



Tennessee Gas Pipeline
Company, L.L.C.
a Kinder Morgan company

Segmentation Through Nominations and MDQ Utilization



Agenda

- Pathing
- Segmenting with Nominations
 - Single contracts
 - Family of Contracts (FOC)
- Potential Validations and Errors
- Notices needed for Segmenting and Family of Contracts
- MDQ Utilization Screens and Features
- Important Notes
- Q&A

Pathing - Basics

- Locations on contract determine transportation paths
- Paths are the same whether nomination is receipt to delivery or delivery to receipt
- Pathing rules may be different for Exceptional contracts (ex. NSE, Connexion, etc.)
- Pathing Rules can be found on TGP homepage under presentations

Pathing – Pathing Rules

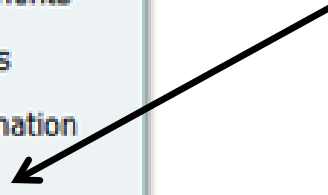


Interstate Other Midstream Informational Postings

Presentations

File Name	Size	Posted
Cheniere Customer Meeting 11-7-2017.pdf	2734 KB	11/7/2017
2017 Pre Winter Operations_October 25 2017 WEBEX.pdf	2469 KB	10/25/2017
Backhaul Fuel Map.pdf	162 KB	10/24/2017
2017 Pre Winter Operations Meeting October 2017.pdf	2532 KB	10/16/2017
TGP NGA GOCON Fall 2017.pdf	738 KB	10/13/2017
Mexico Presentation 1-TEAC Conference.pdf	3291 KB	9/26/2017
2017 TGP Shipper Meeting Paul Smith.pdf	3217 KB	9/21/2017
2017 TGP Shipper Meeting Preston Troutman.pdf	634 KB	9/21/2017
2017 TGP Shipper Meeting Ray Miller.pdf	2328 KB	9/21/2017
2017 TGP Shipper Meeting Ernesto Ochoa.pdf	2245 KB	9/21/2017
2017 TGP Shipper Meeting Tom Martin.pdf	1898 KB	9/21/2017
2016 NY Metro School Operations Meeting.pdf	486 KB	5/13/2017
TGP Hourly and Retro Process.pdf	370 KB	3/28/2017
TGP Rate Card 2017.pdf	51 KB	2/28/2017
Pathing Rules.pdf		
TGP ACRP Customer Webex.pdf	899 KB	3/13/2015

- Customer Information
- Public Awareness
- Company Overview
- Forms
- Training Documents
- Training Videos
- Location Information
- Presentations**
- DART Help/Information
- PIN to DRN XREF

