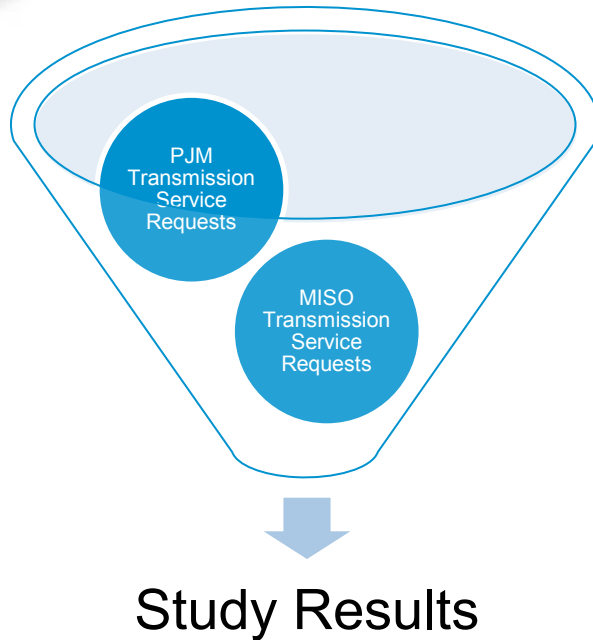





TSR Proposals



- PJM and MISO study processes differ in the timing for the completion of the studies needed to identify impacts to the respective systems and proposal of upgrades for granting service
- In order for customers to achieve their desired results it is necessary to obtain service in both MISO and PJM

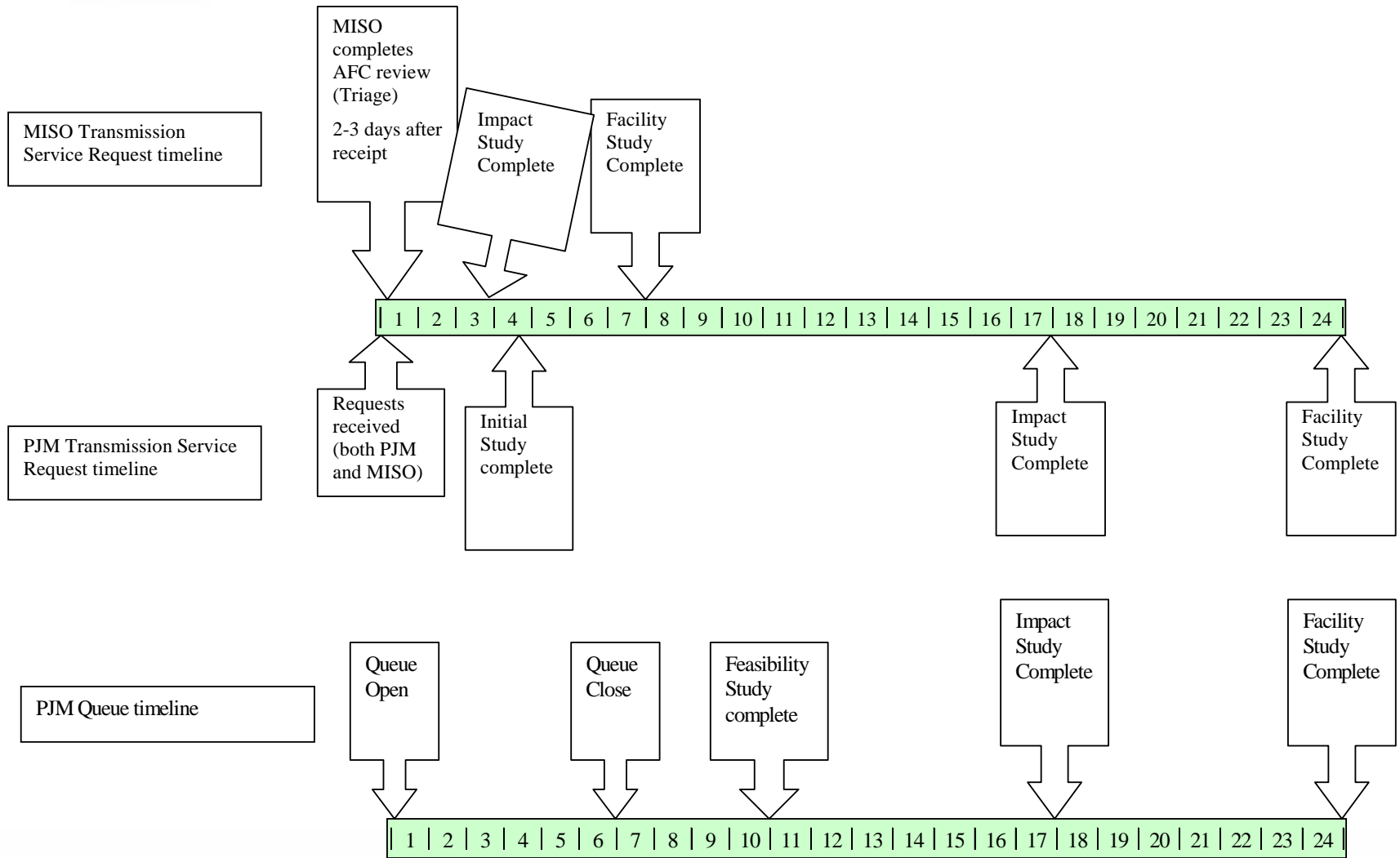
With an eye towards minimizing changes to our respective Tariffs...

