PAC Action 1205

March 2020

Context

- PAC Action 1205 called for the CDSP to provide "*supporting articulation i.e. 'what is going on' in the PARR Report Dashboard.*"

- This slide deck provides the business rules being applied

Read Performance

Class 1 and Class 2

Reporting done at M-1

Logic Flow:
1.   Fetch all MPRNs which are live per month till D-5

2.   For each of the MPRNs, get all actual reads received per day per month

3.   Sum up the actual reads count (from point 2) per month

4.   The expected reads per month is calculated by:

Expected reads = Sum of (Number of MPRNs live each day)

Read Performance per Month = Actual Reads in that month (from point 3 above) / Expected Reads in that month (from point 4 above)

5.   This will be displayed as a month on month trend

Class 3

Reporting done at M-1

 Logic Flow:

1. Fetch all MPRNs which are live per month till last day of M-1

2. For each of the MPRNs, get the number of actual reads received per day per month

3. Sum up the actual reads count per month

4. Expected reads is calculated as follows:

Expected reads = Number of days for which the Class 3 contract is live

Read Performance per Month = Actual Reads in that month (from point 3 above) / Expected Reads in that month (from point 4 above)

5. This is to be displayed as a month on month trend (currently no history information is available)

Class 4 – Monthly

Reporting done at M-2

Logic Flow:

1. Fetch all MPRNs which have the meter read frequency = M and are live within the month M-2

2. Only include MPRNs which satisfy the following conditions:

    a. MPRNs should have been with the same Shipper for the reporting period

    b. The Meter Read Frequency should not have changed

    c. The Class should not have changed

3. For each of the MPRNs get the number of actual reads received in that month

4. Exclude Shipper sent Estimated Reads

5. Sum up the actual reads count per month

6. Expected Reads in this case will be equal to the number of live MPRNs in that month

7. Read Perf per Month = Actual Reads in that month (from point 3 above) / Expected Reads in that month (from point 4 above)

8. This is to be displayed as a month on month trend

Class 4 – Annual

Reporting done at M-2

Logic Flow:

1. Fetch all MPRNs which have the meter read frequency = Half Yearly or Annual and are live within the month M-2

2. Only include MPRNs which satisfy the following conditions:

   a. MPRNs should have been with the same Shipper for past 14 months as of today's date

   b. The Meter Read Frequency should not have changed for past 14 months as of today's date

   c. The Class should not have changed for past 14 months as of today's date

3. For the overall portfolio, get the number of actual reads received (Shipper has till M-1 to send the read i.e. M-2 + 25 business days)

4. Get expected Reads in a month which will be the same as the MPRNs retrieved in point 2

5. Read Perf per Month = (Actual Reads in that month – point 3)/(Expected Reads in that month – point4)

6. This is to be displayed as a month on month trend

Estimated Reads Performance (Class 1 & 2 only)

Estimated Read Performance = (Total Number of Estimated Reads)/(Total Number of Expected Reads)

Reporting done for daily position following close-out (DDP will always show D-6 position). This view does not consider sites which do not have a meter attached to them.

1. Fetch all MPRNs which are live for the Shipper per month till D-6

2. For each of those MPRNs, till the D-6 position, get the latest read present for each day. The logic will identify if the latest read for each day is an actual read, estimated read or a better estimated read

3. Sum up the estimated reads count per month per MPRN (consider both estimate or better estimate whichever is the latest for that MPRN for that day)

4. Total number of Expected Reads per month will be Expected reads = Sum of (Number of MPRNs live each day)

5. Estimated Read Performance per month = (Number of Estimated Reads in that month: point 3)/(Total number of Expected Reads in that month: point4)

Check Reads

Class 1, 2, 3, 4 (monthly)

For Class 1,2,3,4 (monthly), the reporting will be done for M-2 position.
Logic Flow:

1. For Class 1, get all MPRNs where a DRE is installed.   Class 2,3 4 – Get all meter points where Remote Meter Reading Equipment (AMR) is installed

2. Check that the MPRNs have been with the Shipper for the last 14 months

3. If an MPRN (from the above list) has been with the current Shipper for less than a month, the obligation to submit a check read would still fall with that Shipper