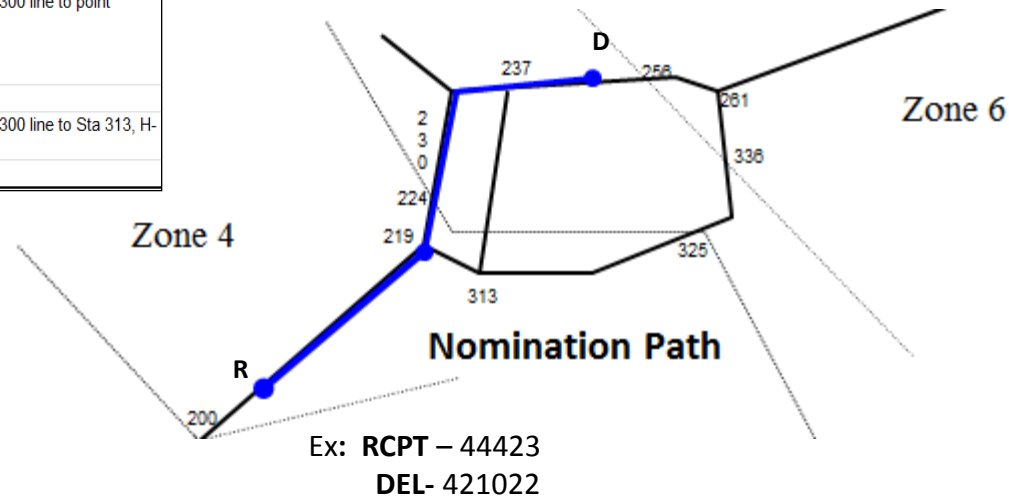


Found on TGP homepage under Customer Information/Presentations/Pathing Rules

Pathing - Example

<u>From/To</u>	<u>To/From</u>	<u>Normal Path</u>
		Note: Contractual and Physical path are the same unless noted
Any point upstream of Sta 219	Zone 4, and 5 – 200 line points downstream of Sta 219 and upstream of 237	200 line to point
	Zone 5 and 6 – 200 line points downstream of 237	200 line to point
	300 line points in zones 4 and 5	200 line to Sta 219, 300 line to point
	300 line points in zone 6	200 line to Sta 219, 300 line to point
	Zone 4 or 5 storage/H-C line points	200 line to Sta 219, 300 line to Sta 313, H-C line to point

example is 'normal' pathing that does not apply to contracts with exception pathing such as the NSE contracts.



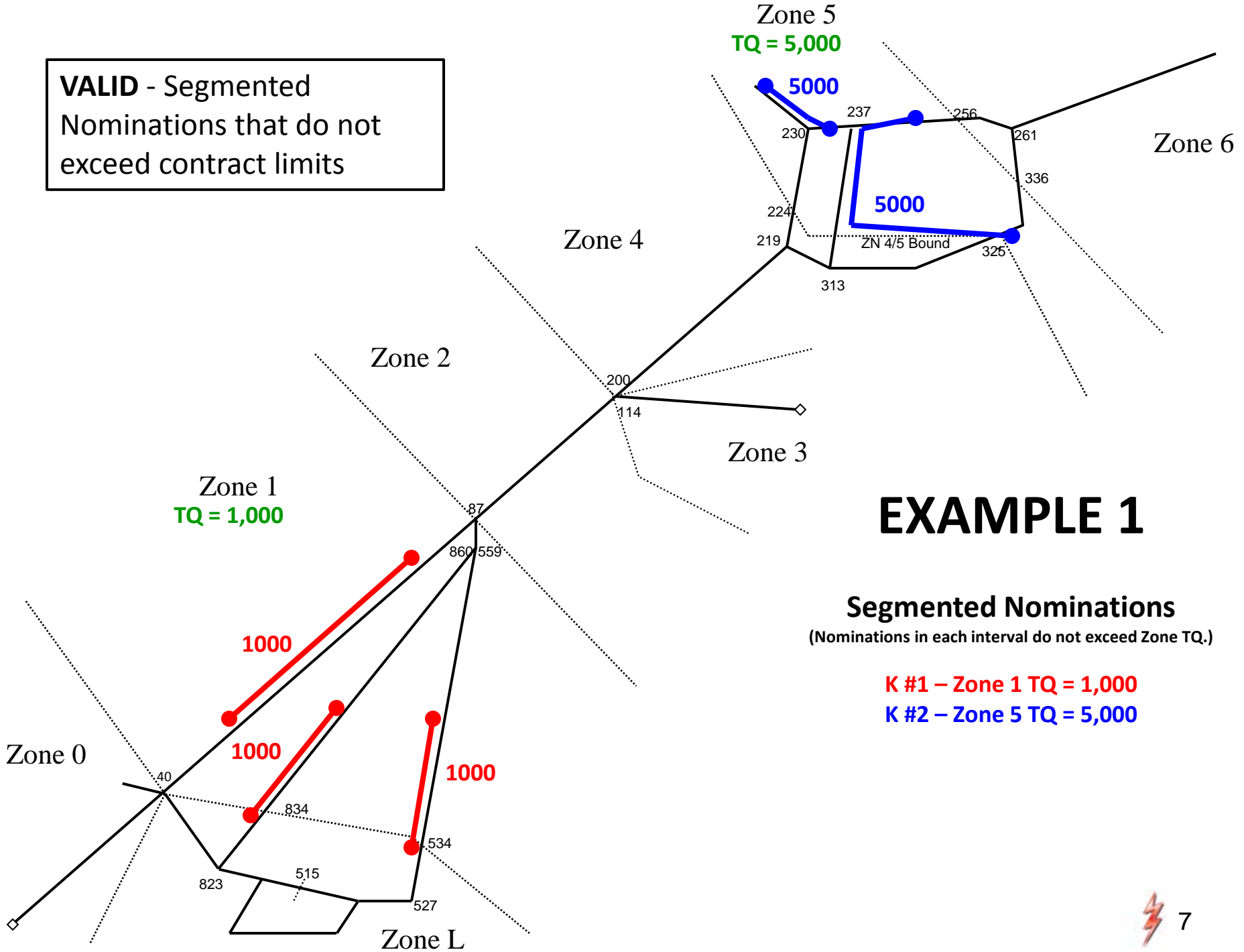
Note: Path is same between two points whether its forward or back haul

