” = the current hour (“T”, in protocols)
- “**After**” = after Operating Day

## LEGEND:

### 1. Baseline view – high level inputs and outputs for each time period, with their cycle times

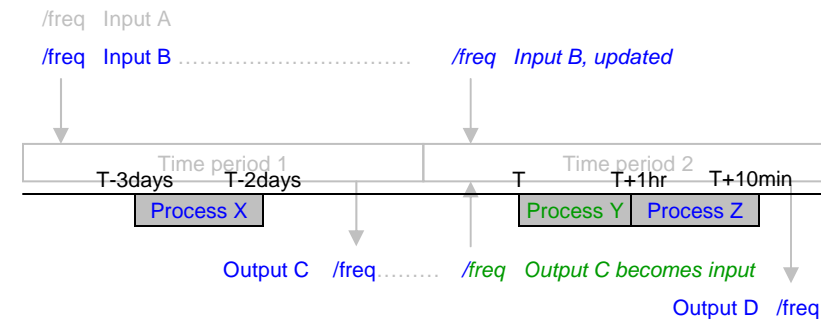


e.g. “/mon” = information is created, updated, or just used **every month**

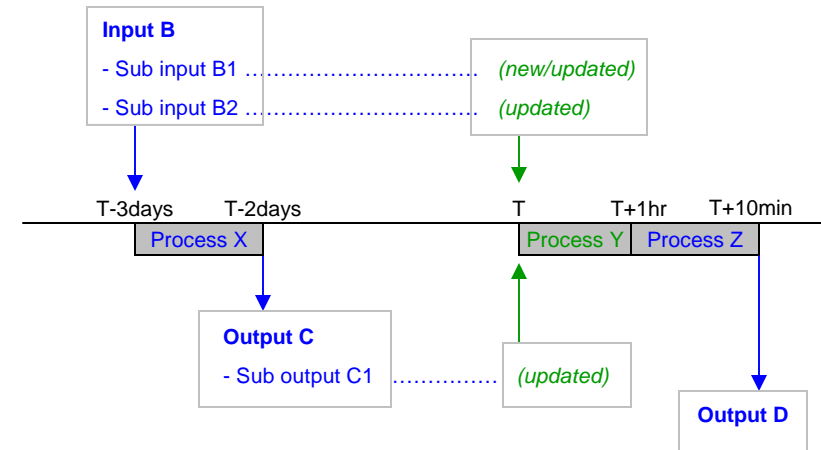
*Grey Italics* = generally mean that it is a previous input/output that is an **input** into another time period

