NGPL Comments on R97020

2/27/97 Mike Schisler

R97020 was drafted by the Market Settlement task force to address the inability of the GISB Imbalance Statement to accomodate all GISB nomination models. R97020 was drafted by MSTF partly in response to NGPL's R96124 requesting support for the Pathed Non-Threaded model. R97020 describes a new data element "Model Type" to be included as part of a revised Imbalance Statement. The proposed definition of the element mentions model types of "Pathed" and "Non-Pathed". The exclusion of "Pathed Non-Threaded" may be due to the fact that it is dealt with in NGPL's R96124 or, more likely, in anticipation of the new Model Type codes which describe pathed, non-pathed, pathed non-threaded "pathed and non-pathed segments". NGPL's recommended changes to the implementation materials apply to the Pathed Non-Threaded model only and assume the new Model Type codes (P,N,T,U). Additional changes for the Non Pathed model should be developed by the MSTF as needed. These recommended changes (attached) are displayed as bold italics for additions and strikeouts for deletions to the original GISB documentation.

These changes are required to reflect the business practices incorporated into the Pathed Non-Threaded nomination model. This nomination model was designed to remove the requirement of "threading" a supply quantity to a specific market. This is accomplished by allowing both aggregation and disaggregation of quantities at nominated points. The imbalance statement cannot reflect these practices without minor modification.

The recommended changes to the documentation are drafted so as to remove the requirements for Upstream and Downstream Identifiers on the imbalance statement for the Pathed Non-Threaded nomination model. The extent of the changes are as follows: 1) one data element (Model Type, which presently exists in nominations) has been added 2) the Upstream and Downstream identifiers and contract numbers remain "Conditional" in their useage, but the condition now includes "Not used for Pathed Non-Threaded model" on each.

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Contract imbalances occur when there is a difference between allocated receipt and delivery quantities, with a deduction for transportation fuel if applicable. A critical component in the development of a reliable, responsive natural gas administrative infrastructure involves the regular reporting of imbalances to the service requester (generally the shipper or its agent) by the service provider (generally the pipeline). Standard 2.3.28 addresses this by stating that "Imbalance statements should be generated at the same time or prior to the generation of the transportation invoice." The data elements described herein were identified as necessary to provide meaningful imbalance statements to all parties. ***The usage of these elements is dependant on the Model Type of the corresponding nomination.***

Mandatory and conditional data elements

Accounting Period:
: The accounting period to which the imbalance statement applies.

Adjustment Type:
: A code used to identify the type of adjustment made to the imbalance quantity. This information is required only if an adjustment has been made to the imbalance quantity (such as for trades, transfers, cashout, etc.)

Adjustment Quantity:
: The quantity, stated in standard units, of the imbalance adjustment.

Allocated Delivery Quantity:
: The allocated delivery quantity, stated in standard units.

Allocated Receipt Quantity:
: The allocated receipt quantity, stated in standard units.

Beginning Flow Date/Time:
: The beginning flow date and time for the period to which the imbalance statement applies.

Contact Person:
: Name and telephone number of the preparer company employee who is responsible for answering questions related to the information contained in the imbalance statement.

Delivery Location:
: The common code identifying the location where the allocated quantity was delivered by the transportation service provider.

Downstream Contract Identifier:
: Required if the Direction of Flow Indicator is a delivery. This is a contract number identified in the nomination record as the contract number of the party receiving the quantities from the service requester. The field may be blank if no information was provided on the nomination record.

Downstream Identifier Code:
: Required if the Direction of Flow Indicator is a delivery. This would be the common code for the party identified in the nomination record as the first owner of the gas on the interconnecting operator's facility.

Ending Flow Date/Time:
: The ending flow date and time for the period to which the imbalance statement applies.

Ending Imbalance Quantity:

The accumulated imbalance quantity as of the ending flow date/time.

Fuel Quantity:

The fuel quantity, stated in standard units, retained by the service provider for the period reflected on the imbalance statement.

Model Type:

This field identifies the type of nomination structure being used. Types are: Pathed, Non-Pathed and Pathed Non-Threaded.

Preparer ID:

The common code which identifies the party providing the imbalance statement.

Receipt Location:

The common code used to identify the location where the allocated quantity was received by the transportation service provider.

Service Requester Contract ID:

Identifies the service requester contract between the requester and provider.

Statement Basis:

A code indicating whether the imbalance information is an estimate, actual or revision. The revision code is used to identify prior period adjustments or adjustments to the imbalance quantity.

Statement Date/Time:

Date and time the statement was prepared.

