KINDER MORGAN

DART Regional Training Workshop

Nominations, Scheduling, Confirmations and Reporting

Welcome

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Xpress Nominations and Schedule Group

Training Team

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Workshop Training Objectives

Workshop Training Objectives

After completing this training workshop, in DART you should be able to:

1) Set Favorites; Business and Individual Preferences; and Identify Open DART Screens

2) Create Batch files

3) Identify and match counterparty nomination information

4) Enter basic nominations using DART's Nomination Matrix

5) Copy nominations from one Batch file into a new Batch file

6) Review and interpret Scheduling and Confirmation Reports

7) Apply Ranks to your nominations

8) Sign up to automatically receive reports through Report Subscription

Workshop Training Schedule

Training Schedule

7:45 – 8:15	Reception/Breakfast (Continental)
8:15 – 8:30	Opening Remarks/Administrative Matters
8:30 – 9:00	General DART Navigation
	Exercise 1 – Set Individual Preferences
	Exercise 2 – Set Business Preferences
	Exercise 3 – Set DART Favorites
	Exercise 4 – Identify Open DART Screens
9:00 – 9:15	Break
9:15 – 10:30	Nominations
	Exercise 5 – Creating a New Batch File
	Exercise 6 – Reviewing and Matching Counterparty Nominations

Training Schedule (continued)

9:15 – 10:30	Nominations (continued)
	Exercise 7 – Enter New Nominations
10:30 – 10:45	Break
10:45 – 11:30	Nominations (continued)
	Exercise 8 – Enter a Additional Nomination
	Exercise 9 – Copying Nominations
11:30 – 12:45	Lunch is Served
12:45 -- 1:15	Confirmations
	Exercise 10 – Review Confirmed Volumes
1:15 – 1:30	Break

Training Schedule (continued)

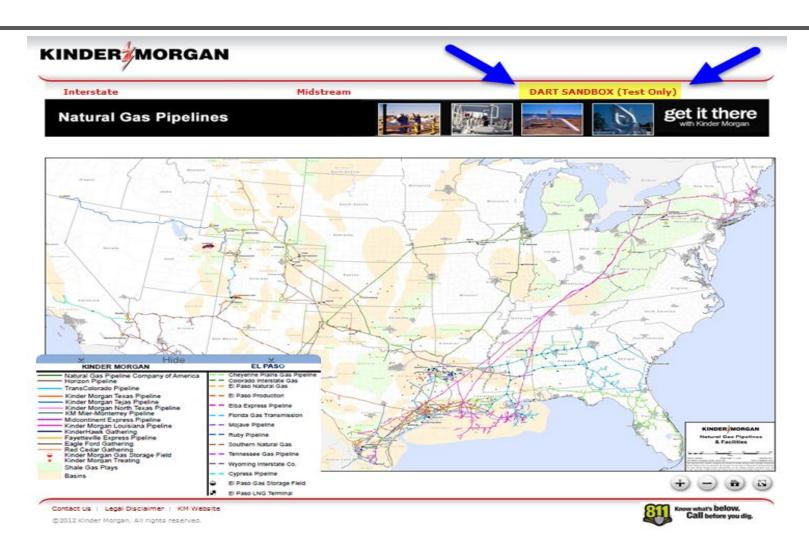|	
1:30 – 2:30	Scheduling Reports
	Exercise 11 – View Buy/Sell Mismatches
	Exercise 12 – View Scheduling Volumes
	Exercise 13 – Navigating Report Subscription
2:30 – 2:45	Break
2:45 – 4:00	Exercise 14 -- DART Ranks
	Exercise 15 – Nominations Upload/Download
4:00 – 4:30	Open Forum Questions/Practice
4:30 – 5:00	Workshop Wrap-up

KINDER⚡MORGAN

Sandbox Login:

(Http://DARTTEST.KINDERMORGAN.COM)

DART Sandbox Login

http://darttest.kindermorgan.com

DART Sandbox Login

Step 1:
Click on "DART SANDBOX (Test Only)"
(Web Link: http://darttest.kindermorgan.com)

Step 3:
Enter DART User ID and Password
Make sure Log onto: reads "KMDMZ"

Step 2:
"Important Notice:" page:
Read notice and click on "OK"

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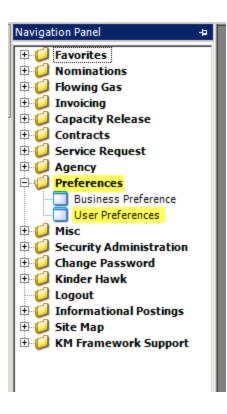# DART Splash Screen/Navigation Panel

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General DART Preferences

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Setting Individual Preferences

1) Select Primary Transportation Service Provider (TSP) from dropdown list
2) Set Service Requester (if you do business as more than one GID)
3) Save your update

Exercise #1

✎ Exercise Title: Setting Individual Preferences

- Exercise Scenario/Parameters:
  - Set Colorado Interstate Gas Co (CIG) as your primary TSP to log into
  - Evaluate the Service Requester field
    - Do you have more than 1 GID showing: Yes   or   No

      (circle one)
    - If you have more than 1 GID showing, how many do you have? (fill in the blank) _____
    - If you have more than 1 GID showing, set your primary company as your default Service Requestor

Setting Business Preferences

1) Right Click and select "New" (to add a Preference) or "Edit" (to edit existing Preference(s))
2) Select "Business Function" from dropdown list
3) Enter user contact information
4) "Save" your Preference request

Exercise #2

⟋Exercise Title: Setting Business Preferences

- Find and set your non-critical and critical notices preferences

  - Set yourself as a "Primary" for critical notices
  - Set yourself as a "Secondary" for non-critical notices

Setting Up "Favorites" in DART

Two ways to add, or delete, Favorites in DART

      1) On the main toolbar, "Actions" panel

      2) Right Click on any window and select from the pop up window

Exercise #3

- Exercise Scenario/Parameters:
  - Open the Nominations (Not Submitted) window and save it as a favorite
  - Open the Contracts window and save it as a favorite
  - If you already a favorite DART report, open that report and save it as a favorite
    - Otherwise, open Scheduled Quantities – Shipper and save it as a favorite

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Viewing Open DART Windows

File View Window Help

Close All Windows

1 PDA (TGP) [CIG]; 06/06/2014 12:08:40
2 Meas Info [CIG]; 06/06/2014 12:09:01
3 Point Nominations [CIG]; 06/06/2014 12:09:08
4 Not Submitted [CIG]; 06/06/2014 12:09:15
5 Contract Path Ranking [CIG]; 06/06/2014 12:09:18
6 Buy/Sell Mismatches List [CIG]; 06/06/2014 12:09:21
7 Confirmation [CIG]; 06/06/2014 12:09:26
8 Maintain Confirmation by Exception [CIG]; 06/06/2014 12:09:28
9 Confirmation Balancing Exception [CIG]; 06/06/2014 12:09:31
10 Sched Qty [CIG]; 06/06/2014 12:09:36
11 Scheduling Cut Queue [CIG]; 06/06/2014 12:09:55
12 Sched Qty Shipper Detail (RS) [CIG]; 06/06/2014 12:10:01
13 Buy/Sell Activity [CIG]; 06/06/2014 12:10:06
14 All Contracts [CIG]; 06/06/2014 12:10:08
15 Allocation Location [CIG]; 06/06/2014 12:10:17
16 Hour Average Report [CIG]; 06/06/2014 12:10:30
17 Business Preference [CIG]; 06/06/2014 12:11:04
18 Contracts [CIG]; 06/06/2014 12:11:11
19 Agency in Effect [CIG]; 06/06/2014 12:11:15
20 GID Lookup [CIG]; 06/06/2014 12:11:20
21 Company Contact [CIG]; 06/06/2014 12:11:23
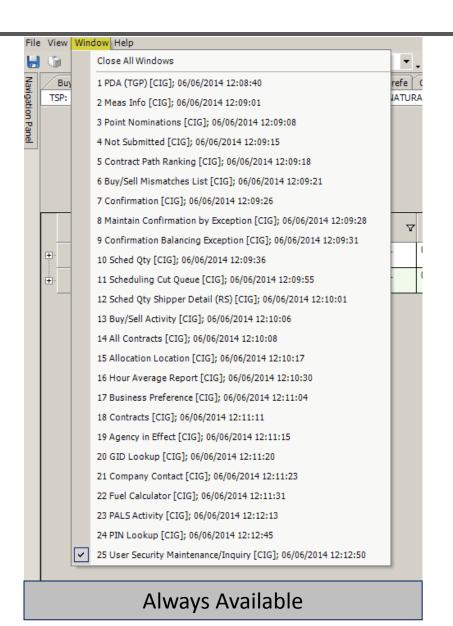22 Fuel Calculator [CIG]; 06/06/2014 12:11:31
23 PALS Activity [CIG]; 06/06/2014 12:12:13
24 PIN Lookup [CIG]; 06/06/2014 12:12:45
✓ 25 User Security Maintenance/Inquiry [CIG]; 06/06/2014 12:12:50

Always Available

Available w/Tab Manager On

PDA (TGP) [CIG]; 06/06/2014 12:08:40
Meas Info [CIG]; 06/06/2014 12:09:01
Point Nominations [CIG]; 06/06/2014 12:09:08
Not Submitted [CIG]; 06/06/2014 12:09:15
Contract Path Ranking [CIG]; 06/06/2014 12:09:18
Buy/Sell Mismatches List [CIG]; 06/06/2014 12:09:21
Confirmation [CIG]; 06/06/2014 12:09:26
Maintain Confirmation by Exception [CIG]; 06/06/2014 12:09:28
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Sched Qty [CIG]; 06/06/2014 12:09:36
Scheduling Cut Queue [CIG]; 06/06/2014 12:09:55
Sched Qty Shipper Detail (RS) [CIG]; 06/06/2014 12:10:01
Buy/Sell Activity [CIG]; 06/06/2014 12:10:06
All Contracts [CIG]; 06/06/2014 12:10:08
Allocation Location [CIG]; 06/06/2014 12:10:17
Hour Average Report [CIG]; 06/06/2014 12:10:30
Business Preference [CIG]; 06/06/2014 12:11:04
Contracts [CIG]; 06/06/2014 12:11:11
Agency in Effect [CIG]; 06/06/2014 12:11:15
GID Lookup [CIG]; 06/06/2014 12:11:20
Company Contact [CIG]; 06/06/2014 12:11:23
Fuel Calculator [CIG]; 06/06/2014 12:11:31
PALS Activity [CIG]; 06/06/2014 12:12:13
PIN Lookup [CIG]; 06/06/2014 12:12:45
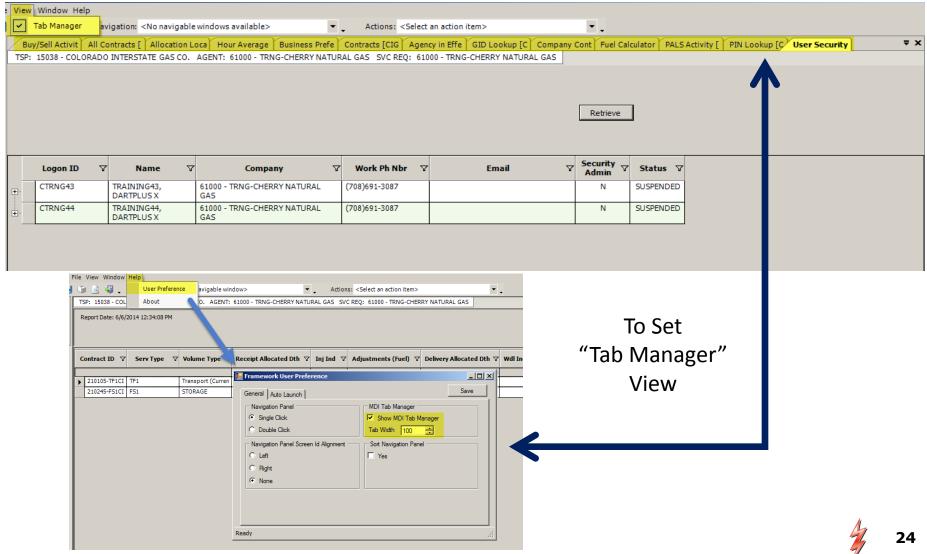User Security Maintenance/Inquiry [CIG]; 06/06/2014 12:12:50