Segmenting With Nominations – Single or Base Contract

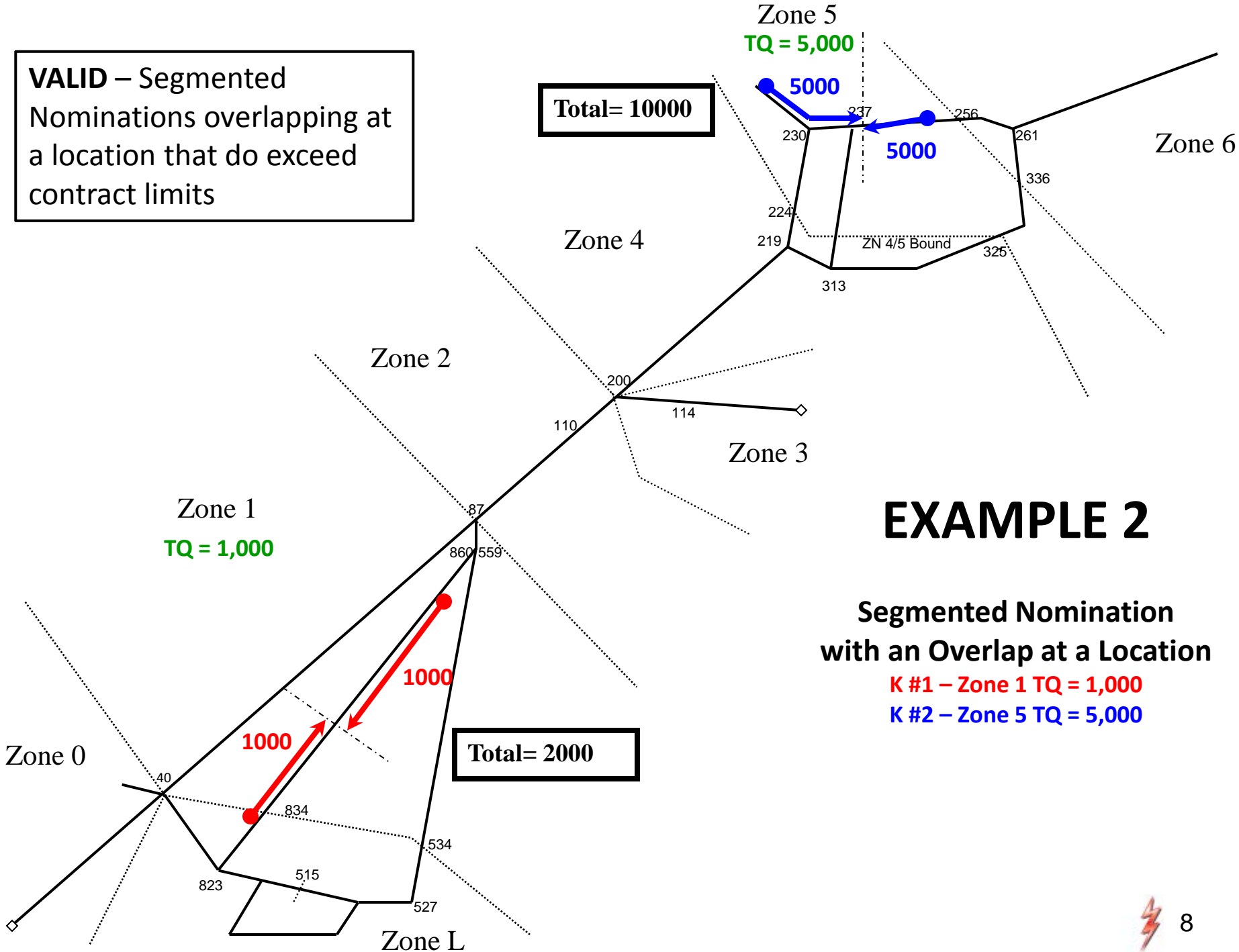
- Shippers can nominate in intervals of the pipeline up to their Zone TQ.
- Overlapping nominations are allowed but **cannot** exceed a contract's Zone TQ at any interval.
- Overlapping at a **location** can exceed the contract's Zone TQ.