Statement Recipient:

The common code which identifies the party receiving the imbalance statement.

Upstream Contract Identifier:

Required if the Direction of Flow Indicator is a receipt. This is the contract number identified in the nomination record as the contract number of the party supplying the quantities to the service requester. The field may be blank if no information was provided on the nomination record.

Upstream Identifier Code:

Required if the Direction of Flow Indicator is a receipt. This is the party identified in the nomination record as the last owner of the gas on the interconnecting operator's facility.

Other Data Elements

Adjustment Value:

The monetary value of an imbalance adjustment, if applicable to the service provider's business practices.

Bid Transportation Rate:

A rate which the service requester nominates in order to identify and receive different scheduling priorities for various packages of gas, if applicable to the service provider's business practices.

Capacity Type Indicator:

Identifies the type of capacity requested on the nomination, if both parties have agreed to support the information.

Ending Imbalance Value:

The accumulated imbalance value as of the ending flow date/time, if applicable to the service provider's business practices.

Imbalance Value:

The monetary value associated with the current period imbalance, if applicable to the service provider's business practices.

Operational Delivery Quantity:

An allocated delivery quantity, stated in standard units, upon which penalties or cashout are based if applicable to the service provider's business practices. This is usually initial allocated volume, which is not affected by subsequent reallocations.

Operational Receipt Quantity:

An allocated receipt quantity, stated in standard units, upon which penalties or cashout are based, if applicable to the service provider's business practices. This is usually the initial allocated volume, which is not affected by subsequent reallocations.

Package ID:

This is the identifier assigned to the transaction by the service requestor. The field will be populated if both parties have agreed to support the information and if it is provided to the statement preparer on the service requester's nomination.

Scheduled Delivery Quantity:

The quantity, stated in standard units, scheduled to be delivered by the service provider. These quantities can be used to calculate penalties or cashout, if applicable to the service provider's business practices.

Scheduled Receipt Quantity:

The quantity, stated in standard units, scheduled to be received by the service provider. These quantities can be used to calculate penalties or cashout, if applicable to the service provider's business practices.

Service Provider's Activity Code:

A unique code assigned by the service provider to identify the transaction.

Transaction Type:

A code used to identify the type of transaction which was requested by the service requester and scheduled by the service provider. The default value is routine current business. The field is populated if both parties have agreed to support the information and if it is provided to the statement preparer on the service requester's nomination.

Zone Identifier:

The service provider's geographic zone identification, if the service provider's business practices are such that imbalance resolution is handled at a zone level.

SAMPLE PAPER TRANSACTION
Pathed Model

[Header]
Preparer ID: ABC Pipeline Co. (987654321)
Imbalance Statement
Accounting Period: May 1996

Statement Date/Time: June 8, 1996 10:23PM

Contact Person: Joe Accountant
Phone: 1-800-555-1212
Customer: 12345XYZ Shipper (1234565789)

[Detail]
Service Requester Contract: X-1.0128
Model Type: P

	Quantity
Ending Imbalance Quantity	175

[Sub-Detail]

Receipt location:	K223188	Gathering Point #1	(123456789)
Delivery location:	203APool #1		(654321098)
Upstream Identifier Code:	144F5	Alpha Producing	(345678901)
Downstr Identifier Code:	HS45	Burke Mfg	(234567890)
Upstream Contract:	K1234		
Downstream Contract:	K5678		

[Sub-Sub-Detail]

Statement Basis:	Actual	Allocated Receipt Quantity:	100
Beginning Flow Date:	5/1/96 9:00 AM	Allocated Delivery Quantity:	90
Ending Flow Date:	6/1/96 9:00 AM	Fuel Quantity:	10

Prior Period Adjustments:

Statement Basis:	Revision	Allocated Receipt Quantity:	20
Beginning Flow Date:	4/3/96 9:00 AM	Allocated Delivery Quantity:	20
Ending Flow Date:	4/4/96 9:00 AM	Fuel Quantity:	0

note: this page is a duplicate of the previous page with exceptions as depicted.