Viewing Open DART Windows

To Set
"Tab Manager"
View

Exercise #4

➤ Exercise Scenario/Parameters:

- Set DART Window "User Preferences"
  - Set to "Show MDI Tab Manager"
  - Set Tab Width to "100"

- Open up several random DART windows and evaluate how the tab manager works
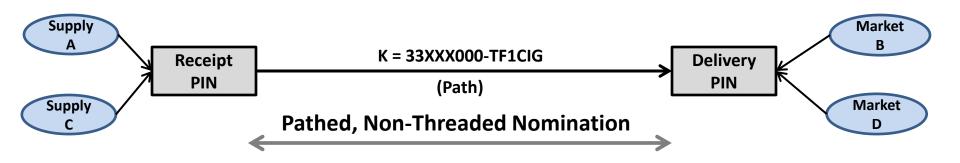 - Now, close all your open windows with the "Close All Windows" option

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Nominating in DART

'Pathed, Non-Threaded' Nomination Model

DART = Focal PIN-Centric

Receipt PIN

Payback
(From Pipe)

Pooling (HSP)

Loan

Off Sys Supply

Buy

Park Withdrawal

Storage
Withdrawal

**FOCAL
PIN**

Loan Payback

Park

Sell

Transport

Pooling (HSP)

Payback
(To Pipe)

Storage
Injection

(Source) ⟷ **(Disposition)**

PIN must be in balance; total Upstream
volume equals total Downstream volume

DART = Focal PIN Centric

Delivery PIN

Pooling (HSP)

Loan

Transport

Buy

Park Withdrawal

Storage
Withdrawal

**FOCAL
PIN**

Loan Payback

Park

Sell

Off-Sys Market

Payback
(To Pipe)

Storage
Injection

Typically, the only way to move
your Source of gas from one
Focal PIN to another Focal PIN
is to 'Transport' it there, Pool it
(HSP), or Wheel it (Hub
Service)

(Source) ⟷ **(Disposition)**

PIN must be in balance; total Upstream
volume equals total Downstream volume

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DART Tip – Field Lookups

When you hover over a field and you get a "?", double click on the field to get a lookup window for that field

Location Lookup

Filter Criteria Selection

○ No Filter ○ Id ● Name Contains ○ Name Starts With ○ DRN ○ Segment ○ Zone

Point Catalog
● Yes ○ No ○ All

Filter criteria: ana   Zone: ALL   Filter

Location List

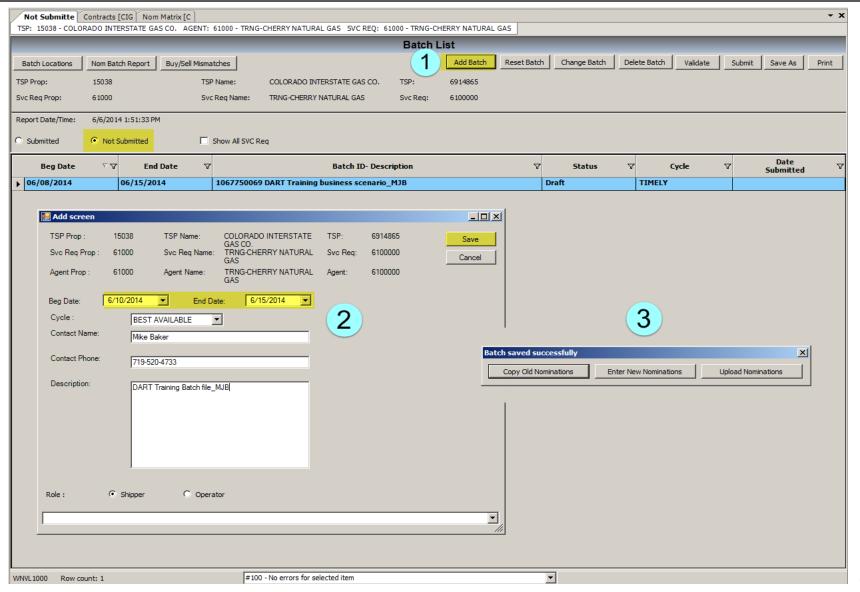| ID	Name	Segment	Rcpt Zone	Dlvy Zone	County	State	Ctrct Type Usage	R-D Usage
800273	ANAUINTA/WIC (GLD	402	19	19	UINTAH	UTAH	A	B
891821	ENCANA/CIG (BCK) B	148	01	01	FREMONT	WYOMING	A	B
891909	ENCANA/CIG (FRD) F	136	01	01	FREMONT	WYOMING	A	B
892265	ANAUINTA/CIG (ANA)	112	01	01	UINTAH	UTAH	A	B
892332	ENCANA/CIG (GUN) G	150	01	01	FREMONT	WYOMING	A	B
892332	ENCANA/CIG (GUN) G	150	01	01	FREMONT	WYOMING	A	B

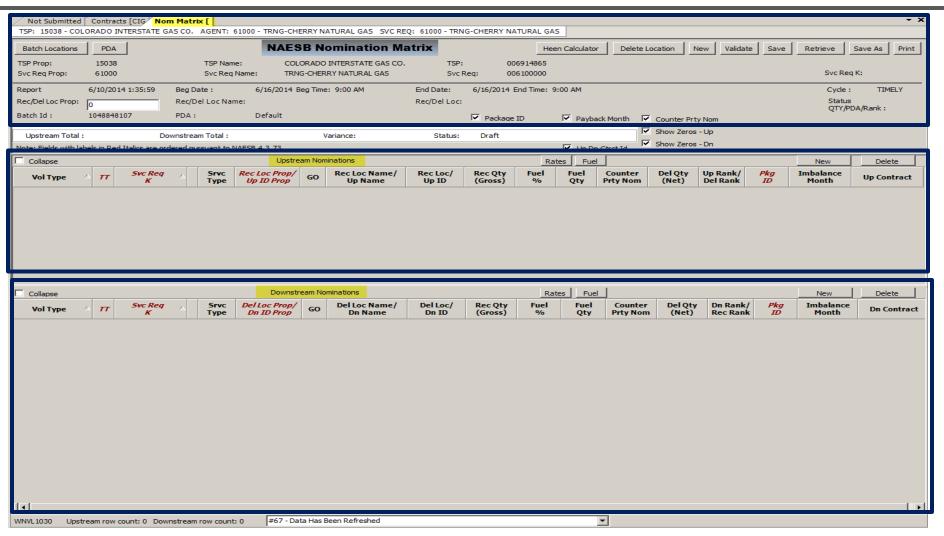Total rows: 6   Ok   Cancel

Adding a Batch File

Exercise #5
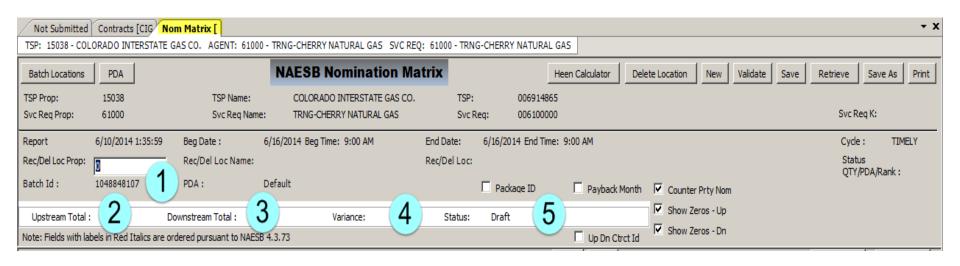
- Exercise Scenario/Parameters:
  - Create a new Batch File
    - Begin Date: _____
    - End Date: _____
    - Enter Batch information
      - Cycle: Best Available
      - Contact Name: Your name goes here
      - Contact Phone: 555-555-5555
      - Description: Give your Batch file a name and finish with your initials in all caps
      - Role is "Shipper" (default – should already be selected)
    - Select "Enter New Nominations" from the next pop up window
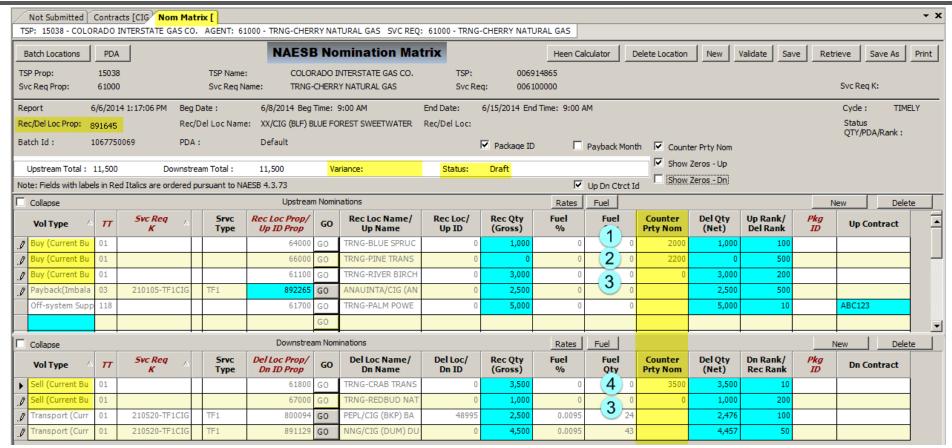
DART Nomination Matrix

Nominating in DART

1) Nominating starts with entering the "Focal PIN"
2) Upstream Total: (populates as you enter nomination upstream line items)
3) Downstream Total: (populates as you enter nomination downstream line items)
4) Variance: Difference between the Upstream and Downstream Total fields (any volume here indicates your PIN is not in balance and that volume must be resolved)
5) Status: Status of your Batch file

Reviewing and Matching "Counter Party" Nominations

1) You are under confirming your counter party's volume
2) Counter party has shown up; you are either under confirming or have not yet completed your business for the day
3) You have entered your nominations and your counter party has not yet entered their business or the are under confirming
4) You and your counter party match

Exercise #6
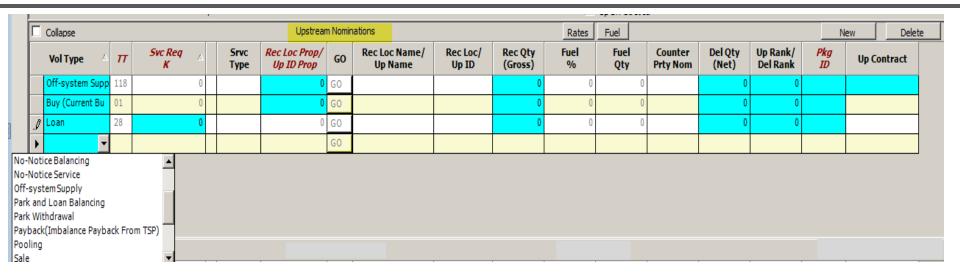
✦ Exercise Scenario/Parameters:

- Review and Match counter party nominations information

  - In the Navigation Panel, under Nominations, launch the Buy/Sell Mismatches List report

  - Select Flow Date: _____.

