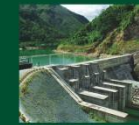




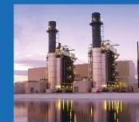
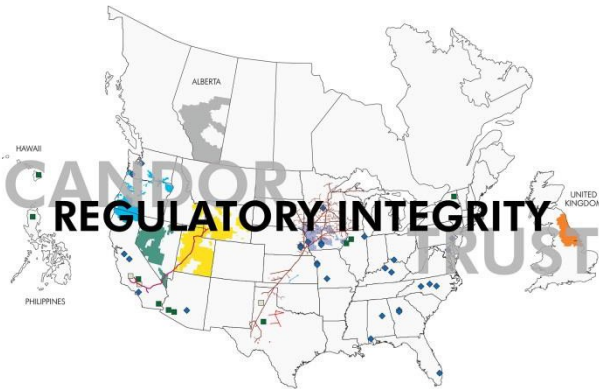
CUSTOMER SERVICE



EMPLOYEE COMMITMENT



ENVIRONMENTAL RESPECT



OPERATIONAL EXCELLENCE




BERKSHIRE FINANCIAL STRENGTH OWNERSHIP

Throughput Management System (TMS) User Training April 17, 2020

Overview



- Northern has updated its Throughput Management System (TMS) from a Smalltalk to a Java (web-based) application.
- TMS is the main application customers use to nominate, confirm and scheduled quantities on Northern's pipeline.
- Basic functionality and makeup is similar to the previous version in order to remain consistent when conducting business on Northern; however, new features and enhancements have been included.



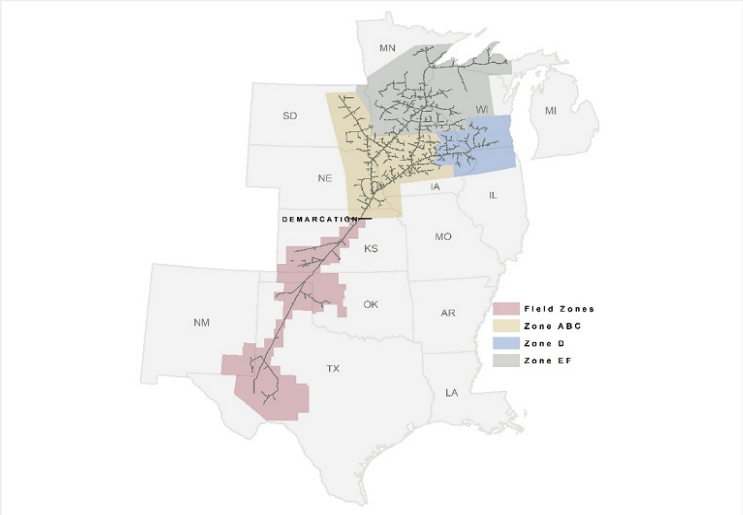
TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

MainNominationConfirmationScheduled QuantityStorage

Welcome: USER SMITH

Dashboard

Welcome to Northern's Throughput Management System (TMS)



Field Zones

- Zone ABC
- Zone D
- Zone EF

External Links

Operational Information

- [Allocation of Capacity Overview](#)
- [At a Glance](#)
- [Operationally Available Capacity](#)
- [Operationally Available Capacity Map](#)

Business Applications

- [Business Applications Portal](#)
- [Flowing Gas Reports](#)
- [Operational Data Interchange \(ODI\)](#)

Supporting Information

- [Agreements/Forms](#)
- [Contact Us](#)
- [Tariff](#)
- [Training Materials](#)

Billing Information

- [Invoicing and Imbalance Resolution/Trading Dates](#)
- [Monthly Index Price](#)

If you have any scheduling questions, please contact your customer service representative.

Overview

(continued)



New features:

- Predictive Select functionality is offered for location, service requester/operator and contract fields. The previous five selected values will automatically be displayed.
- Redesigned grouping, sorting and column filtering feature
- Redesigned nomination copy feature with the ability to copy all nominations or select specific nominations
- Newly added or edited nomination will appear in **blue** text, then change to **black** when submitted
- New function for **Nomination Reconciliation** that provides the user the ability to access **Nomination Maintenance** to add, change or delete a nomination
- New hyperlink feature within **Cycle Process Status** screen to allow the user to quickly view the allocation notice(s) for the selected Gas Day/Cycle
- Ability to select **All (view only)** to view all the nominations at once when the user enters an aggregated pooling contract

Overview

(continued)



Enhancements:

- User has the ability to view preliminary scheduled quantities during each cycle process: balancing, allocations and confirmations
- Enhanced Reduction Reason Detail screen that will allow a user to view reductions on its contracts after each process: balancing, allocations and confirmations
- Two storage netting screens: one to setup storage netting and one to view storage netting activity
- Redesigned view for EDI processing
- Single screen to view storage contract balances
- New inbox feature to view current TMS notification(s)
- New Dashboard screen that includes several helpful hyperlinks to external webpages
- Eighteen months of history will be viewable (previously twelve months)

Training Materials



- Training materials available on Northern Natural Gas Website: www.northernnaturalgas.com
- Support Tab – Training Materials and TMS Training Videos

A screenshot of the Northern Natural Gas website. The header features the company logo on the left, followed by contact information for Pipeline Emergency, General Information, and Technical Helpdesk. Below this is a navigation bar with various tabs. The 'Support' tab is highlighted with a red circle, and a red arrow points to it. A dropdown menu is open under 'Support', listing various services. The 'Training Materials' and 'TMS Training Videos' items are highlighted in yellow. The background of the page shows a large industrial gas pipeline.

Northern Natural Gas
A BERKSHIRE HATHAWAY ENERGY COMPANY

Pipeline Emergency
888-367-6671

General Information
877-654-0646
402-398-7200

Technical Helpdesk
866-810-5268
402-398-7664

Informational Postings Customer Activities News Safety and Public Awareness **Support** Regulatory Expansion Projects About Us Careers Contact Us Search

Support Overview
Agreements / Forms
Allocation of Capacity
Application Support
Change Password
Contract Cross Reference (DUNS Lookup)
Customer Presentations
EDI Services
Feedback Form
FAQs
Notification and Security Administration
Training Materials
TMS Training Videos

Northern is committed to providing the highest quality natural gas service. We work closely with our customers to discuss business needs and define solutions. Northern provides a variety of resources that improve the business of our customers.