SAMPLE PAPER TRANSACTION
Pathed Non-Threaded Model

[Header]
Preparer ID: ABC Pipeline Co. (987654321)
Imbalance Statement
Accounting Period: May 1996

Statement Date/Time: June 8, 1996 10:23PM

Contact Person: Joe Accountant
Phone: 1-800-555-1212
Customer: 12345XYZ Shipper (1234565789)

[Detail]
Service Requester Contract: X-1.0128
Model Type: T

	Quantity
Ending Imbalance Quantity	175

[Sub-Detail]

Receipt location:	K223188	Gathering Point #1	(123456789)
Delivery location:	203APool #1		(654321098)
~~Upstream Identifier Code:~~	~~144F5 Alpha Producing~~		~~(345678901)~~
~~Downstr Identifier Code:~~	~~HS45 Burke Mfg~~		~~(234567890)~~
~~Upstream Contract:~~	~~K1234~~		
~~Downstream Contract: K5678~~			

[Sub-Sub-Detail]

Statement Basis:		Actual		Allocated Receipt Quantity:	100
Beginning Flow Date:	5/1/96	9:00 AM		Allocated Delivery Quantity:	90
Ending Flow Date:		6/1/96	9:00 AM	Fuel Quantity:	10

Prior Period Adjustments:

Statement Basis:		Revision		Allocated Receipt Quantity:	20
Beginning Flow Date:	4/3/96	9:00 AM		Allocated Delivery Quantity:	20
Ending Flow Date:		4/4/96	9:00 AM	Fuel Quantity:	0

DATA DICTIONARY

Standard 2.4.4

Business Name	Definition	Usage	Condition
Accounting Period	The month and year the information was recorded.	M	
Adjustment Type	Identifies the type of adjustment.	C	For Imbalance - (e.g. trades, transfers, cashouts, storage, payback, PTR, fuel, makeup, penalty fuel, etc.) based upon adjustment of imbalance quantity
Adjustment Quantity	Quantity in standard units of the imbalance adjustment .	C	For Imbalance - based upon Adjustment Type
Adjustment Value	Monetary value of an imbalance adjustment.	BC	For Imbalance - based upon monetary imbalance resolution.
Allocated Delivery Quantity	The allocated quantity in standard units to be delivered.	M	
Allocated Receipt Quantity	The allocated quantity in standard units to be received at the allocation point or at the contract.	M	
Beginning Flow Date/Time	The date and time on which the transportation/transaction first started.	M	
Bid Transportation Rate	This field reflects the rate under which the shipper is requesting service.	BC	For Imbalance - required by transportation service providers that offer services where shippers are allowed to nominate a different rate and then receive a different priority in the scheduling of this capacity. The capacity is 're-tendered' daily under blanket contracts and several prices may be nominated under the same contract over an identical time period.
Capacity Type Indicator	Type of capacity being requested. For example: primary to primary, secondary to secondary, primary to secondary, secondary to primary, interruptible.	MA	
Contact Person	The name and telephone number of the contact for questions regarding the statement information.	M	
Delivery Location *	The location where the quantity will be scheduled for delivery by the transportation service provider.	M	
Downstream Contact Identifier	This field identifies the contract of the party who is receiving the quantities from the service requester.	C	For Imbalance - required if Delivery Location is present. ***Not used for Pathed Non-Threaded.***

Business Name	Definition	Usage	Condition
Downstream Identifier Code *	This field identifies the party who is receiving the quantities from the service requester.	C	For Imbalance - required if Delivery Location is present. ***Not used for Pathed Non-Threaded.***
Ending Flow Date/Time	The date and time on which the transportation/transaction ended.	M	
Ending Imbalance Quantity	The accumulated imbalance quantity at the end of the period.	M	
Ending Imbalance Value	The accumulated monetary imbalance value at the end of the period.	BC	For Imbalance - based upon monetary imbalance resolution.
Fuel Quantity	The quantity of fuel per allocation period in standard units.	M	
Imbalance Value	The monetary value associated with the current period imbalance.	BC	For Imbalance - based upon monetary imbalance resolution.
Model Type	***This field identifies the type of nomination structure being used. Types are: Pathed, Non-Pathed and Pathed Non-Threaded.***	***M***	
Operational Delivery Quantity	Allocated quantity in standard units upon which penalties may be based.	BC	For Imbalance - based upon whether penalties are accessed on the point.
Operational Receipt Quantity	Allocated quantity in standard units upon which penalties may be based.	BC	For Imbalance - based upon whether penalties are accessed on the point.
Package ID	Service Requester assigned identification number used to track packages of gas.	MA	
Preparer ID *	The name and address of the business party preparing the report.	M	
Receipt Location *	The location where the quantity will be scheduled for receipt by the transportation service provider.	M	
Scheduled Delivery Quantity	The shipper's scheduled quantity of gas in standard units to be delivered at the allocation point or to the contract.	BC	For Imbalance - based upon whether penalties are accessed on the contract.
Scheduled Receipt Quantity	The shipper's scheduled quantity of gas in standard units to be received at the allocation point or to the contract.	BC	For Imbalance - based upon whether penalties are accessed on the contract.
Service Provider's Activity Code	Service provider's code for the activity requested by service requester.	MA	
Service Requester Contract	This is the contract under which service is being requested.	M	

