TENNESSEE GAS PIPELINE COMPANY

Flowing Gas Related Standards
EDI
Implementation Guide
Supplement

Draft Until Completion of Pre-Production Testing

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Tennessee Gas Pipeline

EDI Implementation Guide Supplement

For those customers using EDI, this supplement describes how to map the GISB dataset when you exchange information in an electronic format. The supplement is designed to be used with the *GISB Implementation Guide*. The *GISB Guides* contain the necessary information to prepare ANSI ASC X12 mappings of the datasets to exchange. The Tennessee supplement provides Tennessee business practices and includes tables indicating data elements and code values applicable to the way business is conducted on the Tennessee pipelines — Tennessee Gas Pipeline (TGP), East Tennessee Natural Gas Pipeline (ETN) and Midwestern Gas Transmission (MGT). Where Tennessee does not deviate from the GISB Standards, data element code values are not included.

Any questions about information contained in this supplement should be directed to your Tennessee Gas Pipeline Customer Service Representative.

Flowing Gas Related Standards

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Predetermined Allocation — 2.4.1

Technical Implementation of Business Process

Natural Gas is allocated among producers, operators, transporters, shippers, and others after gas flows, using various methodologies to allocate actual quantities. In order to manage the impact of actual quantities variance from scheduled quantities, the specification of the method to be used in allocating actual quantities prior to gas flow is imperative. A Pre-Determined Allocation (PDA) methodology will be utilized to accomplish this goal, by securing agreement of the allocating and the allocated parties as to the method to be used for computing the allocation, i.e., relating scheduled quantities to actual physical flow. The implementation of an agreed-upon PDA clarifies all parties' expectations and responsibilities prior to gas flow.

The PDA document can be provided by the *location operator, producer, or end user* at the meter for their appropriate allocation level, to the service provider (the pipeline) prior to the flow of gas. The PDA can be submitted at the same time as the nomination or during confirmation, but it is due before the start of gas day. *PDAs and nominations are independent of each other and PDAs will not be impacted by changes to nominations, only by submission of a revised PDA. The PDA data will be presented from the* ***nomination perspective*** *of the PDA Preparer. The service requester contract in each PDA, will correspond to the PDA Preparer's applicable* ***confirmation service contract*** *that is in place at the specific location. The* ***shipper transportation contract (the usual service requester contract)*** *will populate the upstream contract identifier or downstream contract identifier fields. Note, the associated EDI Allocation Statement will be presented from the shipper's perspective.*

The PDA document tells Tennessee not only what allocation method is chosen, but also communicates any parameters needed with the allocation method.

When the **allocation method** is Rank, Swing or Percentage, the additional parameters (the **allocation rank level**) may be needed in order to create a valid PDA. If all elements are not submitted at the same time, the PDA is not valid and will not be accepted, the measured volumes will be allocated using the prorata default methodology.

The beginning flow date/time and ending flow date/time are required and cannot reflect a time shorter then *one day*.

Allocation method and allocation rank level are applicable regardless of the level of allocation.

When there are no producers at a location (single-level allocation), a PDA statement is submitted by the *location operator* and reflects the allocation instructions for the total measured volume down *to the shipper transportation contract* level. *The operator's confirmation service contract populates the service requester contract field and dependent upon whether the direction of flow is receipt or delivery, this shipper's transportation*

contract will populate either the upstream contract identifier or downstream contract identifier field respectively.

When there are producers or end users at a location (multi-level allocation), each *producer or end user* submits the allocation instructions for only their business transactions; the operator is the only party who will submit a PDA for the total measured volume, but it will be at a summarized level, rather than down to a detailed *shipper transportation contract level.*

Multi-level allocation PDA statements submitted by the *location operator*, reflect the allocation instructions for the total measured volume down to the *producer or end user confirmation service contract* level. *The operator's confirmation service contract populates the service requester contract field and dependent upon whether the direction of flow is receipt or delivery, the producer's or end user's confirmation service contract will populate either the upstream contract identifier or downstream contract identifier field, respectively.*

Multi-level allocation PDA statements submitted by the location producer or end user, reflect the allocation instructions for their business transactions down to the *shipper transportation contract* level. *The producer's or end user's confirmation service contract populates the service requester contract field and dependent upon whether the direction of flow is receipt or delivery, the shipper's transportation contract will populate either the upstream contract identifier or downstream contract identifier field, respectively.*

DATA ELEMENTS

2.4.1 PD - Predetermined Allocation

Business Name	Definition	PD Usage	Condition	Tennessee Gas Pipeline Comments
Allocation Method	The allocation method used to allocate the gas.	M		
Allocation Rank Indicator	Additional information for gas allocated indicating a different allocation methodology for excess or under production	MA		TGP, ETN, MGT will not implement.
Allocation Rank Level	Values to implement the ranking or percentage method.	C	Based upon use of the ranking or percentage method.	TGP, ETN, MGT will implement.
Associated Contract		C	Mandatory when submitted in the nomination and Associated Contract is not used for storage balancing.	Not used in Nomination or Predetermined Allocation.
Beginning Flow Date/Time	The date and time on which the transportation/transaction first started. If the Beginning Flow time is not sent, the time defaults to the beginning of the gas day.	M		
Bid Transportation Rate	This field reflects the rate under which the shipper is requesting service.	BC	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.	TGP, ETN, MGT will not implement.
Contact Person	The name and telephone number of the contact for questions regarding the statement information.	M		