  - Timely Cycle

  - Unclick "Mismatches Only" box

  - Click on "Show All Svc Req" box

  - Do you have a Buy/Sell mismatch?   Yes   or   No

  - How much is the mismatch?   _____

Adding New Nomination Line Items

1) From the first available line item in the data grid, hover over the "Vol Type" and select the appropriate volume type from the field dropdown list
2) Once you have selected a Volume Type, DART will define the required fields that need to be filled in (turquoise colored fields)
3) Enter either a Receipt or Delivery Quantity and DART will fill in the other gross volume quantity based on nomination fuel rules
4) Rank is a mandatory field; DART default rank is 500
5) Package ID field is optional
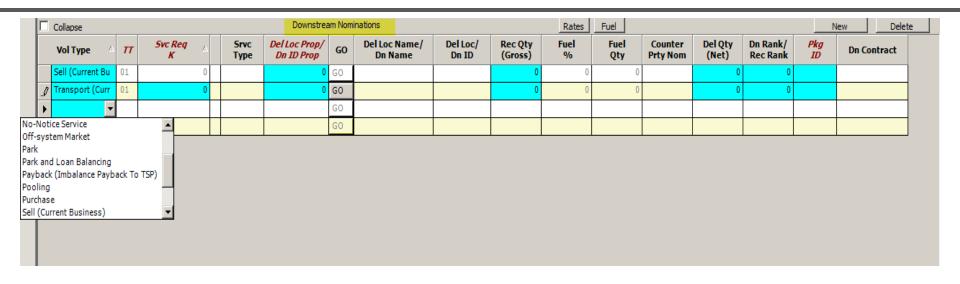6) Up Contract field is mandatory when turquoise in color (**for confirmations**)

Adding New Nomination Line Items

1) From the first available line item in the data grid, hover over the "Vol Type" and select the appropriate volume type from the field dropdown list
2) Once you have selected a Volume Type, DART will define the required fields that need to be filled in (turquoise colored fields)
3) Enter either a Receipt or Delivery Quantity and DART will fill in the other gross volume quantity based on nomination fuel rules
4) Rank is a mandatory field; DART default rank is 500
5) Package ID field is optional
6) Dn Contract field is mandatory when turquoise in color (**for confirmations**)

Exercise #7

- Exercise Scenario/Parameters:
  - Add a new off system supply to transport to off system market transaction
    - Off system volume type: _____
    - GID: _____

  - Add a new buy/sell transaction
    - Buy 10,000 Dth from GID 61700
    - Sell 10,000 Dth to GID

  - "Submit" your Batch File to the pipeline for processing

Payback – Pipeline Owes Shipper

1) Enter Focal PIN where payback is to occur
2) Select Payback (Imbalance Payback from TSP
3) Enter transport contract being paid back
4) Enter a PIN, other than focal PIN
5) Enter payback volume amount and rank
6) Enter disposition volume type
7) Enter GID you are connecting with at off-system market
8) Enter off-system market volume and rank

Payback – From Shipper to TSP

1) Enter Focal PIN where Payback takes place
2) Select source of additional gas to be paid back
3) Enter GID of the party you are receiving gas from
4) Enter payback volume
5) Enter Rank and Package ID as applicable
6) Select "Payback (Imbalance Payback to TSP)"
7) Enter transport contract containing imbalance
8) Enter a PIN (which is not the Focal PIN)
9) Enter payback volume
   (Remember, fuel is deducted for payback to TSP)
10) Enter Downstream Rank and Package ID, as applicable

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Exercise #8

- Exercise Scenario/Parameters:
  - Enter a basic payback nomination (Volume Type: Payback (Pipeline owes the shipper)
    - PIN: _____
    - GID: _____
  - Pick a new PIN and enter another payback nomination (Volume Type: Shipper owes the pipeline)
    - PIN: _____
    - GID: _____

Copying Nominations

From Add Batch File Process

Batch saved successfully

| Copy Old Nominations | Enter New Nominations | Upload Nominations |

Contracts [CIG] | Focal Pin Volu | Template Copy | Batch List [CIG] | **Batch Locati**

TSP: 15038 - COLORADO INTERSTATE GAS CO. AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

Batch Detail

| Nom Matrix | Nom Batch Report | New Location | Batch List | Copy Noms |

| TSP Prop: | 15038 | TSP Name: | COLORADO INTERSTATE GAS CO. | TSP: | 6914 |
| Svc Req Prop: | 61000 | Svc Req Name: | TRNG-CHERRY NATURAL GAS | Svc Req: | 6100 |

From the "Batch Detail" window

Contracts [CIG] | Batch List [CIG] | Focal Pin Volu | **Template Co** | Submitted [CI] | Batch Location

TSP: 15038 - COLORADO INTERSTATE GAS CO. AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

| Batch Locations | | | | | | Select All | Copy |

5

| TSP Prop: | 15038 | TSP Name: | COLORADO INTERSTATE GAS | TSP: | 6914865 |
| Svc Req Prop: | 61000 | Svc Req Name: | TRNG-CHERRY NATURAL GAS | Svc Req: | 6100000 |

| Report Date/Time: | 6/6/2014 2:21:33 PM | Beg Date : | 6/10/2014 | End Date : | 6/15/2014 |

Status :   Draft

□ Set all quantities to Zero
□ Use default Ranks
□ Use default PDAs

Retrieve Nominations Flowing From 6/ 7/2014 ▼

1   4   2

Retrieve

Check To Select Row	Loc Prop	Loc Name
□	800094	PEPL/CIG (BKP) BAKER PEP
□	800229	WBI/CIG (ELK) ELK BASIN
□	800235	WFS/CIG (ES2) ECHO SPRI
□	800715	(TCS) STORAGE INJ/WTD
□	891129	NNG/CIG (DUM) DUMAS ST
□	891645	XX/CIG (BLF) BLUE FOREST

3

1) Enter date of a "Submitted" Batch File
2) Retrieve Nominations from that flow date
3) Evaluate and check the locations to be copied (or use the "Select All" button in the top right corner)
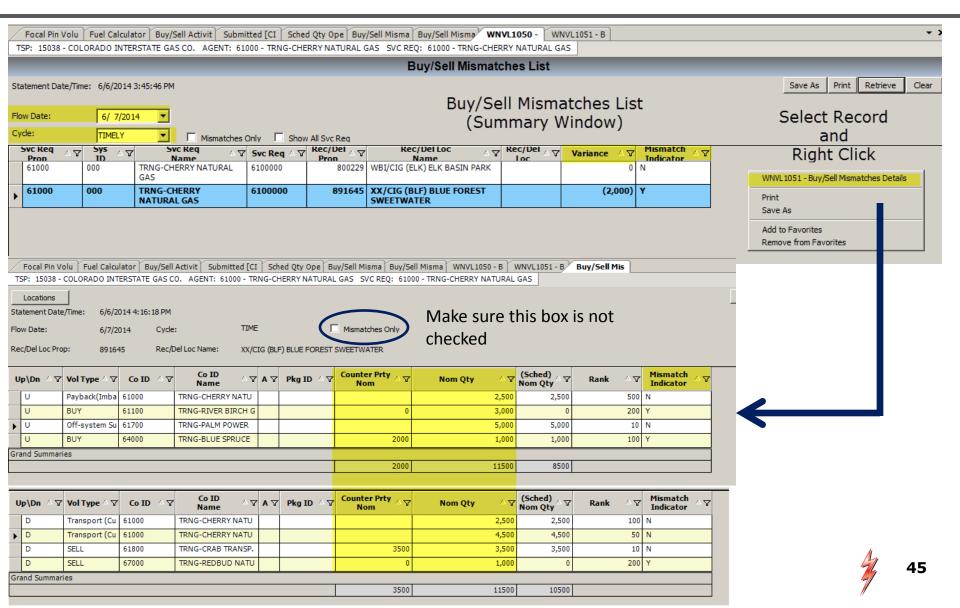4) Evaluate variable boxes and activate accordingly
5) Click on the "Copy' button

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Exercise #9

➢ **Exercise Scenario/Parameters:**

- **Copying nominations in DART**
  - Start by "adding" a new Batch file
  - Batch begin date: _____
  - Batch end date: _____
  - Fill in contact information as appropriate
  - Save the Batch file
  - Select "Copy Old Nominations" from the pop up window
    - Select 1 of the existing nomination PIN locations to copy into your new Batch file

Viewing Buy/Sell Mismatches

Exercise #10

➤ **Exercise Scenario/Parameters:**

- ▪ View Buy/Sell Mismatches List
  - Enter flow date for the Batch file we submitted to the pipeline in exercise #7
  - Select a record in the summary data grid that shows a "Variance"
  - Right click and select the "details" report
  - Make sure "Mismatches Only" box is unchecked
  - Find a Buy/Sell mismatch and report below
    - Your Volume is: _____; Counter party volume is_____

Viewing Scheduled Volumes

Summary Report

Viewing Scheduled Quantities

Viewing Scheduled Volumes

Right Click does not give you any further report options, however, double click the record for additional scheduled volume detail

Viewing Scheduled Volumes

TSP: 15038 - COLORADO INTERSTATE GAS CO.   AGENT: 61000 - TRNG-CHERRY NATURAL GAS   SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

[Retrieve]   [Print / Export]
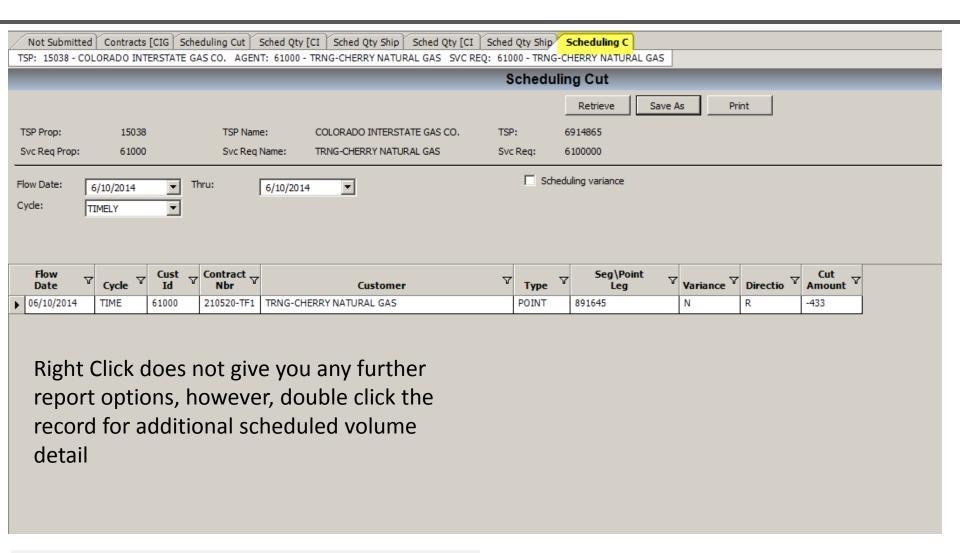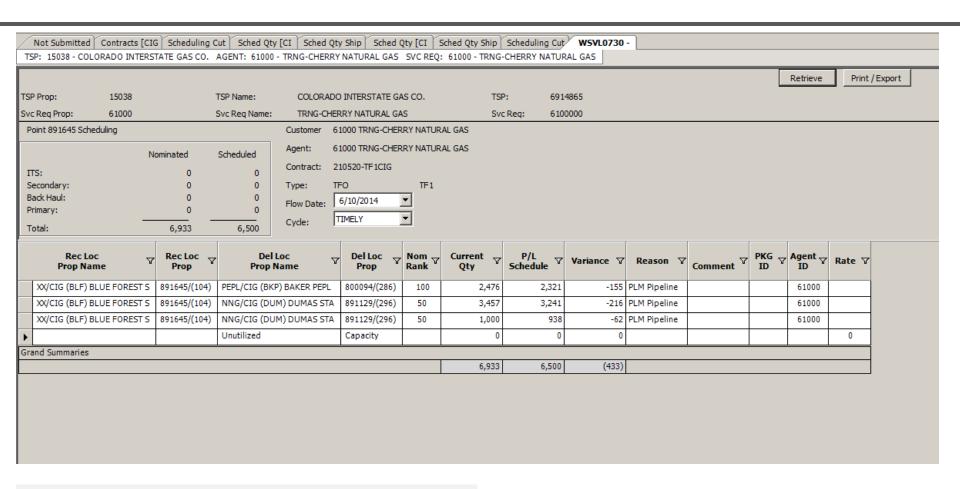
| TSP Prop: | 15038 | TSP Name: | COLORADO INTERSTATE GAS CO. | TSP: | 6914865 |
| Svc Req Prop: | 61000 | Svc Req Name: | TRNG-CHERRY NATURAL GAS | Svc Req: | 6100000 |

Point 891645 Scheduling

	Nominated	Scheduled
ITS:	0	0
Secondary:	0	0
Back Haul:	0	0
Primary:	0	0
Total:	6,933	6,500

Customer   61000 TRNG-CHERRY NATURAL GAS
Agent: 61000 TRNG-CHERRY NATURAL GAS
Contract: 210520-TF1CIG
Type: TFO   TF1
Flow Date: 6/10/2014 ▼
Cycle: TIMELY ▼

Rec Loc Prop Name	Rec Loc Prop	Del Loc Prop Name	Del Loc Prop	Nom Rank	Current Qty	P/L Schedule	Variance	Reason	Comment	PKG ID	Agent ID	Rate
XX/CIG (BLF) BLUE FOREST S	891645/(104)	PEPL/CIG (BKP) BAKER PEPL	800094/(286)	100	2,476	2,321	-155	PLM Pipeline			61000	
XX/CIG (BLF) BLUE FOREST S	891645/(104)	NNG/CIG (DUM) DUMAS STA	891129/(296)	50	3,457	3,241	-216	PLM Pipeline			61000	
XX/CIG (BLF) BLUE FOREST S	891645/(104)	NNG/CIG (DUM) DUMAS STA	891129/(296)	50	1,000	938	-62	PLM Pipeline			61000	
		Unutilized	Capacity		0	0	0					0