* *Flexible delivery contracts require a self-release to effectuate segmenting.*

VALID - Segmented
Nominations that do not
exceed contract limits



VALID – Segmented Nominations overlapping at a location that do exceed contract limits



EXAMPLE 2

Segmented Nomination with an Overlap at a Location

- K #1 – Zone 1 TQ = 1,000
- K #2 – Zone 5 TQ = 5,000

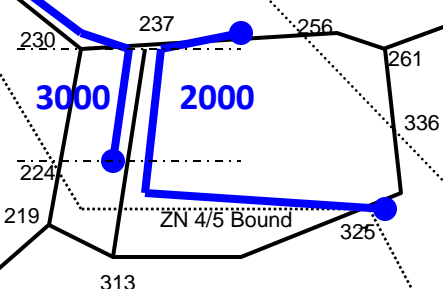
VALID –Segmented
Nominations overlapping
paths that do not exceed
contract limits.

**K Nom Total =
5000**

Zone 5
TQ = 5,000

Zone 6

Zone 4



Zone 2

Zone 3

Zone 1

TQ = 1,000

EXAMPLE 3

Segmented Nomination with an Overlap

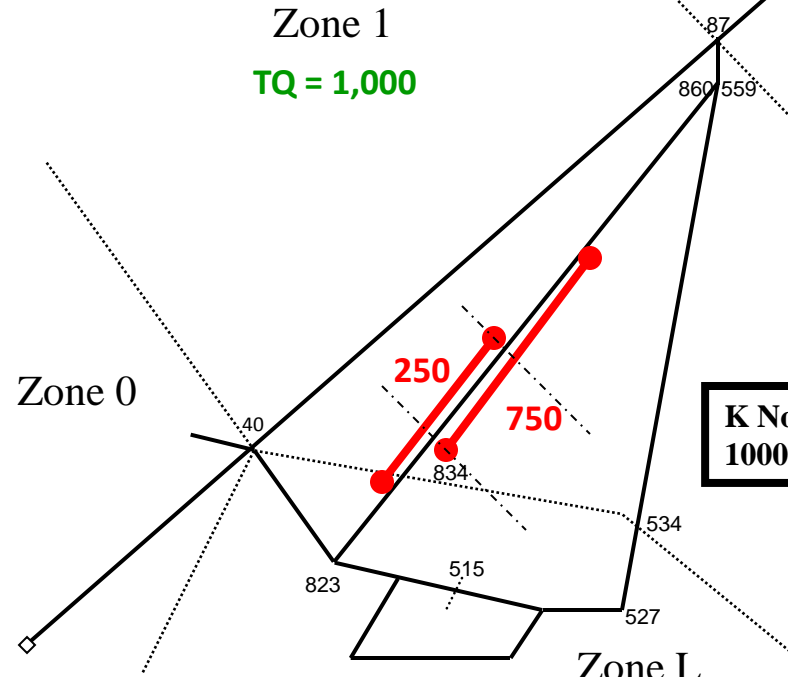
(Nomination totals between overlapping routes
do not exceed Zone TQ.)