Black = the **FIRST** time the information appears

### 2. Market timeline – the market timeline super-imposed on the baseline; key inputs/outputs highlighted



### 3. Market timeline (a closer look) – a drilldown of highlighted inputs and outputs from 2.



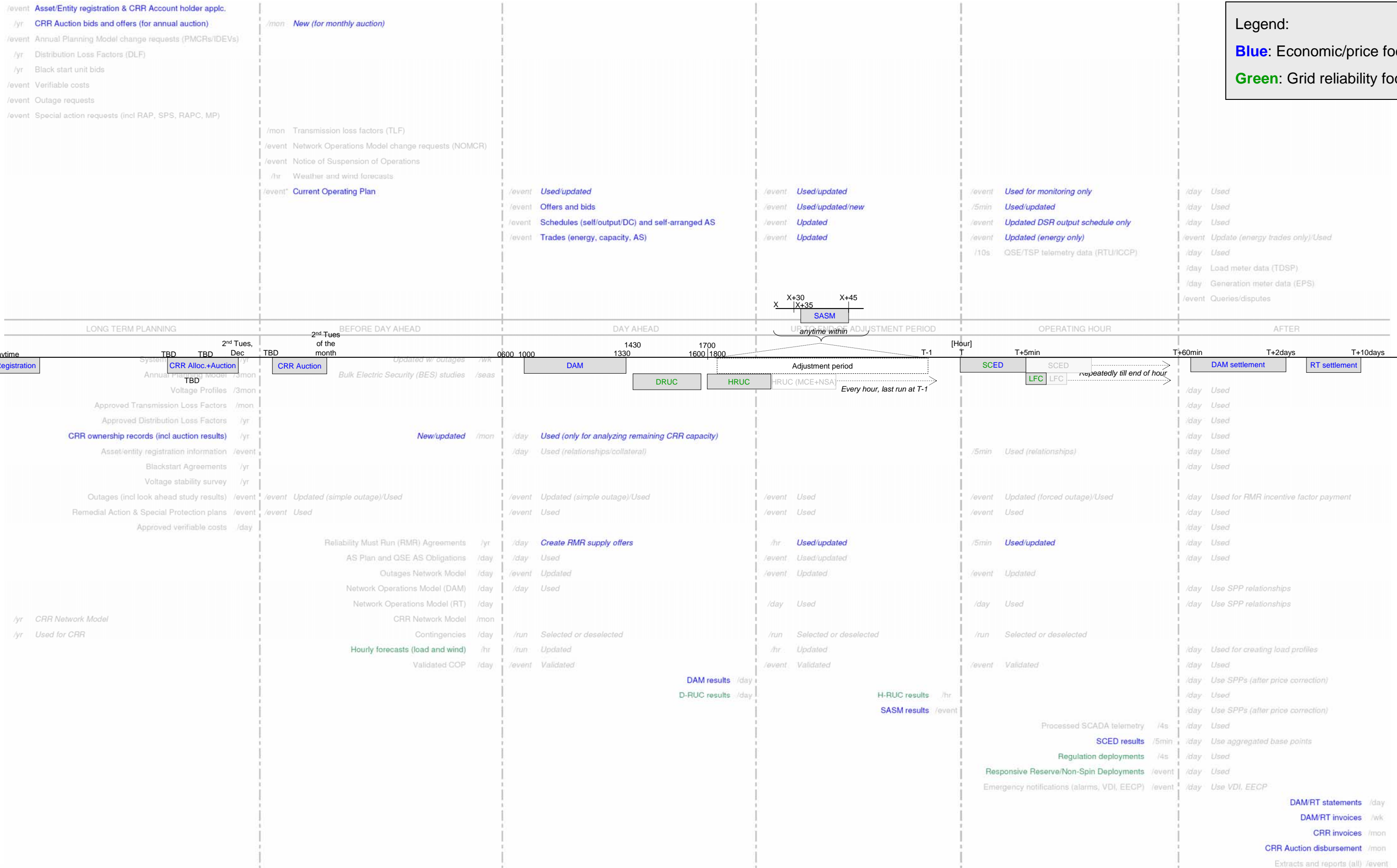
### 4. Market participant interface points

– cycle time of baseline information that needs to interact (including “post to MIS”) with market participants - currently available separately. (TBD)