Grand Summaries

| | | | | | 6,933 | 6,500 | (433) | | | | | |

Scheduling Cut Que Detail Screen

Exercise #11

🎯 Exercise Scenario/Parameters:

- Retrieve and review scheduled volumes shipper report

  - Did any of your transactions get reduced? Yes   or   No (Circle one)

  - How much was your transaction reduced? _____

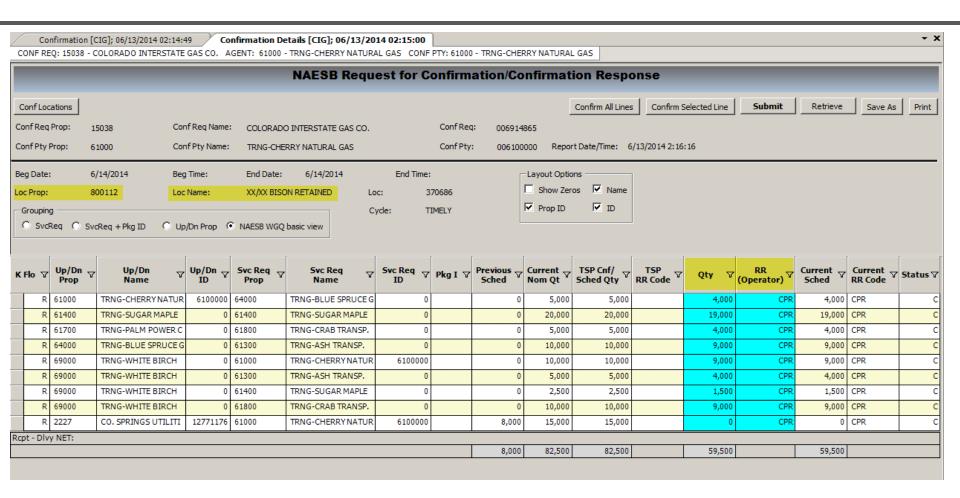 - Identify any Reduction Reason Codes that actually caused a reduction:

    _____   _____   _____   _____   _____

DART Confirmations

Reviewing Confirmations

Scheduled Quantities - Operator

WNVL0007_RS

Preparer ID Prop: 15038   Preparer Name: COLORADO INTERSTATE GAS CO.   Preparer ID: 6914865

Statement Date/Time: 6/13/2014   2:29:50PM

Final Sched Qty Operator Detail   TIME   Cycle

NOTE: Scheduled Quantities are subject to change until the NAESB Scheduled Quantities deadline of each cycle. Fields with labels in red italics are ordered persuant to NAESB 4.3.73

Recipient: 6100000   Level: OPR   Beg Date: 06/14/2014   End Date: 06/14/2014   Cycle: TIME

Recipient Name: TRNG-CHERRY NATURAL GAS   Loc Prop: 800112   Loc Name: XX/XX BISON RETAINED LIQUIDS PAYBAC

K Flo: R

Up ID Prop	Up Name	Up ID	Svc	Svc Req Name	Svc Req	Pkg ID	Prev Sched Qty	Current Nom Qty	TSP Cnf Sched Qty	TSP RR	Qty (Oper Conf)	RR	Qty (Final Sched)	Sched Stat	R Qty (Variance)
61000	TRNG-CHERRY NATURAL GAS	6100000	61000	TRNG-CHERRY NATURAL GAS	6100000		0	5,000	5,000	PRD	4,000		4,000	C	1,000
61000	TRNG-CHERRY NATURAL GAS	6100000	2227	CO. SPRINGS UTILITIES	127711760		10,000	15,000	15,000	PRD	0		0	C	15,000
61000	TRNG-CHERRY NATURAL GAS	6100000	64000	TRNG-BLUE SPRUCE GAS MARKET	0		0	10,000	10,000	PRD	9,000		9,000	C	1,000
61000	TRNG-CHERRY NATURAL GAS	6100000	61700	TRNG-PALM POWER CO.	0		0	5,000	5,000	PRD	4,000		4,000	C	1,000
61000	TRNG-CHERRY NATURAL GAS	6100000	61400	TRNG-SUGAR MAPLE GAS	0		0	20,000	20,000	PRD	19,000		19,000	C	1,000
61000	TRNG-CHERRY NATURAL GAS	6100000	69000	TRNG-WHITE BIRCH GAS PRODUCT	0		0	27,500	27,500	PRD	23,500		23,500	C	4,000
Total:							10,000	82,500	82,500		59,500		59,500		23,000

Scheduled Quantities - Shipper

WNVL0004_RS

Preparer ID Prop: 15038

Preparer Name: COLORADO INTERSTATE GAS CO.

Preparer ID: 6914865

Statement Date/Time: 06/13/2014 14:39:14

Final Scheduled Quantity Shipper/UDP Detail

Cycle TIME

NOTE: Scheduled Quantities are subject to change until the NAE SB Scheduled Quantities deadline of each cycle. Fields with labels in red italics are ordered persuant to NAE SB 4.3.73

Recipient: 6100000   **Begin Date:** 06/14/2014   **End Date:** 06/14/2014   **Cycle:** TIME

Recipient Name: TRNG-CHERRY NATURAL GAS   **Loc Prop :** 800112

Upstream

TT	Vol Type	Svc Req K	Loc Prop	Rec Loc Name	Up ID Prop (Offsys)	Up Name (Offsys)	Up ID (Offsys)	Customer Nom Qty	Rec Qty (Sched)	Rec Qty Stat	RR	Pkg ID	R Qty Rec (Variance)	Up Rank/Del Rank
118	Off-system Supply	0	0		2227	CO. SPRINGS UTILITIES	127711760	15,000	0	CNF	CPR		15,000	500
118	Off-system Supply	0	0		69000	TRNG-WHITE BIRCH GAS I	0	10,000	9,000	CNF	CPR		1,000	10
Total :								25,000	9,000					

Downstream

TT	Vol Type	Svc Req K	Loc Prop	Del Loc Name	Dn ID Prop (Offsys)	Dn Name (Offsys)	Dn ID (Offsys)	Customer Nom Qty	Del Qty (Sched)	Del Qty Stat	RR	Pkg ID	R Qty Del (Variance)	Dn Rank/Rec Rank
01	Transport (Current B	210155-TF1CIG	800089	EPNG/CIG (BIG) BIG BLUE MC	0		0	15,000	2,425	CNF	PRR		12,575	500
01	SELL	0	0		64000	TRNG-BLUE SPRUCE GAS	0	2,000	2,000	CNF	CNM		0	10
01	SELL	0	0		61800	TRNG-CRAB TRANSP.	0	2,000	1,075	CNF	CNM		0	10
01	SELL	0	0		66000	TRNG-PINE TRANSPORTA	0	2,000	0	CNF	CNM		0	10
01	SELL	0	0		61300	TRNG-ASH TRANSP.	0	2,000	2,000	CNF	AOK		0	10
01	SELL	0	0		61400	TRNG-SUGAR MAPLE GAS	0	2,000	1,500	CNF	CNM		0	10
Total :								25,000	9,000					

Exercise #12

- Exercise Scenario/Parameters:
  - Review and interpret confirmed volumes reports
  - This will be done through the instructor's GID and will be presumed to be after confirmations has closed and the pipeline system is balanced
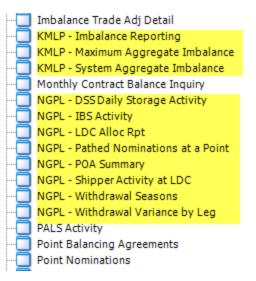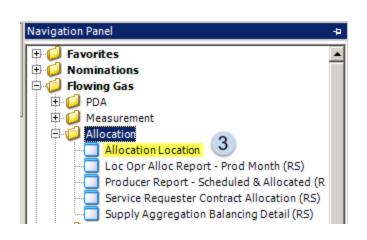
DART Reporting

DART Tip

DART Reports:
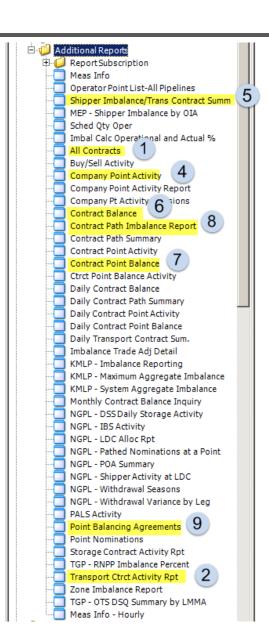If pipeline initials precede a report title – that report is only used on that pipeline.

Reports excerpt from DART Navigation Panel

Imbalance Trade Adj Detail
KMLP - Imbalance Reporting
KMLP - Maximum Aggregate Imbalance
KMLP - System Aggregate Imbalance
Monthly Contract Balance Inquiry
NGPL - DSS Daily Storage Activity
NGPL - IBS Activity
NGPL - LDC Alloc Rpt
NGPL - Pathed Nominations at a Point
NGPL - POA Summary
NGPL - Shipper Activity at LDC
NGPL - Withdrawal Seasons
NGPL - Withdrawal Variance by Leg
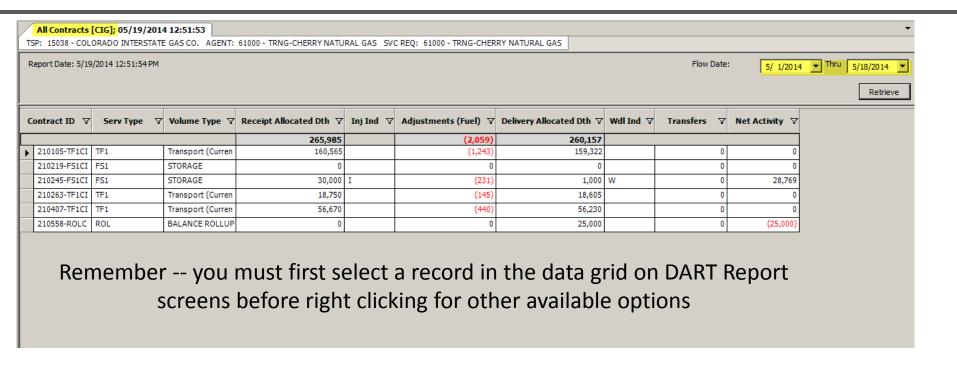PALS Activity
Point Balancing Agreements
Point Nominations

Allocation-related Reports in DART

1 – All Contracts Report

TSP: 15038 - COLORADO INTERSTATE GAS CO. AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

Report Date: 5/19/2014 12:51:54 PM

Flow Date: 5/ 1/2014 ▼ Thru 5/18/2014 ▼

Retrieve

Contract ID	Serv Type	Volume Type	Receipt Allocated Dth	Inj Ind	Adjustments (Fuel)	Delivery Allocated Dth	Wdl Ind	Transfers	Net Activity
			265,985		(2,059)	260,157			
210105-TF1CI	TF1	Transport (Curren	160,565		(1,243)	159,322		0	0
210219-FS1CI	FS1	STORAGE	0		0	0		0	0
210245-FS1CI	FS1	STORAGE	30,000	I	(231)	1,000	W	0	28,769
210263-TF1CI	TF1	Transport (Curren	18,750		(145)	18,605		0	0
210407-TF1CI	TF1	Transport (Curren	56,670		(440)	56,230		0	0
210558-ROLC	ROL	BALANCE ROLLUP	0		0	25,000		0	(25,000)

Remember -- you must first select a record in the data grid on DART Report screens before right clicking for other available options

Right Click Functionality ➡️

Retrieve

WIVL2100 - Ctrct Point Balance Activity
WIVL2040 - Contract Point Balance
WIVL1050 - Contract Point Activity
WIVL1181 - Shipper Imbalance/Trans Contract Summary
WIVL6070 - PALS Activity