Training Materials


(continued)



- **Training Materials**
 - Throughput Management System (TMS) User Manual
 - TMS Quick Tips
 - Model Office Testing Environment (Login/Password same as production)
 - <https://testing-comapps.northernnaturalgas.com/businessapps/welcome.html>
- **TMS Training Videos**
 - Dashboard, Inbox and Navigation
 - EDI Processing
 - Filtering, Grouping and Sorting Data
 - Nomination Copy
 - Nomination Quantities by Cycle
 - Nomination Reconciliation
 - Preliminary Scheduled Quantities and Reduction Reason Detail
 - Search and Advanced Search
 - Storage Contract Balance
 - Storage Netting

Quick Tips
















- To open more than one session of TMS:
 - Click on the **Menu** item
 - Right click on the desired destination
 - Click “**Open in New Tab**”
- TMS will automatically logout inactive user after two hours; to prevent this, a user can open a tab for **Cycle Process Status**, which automatically refreshes every 30 seconds resulting in your session remaining active
- All fields with a **red** asterisk “*” are required fields
- New nomination paths are **blue** in color; paths will change to **black** once submitted
- When entering a Svc Req K, TMS holds the previous five contracts that have been used
- If a user wants to have two different contracts open at the same time
 - Select Nominations, Nomination Maintenance, right click and select **Open in New Tab**
- In the **Cycle Process Status** screen, a **blue** hyperlink indicates either Throughput or Storage service was allocated. Select the hyperlink to access the non-critical notice for the selected cycle allocation.
-  **Envelope** button in the upper right portion of each screen displays the number of active messages (e.g. timeline extension) that Northern has distributed. The number in red reflects the number of unread messages.

Quick Tips

(continued)



-  **Reset** button, which appears on each screen, allows a user to revert visual changes made to the screen (e.g., grouping, sorting, width of a column) back to the original state.
-  **Export** button, which appears on each screen, allows a user to export the data on the screen as a CSV or Excel file.
-  **Ellipsis option**, located to the right of the **Retrieve** button, allows a user to open related screens associated to the underlying screen.
- Using  on the Nomination Maintenance screen, allows a user to select:
 - **Open New** to open nomination maintenance
 - **Open NomQ** to open nominated quantities by cycle screen
 - **Open SchQ** to open scheduled quantities screen
 - **Open NomR** to open the nomination reconciliation screen.
-  **Collapse** button collapse a portion of the screen
-  **Expand** button expands the previously collapsed portion of a screen
-  **Information** button: select to open the location detail information
-  Select to open the corresponding upstream or downstream contract
-   Hover over any column heading to display the **Column Header Menu**. This provides the user with several options:
 - Select  to pin (move) or autosize a column(s)
 - Select  to choose filtering options
 - Select  to choose what column(s) appear. To filter out unwanted columns, check the box.





Quick Tips

(continued)



- To group data within a grid, user can simply grab and drag a column header to the row above the header where **[Drag here to set row groups]** is displayed.



- When grouping:
 - Select  to the left of a group to see records for just that group
 - Hover over the column heading, select  and select **Expand All** to see all records
- Upon selecting a grid row for a contract there are additional buttons within the grid entry (PRIMARY REC LOCS, PRIMARY DEL LOCS, EPSQ, RATES, R/D TOTALS and MDQ USAGE). Once selected a new screen will launch with additional information.
-  **Grid Entry Form** button: Users may choose information to be displayed in the grid entry form by selecting this button. Click on the button to disable the grid entry form. Click again and the form will open.
 - Use the “Tab” key to navigate through the value fields within the grid entry form.
-  **SBS** button: select to see the storage balancing contract and the associated transportation contract. If a user does not have SBS, this button will not appear.

TMS Navigation Tabs



TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

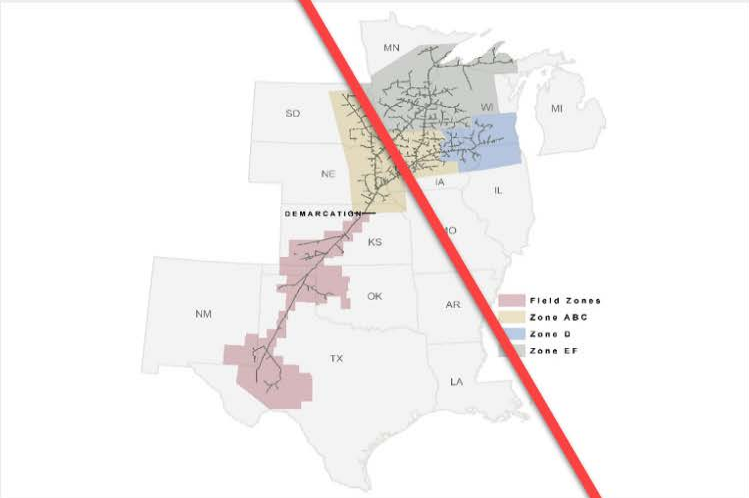
Timer: Off Prod Mode: Yes Nom Cycle: Final A.M.

Welcome: USER SMITH

Dashboard

Main Nomination Confirmation Scheduled Quantity Storage

Welcome to Northern's Throughput Management System (TMS)



External Links

Operational Information

- [Allocation of Capacity Overview](#)
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- [Flowing Gas Reports](#)
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- [Tariff](#)
- [Training Materials](#)

Billing Information

- [Billing Information/Trading Dates](#)

Main	Nomination	Confirmation	Scheduled Quantity	Storage
Dashboard	Nomination Maintenance	Confirmation Maintenance	Scheduled Quantities	Storage Contract Balance
Cycle Process Status	Nomination Copy	Confirmation Summary	Scheduled Quantities Month To Date	Storage Netting Activity
EDI Processing	Nomination Quantities By Cycle	Location Reconciliation	Scheduled Quantities By ▾	Storage Netting Maintenance
	Nomination Reconciliation	Late Nomination Notification	Reports ▾	Storage Information
	Final A.M. Nomination List			Reports ▾
	Zone Percentages			
	Reports ▾			

Main – TMS Dashboard



Dashboard

- This is the Throughput Management System (TMS) home page.
- **External Links** located on the **Dashboard** provide a central location to access **Operational, Information, Business Applications, Supporting Information** and **Billing Information**. Each external link will open a new browser window for the selected application.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage Dashboard

Welcome to Northern's Throughput Management System (TMS)

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- [Monthly Index Price](#)

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Main – Cycle Process Status




- This screen provides the user a view of the processed cycles for a given gas day and replaces the Batch Schedule Status screen. Three successive gas days (prior, current and next day) will be displayed. The cycles identify which process has completed or is currently processing.
- To view this screen, select **Main** and then **Cycle Process Status**.
- When Throughput or Storage service is allocated, the user can select the hyperlink in **blue** located within each cycle which will take you to the non-critical notice for that cycle to see the point(s) or group(s) that were allocated. Screen refreshes automatically every 30 seconds.