How can we align the completion of the results?

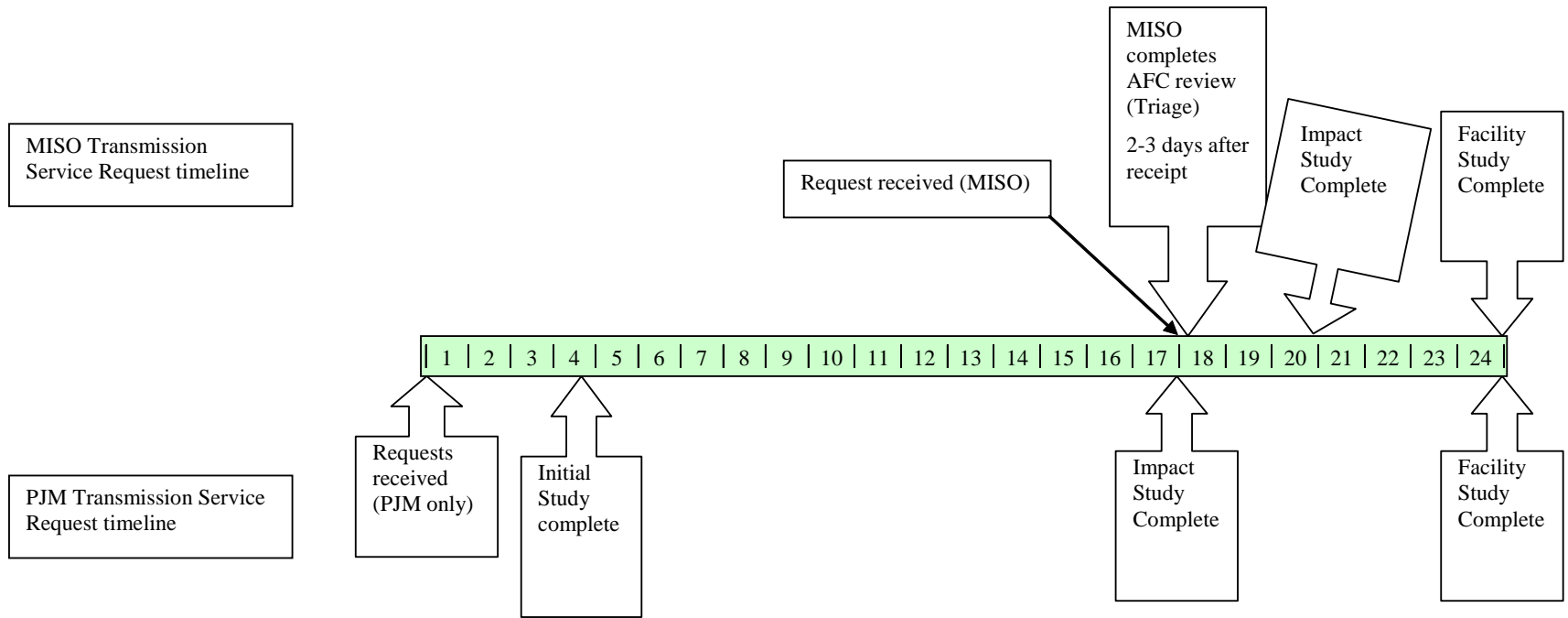
- 
1. Customer submits transmission service request on OASIS
 2. PJM to assign Queue Number and provide Application and Initial Study Agreement within 30 days **[typically done in 5 business days or less]**
 3. Customers has 15 days to execute
 4. PJM has 60 days to perform Initial Study and provide results **[typically done in 30 business days or less]**
 1. No issues – customer may confirm or withdraw request
 2. Constraints – PJM provides System Impact Study agreement
 5. Customer has 30 days to execute System Impact Study Agreement
- PJM Tariff allows for 90 days to provide application and Initial Study results. **This process typically takes 35 days.**