Print
Save As

Add to Favorites
Remove from Favorites
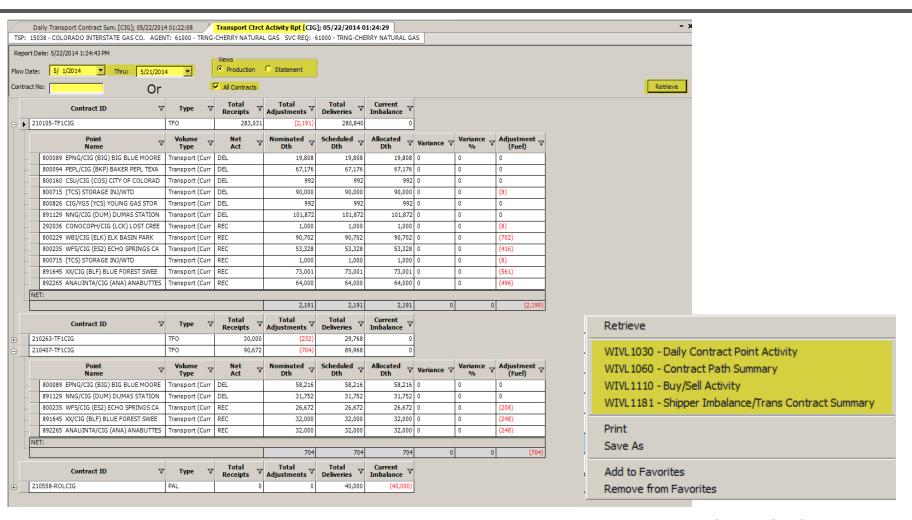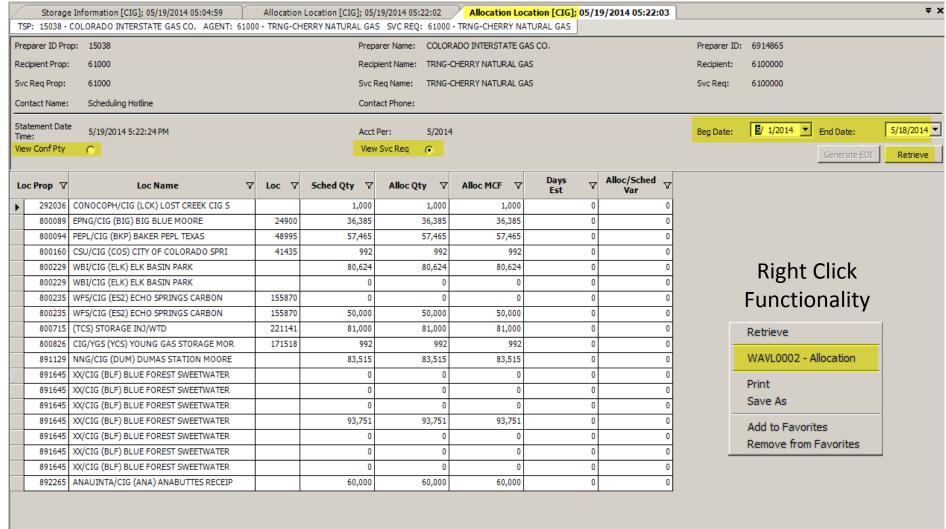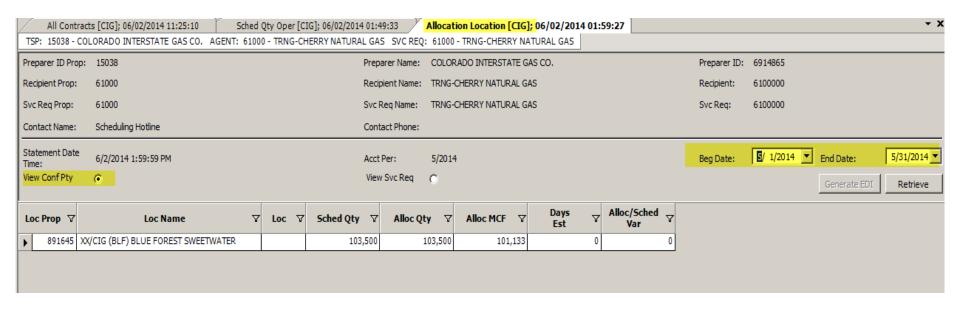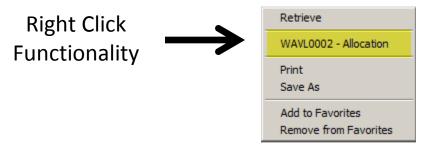
2 – Transport Contract Activity Report
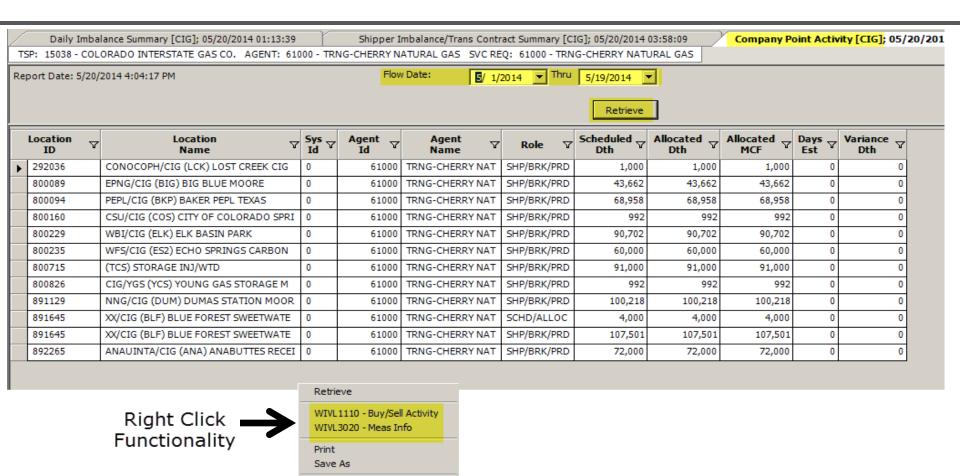
3 – Allocation Location Report (Shipper)
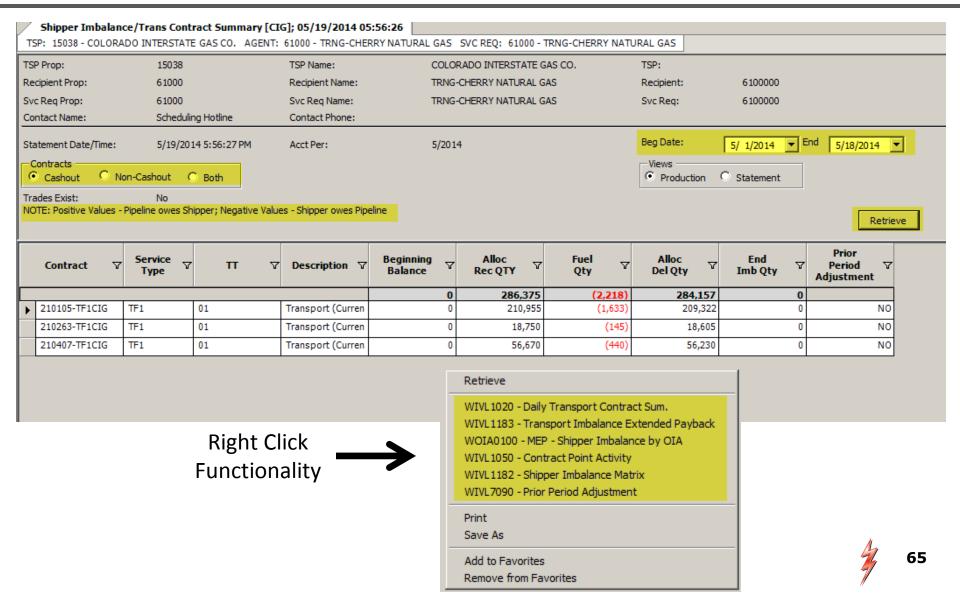
3 – Allocation Location Report (Operator)
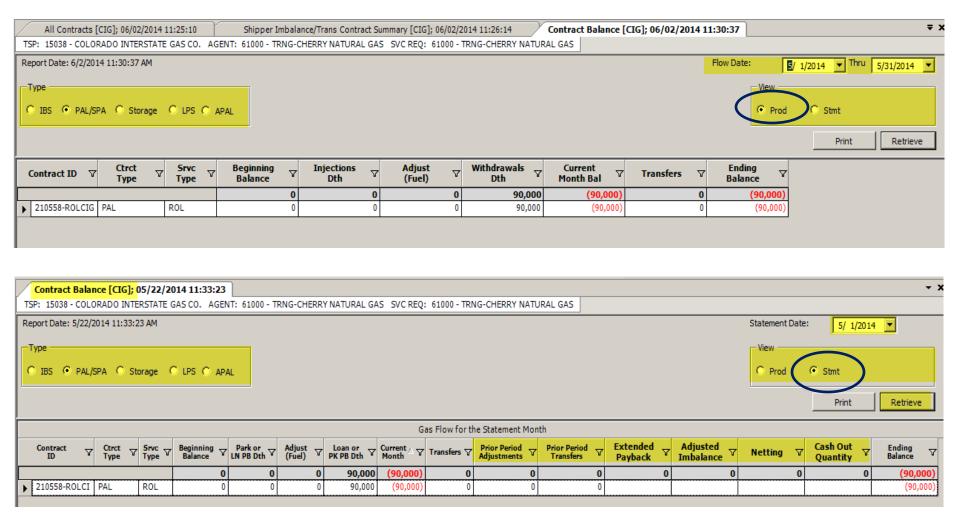
4 – Company Point Activity Report

Daily Imbalance Summary [CIG]; 05/20/2014 01:13:39	Shipper Imbalance/Trans Contract Summary [CIG]; 05/20/2014 03:58:09	**Company Point Activity [CIG]; 05/20/201**

TSP: 15038 - COLORADO INTERSTATE GAS CO.   AGENT: 61000 - TRNG-CHERRY NATURAL GAS   SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

Report Date: 5/20/2014 4:04:17 PM

Flow Date: 5/ 1/2014 ▼ Thru 5/19/2014 ▼

Retrieve

Location ID	Location Name	Sys Id	Agent Id	Agent Name	Role	Scheduled Dth	Allocated Dth	Allocated MCF	Days Est	Variance Dth
292036	CONOCOPH/CIG (LCK) LOST CREEK CIG	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	1,000	1,000	1,000	0	0
800089	EPNG/CIG (BIG) BIG BLUE MOORE	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	43,662	43,662	43,662	0	0
800094	PEPL/CIG (BKP) BAKER PEPL TEXAS	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	68,958	68,958	68,958	0	0
800160	CSU/CIG (COS) CITY OF COLORADO SPRI	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	992	992	992	0	0
800229	WBI/CIG (ELK) ELK BASIN PARK	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	90,702	90,702	90,702	0	0
800235	WFS/CIG (ES2) ECHO SPRINGS CARBON	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	60,000	60,000	60,000	0	0
800715	(TCS) STORAGE INJ/WTD	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	91,000	91,000	91,000	0	0
800826	CIG/YGS (YCS) YOUNG GAS STORAGE M	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	992	992	992	0	0
891129	NNG/CIG (DUM) DUMAS STATION MOOR	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	100,218	100,218	100,218	0	0
891645	XX/CIG (BLF) BLUE FOREST SWEETWATE	0	61000	TRNG-CHERRY NAT	SCHD/ALLOC	4,000	4,000	4,000	0	0
891645	XX/CIG (BLF) BLUE FOREST SWEETWATE	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	107,501	107,501	107,501	0	0
892265	ANAUINTA/CIG (ANA) ANABUTTES RECEI	0	61000	TRNG-CHERRY NAT	SHP/BRK/PRD	72,000	72,000	72,000	0	0

Retrieve

WIVL 1110 - Buy/Sell Activity
WIVL 3020 - Meas Info

Print
Save As

Add to Favorites
Remove from Favorites

Right Click Functionality →

5 – Shipper Imbalance/Transport Contract Summary

Shipper Imbalance/Trans Contract Summary [CIG]; 05/19/2014 05:56:26

TSP: 15038 - COLORADO INTERSTATE GAS CO. AGENT: 61000 - TRNG-CHERRY NATURAL GAS SVC REQ: 61000 - TRNG-CHERRY NATURAL GAS

TSP Prop:	15038	TSP Name:	COLORADO INTERSTATE GAS CO.	TSP:	
Recipient Prop:	61000	Recipient Name:	TRNG-CHERRY NATURAL GAS	Recipient:	6100000
Svc Req Prop:	61000	Svc Req Name:	TRNG-CHERRY NATURAL GAS	Svc Req:	6100000
Contact Name:	Scheduling Hotline	Contact Phone:			

