



Managing Transmission Line Ratings

Technical Rating Communication implementation workshop

Various



Agenda

3:00-3:05 p.m.

Review Project milestones

Magaly Barajas-Roman

3:05 p.m.-3:30 p.m.

Review of Sandbox functionality

Joshua Bauer

3:30-3:50 p.m.

Review of API calls

Raj Sivakumar



HIGH LEVEL PROJECT MILESTONES



MTLR Limit Exchange Portal (LEP) External Milestones

	Key Dates	Functionality
LEP Operation(UI/API)	Oct. 18, 2024	Sandbox available with APIs, AARs, Seasonal Ratings, Temporary Ratings exceptions
LEP Operation	Dec. 4, 2024??	Sandbox update to include Local Transmission feature and bug fixes, if needed; Vendor is experiencing slight delays so this date may slip.
NX	April 30, 2025	Sandbox available
LEP Historical(Cloud)	March 31, 2025	Sandbox available
FERC 881 deadline	July 12, 2025	

[Refer to page:FERC Order No. 881: Managing Transmission Line Ratings \(MTLR\) \(iso-ne.com\)](https://www.iso-ne.com/regulatory-affairs/other-info/ferc-orders/ferc-order-no-881-managing-transmission-line-ratings)



LEP UI MISSING FEATURES / ISSUES



Cannot enter Forecast Ratings via UI

Seasonal Forecast Realtime

▼ LONGMTN.398.A Collapse All Expand All Update ⋮

Transmission Facility LONGMTN.398.A [🔗](#) Terminals Not available Connected substations - Voltage levels 345 - 345

Default 0 Invalid 0 Missing 0 Overwritten 0

No Filters Applied [Advanced Filters](#) 🔍 ⋮

Period Start ↑ Normal

Ability to enter in Forecast Ratings via the UI comes with a later release

No rows to display

Columns Filters

Issue: cannot enter Seasonal Ratings via UI

SeasonalForecastRealtime

▼ LONGMTN.398.A

Collapse AllExpand AllUpdate⋮

Transmission Facility
LONGMTN.398.A

Terminals
Not available

Connected substations
-

Voltage levels
345 - 345

Default
0

Invalid
0

Missing
0

Overwritten
0

No Filters Applied

Advanced Filters🔍⋮

Season	Period Start	Period End	Normal
Cannot enter Seasonal Ratings via the UI. Identified defect that needs to be fixed by GE.			
No rows to display			

ColumnsFilters

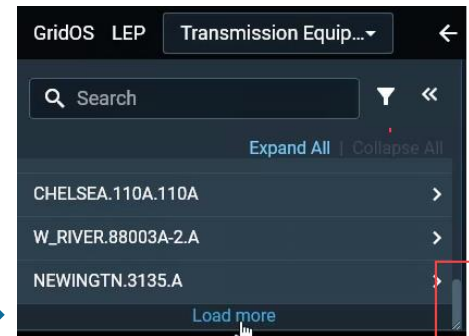
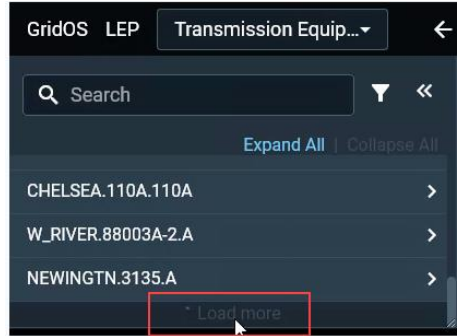
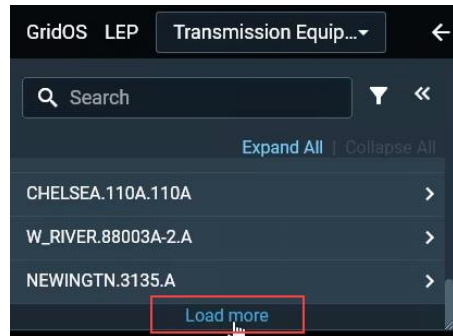
Transmission Equipment: Load More not working

Click on:



Transmission Equipment

View and update transmission facilities, and network segments.