TMS TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY			
Main Nomination Confirmation Scheduled Quantity Storage			
Gas Day: 02/19/2019			
Retrieve			
Gas Day: 02/18/2019			
Cycle	Start Date/Time	End Date/Time	
Timely Cycle			
Cycle Started	02/17/2019 12:00 AM	02/17/2019 1:25 PM	
Balancing Completed	02/17/2019 12:00 AM	02/17/2019 1:31 PM	
Throughput Allocated	02/17/2019 12:00 AM	02/17/2019 1:58 PM	
Confirmations Completed	02/17/2019 12:00 AM	02/17/2019 4:38 PM	
Storage Allocated (Withdrawal)	02/17/2019 12:00 AM	02/17/2019 4:51 PM	
Cycle Completed	02/17/2019 12:00 AM	02/17/2019 4:52 PM	
Notifications Completed	02/17/2019 12:00 AM	02/17/2019 4:56 PM	
Evening Cycle			
Cycle Started	02/17/2019 12:00 AM	02/17/2019 6:25 PM	
Balancing Completed	02/17/2019 12:00 AM	02/17/2019 6:30 PM	
Throughput Not Allocated	02/17/2019 12:00 AM	02/17/2019 6:38 PM	
Storage Allocated (Withdrawal)	02/17/2019 12:00 AM	02/17/2019 6:45 PM	
Confirmations Completed	02/17/2019 12:00 AM	02/17/2019 8:41 PM	
Cycle Completed	02/17/2019 12:00 AM	02/17/2019 8:42 PM	
Notifications Completed	02/17/2019 12:00 AM	02/17/2019 8:46 PM	
Non-Grid A.M. Cycle			
Cycle Started	02/18/2019 12:00 AM	02/18/2019 7:25 AM	
Balancing Completed	02/18/2019 12:00 AM	02/18/2019 7:31 AM	
Throughput Not Allocated	02/18/2019 12:00 AM	02/18/2019 7:35 AM	
Storage Allocated (Withdrawal)	02/18/2019 12:00 AM	02/18/2019 7:42 AM	
Confirmations Completed	02/18/2019 12:00 AM	02/18/2019 8:10 AM	
Cycle Completed	02/18/2019 12:00 AM	02/18/2019 8:11 AM	
Notifications Completed	02/18/2019 12:00 AM	02/18/2019 8:15 AM	
Intraday 1 Cycle			
Cycle Started	02/18/2019 12:00 AM	02/18/2019 10:35..	
Balancing Completed	02/18/2019 12:00 AM	02/18/2019 10:44..	
Throughput Not Allocated	02/18/2019 12:00 AM	02/18/2019 10:53..	
Storage Allocated (Withdrawal)	02/18/2019 12:00 AM	02/18/2019 11:00..	
Confirmations Completed	02/18/2019 12:00 AM	02/18/2019 12:42..	
Profile Downloaded 02/18/2019 11:00 AM 02/18/2019 11:00 AM			
Gas Day: 02/19/2019			
Cycle	Start Date/Time	End Date/Time	
Timely Cycle			
Cycle Started	02/18/2019 12:00 AM	02/18/2019 1:25 PM	
Balancing Completed	02/18/2019 12:00 AM	02/18/2019 1:30 PM	
Throughput Allocated	02/18/2019 12:00 AM	02/18/2019 2:05 PM	
Confirmations Completed	02/18/2019 12:00 AM	02/18/2019 4:37 PM	
Storage Allocated (Withdrawal)	02/18/2019 12:00 AM	02/18/2019 4:51 PM	
Cycle Completed	02/18/2019 12:00 AM	02/18/2019 4:52 PM	
Notifications Completed	02/18/2019 12:00 AM	02/18/2019 4:56 PM	
Evening Cycle			
Cycle Started	02/18/2019 12:00 AM	02/18/2019 6:25 PM	
Balancing Completed	02/18/2019 12:00 AM	02/18/2019 6:29 PM	
Throughput Not Allocated	02/18/2019 12:00 AM	02/18/2019 6:33 PM	
Storage Allocated (Withdrawal)	02/18/2019 12:00 AM	02/18/2019 6:38 PM	
Confirmations Completed	02/18/2019 12:00 AM	02/18/2019 8:40 PM	
Cycle Completed	02/18/2019 12:00 AM	02/18/2019 8:41 PM	
Notifications Completed	02/18/2019 12:00 AM	02/18/2019 8:45 PM	
Non-Grid A.M. Cycle			
Cycle Started	02/19/2019 12:00 AM	02/19/2019 7:25 AM	
Balancing Completed	02/19/2019 12:00 AM	02/19/2019 7:32 AM	
Throughput Not Allocated	02/19/2019 12:00 AM	02/19/2019 7:45 AM	
Storage Allocated (Withdrawal)	02/19/2019 12:00 AM	02/19/2019 7:52 AM	
Confirmations Completed	02/19/2019 12:00 AM	02/19/2019 8:10 AM	
Cycle Completed	02/19/2019 12:00 AM	02/19/2019 8:11 AM	
Notifications Completed	02/19/2019 12:00 AM	02/19/2019 8:16 AM	
Intraday 1 Cycle			
Cycle Started	02/19/2019 12:00 AM	02/19/2019 10:25..	
Balancing Completed	02/19/2019 12:00 AM	02/19/2019 10:34..	
Throughput Not Allocated	02/19/2019 12:00 AM	02/19/2019 10:48..	
Storage Allocated (Withdrawal)	02/19/2019 12:00 AM	02/19/2019 10:58..	
Confirmations Completed	02/19/2019 12:00 AM	02/19/2019 12:42..	
Profile Downloaded 02/19/2019 11:00 AM 02/19/2019 11:00 AM			
Gas Day: 02/20/2019			
Cycle	Start Date/Time	End Date/Time	
Timely Cycle			
Cycle Started	02/19/2019 12:00 AM	02/19/2019 1:25 PM	
Balancing Completed	02/19/2019 12:00 AM	02/19/2019 1:30 PM	
Throughput Allocated	02/19/2019 12:00 AM	02/19/2019 1:57 PM	
Confirmations Completed	02/19/2019 12:00 AM	02/19/2019 4:37 PM	
Storage Allocated (Withdrawal)	02/19/2019 12:00 AM	02/19/2019 4:46 PM	
Cycle Completed	02/19/2019 12:00 AM	02/19/2019 4:47 PM	
Notifications Completed	02/19/2019 12:00 AM	02/19/2019 4:52 PM	
Evening Cycle			
Cycle Started	02/19/2019 12:00 AM	02/19/2019 6:25 PM	
Balancing Completed	02/19/2019 12:00 AM	02/19/2019 6:29 PM	
Throughput Not Allocated	02/19/2019 12:00 AM	02/19/2019 6:35 PM	
Storage Allocated (Withdrawal)	02/19/2019 12:00 AM	02/19/2019 6:38 PM	
Confirmations Completed	02/19/2019 12:00 AM	02/19/2019 8:40 PM	
Cycle Completed	02/19/2019 12:00 AM	02/19/2019 8:41 PM	
Notifications Completed	02/19/2019 12:00 AM	02/19/2019 8:45 PM	
Non-Grid A.M. Cycle			
Cycle Started	02/20/2019 12:00 AM	02/20/2019 7:25 AM	
Balancing Completed	02/20/2019 12:00 AM	02/20/2019 7:31 AM	
Throughput Not Allocated	02/20/2019 12:00 AM	02/20/2019 7:35 AM	
Storage Allocated (Withdrawal)	02/20/2019 12:00 AM	02/20/2019 7:40 AM	
Confirmations Completed	02/20/2019 12:00 AM	02/20/2019 8:10 AM	
Cycle Completed	02/20/2019 12:00 AM	02/20/2019 8:11 AM	
Notifications Completed	02/20/2019 12:00 AM	02/20/2019 8:17 AM	
Intraday 1 Cycle			
Cycle Started	02/20/2019 12:00 AM	02/20/2019 10:25..	
Balancing Completed	02/20/2019 12:00 AM	02/20/2019 10:34..	
Throughput Not Allocated	02/20/2019 12:00 AM	02/20/2019 10:44..	
Storage Allocated (Withdrawal)	02/20/2019 12:00 AM	02/20/2019 10:50..	
Confirmations Completed	02/20/2019 12:00 AM	02/20/2019 12:42..	
Profile Downloaded 02/20/2019 11:00 AM 02/20/2019 11:00 AM			