Statement Date/Time: 5/19/2014 5:56:27 PM   Acct Per: 5/2014   Beg Date: 5/1/2014 End 5/18/2014

Contracts
- ● Cashout ○ Non-Cashout ○ Both

Views
- ● Production ○ Statement

Trades Exist: No
NOTE: Positive Values - Pipeline owes Shipper; Negative Values - Shipper owes Pipeline

Retrieve

Contract	Service Type	TT	Description	Beginning Balance	Alloc Rec QTY	Fuel Qty	Alloc Del Qty	End Imb Qty	Prior Period Adjustment
				0	286,375	(2,218)	284,157	0	
210105-TF1CIG	TF1	01	Transport (Curren	0	210,955	(1,633)	209,322	0	NO
210263-TF1CIG	TF1	01	Transport (Curren	0	18,750	(145)	18,605	0	NO
210407-TF1CIG	TF1	01	Transport (Curren	0	56,670	(440)	56,230	0	NO

Right Click Functionality →

Retrieve

WIVL1020 - Daily Transport Contract Sum.
WIVL1183 - Transport Imbalance Extended Payback
WOIA0100 - MEP - Shipper Imbalance by OIA
WIVL1050 - Contract Point Activity
WIVL1182 - Shipper Imbalance Matrix
WIVL7090 - Prior Period Adjustment

Print
Save As

Add to Favorites
Remove from Favorites

6 – Contract Balance

7 – Contract Point Balance

Right Click Functionality

8 – Contract Path Imbalance Report

CIG
CONTRACT IMBALANCE BY PATH
61000 TRNG-CHERRY NATURAL GAS
Nominated Volumes from 5/1/2014 thru 5/20/2014

Contract: 210105-TF1CIG

	891645 / 891129				892265 / 800094				892265 / 891129					Total			
	XX/CIG (BLF) BLUE FOREST SWEETWA				ANAUINTA/CIG (ANA) ANABUTTES RE				ANAUINTA/CIG (ANA) ANABUTTES RE								
	NNG/CIG (DUM) DUMAS STATION MO(				PEPL/CIG (BKP) BAKER PEPL TEXAS				NNG/CIG (DUM) DUMAS STATION MO(								
Day	Rcpt	Fuel	Dlvy	Imbal	Rcpt	Fuel	Dlvy	Imbal	Rcpt	Fuel	Dlvv	Imbal		Rcpt	Fuel	Dlvy	Imbal
1	0	0	0	0	0	0	0	0	0	0	0	0		35079	271	34808	0
2	0	0	0	0	0	0	0	0	0	0	0	0		2000	16	1984	0
3	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
7	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
8	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
9	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
10	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
11	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
12	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
13	0	0	0	0	0	0	0	0	0	0	0	0		10078	78	10000	0
14	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
15	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
16	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
17	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
18	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
19	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
20	6000	46	5954	0	4500	35	4465	0	3500	27	3473	0		20666	160	20506	0
	42000	322	41678	0	31500	245	31255	0	24500	189	24311	0		262365	2031	260334	0

Legend: -Imbal = short to P/L
+Imbal = long to P/L

9 – Point Balancing Agreements
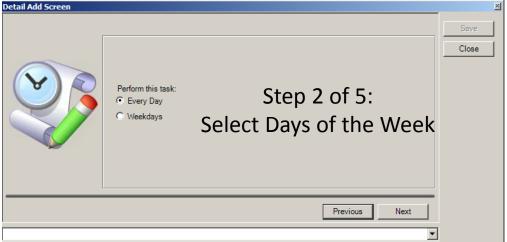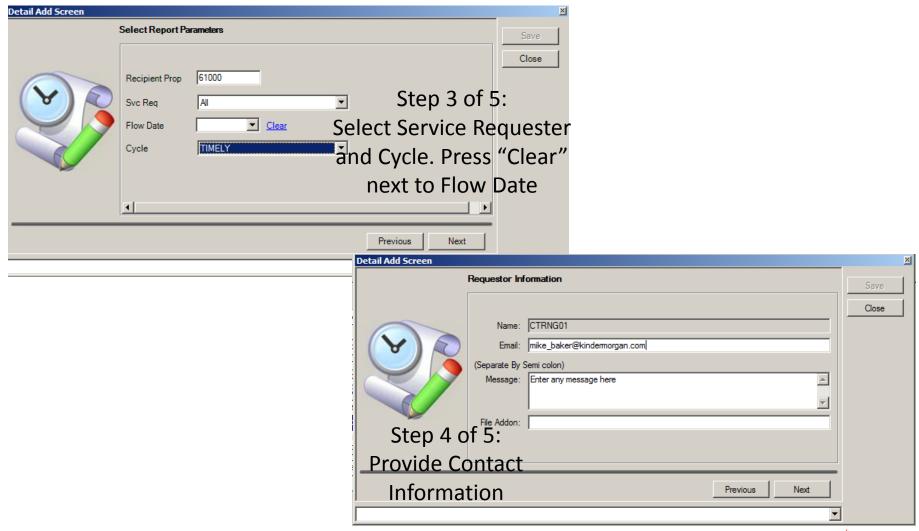

Right Click Functionality →

Report Subscription

1) Red-highlighted reports are currently subscribed
2) Select a new report and right click for more options
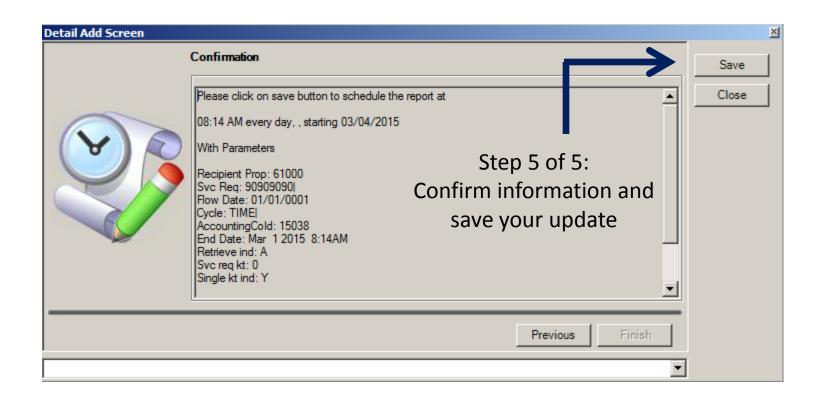3) Select "Add Schedule" from pop up window

Report Subscription

Detail Add Screen

Save

Close

- ◉ Daily
- ○ Weekly
- ○ Monthly
- ○ One Time Only

Step 1 of 5:
Select Frequency

Previous   Next

Detail Add Screen

Save

Close

Perform this task:
- ◉ Every Day
- ○ Weekdays

Step 2 of 5:
Select Days of the Week

Previous   Next

Report Subscription

Detail Add Screen

Select Report Parameters

Recipient Prop: 61000

Svc Req: All

Flow Date: _____ Clear

Cycle: TIMELY

Save | Close

Previous | Next

Step 3 of 5: Select Service Requester and Cycle. Press "Clear" next to Flow Date

Detail Add Screen

Requestor Information

Name: CTRNG01

Email: mike_baker@kindermorgan.com
(Separate By Semi colon)

Message: Enter any message here

File Addon:

Save | Close

Previous | Next

Step 4 of 5: Provide Contact Information

Report Subscription

Detail Add Screen

Confirmation

Please click on save button to schedule the report at

08:14 AM every day, , starting 03/04/2015

With Parameters

Recipient Prop: 61000
Svc Req: 90909090|
Flow Date: 01/01/0001
Cycle: TIME|
AccountingCold: 15038
End Date: Mar 1 2015 8:14AM
Retrieve ind: A
Svc req kt: 0
Single kt ind: Y

Save

Close

Step 5 of 5:
Confirm information and
save your update

Previous   Finish

Exercise #13

- Exercise Scenario/Parameters:
  - Subscribe to at least 1 report from the Report Subscription menu of reports
    - Go through the 5 steps we just went over and set you report parameters as you deem appropriate

Using Ranks in DART

Using Ranks in DART

- Up to five ranks in a pathed transaction
  - Upstream and Downstream ranks at the Receipt PIN
  - Upstream and Downstream ranks at the Delivery PIN
  - Ranks placed on the paths
    - Used in pipeline segment scheduling only
- A rank can be anywhere from 1 (highest priority) to 999 (lowest priority)
- DART's default rank is 500

Ranks Example

Exercise #14

- ➤ Exercise Scenario/Parameters:
  - ■ Analyzing rank use in DART
    - Exercise Assumptions:
      - Fuel will be ignored in our exercise
      - All transaction line items equal 1,000 Dth received/1,000 Dth delivered
    - Exercise A:
      - Pipeline segment constraint #1 is reduced by 1,000 dth
        » Identify the PIN(s) and corresponding Up/Downstream item(s) that would get reduced as a result of the pipeline segment reduction

Exercise 14a

Exercise #14 (continued)

➤ Exercise Scenario/Parameters:

- Analyzing rank use in DART
  - Exercise Assumptions:
    - Fuel will be ignored in our exercise
    - All transaction line items equal 1,000 Dth received/1,000 Dth delivered
  - Exercise B:
    - At Recept PIN "A", Offsys Supply 1 is under confirmed by the operator by 1,000 Dth
    - Identify the PIN(s) and corresponding up/downstream item(s) thyat would get reduced as a result of the operator under confirmation

Ranks Example

Nominations Download and Upload

Download/Upload Nominations

Saving Your Downloaded Nominations File

Nominations Download File

Excel File w/3 Tabs
1) Supply Tab
2) Market Tab
3) Contract Paths

Supply Tab

	A	B	C	D	E	F	G	H
1	Rec Loc Prop	TT	Svc Req K	Up ID Prop	Up ID	Rec Qty (Gross)	Up Rank/Del Rank	Pkg ID
2	891645	1	0	61100	0	3000	200	
3	891645	118	0	61700	0	5000	10	
4	891645	1	0	64000	0	1000	100	
5	891645	1	0	66000	0	500	500	

Market Tab (A1 = Del Loc Prop)

	A	B	C	D	E	F	G	H
1	Del Loc Prop	TT	Svc Req K	Dn Id Prop	Dn ID	Del Qty (Net)	Dn Rank/Rec Rank	Pkg ID
2	800094	117	0	61800	0	2476	500	
3	891129	117	0	61800	0	4457	500	
4	891645	1	0	61800	0	3500	10	
5	891645	1	0	67000	0	1000	200	

Contract Paths Tab (A1 = Svc Req K)

	A	B	C	D	E	F	G	H	I	J
1	Svc Req K	TT	Rec Loc Prop	Dn Rank/Rec Rank	Rec Qty (Gross)	Del Loc Prop	Up Rank/Del Rank	Del Qty (Net)	Path Rank	Pkg ID
2	210105-TF1CIG	1	800229	1	0	800715	1	0	500	
3	210105-TF1CIG	3	892265	500	2500	891645	500	2500	500	
4	210520-TF1CIG	1	891645	100	2500	800094	500	2476	500	
5	210520-TF1CIG	1	891645	50	4500	891129	500	4457	500	

Uploading Nominations

Step 1

Create a new
Batch File
And save it

Step 2

Batch saved successfully

Copy Old Nominations | Enter New Nominations | Upload Nominations

Nominations Uploading (continued)

Nominations Uploading (continued)

Step 5
Finished

Exercise #15

🎯 Exercise Scenario/Parameters:

- ■ Download nominations
    - • Using one of your batch files you have created today:
        - – Navigate to the Batch Detail window
        - – Click on the "Download" button to download that set of nominations
        - – Follow the file save instructions provided earlier in class to save your downloaded files

Exercise #15 (continued)

- Exercise Scenario/Parameters:
  - Upload nominations
    - Using the nomination file you just downloaded:
      - Copy the downloaded file to a new file name (this will become your nominations upload file)
      - Make some changes (volumes, package ID, etc...) to the newly created nominations upload file
      - Create a new Batch File, with a begin date and an end date at the end of the month and save the batch file
      - When the feedback window pop ups up, select "Upload Nominations" button
      - Follow the 5 steps we just covered to uploading nominations

Workshop Training Objectives

After completing this training workshop, in DART you should be able to:

1) Set Favorites; Business and Individual Preferences; and Identify Open DART Screens

2) Create Batch files

3) Identify and match counterparty nomination information

4) Enter basic nominations using DART's Nomination Matrix

5) Copy nominations from one Batch file into a new Batch file

6) Review and interpret Scheduling and Confirmation Reports

7) Apply Ranks to your nominations

8) Sign up to automatically receive reports through Report Subscription

Questions?