K #1 – Zone 1 TQ = 1,000

K #2 – Zone 5 TQ = 5,000

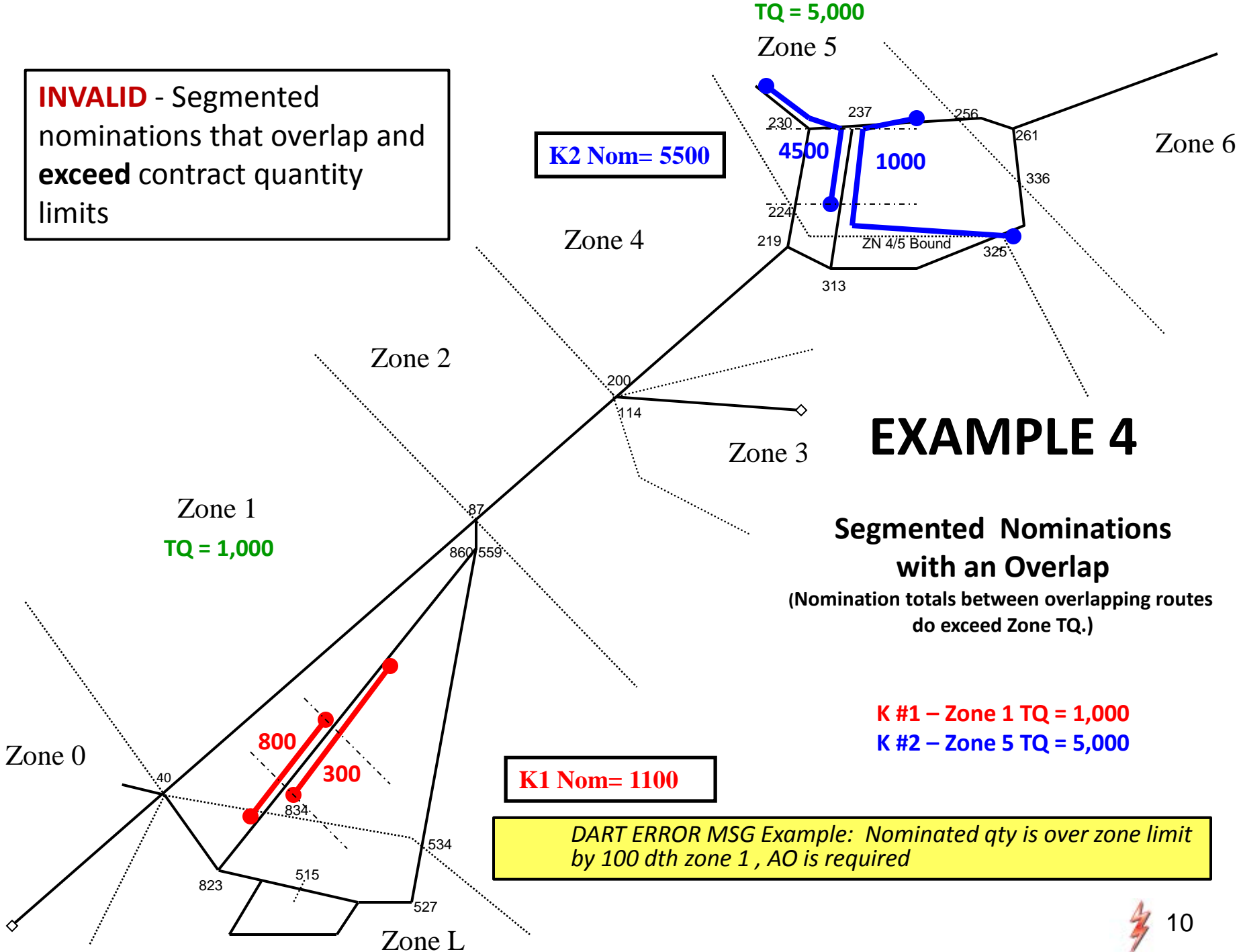
**K Nom Total =
1000**

Zone 0



Zone L

INVALID - Segmented nominations that overlap and exceed contract quantity limits



K2 Nom = 5500

TQ = 5,000

Zone 5

Zone 6

Zone 4

EXAMPLE 4

Segmented Nominations with an Overlap
(Nomination totals between overlapping routes do exceed Zone TQ.)

K #1 - Zone 1 TQ = 1,000

K #2 - Zone 5 TQ = 5,000

K1 Nom = 1100

DART ERROR MSG Example: Nominated qty is over zone limit by 100 dth zone 1, AO is required

Segmenting With Nominations – Family of Contracts (FOC)

- A Family of Contracts (FOC) is defined as a Base Contract and any related segmented release Contracts.
- All nominations for segmented release contracts are included in the analysis of overlapping nominations.
- Nominations within a Family of Contracts are validated for segmenting errors using the same rules that apply for segmenting a single contract.
- The Zn TQ for FOC validations is equal to the original Base Contract's Zn TQ prior to the release (s).
- A FOC error occurs when the sum of the nominations within the family exceeds the Zn TQ in any interval.