Main – EDI Processing



- This screen allows the user to view summary and detail information for EDI files within a date range.
- To view this screen, select **Main** and then **EDI Processing**.
- There are three sections to view: **Summaries**, **Nomination Contracts** and **Confirmation Locations**.
- Files with time stamp falls within the **Submit Date Range** will be displayed in the results, irrespective of the gas day; up to one month of data can be viewed at a time.
-  **Retrieve** button updates all three sections.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH

Main Nomination Confirmation Scheduled Quantity Storage

Summaries Nomination Contracts Confirmation Locations

Submit Date Range: 03/29/2020 03/30/2020

Retrieve

Nomination Files

Clear

Drag here to set row groups

Time Stamp ¹ ↑	TP ID	TP Name ² ↓	Process Status	Txn Stat	Nomination	Qck Rsp
No records to display.						

Confirmation Files

Clear

Drag here to set row groups

RQCF Time Stamp ¹ ↑	Conf Req ² ↓	Conf Req Name	Conf Pty	Conf Pty Name	Process Status	Beg Date	End Date	Cycle	Request Conf	Conf Qck Rsp	Conf Rsp	Conf Qck Rsp
--------------------------------	-------------------------	---------------	----------	---------------	----------------	----------	----------	-------	--------------	--------------	----------	--------------

Nomination – Nomination Maintenance



- This screen allows a user to add or edit its nominations for the current or future gas days, as well as view nominations from past days.
- To enter a nomination, select **Nominations** from the **Main** menu or **Dashboard** and then **Nomination Maintenance**.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage Nomination Maintenance

Gas Day: 01/16/2020 Svc Req K: 130664 (IT/TT) Svc Req/Name: 123456789 ABC SHIPPER COMPANY Agent/Name: 987987907 ABC SHIPPER AGENT Retrieve

RECEIPT PATHED DELIVERY

Beg Date: 01/16/2020 End Date: 01/31/2020 TT/Desc: 01 - Cur Bus

Rec Loc: 1318 Rec Loc Name: TBPL/NNNG BEATRICE Up K: 111111111 Up ID: 111111111 Up Name: Rec Qty: 5000 Rec Rank: 1

Del Loc: 192 Del Loc Name: NBPL/NNNG VENTURA Dn K: RF0010 Dn ID: 123123123 Dn Name: Del Qty: 0 Del Rank: 1

Pkg ID: 123 Nom Trk ID: Proc Right: No Fuel Qty:

Add Clear

Add New Copy Submit

Drag here to set new groups

Cycle	Beg Date	End Date	Rec Loc	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc. Right	Receipt Time	Source	Nom. Trk ID

Nomination – Nomination Maintenance (continued)



- To add or change a record, highlight the record. The grid entry form opens so the user can make changes and select **Add** or **Change**.
- If **Add** is selected and then user decides not to add the record, the user may select the circled **X** on the right hand side to close the grid entry form and return to the nomination.
- To delete a record, highlight the record. When the grid entry form opens, select **Delete**.

TMS | TSP:NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage

Gas Day: 01/16/2020 Svc Req K: 136664 (IT/TI) Svc Req/Name: 123456789 ABC SHIPPER COMPANY Agent/Name: 987987987 ABC SHIPPER AGENT

Retrieve

Add New Copy Submit

Cycle	Reg Sale	End Date	Rec Loc	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID
Timely	01/16/2020	01/31/2020	1318	111111111	111111111	5,000	1	192	123123123	RF0010	4,949	1	123	51	01	No	01/15/2020 7:50 A.M.	Online	

Receipt Delivery

EPBQ RATES R/D TOTALS

Beg Date: 01/16/2020
 End Date: 01/31/2020
 TT/Desc: 01 - Cur Bus

Rec Loc: 1318
 Rec Loc Name: TBPL/NNG BEATRICE
 Up K: 111111111
 Up ID: 111111111
 Up Name:
 Rec Qty: 5000 Rec Rank: 1

Del Loc: 192
 Del Loc Name: NBPL/NNG VENTURA
 Dn K: RF0010
 Dn ID: 123123123
 Dn Name:
 Del Qty: 4949 Del Rank: 1

Pkg ID: 123
 Nom Trk ID:
 Proc Right: No
 Fuel Qty: 51

Add Change Delete

5,000 4,949 51

Nomination – Nomination Maintenance (continued)



- The new record will be **blue** in color.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH

Main Nomination Confirmation Scheduled Quantity Storage

Gas Day: 03/31/2020 Svc Req K: 136773 (IT/IT)

Svc Req/Name: 999999999 ABC ENERGY SERVICES
Agent/Name: 888888888 XYZ MARKETING LLC

Retrieve

Add New Copy Submit

Cycle	Beg Date	End Date	Rec Loc	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID
Non-Grid A...	03/31/2020	03/31/2020	192	123456789	112233	1,500	500	62389	999999999	136774	1,500	500			01	No	03/31/2020 6:52 A...	Online	
Timely	04/01/2020	04/30/2020	192	111111111	111111111...	200,000	1	62389	999999999	136774	200,000	1			01	No	03/30/2020 2:46 P...	Online	
Final A.M.	04/02/2020	04/02/2020	197	111111111	111111111	10,000	1	62389	999999999	136774	10,000	1			01	No	03/11/2020 7:16 A...	Online	