4. Get the latest date on which the last Check Read was carried out for each of those meter points

5. If the time period between last check read date and the report run date is >14 months (as date is shown for M-2), the MPRN is a defaulter

6. The above data will be shown as a sum of counts for each month

Class 4 (Annual)

For Class 4 (Annual), the reporting will be done at M-2
Logic Flow:

1. Get all MPRNs where Remote Meter Reading Equipment (AMR) is installed

2. Check that the MPRNs have been with the Shipper for the last 26 months

3. If a Meter Point (from the above list) has been with the current Shipper for less than a month, the obligation to submit a check read still falls with that Shipper

4. Get the latest date on which the last Check read was carried out for each of those meter points

5. If the time period between last check read date and the report run date is >26 months (as date is shown for M-2), the MPRN is a defaulter

6. The above data will be shown as a sum of counts for each month

No Reads 1,2,3,4

Class 1,2,3 & 4

Reporting done for M-1 position

1.   Get all MPRNs in the Shipper's portfolio which do not have Status equal to Dead or Extinct as of the data load run date

2.   From the above list of MPRNs, get the set of MPRNs which have not had a read for more than a year

   e.g., if we are checking on 12.02.2020, it will check for all MPRNs whose last read date is less than (i.e. falls before) 12.02.2019.

3.   The MPRNs are then bucketed based on whether the last read date falls into 1 year, 2 years, 3 years or 4+ years category

   e.g., MPRNs having

   1 year – MPRNs with last read date from 12.02.2018 – 12.02.2019

   2 years – MPRNs with last read date from 12.02.2017 – 11.02.2018

   3 years – MPRNs with last read date from 12.02.2016 – 11.02.2017

   4 + years – MPRNs last read date is before 11.02.2016

Transfer Read Performance

Class 1,2,3,4 – Data displayed for M-1 (where M – report run month)

Reporting done at M-1

1. Get the total list of MPRNs which have had switches in M-1 where the switch is Confirmed and live (switch type = 30, Switch view = 10 and Switch Status = live)
2. For each MPRN retrieved in point 1, check for presence of opening meter read received from the confirmation date (move-in date) + 10 Business days. The read should be a valid opening meter read with uploaded status. (Read Reason = OPNT/O and Status = U (Uploaded/Accepted))
3. All the MPRNs for which we find a read satisfying the condition in point 2 are the ones that have met the Transfer read obligation. The remaining MPRNs are to be treated as defaulters

Standard Correction Factor

Class 1,2,3,4 – Data displayed for M-1 (where M – report run month)

1. Fetch all live MPRNs per month in the portfolio that have AQ > 732000 KWH or AQ = 732000 KWH
2. Fetch the Correction Factor for the MPRNs
3. If the Correction factor is equal to 1.02264 which is the default correction factor, these MPRNs need to be reported as they should be having a specific correction factor (non-standard).
4. Aggregate the portfolio count (MPRN) per month and display on the report as a trend

No Meter Recorded in the Supply Point Register but Data Flow Received

Class 1,2,3,4 – Data displayed for M-1 (where M – report run month)

No Meter Recorded in the Supply Point Register but Data Flows Received

1. Get all sites which are Live on the first of the current month but have No Meter Serial Number attached (meter serial number is blank)
2. If for any of those sites, the confirmation date is less than 6 months from the report run date, exclude those sites
3. If a meter has been removed at any of these sites in the past 6 months from the report run date and meter status is live, exclude these sites
4. Check for the above list of MPRNs if there has been any data flow. We are checking for Reads, RGMA and Connection/Disconnection type of flows.

5. Split the MPRNs by Class (1,2,3,4) and display the count of MPRNs month-wise (rolling view)

No Meter Recorded in the Supply Point Register

Class 1,2,3,4 – Data displayed for M-1 (where M – report run month)

No Meter Recorded in the Supply Point Register

1. Get all sites which are Live on the first of the current month but have No Meter Serial Number attached (meter serial number is blank)
2. If for any of those sites, the confirmation date is less than 6 months from the report run date, exclude those sites
3. If a meter has been removed at any of these sites in the past 6 months from the report run date and the meter status is live, exclude these sites
4. Split the MPRNs by Class (1,2,3,4) and display the count of MPRNs month-wise (rolling view)

Next Steps

- CDSP to publish business rules in appropriate place