1. **Customers delays providing application to MISO for service in MISO until PJM Impact Study is completed**
 2. **Customers apply to both PJM & MISO at same time and PJM moves directly to the Impact Study after PJM queue closes (assumes Initial Study complete)**
 3. **Customers apply to both PJM & MISO at same time and PJM moves directly to the Impact Study before PJM queue closes (assumes Initial Study complete)**
 - To accommodate this it will be necessary to modify PJM cost allocation rules. Current rules relating to upgrade costs estimated at less than \$5M are shared by all projects in the queue
- **In all proposals a reduction in the timing associated with the completion of the PJM initial study may be incorporated in the final solution**

Current timelines

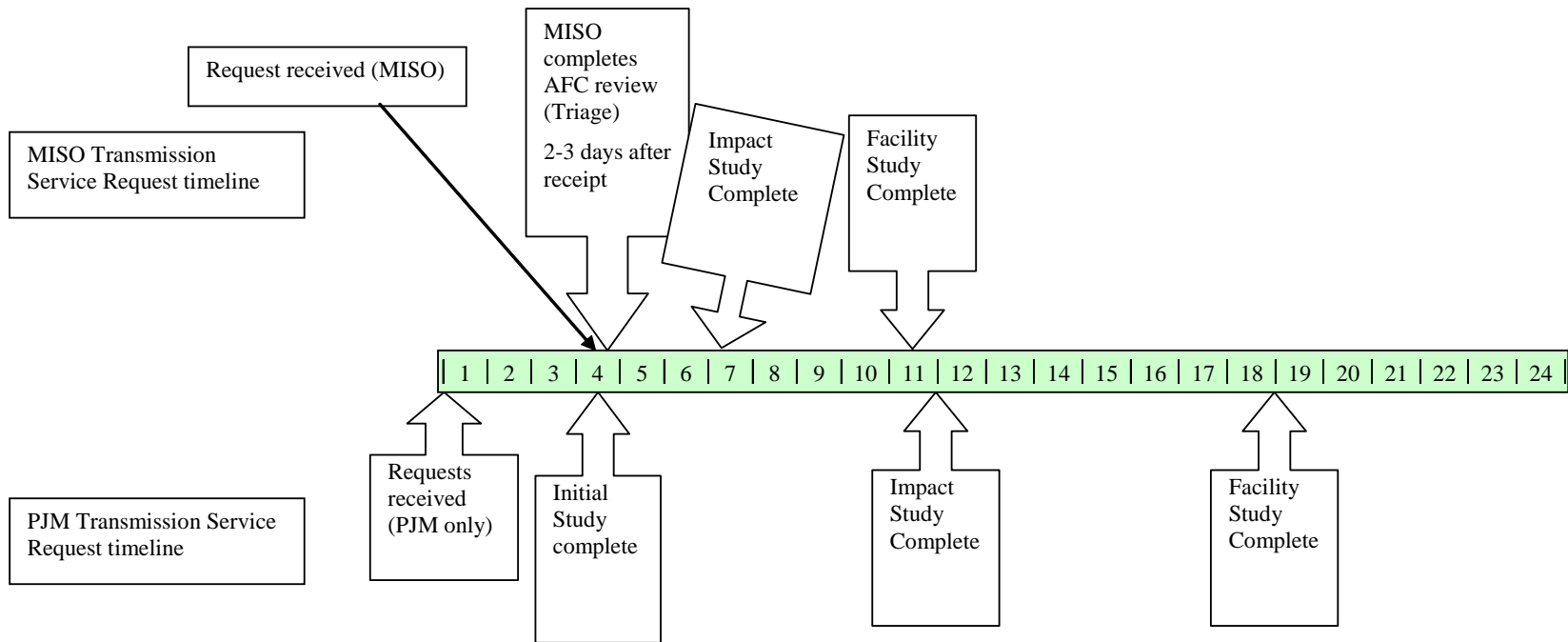


Customer delays submitting application in MISO until PJM SIS complete