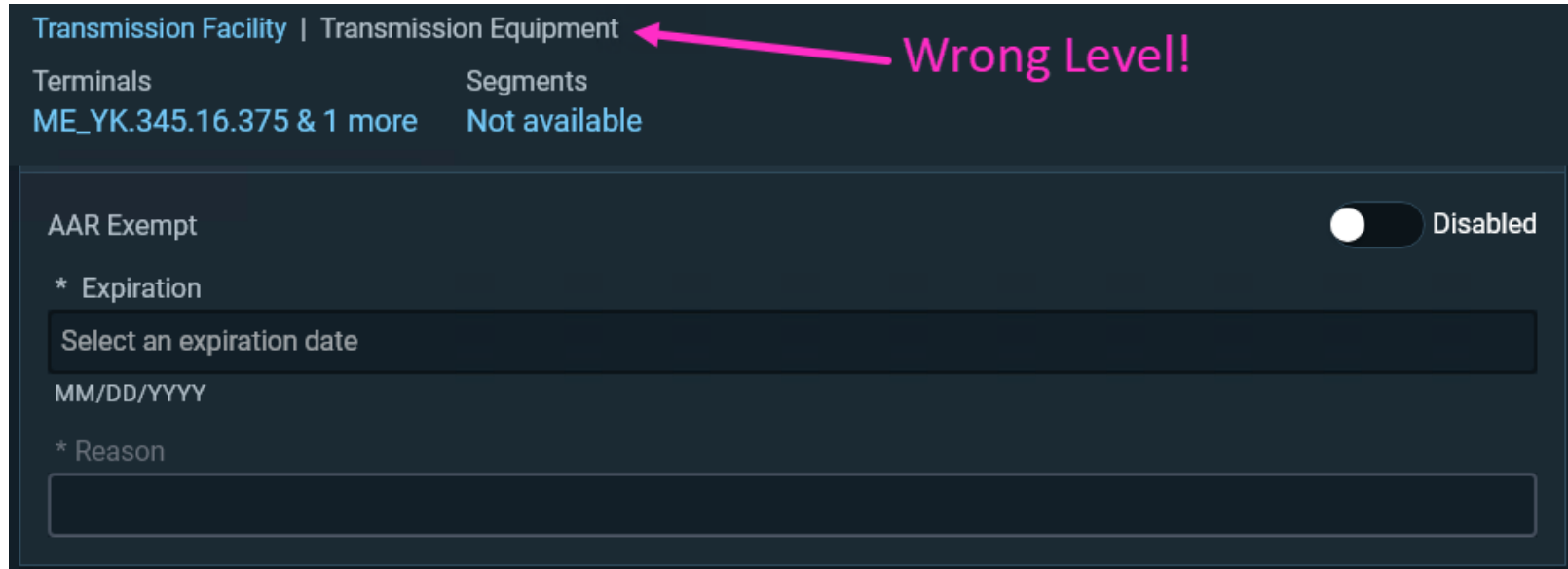


Clicking on “Load more” does not actually load more.



AAR Exempt – on the wrong equipment

- AAR Exempt should be captured on the individual equipment level (segment). It is currently associated with the wrong level



Transmission Facility | Transmission Equipment ← Wrong Level!

Terminals
ME_YK.345.16.375 & 1 more

Segments
Not available

AAR Exempt ☐ Disabled

* Expiration

Select an expiration date

MM/DD/YYYY

* Reason

Nominal Ratings – on the wrong equipment

- Nominal Ratings should be captured on the individual equipment level (segment). It is currently associated with the wrong level

Transmission Facility | Transmission Equipment

Terminals
ME_YK.345.16.375 & 1 more

Segments
Not available

Wrong Level!

Nominal Ratings ⓘ

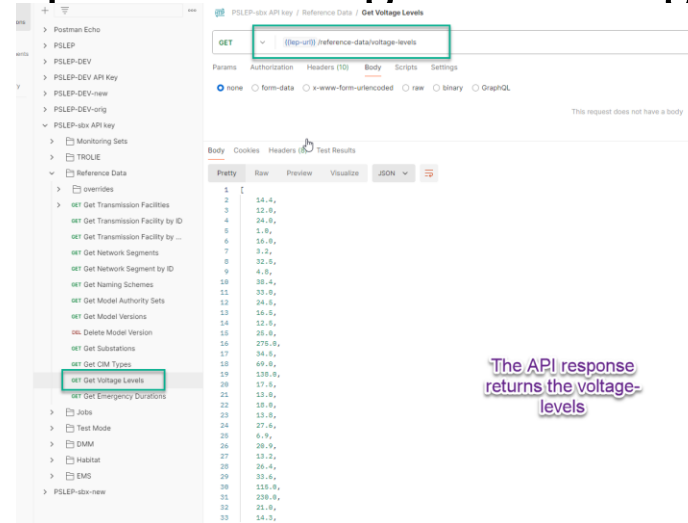
* Normal	* LTE
1424	1424
MVA	MVA
* STE	* DAL
1495	1796
MVA	MVA

LIMIT EXCHANGE PORTAL (LEP) API CALLS



LEP-Operations API

- <https://sandboxsmd.iso-ne.com/lep-operations/reference-data/voltage-levels>
- The above is an API example that brings the voltage-levels



LEP-Operations API (Get Transmission by ID)

- Here is a list of collection of LEP-operations API and “Get Transmission by ID” API on invocation

ISO

The screenshot displays a REST client interface with a sidebar on the left containing a list of API endpoints under the heading 'API collection'. The selected endpoint is 'GET Get Transmission Facility by ID'. The main panel shows the request details for the endpoint `GET ((lep-url)) /reference-data/transmission-facilities/id`. Below the request details, the response is shown in a 'Pretty' JSON format, indicating a '200 OK' status. The response body contains a JSON object with an 'id' and a 'names' array.

API collection

- PSLEP-DEV-new
- PSLEP-DEV-orig
- PSLEP-sbx API key
 - Monitoring Sets
 - TROIE
 - Operating Snapshots
 - Limits Forecast Snapshot
 - Limits Real Time Snapshot
 - Seasonal Rating Snapshot
 - Rating Proposals
 - Forecast
 - 50051-Forecast
 - 112-Forecast
 - Get Forecast Proposal Status
 - Real Time
 - Seasonal
 - Temporary AAR Exceptions
 - Seasonal Overrides
 - Reference Data
 - Overrides
 - Get Transmission Facilities
 - Get Transmission Facility by ID**
 - Get Transmission Facility by CIMRID
 - Get Network Segments
 - Get Network Segment by ID
 - Get Naming Schemes
 - Get Model Authority Sets
 - Get Model Versions
 - Delete Model Version
 - Get Substations
 - Get CIM Types

API response

```
{
  "id": "001820c6-8ea5-4a4a-b325-4eeb94575de9",
  "names": [
    {
      "type": "CIMHSID",
      "name": "001820c6-8ea5-4a4a-b325-4eeb94575de9"
    },
    {
      "type": "DYVURTGName1",
      "name": "230A"
    },
    {
      "type": "DYVURTGName2",
      "name": "230A"
    },
    {
      "type": "CIMName",
      "name": "230A"
    },
    {
      "type": "NETMONCompositeId",
      "name": "WALTHAM.230A.230A"
    }
  ]
}
```



Questions