KINDER MORGAN

www.kindermorgan.com

Contact us at:

Email: DARTConversionWest@KinderMorgan.com

Appendix A
Volume Type Codes

Common Volume Types for West Region KM Pipelines

	A	B	C	D	E	F
	Volume Code	**Most Common Volume Types On West Region KM Pipes**	**Volume Type Purpose**	**Detail Information Needed On The Transaction Line**		
				Up/Down Party GID	**Transport Contract**	**Up/Down K**
	01	Buy (Current Business)	Allows the Ability to Buy Gas from another West Region KM Pipeline Shipper at a Physical Focal Pin Without Using a Transportation Contract	Y	N	N
	01	Sell (Current Business)	Allows the Ability to Sell Gas to Another West Region KM Pipeline Shipper at a Physical West Region KM Focal Pin Without Using a Transportation	Y	N	N
	118	Off-System Supply	Used to Indicate the Intent to Bring Gas Onto a West Region KM Pipeline at a Focal Pin	Y	N	Y
	117	Off-System Market	Used to Indicate the Intent to Take Gas Off of a West Region KM Pipeline at a Focal Pin	Y	N	Y
	01	Transport (Current Business)	Used to Indicate Intent to Transport from One Focal Pin to Another	N	Y	N
	26	Park	Used to Indicate Intent to Park Gas Onto a TSP	N	Y	N
	28	Loan	Used to Indicate Intent to Loan Gas From a TSP	N	Y	N
	03	Payback (Imbalance Payback from TSP)	Used at a Focal Pin to Payback an Imbalance Off of a TSP	Y	Y	N
	04	Payback (Imbalance Payback to TSP)	Used at a Focal Pin to Payback an Imbalance Onto a TSP	Y	Y	N
	08	Pooling	Used to Indicate Intent to Aggregate Supply Using a Headstation Pooling Agreement	N	Y	N
	132	Wheeling	CIG Hub Service Volume Type - For Use in Place of a Transport (01) Volume Type for Hub Service	N	Y	N
	06	Injection (Storage Injection)	Used to Indicate Intent to Inject into Storage on CIG or High Plains	N	Y	N
	07	Withdrawal (Storage Withdrawal)	Used to Indicate Intent to Withdrawal from Storage on CIG or High Plains	N	Y	N
	27	Park Withdrawl	Used to Withdrawal From a Previous Park Onto the Pipeline	N	Y	N
	29	Loan Payback	Used to Payback To a Previous Loan Off of the Pipeline	N	Y	N

Appendix B
Various Transaction Examples
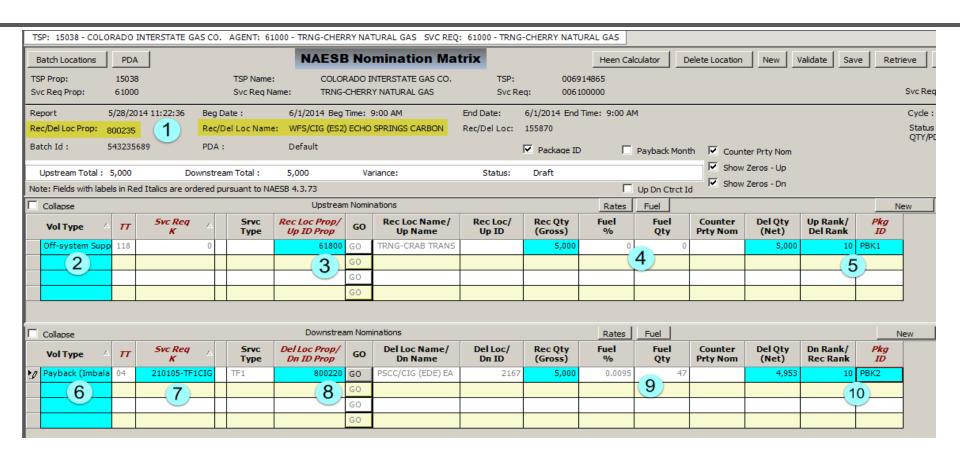
Payback – Pipeline Owes Shipper

1) Enter Focal PIN where payback is to occur
2) Select Payback (Imbalance Payback from TSP
3) Enter transport contract being paid back
4) Enter a PIN, other than focal PIN
5) Enter payback volume amount and rank
6) Enter disposition volume type
7) Enter GID you are connecting with at off-system market
8) Enter off-system market volume and rank

Payback – From Shipper to TSP

1) Enter Focal PIN where Payback takes place
2) Select source of additional gas to be paid back
3) Enter GID of the party you are receiving gas from
4) Enter payback volume
5) Enter Rank and Package ID as applicable
6) Select "Payback (Imbalance Payback to TSP)"
7) Enter transport contract containing imbalance
8) Enter a PIN (which is not the Focal PIN)
9) Enter payback volume
   (Remember, fuel is deducted for payback to TSP)
10) Enter Downstream Rank and Package ID, as applicable

Park Transaction Example

1) Enter Focal PIN where Park to occur
3) Enter Request Order Park (ROP) contract
5) Enter transaction rank

2) Select "Park" volume type from the drop down
4) Enter Park volume

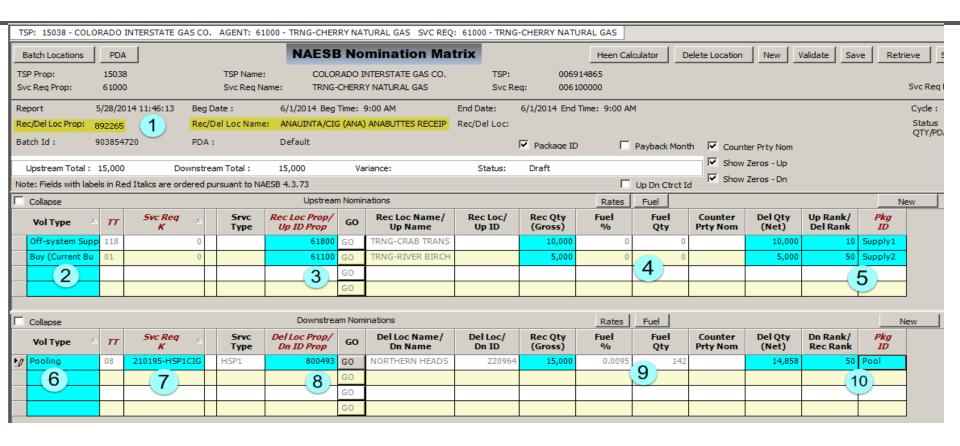# Loan Transaction Example

1) Enter Focal PIN where Loan is to occur
2) Select "Loan" volume type from the drop down
3) Enter Request Order Loan (ROL) contract
4) Enter Loan volume
5) Enter transaction rank

Supplying A Headstation Pool

1) Focal PIN of sourced gas
2) Source Volume Type (Buy, Off-sys supply, etc…)
3) GID of the counter party(s) supply your gas
4) Receipt volume(s)
5) Rank and Package ID, if applicable
6) Select "Pooling" from drop down menu
7) Enter your Pooling contract here
8) Enter the HSP Pool PIN for your Pool
9) Enter Pool volumes
10) Enter Rank and Package ID, as applicable
   (NOTE: In Production, fuel will not be taken when supplying a Pool)

Selling Out of a Headstation Pool

1) Focal PIN of your Pool
2) Enter Volume Type "Pooling"
3) Enter your HSP Pooling contract
4) Enter supply PIN supplying your pool
5) Enter volume amount you are selling from you Pool
6) Enter Rank and Package ID, if applicable
7) Typically select 'Sell' from the drop down menu
8) Enter the GID(s) of the buying party(s)
9) Enter Pool volumes
10) Enter Rank and Package ID, as applicable

Appendix C
DART Methodologies

'Threaded' versus 'Non-Threaded' Nominations

Xpress

Upstream Contract "A"	Receipt Location	K = 33XXX000	Delivery Location	Downstream Contract "B"

Upstream Contract "C"	Receipt Location	K = 33XXX000	Delivery Location	Downstream Contract "D"

Pathed, Threaded Nomination

DART

Supply A — Supply C → **Receipt PIN** → K = 33XXX000-TF1CIG (Path) → **Delivery PIN** ← Market B, Market D

Pathed, Non-Threaded Nomination

Nomination Model

✐ **Pathed, Non-Threaded Nominations**

NAESB nomination model used to nominate and schedule in DART

```
┌──────────┐          Transport K          ┌──────────┐
│  Supply  │ ─────────────────────────────▶│  Market  │
│   PIN    │                                │   PIN    │
└──────────┘                                └──────────┘
```
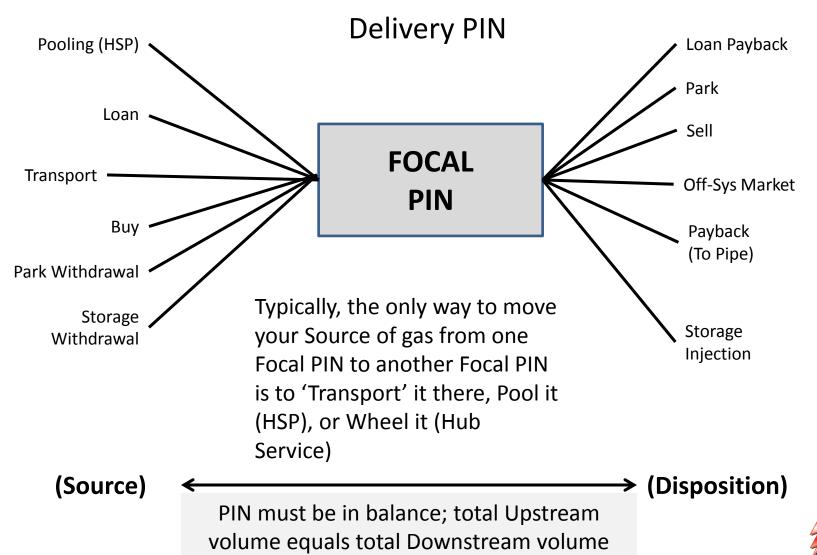
- The Non-Threaded model allows a shipper to separate commercial counterparty (buy/sell) transactions at specific locations from transportation transactions between locations

- Gives shippers *full control* of their business **via ranks**. Shippers can individually rank supplies and markets; receipt and delivery locations; and paths between receipt and delivery locations.