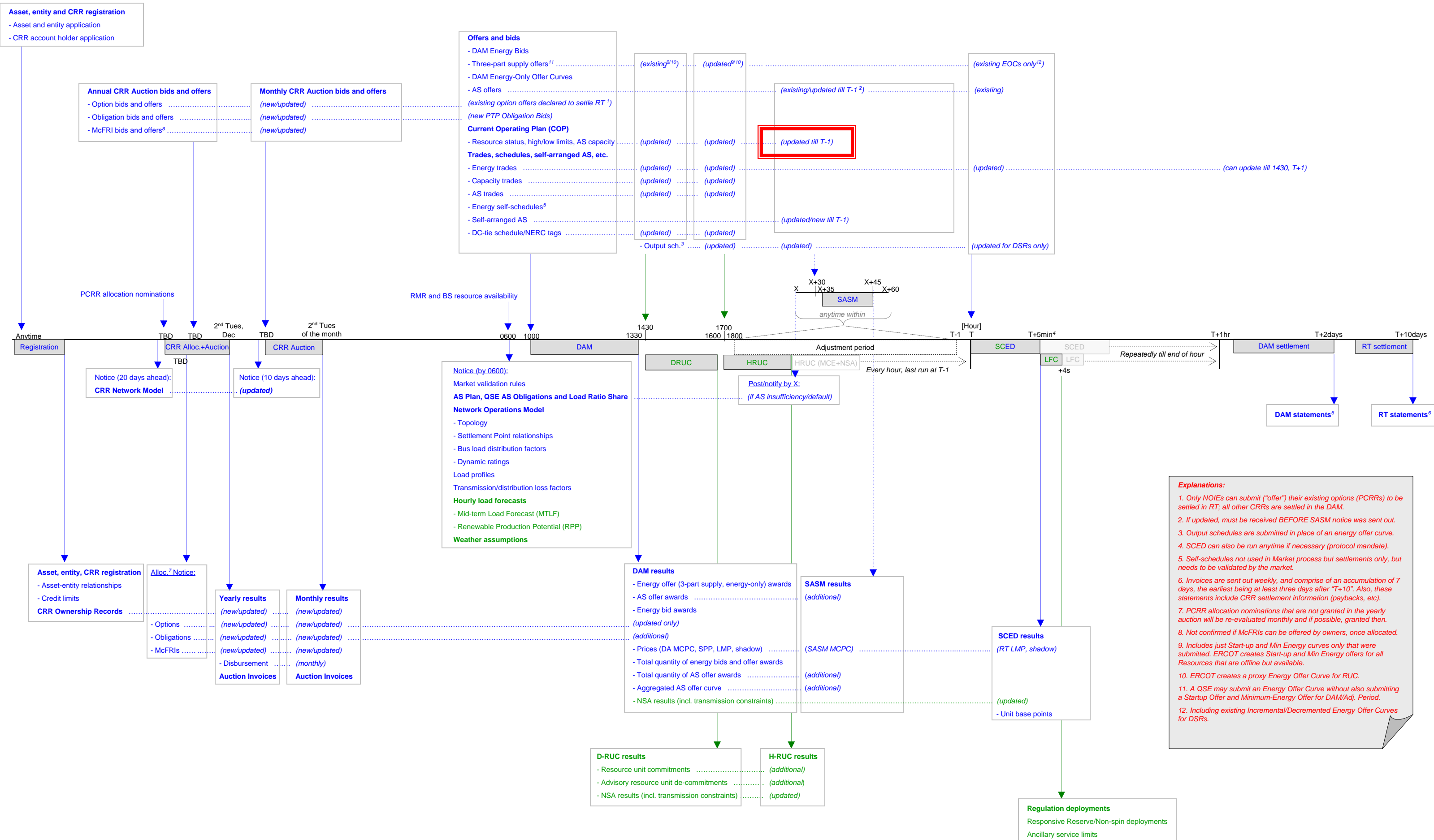
# Baseline view – all high-level inputs and outputs for each time period, including cycle-times



# Market timeline – the market timeline super-imposed on the baseline; key inputs/outputs highlighted



# Market timeline (a closer look) – A drill-down of some market timeline information (refer to previous slide)



**Explanations:**

1. Only NOIEs can submit ("offer") their existing options (PCRRs) to be settled in RT; all other CRRs are settled in the DAM.
2. If updated, must be received BEFORE SASM notice was sent out.
3. Output schedules are submitted in place of an energy offer curve.
4. SCED can also be run anytime if necessary (protocol mandate).
5. Self-schedules not used in Market process but settlements only, but needs to be validated by the market.
6. Invoices are sent out weekly, and comprise of an accumulation of 7 days, the earliest being at least three days after "T+10". Also, these statements include CRR settlement information (paybacks, etc).
7. PCRR allocation nominations that are not granted in the yearly auction will be re-evaluated monthly and if possible, granted then.
8. Not confirmed if McFRIs can be offered by owners, once allocated.
9. Includes just Start-up and Min Energy curves only that were submitted. ERCOT creates Start-up and Min Energy offers for all Resources that are offline but available.
10. ERCOT creates a proxy Energy Offer Curve for RUC.
11. A QSE may submit an Energy Offer Curve without also submitting a Startup Offer and Minimum-Energy Offer for DAM/Adj. Period.
12. Including existing Incremental/Decremental Energy Offer Curves for DSRs.