Error msg example: Warning: FOC Capacity Conflict zone 1, Nom Qty may be cut

Potential Validations and Errors

-Nominations on a single contract exceeds zone TQ (ECM)

-**Fatal** error received when validating nomination

- email **notice** will be generated in the case of a rolling nom

-Family of Contracts exceed zone TQ (EFC)

Ex. contract 1 nominates below zone limit with no error or notice
contract 2 submits nomination taking FOC total over collective
zone TQ

-contract 2 receives a warning in DART, and

-contract 1 receives an email **notice** (*FOC Warning Nom Cut*)

Notices – for Segmenting and FOC

Navigation Panel

- Favorites
- Nominations
- Flowing Gas
- Invoicing
- Capacity Release
- Contracts
- Service Request
- Agency
- Preferences
 - Business Preference**
 - User Preferences
- Misc
- Security Administration
- Change Password
- Kinder Hawk
- Logout
- Informational Postings
- Site Map

-Select Preferences/Business Preferences
-Right click and select "New"

Retrieve

New
Edit
Delete
Retrieve
WEKP0300 - Auth to Post Imbal
Print
Save As
Add to Favorites
Remove from Favorites

Sign up for: Notices Cut, Nominations, FOC Warning Nom Cut

Notices - for Segmenting and FOC

TSP: 4052 - TENNESSEE GAS PIPELINE AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

Add Screen

Business Function: CAP REL BIDS Contact Role: Primary

Contact Name: FOC Warning Nom Cut

Email Address: IMBAL TRD/STOR TRANS

Confirm Email: INVOICES

Office Phone#: IOS POSTING NOTICES

Pager#: LDC Report

Title: NOMINATIONS*

Delivery Preference: Email

After Hours Phone#: () -

Fax#: () -

Mobile#: () -

Save

Clear

Close

Print Preview

Print

Retrieve

Click the drop down box under the “Business Function” and pick the category to receive email notices

- **Notices Cut**
- **Nominations**
- **FOC Warning Nom Cut**

Select the “Contact Role”. User can set up

- Primary, Backup, or both to receive a particular notice

Notices – for Segmenting and FOC

TSP: 4052 - TENNESSEE GAS PIPELINE AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

Retrieve

Change Screen [X]

Business Function: **FOC Warning Nom Cut** Contact Role: Primary

Contact Name: John

Email Address: John@test.com

Confirm Email: John@test.com

Office Phone#: (713) 444 - 1233 After Hours Phone#: (713) 444 - 1231

Pager#: () - Fax#: () -

Title: CEO Mobile#: () -

Delivery Preference: Email

Last Update By: TRAINING01, DARTPLUS -- Apr 24 2013 5:25PM


Save

Clear

Close

Print Preview

Print

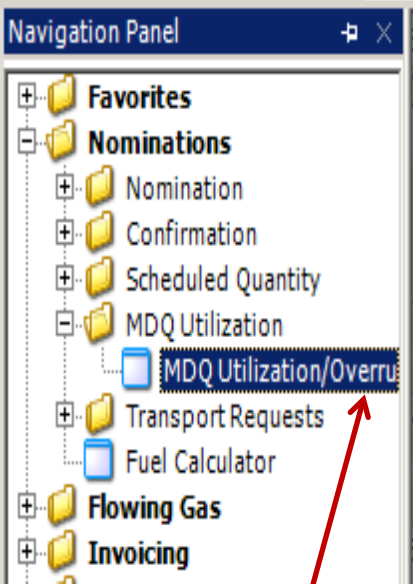


- Input the contact information for each applicable category
 - Click the “Save” button
 - Click the “Close” button