Business Name	Definition	Usage	Condition
Statement Basis	Code used to identify statement quantities as estimate, actual or revision. Default value is actual.	M	
Statement Date/Time	Date and time the statement was produced.	M	
Statement Recipient ID *	The intended user of the statement.	M	
Transaction Type	This field identifies the specific type of scheduling transaction. This field will be populated with GISB approved transaction types. For example: authorized overrun, imbalance payback to pipeline, imbalance payback from pipeline, plant thermal reduction, current business, pooling, injection, withdrawal. The default value is current business.	MA	
Upstream Contract Identifier	This field identifies the contract of the party who is supplying the quantities to the service requester.	C	For Imbalance - Required if Receipt Location is present. ***Not used for Pathed Non-Threaded.***
Upstream Identifier Code *	This field identifies the party who is supplying the quantities to the service requester.	C	For Imbalance - Required if Receipt Location is present. ***Not used for Pathed Non-Threaded.***
Zone Identifier	The transporter's geographic zone identification.	BC	For Imbalance - based on imbalance resolution allowed minimization at a zone level.

* Indicates Common Code

DATA ELEMENT CROSS REFERENCE TO ASC X12

Heading:

Segment	Usage	Segment Name/GISB Data Element Name
ST	M	Transaction Set Header
BIG	M	Beginning Segment
PER	M	Contact Person
DTM	M	Statement Date/Time
DTM	M	Accounting Period
N1	M	Statement Recipient ID
N1	M	Preparer ID

Detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Contract Level Sequential Line Item Number
LX	M	Contract Level Assigned Number
SI	M	Service Requester Contract
	M	***Model Type***
AMT	BC	Ending Imbalance Value
QTY	M	Ending Imbalance Quantity

Sub-detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Scheduled/Allocated Level Sequential Line Item Number
LX	M	Scheduled/Allocated Level Assigned Number
SI	MA	Capacity Type Indicator
	C	Downstream Contract Identifier
	C	Upstream Contract Identifier
	MA	Package ID
	MA	Service Provider's Activity Code
	BC	Zone Identifier
IT1	M	Baseline Item Data
N1	M	Delivery Location
N1	M	Receipt Location
N1	C	Upstream Identifier Code
N1	C	Downstream Identifier Code

Sub-sub-detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Date and Quantity Level Sequential Line Item Number
LX	M	Date and Quantity Level Assigned Number
SI	M	Statement Basis
	MA	Transaction Type
	C	Adjustment Type
AMT	BC	Adjustment Value
AMT	BC	Imbalance Value
AMT	BC	Bid Transportation Rate
DTM	M	Beginning Flow Date/Time
	M	Ending Flow Date/Time
QTY	BC	Scheduled Receipt Quantity
QTY	BC	Scheduled Delivery Quantity
QTY	BC	Operational Receipt Quantity
QTY	BC	Operational Delivery Quantity
QTY	M	Allocated Receipt Quantity
QTY	M	Allocated Delivery Quantity
QTY	M	Fuel Quantity
QTY	C	Adjustment Quantity

Summary:

Segment	Usage	Segment Name/GISB Data Element Name
TDS	M	Total Imbalance Amount
CTT	SO	Number of Line Items
SE	M	Transaction Set Trailer

SAMPLE ASC X12 TRANSACTION
Pathed Model

ST*811*0001
BIG*960608*1
PER*IC*JOE ACCOUNTANT*TE*18005551212
DTM*102*****DT*199606082223
DTM*582*****CM*199605
N1*40**1*123456789
N1*P1**1*987654321
HL*1**IB
LX*1
SI*AP*CR*X-1.0128***MN*P***
QTY*CP*175
HL*2*1*9
LX*1
SI*AP*UK*K1234*DK*K5678
IT1**0*ZZ*0
N1*DW**1*234567890
N1*US**1*345678901
N1*M2**29*123456789
N1*MQ**29*654321098
HL*3*2*IA
LX*1
SI*AP*SB*A
DTM*405*****RDT*199605010900-199606010900
QTY*87*100
QTY*QD*90
QTY*FC*10
LX*2
SI*AP*SB*R
DTM*405*****RDT*199604030900-199604040900
QTY*87*20
QTY*QD*20
QTY*FC*0
TDS*0
SE*34*0001

note: this page is a duplicate of the previous page except for changes as depicted.