- When you select **Submit** the new record in **blue** changes to **black**. The path has now been saved.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH

Main Nomination Confirmation Scheduled Quantity Storage

Update Successful

Gas Day: 03/31/2020 Svc Req K: 136773 (IT/IT)

Svc Req/Name: 999999999 ABC ENERGY SERVICES
Agent/Name: 888888888 XYZ MARKETING LLC

Retrieve

Add New Copy Submit

Cycle	Beg Date	End Date	Rec Loc	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID
Non-Grid A...	03/31/2020	03/31/2020	192	123456789	112233	1,500	500	62389	999999999	136774	1,500	500			01	No	03/31/2020 6:52 A...	Online	
Timely	04/01/2020	04/30/2020	192	111111111	111111111...	200,000	1	62389	999999999	136774	200,000	1			01	No	03/30/2020 2:46 P...	Online	
Final A.M.	04/02/2020	04/02/2020	197	111111111	111111111	10,000	1	62389	999999999	136774	10,000	1			01	No	03/11/2020 7:16 A...	Online	

Nomination – Nomination Maintenance (continued)



- If a transportation contract is entered and a record highlighted, the grid entry form opens and the **PATHED** field is highlighted.
- When the **PRIMARY REC LOCS**, **PRIMARY DEL LOCS**, **EPSQ**, **RATES**, **R/D TOTALS** and **MDQ USAGES** buttons are selected, a modal window will be launched and additional information displayed.
- **MDQ USAGES** will only appear on firm transportation contracts.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage

Gas Day: 01/16/2020 Svc Reg K: 136666 (FT/TF) Svc Reg/Name: 123456789 ABC SHIPPER COMPANY Agent/Name: 987654321 ABC SHIPPER AGENT Market MDQ: 75,000 Retrieve

Add New Copy Submit

Cycle	Reg Date	End Date	Rec Loc	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Del ID	Del K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID
Timely	01/16/2020	01/31/2020	37654	123456789	136664	500	1	3124	152698536	ABC	495	1	258	5	01	No	01/16/2020 9:39 A.	Online	

PRIMARY REC LOCS

Rec Loc: 37654

Rec Loc Name: NNG FIELD/MKT DEMARCATION -16B

Up K: 136664

Up ID: 123456789

Up Name: ABC SHIPPER COMPANY

Rec Qty: 500

Rec Rank: 1

RECEIPT PATHED DELIVERY

Del Loc: 3124

Del Loc Name: ZONE D-WISCONSIN P&L

Del K: ABC

Del ID: 152698536

Del Name:

Del Qty: 495

Del Rank: 1

PRIMARY DEL LOCS

Pkg ID: 258

Nom Trk ID:

Proc Right: No

Fuel Qty: 5

Add Change Delete

EPSQ MDQ USAGE RATES R/D TOTALS

Gas Day: 01/16/2020 Total Receipt Qty: 500 Total Delivery Qty: 495 Total Fuel Qty: 5

Nomination – Nomination Copy



- To copy a nomination, there are two options. The first option is within **Nomination Maintenance** by selecting **Copy**.
- The second option is **Nomination Copy**, a new standalone screen that allows users to copy nominations from previous gas days.
- User will have the option to select one individual record or multiple records to copy.

Nomination Copy

From Gas Day: 01/16/2020 Svc Req K: 136664 (IT/TT) Svc Req/Name: 123456789 ABC SHIPPER COMPANY Retrieve

Beg Date: 02/01/2020 End Date: 02/29/2020

Add

<input checked="" type="checkbox"/>	Rec Loc ↓	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID	Created By
<input checked="" type="checkbox"/>	1318	111111111	111111111	5,000	1	192	123123123	HS0010	4,949	1	123	51	01	No	01/15/2020 7:50 A...	Online		CSRUser
<input checked="" type="checkbox"/>	1318	111111111	111111111	10,000	1	3077	123123123	136666	9,898	1	456	102	01	No	01/15/2020 8:52 A...	Online		CSRUser
<input checked="" type="checkbox"/>	37654	123436789	136666	1,000	1	3124	123123123	ABC	990	1	258	10	01	No	01/15/2020 9:34 A...	Online		CSRUser

Nomination – Nomination Quantities by Cycle



- This report provides nomination data for one or more contracts by gas day and cycle with the ability to export as a PDF file.
- A user can access the **Nomination Maintenance** screen in order to add, change or delete a nomination.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main

Nomination

Confirmation

Scheduled Quantity

Storage

Nomination Quantities By Cycle

Gas Day:* 04/01/2020

Svc Req K:* 136973 (IT/TI)

Svc Req/Name: 999999999 ABC ENERGY SERVICES

Retrieve

...

Cycle:* Intraday 2

☒ Hide Zero Nom Qty Records

R/D Totals

Drag here to set row groups

Rec Loc ² ↓	Up ID	Up K	Rec Qty	Rec Rank	Del Loc	Dn ID	Dn K	Del Qty	Del Rank	Pkg ID	Fuel Qty	TT	Proc Right	Receipt Time	Source	Nom Trk ID	Created By
192	666666666	555555	100	500	1318	111111111	111111111	99	500		1	01	No	04/01/2020 1:56 P...	Online		t26110

Nomination – Nomination Reconciliation



- Displays nomination, confirmation and scheduling mismatches
- Filter by **View Type**, **Loc Type** and **Svc Req K Type**
- The example below displays a nomination on TI contract 136973, with a receipt from Demarc and delivery to Ogden Deferred Delivery
- IDD contract 136976 does not have a nomination.
- MPS contract 136982 does not have a nomination.
- Select Open **NomM** to view nomination maintenance screen for the selected contract.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main
Nomination
Confirmation
Scheduled Quantity
Storage

Nomination Reconciliation

Gas Day: 04/12/2020
Cycle: Final A.M.
View By: Svc Req Prop 14716
Svc Req/Name: 999999999 ABC ENERGY SERVICES
Retrieve

FILTERS >
View Type: All Nominations
Loc Type: All Locations
Svc Req K Type: All Contracts
Svc Req/Name: All Entities

☒ Hide Zero Nom Qty Records
Open NomM

Svc Req K ¹ ↓	Rate Sch	Loc ² ↓	Loc Name	K Flo ³ ↓	Nom Qty	Up/Dn K ⁴ ↓	Up/Dn ID	Up/Dn K Nom Qty	Nom Diff	Conf Qty	Conf Diff	Sched Qty	Sched Diff	Svc Req	Nom Type
136973	TI	98	OGDEN DEF. DELIVERY	D	495	136976	999999999		495					999999999	Standard
136973	TI	37654	NNG FIELD/MKT DEMARCATION -...	R	500	136982	999999999		500					999999999	Standard
136976	IDD	98	OGDEN DEF. DELIVERY	R	0	136973	999999999	495	-495					999999999	Standard
136982	MPS	37654	NNG FIELD/MKT DEMARCATION -...	R	0	136973	999999999	500	-500					999999999	Standard