- This model allows independent ranking of contract paths separate from points

- Ranks at both the Supply and Market PINs will be used to distribute transaction reductions, as appropriate

DART = Focal PIN-Centric

Receipt PIN

Payback (From Pipe)

Pooling (HSP)

Loan

Off Sys Supply

Buy

Park Withdrawal

Storage Withdrawal

FOCAL PIN

Loan Payback

Park

Sell

Transport

Pooling (HSP)

Payback (To Pipe)

Storage Injection

(Source) ←——————————→ **(Disposition)**

PIN must be in balance; total Upstream volume equals total Downstream volume

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DART = Focal PIN Centric

Delivery PIN

Pooling (HSP)

Loan

Transport

Buy

Park Withdrawal

Storage Withdrawal

FOCAL PIN

Loan Payback

Park

Sell

Off-Sys Market

Payback (To Pipe)

Storage Injection

Typically, the only way to move your Source of gas from one Focal PIN to another Focal PIN is to 'Transport' it there, Pool it (HSP), or Wheel it (Hub Service)

(Source) ←→ **(Disposition)**

PIN must be in balance; total Upstream volume equals total Downstream volume
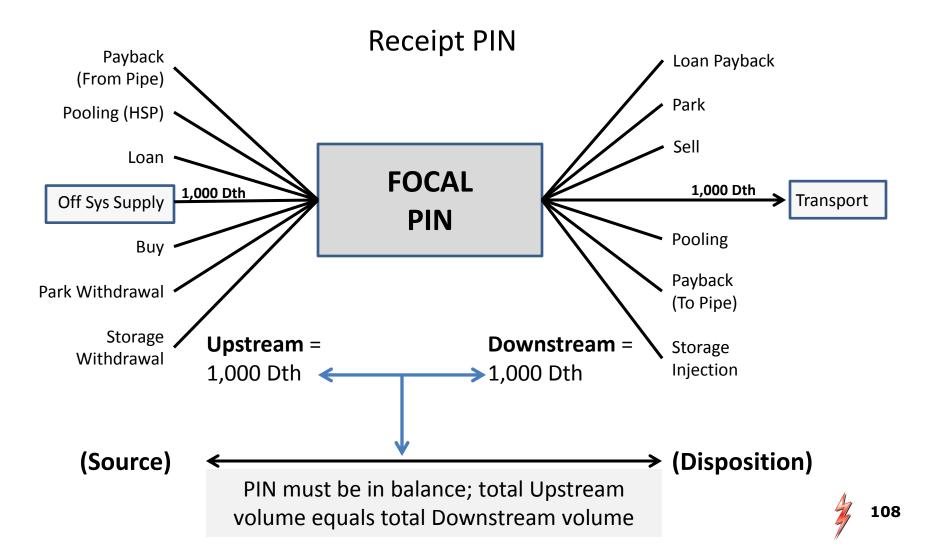
107

Upstream-Downstream Example 1

One **Upstream** source to one **Downstream** disposition at the same PIN

Receipt PIN

Payback (From Pipe)
Pooling (HSP)
Loan
Off Sys Supply — **1,000 Dth** →
Buy
Park Withdrawal
Storage Withdrawal

FOCAL PIN

Loan Payback
Park
Sell
1,000 Dth → Transport
Pooling
Payback (To Pipe)
Storage Injection

Upstream = 1,000 Dth ←→ **Downstream** = 1,000 Dth

(Source) ←————————→ **(Disposition)**

PIN must be in balance; total Upstream volume equals total Downstream volume

Upstream-Downstream Example 2

Multiple **Upstream** sources to single **Downstream** disposition at the same PIN

Receipt PIN

Payback (From Pipe)

Pooling (HSP)

Loan

Off Sys Supply — **1,000 Dth**

Buy — **1,000 Dth**

Park Withdrawal — **1,000 Dth**

Storage Withdrawal

FOCAL PIN

Loan Payback

Park

Sell

3,000 Dth → Transport

Pooling (HSP)

Payback (To Pipe)

Storage Injection

Upstream = 3,000 Dth ⟷ **Downstream** = 3,000 Dth

(Source) ⟷ **(Disposition)**

PIN must be in balance; total Upstream volume equals total Downstream volume

Upstream-Downstream Example 3

Multiple **Upstream** sources to multiple **Downstream** dispositions at the same single PIN

Receipt PIN

Payback (From Pipe)

Pooling (HSP)

Loan

Off Sys Supply — 1,000 Dth

Buy — 1,000 Dth

Park Withdrawal — 1,000 Dth

Storage Withdrawal

FOCAL PIN

Loan Payback

Park

Sell — 750 Dth

Transport — 1,750 Dth

Pooling (HSP) — 500 Dth

Payback (To Pipe)

Storage Injection

Upstream = 3,000 Dth

Downstream = 3,000 Dth

(Source) ⟷ **(Disposition)**

PIN must be in balance; total Upstream volume equals total Downstream volume

Upstream-Downstream Example 4

Delivery PIN

Pooling (HSP)

Loan

Transport — **3,000 Dth** — **FOCAL PIN**

Buy

Park Withdrawal

Storage Withdrawal

Loan Payback

Park

1,000 Dth — Sell

2,000 Dth — Off-Sys Market

Pooling (HSP)

Payback (To Pipe)

Storage Injection

Upstream = 3,000 Dth

Downstream = 3,000 Dth

(Source)

(Disposition)

PIN must be in balance; total Upstream volume equals total Downstream volume

Appendix D
Notable Xpress to DART Changes

Segment Scheduling

- ISP Scheduling changes to Segment Scheduling terminology/reporting
  - Very similar to the Xpress ISP model
  - Segment model closely resembles physical layout of the pipeline
  - Changing from ISP naming to segment naming conventions

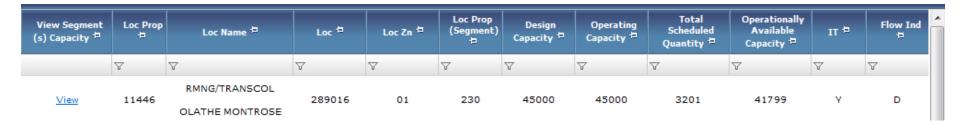# Operationally Available Capacity Reporting Changes

Xpress Today

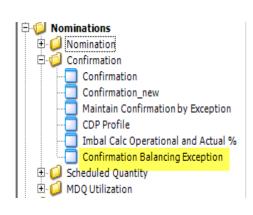| Post Date/Time	Effective Gas Day	Effective Time	Ending Effective Gas Day	Cycle	Run	Loc Prop	Location Name	Location	Loc Zn*	Loc Purp Desc	Loc/QTI Desc	Flow Indicator
5/6/2014 12:18:09 PM	05/06/2014	5:00 PM	05/07/2014	Intraday 1	FINAL	ELC	Elk Basin Compressor-Choke Point	221127	400	Main Line	Main Line	N
5/6/2014 12:18:09 PM	05/06/2014	5:00 PM	05/07/2014	Intraday 1	FINAL	ELK	Elk Basin	34584	400	Bi-Directional	Bi-Directional Point	D

In DART

Segment Reporting

View Point(s) Capacity	Loc Prop (Segment)	Loc Name (Segment)	Loc (Segment)	Loc Zn	Design Capacity	Operating Capacity	Total Scheduled Quantity	Operationally Available Capacity	IT	Flow Ind
View	220	WHITE WATER C.S. TO OLATHE C.S		01	341,000	341,000	38,987	302,013	Y	TD1
View	230	OLATHE C.S. TO RED VALE C.S.		01	362,500	362,500	38,383	324,117	N	TD1

Individual PIN Reporting

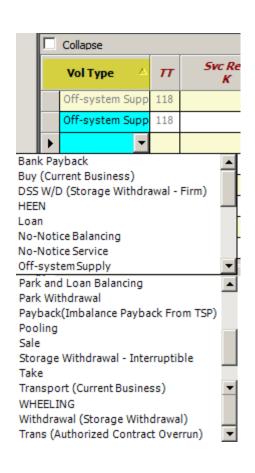| View Segment (s) Capacity	Loc Prop	Loc Name	Loc	Loc Zn	Loc Prop (Segment)	Design Capacity	Operating Capacity	Total Scheduled Quantity	Operationally Available Capacity	IT	Flow Ind
View	11446	RMNG/TRANSCOL OLATHE MONTROSE	289016	01	230	45000	45000	3201	41799	Y	D

Confirmation Balancing Exception

➤ DART will allow shippers to place their contracts on the Confirmation Balancing Exception Table

- Applies to Colorado Interstate Gas (CIG) only
- Allows shippers to keep either their supply or market whole when the other side of their transport transaction(s) are under confirmed
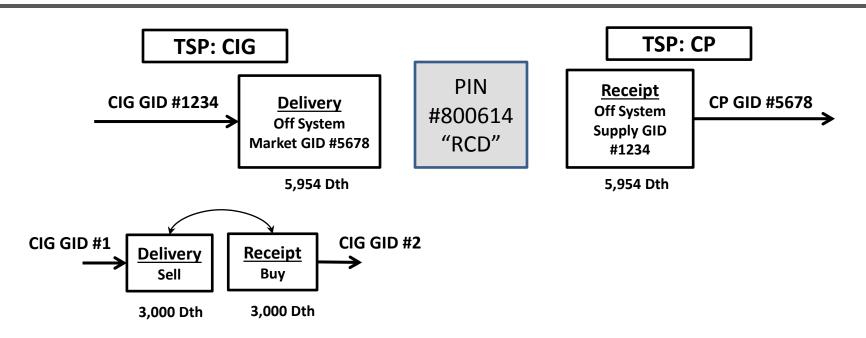- Should have Auto Park and Lend coverage (alternative is Scheduled Imbalance Penalty)

Using Volume Types

Collapse		
Vol Type △	**TT**	**Svc Re K**
Off-system Supp	118	
Off-system Supp	118	

Bank Payback
Buy (Current Business)
DSS W/D (Storage Withdrawal - Firm)
HEEN
Loan
No-Notice Balancing
No-Notice Service
Off-system Supply

Park and Loan Balancing
Park Withdrawal
Payback(Imbalance Payback From TSP)
Pooling
Sale
Storage Withdrawal - Interruptible
Take
Transport (Current Business)
WHEELING
Withdrawal (Storage Withdrawal)
Trans (Authorized Contract Overrun)

➤ The DART NAESB Nomination Matrix requires the user to select a "volume type"

- This selection then determines the additional fields that will need to be filled in on the nomination
- Not all Volume Types are valid for legacy Xpress pipelines
- Appendix B is a list of Volume Types used on legacy Xpress pipelines

Nominations Between KM Owned TSP's

1) Nominations at locations that cross Kinder Morgan TSPs require an Off System Market or Off System Supply Volume Type at a Focal Pin*
2) Nominations on the Same Kinder Morgan TSPs can use Buy / Sell Volume Types at a Focal Pin
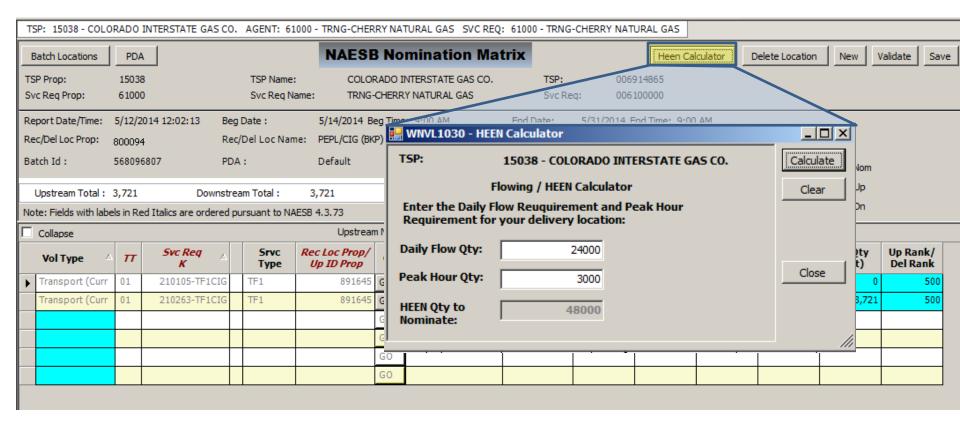3) Example shown does not depict transactions utilizing Off System Capacity as defined in the tariff.

* Further details for Volume Types when utilizing Off System Capacity Focal Pins will be forthcoming

Buy/Sell Replaces Location Pools

- DART Buy/Sell concept replaces Xpress Location Pooling and their contracts
- Buy and Sell at a PIN, at the GID level
- No more Location Pool contracts or Location Pool confirmation screens
- Headstation Pooling
  - Nominated using volume type "Pooling"
  - Regionally located on the pipeline
  - Supply sources associated to a specific pool
  - Headstation pool confirmations not necessary

Hourly Entitlement Enhancement Nomination (HEEN) Calculator

Appendix E
Scheduling Cycle Timelines

Cycle Timelines

Action	Timely, Cycle 1	Evening, Cycle 2	Intraday 1, Cycle 3	Intraday 2, Cycle 4
Nomination Deadline**	10:30 am	5:00 pm	9:00 am	4:00 pm
Scheduling Complete*	Between 11:30 am and Noon	Between 5:30 pm and 6:00 pm	Between 9:30 am and 10:00 am	Between 4:30 pm and 5:00 pm
Confirmation Deadline	2:30 pm	8:00 pm	Noon	7:00 pm
Final Scheduled Results	3:30 pm	9:00 pm	1:00 pm	8:00 pm

All Times are Colorado Time
* = Targeted times for completion
** = NAESB Deadline (seamless transactions); all others add 15 minutes