SAMPLE ASC X12 TRANSACTION
Pathed Non-Threaded Model

ST*811*0001
BIG*960608*1
PER*IC*JOE ACCOUNTANT*TE*18005551212
DTM*102*****DT*199606082223
DTM*582*****CM*199605
N1*40**1*123456789
N1*P1**1*987654321
HL*1**IB
LX*1
SI*AP*CR*X-1.0128***MN*T***
QTY*CP*175
HL*2*1*9
LX*1
SI*AP~~*UK*K1234*DK*K5678~~
IT1**0*ZZ*0
~~N1*DW**1*234567890~~
~~N1*US**1*345678901~~
N1*M2**29*123456789
N1*MQ**29*654321098
HL*3*2*IA
LX*1
SI*AP*SB*A
DTM*405*****RDT*199605010900-199606010900
QTY*87*100
QTY*QD*90
QTY*FC*10
LX*2
SI*AP*SB*R
DTM*405*****RDT*199604030900-199604040900
QTY*87*20
QTY*QD*20
QTY*FC*0
TDS*0
SE*34*0001

TRANSACTION SET TABLES

DTM Segments (Heading)

Element Name	Usage	DTM01	DTM06
Statement Issue Date/Time	M	102	DT
Accounting Period	M	582	CM D8 RD8

SI 1000/234 Pairs (Sub-detail)

Element Name	Usage	Elem 1000	Elem 234	Description
Capacity Type Indicator	MA	CT	PP PS SS SP IT	Primary to Primary Primary to Secondary Secondary to Secondary Secondary to Primary Interruptible
Downstream Contract Identifier	C2	DK		Downstream Contract ID
Upstream Contract Identifier	C1	UK		Upstream Contract ID
Package ID	MA	PG		Service Requester Package ID
Service Provider's Activity Code	MA	SA		Service Provider's Activity Code
Zone Identifier	BC	ZN		Zone ID

Usage:

C1 Mandatory when the meter location is a receipt point (N101 = 'M2').

C2 Mandatory when the meter location is a delivery point (N101 = 'MQ').

N1 Segments (Sub-detail)

Element Name	Usage	N101	N103
Delivery Location	M	MQ	29
Receipt Location	M	M2	29
Upstream Identifier Code	C1	US	1
Downstream Identifier Code	C2	DW	1

Usage:

C1 Mandatory when the meter location is a receipt point (N101 = 'M2').

C2 Mandatory when the meter location is a delivery point (N101 = 'MQ').

SI 1000/234 Pairs (Sub-sub-detail)

Element Name	Usage	Elem 1000	Elem 234	Description
Statement Basis	M	SB	A	Actual
			E	Estimate
			R	Revision
Transaction Type	MA	TT	01	Current Business
			02	Authorized Overrun
			03	Imbalance Payback from Transportation Service Provider
			04	Imbalance Payback to Transportation Service Provider
			05	Plant Thermal Reduction
			06	Injection
			07	Withdrawal
			08	Pooling
			09	Imbalance Transfer
			10	Cashout
			11	Storage Transfer
Adjustment Type	C1	AJ	SQC	Scheduled quantity correction
			AQC	Actual quantity correction
			FQC	Fuel quantity correction

Usage:

C1 Mandatory when adjustments are made to the imbalance quantity.

AMT Segments (Sub-sub-detail)

Element Name	Usage	AMT01
Bid Transportation Rate	BC1	H
Imbalance Value	BC2	CL
Adjustment Value	BC3	BM

Usage:

BC1 Mandatory when present in the scheduled quantity dataset.

BC2 Mandatory when monetary imbalance resolutions used.

BC3 Mandatory when adjustments are made to the imbalance value.

QTY Segments (Sub-sub-detail)

Element Name	Usage	QTY01
Scheduled Receipt Quantity	BC1	38
Scheduled Delivery Quantity	BC1	39
Operational Receipt Quantity	BC2	05
Operational Delivery Quantity	BC2	04
Allocated Receipt Quantity	M1	87
Allocated Delivery Quantity	M1	QD
Fuel Quantity	M	FC
Adjustment Quantity	C1	PA

Usage:

BC1 Mandatory when penalties are assessed based on the scheduled quantity.

BC2 Mandatory when penalties are assessed based on the operational quantity.

M1 The receipt quantity and/or the delivery quantity must exist.

C1 Mandatory when adjustments are made to the imbalance quantity.