Nomination – Final A.M. Nomination List



- The Final 8:00 A.M process is designed for users to true up actual usage using storage service or to redirect quantities from one delivery location to another.
- Displays INV(invalid) Reason, Up, Down and Both Codes as an explanation regarding the nomination
- **INV** – a nomination that is not valid; a comment will reference the reason
- **UP** – references the Up K of the invalid nomination
- **DOWN** – references the Down K of the invalid nomination
- **BOTH** – references the Up K and Down K that should have a corresponding nomination

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main

Nomination

Confirmation

Scheduled Quantity

Storage

Final A.M. Nomination List

Gas Day: 03/02/2020

Emulate External User:

Retrieve

☒ Sum By Svc Req K

☐ Show Invalid Noms Only

☐ Show Associated Noms

Row Date/Time	Row(*)	Svc Req K	Svc Req	Agent/ Svc Req Name	Svc Type	TT	Res Loc	Res Loc Name	Up K	Row Res Qty	Sched Res Qty	Adj Res Qty	Res Rank	Del Loc	Del Loc Name	Down K	Flag ID	Row Del Qty	Sched Del Qty	Adj Del Qty	Del Rank	Net Qty Change	Out of Balance	Reason	Comment	Updated By
01/27/20	*	136663	123456	ABC SHIPPER A.	IT	08	62389	DEMARC DEF.	136664	10,000	0	300						0	0				UP			terradm
Total										10,000								0								
01/27/20	*	136664	123456	ABC SHIPPER A.	IT	01	197	NSPL/NG VEN.	111111111	10,000	0	500	62389	DEMARC DEF.	136663			10,000	0	500			INV	Qty Change at Loc 197		terradm
Total										10,000								10,000								
01/27/20	*	136664	123456	ABC SHIPPER A.	IT	01	62389	DEMARC DEF.	136665	1,000	0	500	234	WICOR-EAST DU.	111111111			990	0	500			INV	Qty Change at Loc 234		terradm
Total										1,000								990								
01/27/20	*	136665	123456	ABC SHIPPER A.	PD	07				0	0			62389	DEMARC DEF.	136664			1,000	0	500		DOWN			terradm
Total										0								1,000								
01/27/20	*	136666	123456	ABC SHIPPER A.	FT	01	192	NSPL/NG VEN.	111111111	10,000	0	500	3024	ZONE EF CENTE.	111111111			0,000	0	500						terradm
01/27/20	*	136666	123456	ABC SHIPPER A.	FT	01	192	NSPL/NG VEN.	111111111	0	0	500	3050	ZONE E/F NSP.	111111111			0	0	500						terradm
Total										10,000								0,000								
01/27/20		136666	123456	ABC SHIPPER A.	FT	01	192	NSPL/NG VEN.	111111111	10,000	10,000	500	3050	ZONE E/F NSP.	111111111			0,000	0,000	500						u8233
Total										10,000								0,000								
01/27/20	*	136666	123456	ABC SHIPPER A.	FT	01	62389	DEMARC DEF.	136665	100	0	500	98	OCCEN DEF DE.	136665			99	0	500			BOTH			terradm
Total										100								99								

Confirmation – Confirmation Maintenance



- Allows operator to view, edit, add and delete confirmations
- Select gas day and cycle
- View by:
 - **Loc**
 - **Conf Svc ID Prop**
 - **Conf Svc K**

TMS | TSP:NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage Confirmation Maintenance

Gas Day: 02/06/2020 Cycle: Timely View By: Loc 1318 Loc Name: TBPL/ING BEATRICE
Conf Req/Name: 784158214 NORTHERN NATURAL GAS COMPANY Conf Svc ID Prop Conf Svc K NBLAZER PIPELINE COMPANY LLC

Conf Filter: All Nom Type Filter: Standard/Makeup Confirm All Loc Total

Drag here to add new groups

Loc	K	Up/Dn ID	Up/Dn Name	Up/Dn K	Svc Req	Svc Req Name	Svc Req K	Svc Type	Nom Qty	Pratin Sched Qty	Qty (Conf)	BR	Sched Qty	End Date	Source	Conf Trk ID	Val Cd	Val Ms
1318	R	111111111		111111111	123456789	ABC SHIPPER COMP...	136664	IT	15,000					02/29/2020				

15,000 0 0 0

For Operator Choice methods of Active or Passive, Northern is the Confirmation Requester. For Confirmation by Exception, Northern is the Confirming Party.

Confirmation – Confirmation Summary



- Provides user a view of its daily and monthly scheduled quantities, nominations, confirmations and actual measured quantities at its locations for a specified date range
- View by **Loc**, **Conf Svc ID Prop** or **Conf Svc K**

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH

Main Nomination Confirmation Scheduled Quantity Storage

Confirmation Summary

Beg Date: 04/01/2020 End Date: 04/30/2020 View By: Loc 79490

Retrieve

Beg Date ↓	Nom Qty	Nom Makeup	Conf Qty	Conf Makeup	Sched Qty	Sched Makeup	Total Sched Qty	Actual Meas Qty	Est Meas Qty	Var	Pct
04/01/2020	-3,569		-3,322		-248		-248			248	
04/02/2020	-3,569										
04/03/2020	-3,569										
04/04/2020	-3,569										
04/05/2020	-3,569										
04/06/2020	-3,569										



Confirmation – Location Reconciliation



- Allows a user to view, filter and compare nomination quantities to confirmation quantities between current and previous cycle for a specified gas day
- View by: **Nom Qty vs Conf Qty** or **Nom Qty vs Prev Nom Qty**



TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH  

Main




Nomination

Confirmation

Scheduled Quantity



Storage


Location Reconciliation

Gas Day:* 04/01/2020   Cycle:* Timely  View:* ☒ Nom Qty vs Conf Qty ☐ Nom Qty vs Prev Nom Qty

Retrieve

☐ Hide Makeup Noms

Open ConfM 

Drag here to set row groups

Loc ¹ ↓	Loc Name	K Flo ² ↑	Svc Req ³ ↓	Svc Req Name	Svc Req	Up/Dn K ⁴ ↓	Up/Dn ID	Prev Nom Qty	Prev Conf Qty	Nom Qty	Conf Qty	Oper Choice	RR	Conf Date/Time	Updated By
79490	ABC ENERGY SERVICES MARKET POINT	D	136789	JKL ENERGY SERVICES	044444444	136789	888888888			-1,583	-1,336	Passive		03/30/2020 3:22...	T100104

Scheduled Quantities



- This screen allows the user to view nominated and scheduled quantities by cycle for a specified gas day
- To detect a record that is getting cut, highlight the record with an RR code. Select the RR Detail button. The **Reduction Reason Detail** screen shows why the record was cut.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation **Scheduled Quantity** Storage

Gas Day: 01/17/2020 Svc Req K: 136664 (IT/TI) Svc Req/Name: 123456789 ABC SHIPPER COMPANY
 Cycle: Timely Agent/Name: 987987987 ABC SHIPPER AGENT

Retrieval

NOTE: Preliminary Scheduled Quantities may be affected by each cycle process (i.e. balancing, allocations, and confirmations processes). Scheduled Quantities will be displayed when the cycle is complete.