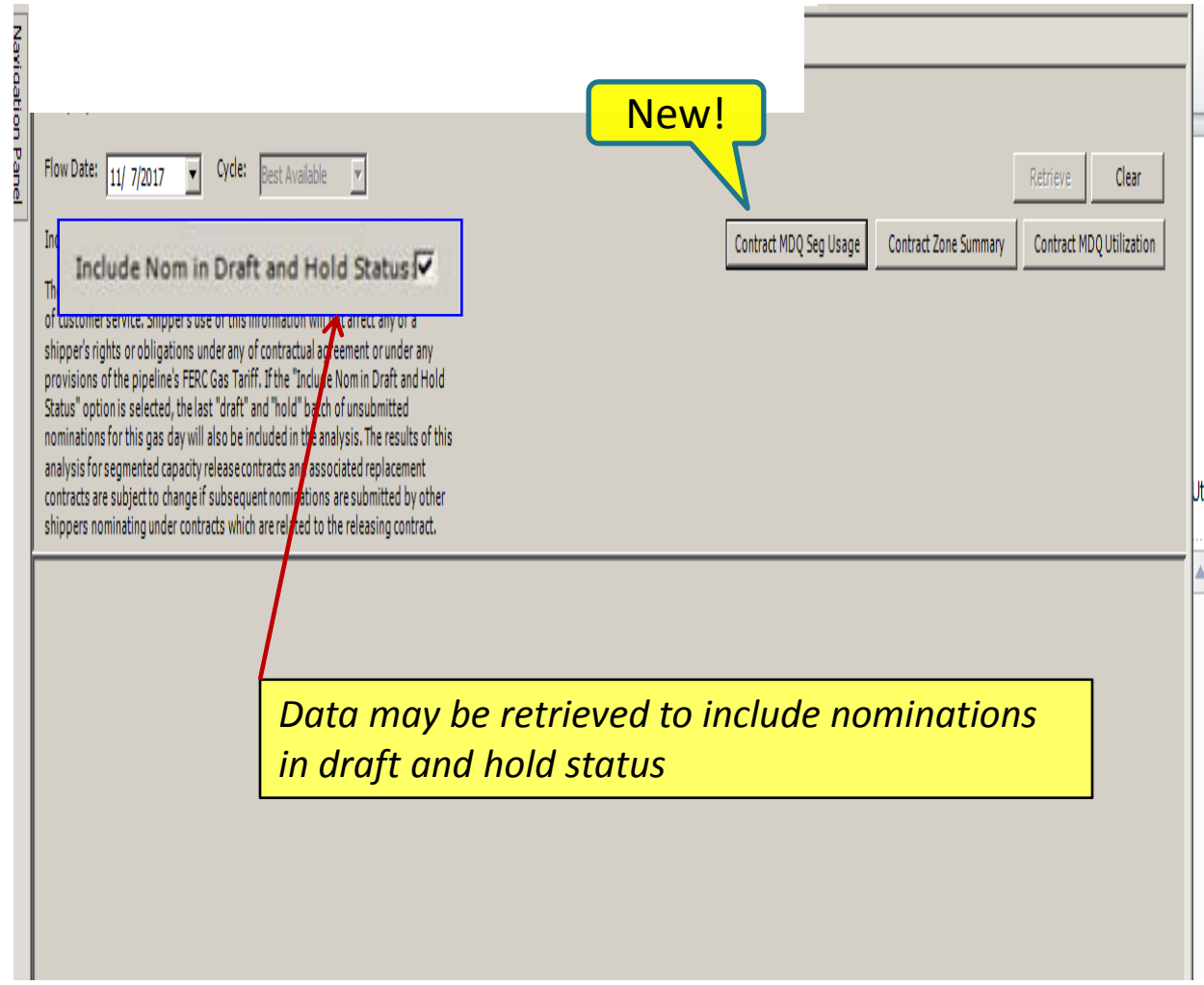
MDQ Utilization Screen Features

- Modified and improved for TGP business
 - Zone detail available at a route level
 - *(helpful to pinpoint offending routes for a FOC error)*
- Displays and compares contract zone MDQs to nominated/scheduled volumes
 - *Help determine underutilized capacity*
- Displays current nom/scheduled zone capacity
 - Help shippers analyze underutilized capacity
- Displays Overrun
- Display option for draft or hold status nominations be included in volumes

MDQ Utilization Screens



-Select Nominations/MDQ Utilization
-MDQ Utilization/Overrun



Data may be retrieved to include nominations in draft and hold status

MDQ Utilization Screens

MDQ Utilization/Overrun Analysis [TGP]; 11/14/2017 02:59:09

Flow Date: Cycle:

Include Nom in Draft and Hold Status:

The Overrun Analysis process on this and subsequent pages is provided as a matter of customer service. Shipper's use of this information will not affect any of a shipper's rights or obligations under any of contractual agreement or under any provisions of the pipeline's FERC Gas Tariff. If the "Include Nom in Draft and Hold Status" option is selected, the last "draft" and "hold" batch of unsubmitted nominations for this gas day will also be included in the analysis. The results of this analysis for segmented capacity release contracts and associated replacement contracts are subject to change if subsequent nominations are submitted by other shippers nominating under contracts which are related to the releasing contract.