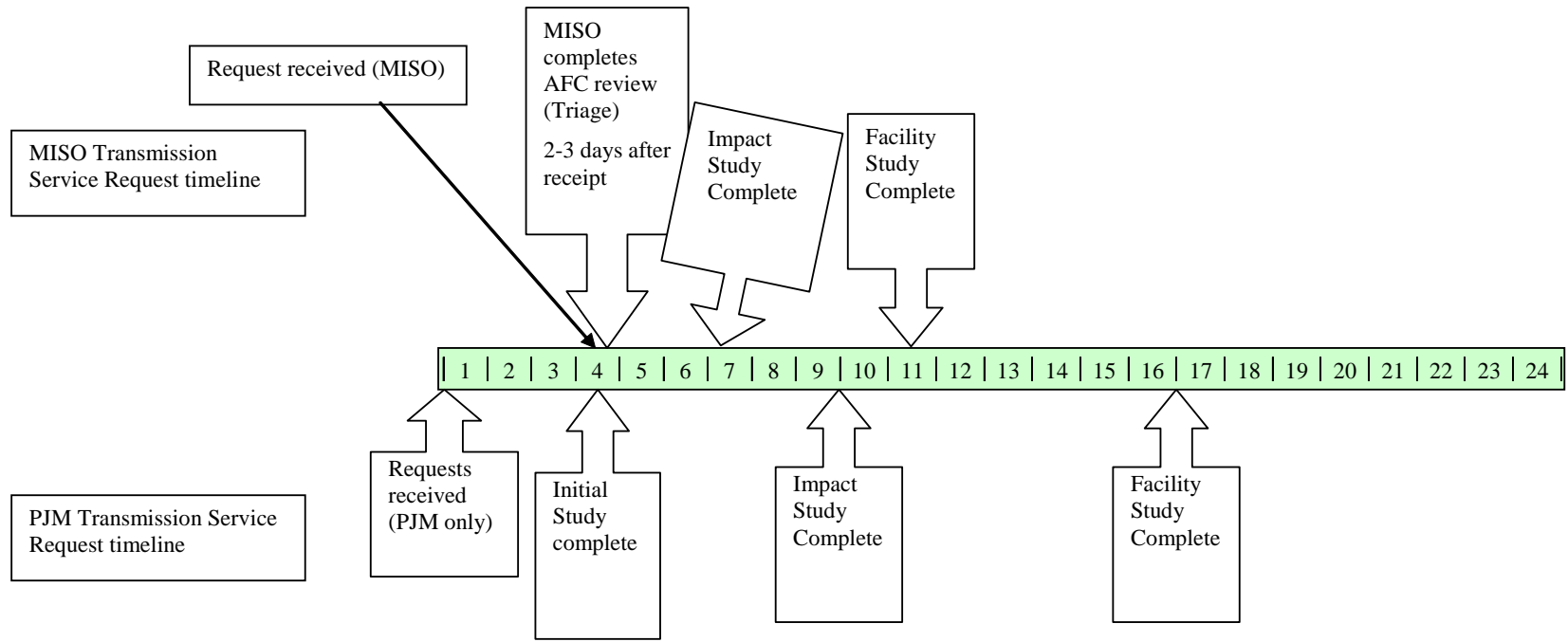
- No changes required to either PJM or MISO Tariff and Manuals

PJM commences Impact Study for TSR customers after PJM queue closes & customer delays submitting application to MISO



- Customer accepts additional risk of upgrades which may be specified due to timing of study
 - PJM must model all requests in PJM’s queue as they have not withdrawn which could result in an increased number of overloads identified
- Does not require PJM Tariff change

PJM commences Impact Study for TSR customers before PJM queue closes & Customer delays submitting application to MISO



- Customer accepts additional risk of upgrades which may be specified due to timing of study
 - PJM must model all requests in PJM’s queue as they have not withdrawn which could result in an increased number of overloads identified
- Requires PJM Tariff change due to cost allocation impacts