☒ Hide Zero Qty Records

1 R/D Totals

Rec Loc	Up ID	Up K	Nom Rec Qty	Prelim Sched Rec Qty	Rec Rank	Del Loc	De ID	De K	Nom Del Qty	Prelim Sched Del Qty	Del Rank	Pkg ID	RR	Nom Fuel Qty	Prelim Sched Fuel Qty	TT	Proc Right	Receipt Time	Stat
1318	111111111	111111111		3,418	1	192	123123123	RF0210		3,383	1	123	CCR		35	01	No	01/15/2020 12:00...	Online
1318	111111111	111111111		6,835	1	3077	123123123	136666		6,765	1	456	CCR		70	01	No	01/15/2020 12:00...	Online

TT/Desc: 01 - Cur Bus

Rec Loc: 1318
 Rec Loc Name: TBPL/NNG BEATRICE
 Up K: 111111111
 Up ID: 111111111
 Up Name:
 Prelim Sched Rec Qty: Rec Rank: 1

Del Loc: 3077
 Del Loc Name: ZONE ABC - MIDAMERICAN
 Dn K: 136666
 Dn ID: 123123123
 Dn Name:
 Prelim Sched Del Qty: 6,765 Del Rank: 1

RATES **RR DETAIL**


Pkg ID: 456
 Nom Trk ID:
 Proc Right: No
 RR/Name: CCR - Pipeline Capacity Constraint at Receipt Loc...
 Prelim Sched Fuel Qty: 70

37654	123456789	136666		1	3124	123123123	ABC		1	258	PSR			01	No	01/15/2020 12:00...	Online
62389	123456789	136663		9999	37654	123456789	136662		9999	STORBAL	P80*			01	No	01/16/2020 12:00...	Stor B
62389	123456789	136663		9999	37654	123456789	136662		9999	STORBAL	P80*			01	No	01/16/2020 12:00...	Stor B
62389	123456789	136663		9999	37654	123456789	136662		9999	STORBAL	P80*			01	No	01/16/2020 12:00...	Stor B

10,253 10,148 105

Total Nom Receipt Qty: 0 Total Nom Delivery Qty: 0 Total Nom Fuel Qty: 0
 Total Prelim Receipt Qty: 10,253 Total Prelim Delivery Qty: 10,148 Total Prelim Fuel Qty: 105

- Pkg ID ▼ ↓



A screenshot of the 'Plugs' window. At the top, there are two checkboxes: 'Hide Zero Qty Records' (checked) and 'Summary View' (checked). Below these is a dropdown menu labeled 'Plug ID' with a small 'x' icon to its right. The dropdown menu is open, showing a list of plug IDs. Below the dropdown, there are four columns: 'Group', 'Cycle', 'Gas Day', and 'Rec Loc'. The 'Group' column is highlighted with a red circle.

Storage – Storage Contract Balance



- This screen displays nomination and scheduled activity for a selected contract
- To view this screen, select **Storage** and then **Storage Contract Balance**
 - Provides a running total for injection and withdrawal activity
 - Drag columns to the filter row to filter by the selected column

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Welcome: USER SMITH

Main Nomination Confirmation Scheduled Quantity Storage

Storage Contract Balance

Begin Date: 03/01/2020 End Date: 03/31/2020

Retrieve

Svc Req N: 136774 (ID/IDD) Svc Req/Name: 999999999 ABC ENERGY SERVICES

Drag here to set row groups

Begin Date	Loc	Nom In Qty	Sched In Qty	Nom W/D Qty	Sched W/D Qty	Bal Adj	Total Bal
03/01/2020			0		0	0	0
03/02/2020			0		0	0	0
03/03/2020			0		0	0	0
03/04/2020	62389	0	0	0	0	0	0
03/05/2020	62389	0	0	0	0	0	0
03/06/2020	62389	0	21,727	0	0	0	21,727
03/07/2020	62389	0	0	0	0	0	21,727
03/08/2020	62389	0	0	0	0	0	21,727
03/09/2020	62389	0	0	0	0	0	21,727
03/10/2020	62389	0	0	0	0	0	21,727
03/11/2020	62389	0	0	0	0	0	21,727
03/12/2020	62389	0	0	0	0	0	21,727
03/13/2020	62389	0	0	0	0	0	21,727
03/14/2020	62389	0	0	0	0	0	21,727
03/15/2020	62389	0	0	0	0	0	21,727
03/16/2020	62389	0	0	0	0	0	21,727
03/17/2020	62389	0	0	0	0	0	21,727
03/18/2020	62389	0	0	0	0	0	21,727
03/19/2020	62389	0	0	0	0	0	21,727
03/20/2020	62389	0	0	0	0	0	21,727
03/21/2020	62389	0	0	0	0	0	21,727
03/22/2020	62389	0	0	0	0	0	21,727
03/23/2020	62389	0	0	0	0	0	21,727
03/24/2020	62389	0	0	0	0	0	21,727
		1,000,000	21,727	0	0	0	

Storage - Storage Netting Activity



- Allows the user to view storage netting transaction detail for a particular entity and group based on user's input criteria.
- To access this screen, select **Storage** and then **Storage Netting Activity**.
- Enter **Gas Day**, **Agent/Svc Req Prop** and **Group Label** and select **Retrieve**.