New!

CTRCTID	Service	MDQ (DTH)	Nominated (DTH)	Scheduled (DTH)	MDQ-Nominated Difference* (DTH)	Overrun	Nominated Overrun(DTH)
	ATGP	FTA	5,000				0
	FTATGP	FTA	7,500				0
	FTATGP	FTA	2,500				0
<u>1234</u>	FTATGP	FTA	5,000	5,500	5,500	(500) Yes	2000
	FTATGP	FTA	2,500				0
	FTATGP	FTA	5,000				0
	ATGP	FTA	5,000				0

- K#1234 shows 500 dth over MDQ and would fail nomination validation if submitted
- Select contract 1234 and click Contract Zone Summary for more detail

MDQ Utilization Screens –

Zone Summary

Contract Zone Detail

Type: TFO Svc Type:

Flow Date: 11/15/2017

Nominated quantity over zone limit

Nominated AO with Trans Type 02

Receipt Zone	Nominated Zone Usage	Scheduled Zone Usage	Zone Rights	Zone Overrun	Nominated Overrun(DTH)
ZONE 1	5,500	5,500	5,000	500	2,000

- Zone Summary will show all Nom/Sched volumes by zone
- To view route detail...select 'Contract Zone Detail'

MDQ Utilization Screens - Segment Usage

MDQ Utilization/Overrun Analysis [TGP]; 11/14/2017 02:59:09

Flow Date: Cycle:

Include Nom in Draft and Hold Status:

The Overrun Analysis process on this and subsequent pages is provided as a matter of customer service. Shipper's use of this information will not affect any of a shipper's rights or obligations under any of contractual agreement or under any provisions of the pipeline's FERC Gas Tariff. If the "Include Nom in Draft and Hold Status" option is selected, the last "draft" and "hold" batch of unsubmitted nominations for this gas day will also be included in the analysis. The results of this analysis for segmented capacity release contracts and associated replacement contracts are subject to change if subsequent nominations are submitted by other shippers nominating under contracts which are related to the releasing contract.

New!

[Contract MDQ Seg Usage](#) [Contract Zone Summary](#)

CTRCTID	Service	MDQ (DTH)	Nominated (DTH)	Scheduled (DTH)	MDQ-Nominated Difference* (DTH)	Overrun	Nominated Overrun(DTH)
1234	ATGP	FTA	5,000				0
	FTATGP	FTA	7,500				0
	FTATGP	FTA	2,500				0
	FTATGP	FTA	5,000	5,500	5,500	(500) Yes	2000
	FTATGP	FTA	2,500				0
	FTATGP	FTA	5,000				0
	ATGP	FTA	5,000				0

-Select contract 1234 and click Contract MDQ Seg Usage

MDQ Utilization Screens – Segment Usage

Segment View - Default

Flow Date: 11/15/2017

Zone View **Segment View**

Seg	Seg Name	Nominated Seg Usage	Scheduled Seg Usage	Seg Overrun	Nominated Seg Overrun
▶ 163	STA 63 TO STA 87	5,500	5,500	500	2,000
834	MLV 834 TO MLV 847	5,500	5,500	500	2,000
847	MLV 847 TO STA 860	5,500	5,500	500	2,000
860	STA 860 TO STA 87	5,500	5,500	500	2,000

Zone View

Flow Date: 11/15/2017

Zone View Segment View

Receipt Zone	Nominated Zone Usage	Scheduled Zone Usage	Zone Rights	Zone Overrun	Nominated Overrun(DTH)
▶ ZONE 1	5,500	5,500	5,000	500	2,000

Important Notes

- Shippers who segment nominations or participate in capacity releases need to sign up for three important notices:
 - **Notices Cut**
 - **Nominations**
 - **FOC Warning Nom Cut**
- Nominations within a family of contracts that receive FOC warning messages must be resolved to avoid potential cuts to all contracts in the family.
- MDQ Utilization Screen will now display nominated and overrun capacity at a zone level with route detail to help resolve any overlap issues in nominations



Tennessee Gas Pipeline
Company, L.L.C.
a Kinder Morgan company

Q&A