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Main Nomination Confirmation Scheduled Quantity Storage Administration

Storage Netting Activity

Gas Day: 02/01/2020 Agent/Svc Req Prop: 14712 Svc Req/Name: 123456789 ABC SHIPPER COMPANY

Group Label: MO1IDD Rate Schedule: IDD Loc/Name: 62389 DEMARC DEF. - DELIVERY

Retrieve

Contract Rankings

Drag here to set row groups

Rank ↓	Svc Req K	Svc Req Name
1	136663	ABC SHIPPER COMPANY

Activity/Results

Drag here to set row groups

Svc Req K ¹ ↓	K Flo ² ↓	Nom Qty	Sched Qty	Up/Dn K	TT ³ ↓	Plg ID
136663	D	250		136664	07	
136663	R	1,000		136664	06	
136663	R		750	136664	71	STORNET3TEST

1,250 750

Total Nom Receipt Qty: 1,000 Total Nom Delivery Qty: 250
Total Sched Receipt Qty: 750 Total Sched Delivery Qty: 0

Storage Netting Maintenance



- Allows user to set up storage netting for a specific storage location by storage rate schedule
- **To set up:**
 - Create **Group Label**
 - Select **Rate Schedule**
 - Select **Location**
 - Select **Continue**
- **To add:**
 - Select **Svc Req K**
 - Select **Netting Beg** and **End Date**
 - Select **Rank** (ranks the contract when you have multiple in the same Group Label)

TMS | TSP/NAME: 784158214 NORTHERN NATURAL GAS COMPANY

Timer: Off Prod Mode: Yes Nom Cycle: Intraday 1

Main Nomination Confirmation Scheduled Quantity Storage Administration

Storage Netting Maintenance

Create New Perform Maintenance

Agent/Svc Req Prop: 14712 Svc Req/Name: 123456789 ABC SHIPPER COMPANY

Group Label: 1 Rate Schedule: IDD Loc: 99 Loc Name: OGDEN DEF DELIVERY

Continue Cancel

Svc Req K: 136663 Svc Req/Name: 123456789 ABC SHIPPER COMPANY

Netting Beg Date: 01/17/2020 Netting End Date: 11/17/2020 Rank: 1

Add Clear

Drag and drop to reorder

Rank	Svc Req K	Svc Req Name	Netting Beg Date	Netting End Date	Create Date/Time	Created By	Update Date/Time	Updated By
No records to display.								

Contract Storage Balance by Day Report



- A report that displays nomination and scheduling activity for a storage contract by gas day or month-to-date totals
- Select format as a PDF or Excel and click [Retrieve](#)

TSP: 784158214 TSP Name: Northern Natural Gas Company

Storage Inventory Management System

Contract Balance by Shipper/Contract Report

Start D/T: 03/31/2020 2:46 pm

Page: 1 of 1

Contract Number:	136774	Service Type:	ID	Contract Sub Type:		Shipper Name:	ABC ENERGY SERVICES
Max Monthly Injection:	0	Min Monthly Injection:	0	Max Monthly Withdrawal:	0	Min Monthly Withdrawal:	0

Loc: J62389

Loc Name: DEMARC DEF. - DELIVERY

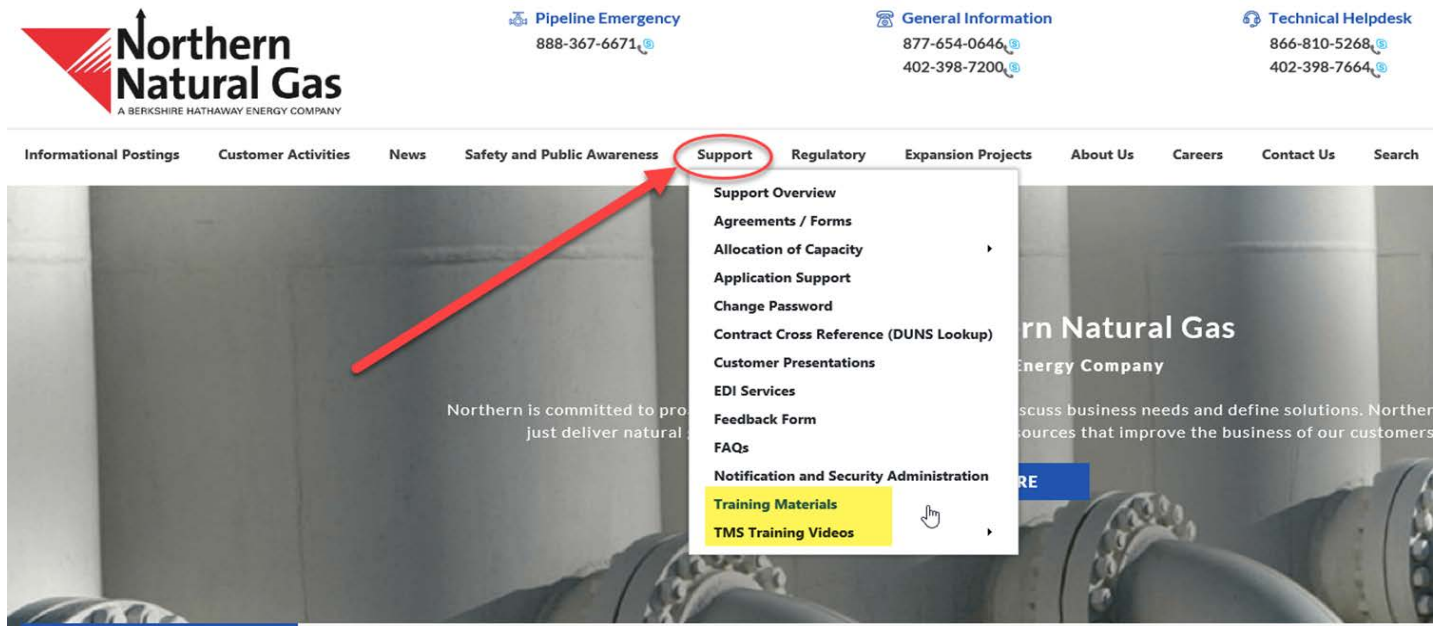
Beg Date	Nominated Injection (dth)	Scheduled Injection (dth)	Nominated Withdrawal (dth)	Scheduled Withdrawal (dth)	Balance Adjustment	Total Balance (dth)	Firm Balance (dth)	Interruptible Balance (dth)	Max Daily Injection (dth)	Min Daily Injection (dth)	Max Daily Withdrawal	Min Daily Withdrawal
4/1/20	3,000,000	390,000	0	0	0	411,727	40,954	370,773	0	0	0	0
Loc Total:	3,000,000	390,000	0	0								
Ctrc Total:	3,000,000	390,000	0	0	0							

***** END OF REPORT *****

Training Video Clips



- Dashboard, Inbox and Navigation
- EDI Processing
- Filtering, Grouping and Sorting Data
- Nomination Copy
- Nomination Quantities by Cycle
- Nomination Reconciliation
- Preliminary Scheduled Quantities and Reduction Reason Detail
- Search and Advanced Search
- Storage Contract Balance
- Storage Netting

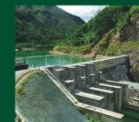




CUSTOMER SERVICE



EMPLOYEE COMMITMENT



ENVIRONMENTAL RESPECT



OPERATIONAL EXCELLENCE



BERKSHIRE FINANCIAL STRENGTH OWNERSHIP