Business Name	Definition	PD Usage	Condition	Tennessee Gas Pipeline Comments
Direction of Flow	Allocated direction of flow (receipt from or delivery to) from the transportation service provider.	M		
Downstream Contract Identifier	This field identifies the contract of the party who is receiving the quantities from the service requester	BC	Determined by single or multi-tiered allocations	TGP, ETN, MGT will implement.
Downstream Identifier Code *	This field identifies the party who is receiving the quantities from the service requester.	BC	Determined by single or multi-tiered allocation.	TGP, ETN, MGT will implement.
Ending Flow Date/Time	The date and time on which the transportation/transaction ended. If the Ending Flow time is not sent, the time defaults to the end of the gas day.	M		
Limit Value	Additional information for gas allocated using the ranking method to allow limitation of variance on a transaction.	BC	Used if allowed to limit the amount allocated to a contract.	TGP, ETN, MGT will not implement.
Location Code *	Unique identification of a point	M		
Package ID	Service Requester assigned identification number used to track packages of gas.	MA		TGP, ETN, MGT will not implement at this time.
Preparer ID *	The name and address of the business party preparing the report.	M		
Service Provider's Activity Code	Service provider's code for the activity requested by the service requester.	MA		TGP, ETN, MGT will not implement.
Service Requester Contract	This is the contract under which service is being requested.	BC	Determined by single or multi-tiered allocation.	TGP, ETN, MGT will implement. Represents the PDA Preparer's applicable confirmation service contract that is in place at the specific location.
Service Requester ID *	Identifies the party requesting the service.	BC	Determined by single or multi-tiered allocation.	TGP, ETN, MGT will implement.

Business Name	Definition	PD Usage	Condition	Tennessee Gas Pipeline Comments
Statement Date/Time	Date and time the statement was produced.	M		
Statement Recipient ID *	The intended user of the statement.	M		
Upstream Contract Identifier	This field identifies the contract of the party who is supplying the quantities to the service requester.	BC	Determined by single or multi-tiered allocation.	TGP, ETN, MGT will implement.
Upstream Identifier Code *	This field identifies the party who is supplying the quantities to the service requester.	BC	Determined by single or multi-tiered allocation.	TGP, ETN, MGT will implement.

** Industry Common Code*

TRANSACTION SET TABLES

NONE

Where Tennessee does not deviate from GISB Standards, data element code values are not included. These lists are subject to change pending approval of additional codes by GISB.

Predetermined Allocation Quick Response — 2.4.2

Technical Implementation of Business Process

The PDA Quick Response process should perform two main functions: 1) to validate the requested allocation methodology, and 2) to quickly report back to the party submitting the PDA whether the requested allocation methodology has been accepted and approved. The validation process should include the validation of each data element which was included on the PDA. The Quick Response to the PDA, which will occur electronically, will include any error or warning messages related to the validation of the PDA data elements. These two processes, the submitting of the PDA and the Quick Response to the PDA, will be of great assistance in assuring that the welded parties will be in agreement with the subsequent allocation which will occur at the particular receipt or delivery point.

The **transaction status code** can be found at the beginning of the Quick Response Transaction. This code informs the receiver of the status of the entire transaction. When the code indicates that the request was accepted with no detail, then the receiver does not need to look any further to know that the transaction line items in the original request were accepted and no warnings were generated. Other status codes inform the receiver that error or warning messages were generated and the receiver must look further into the document to find those messages.

There may be error or warning messages that apply to the entire transaction. These messages will be found in the beginning (header) of the Quick Response Transaction.

DATA ELEMENTS

2.4.2 PQ - Predetermined Allocation Quick Response

Business Name	Definition	PQ Usage	Condition	Tennessee Gas Pipeline Comments
Preparer ID *	The name and address of the business party preparing the report.	M		
Statement Date/Time	Date and time the statement was produced.	M		
Statement Recipient ID *	The intended user of the statement.	M		
Validation Code	Code which indicates the errors or warnings that were issued in response to the originating document.	C	Required when the transaction status code indicates that an error or warning was issued.	
Validation Message	A text field which further explains the error or warning depicted by the Validation Code.	SO		When TGP, ETN, or MGT is the sender, additional validation message text will not be sent.

** Industry Common Code*

TRANSACTION SET TABLES

NONE

Where Tennessee does not deviate from GISB Standards, data element code values are not included. These lists are subject to change pending approval of additional codes by GISB.

Allocation — 2.4.5

Technical Implementation of Business Process

The EDI Allocation Statement data will be presented from the nomination perspective of the shipper (service requester). Note, any associated EDI PDAs will be presented from the nomination perspective of the PDA preparer.

The single-level allocation style requires that only a single allocation statement be sent to the operator. The total measured quantity as allocated to the service requester's level of detail should be included in the data transmission.

The multiple-level allocation style allows for providing information at varying levels of details. The operator shall receive allocation information for the total measured quantity at a summarized level. Other business parties (or their designated agents) with ownership of gas quantities at the location shall receive allocation information for their business transactions as opposed to an allocation of the total measured quantity.

Since allocations are performed at a location and it is possible for a location to have both receipt and delivery nominations, certain information is provided depending on the Direction of Flow Indicator. *It is appropriate to communicate the Upstream Identifier Code and the Upstream Contract Identifier for receipt nominations at a location. It is appropriate to communicate the Downstream Identifier Code and the Downstream Contract Identifier for delivery nominations at a location.* It is not appropriate to communicate upstream and downstream identification information for a single sub-detail line item unless title tracking is being performed. The usage of the service requester, upstream and downstream identification information is dependent upon the allocation style (single- or multiple-level) and allocation statement type (operator or marketer).

The data contained in the daily EDI allocation files will represent changes only (first-time and revised allocation).

Header Information	Used consistently in both single- and multiple-level allocations.
Preparer ID	Common code identifier for the party providing the allocation.
Statement Recipient	Common code identifier for the party receiving the allocation.
Contact Person	Name and telephone number of the person working for the preparer company responsible for answering questions concerning the information included in the transaction set.
Statement Date/Time	Date and time the statement was prepared.

Accounting Period	Accounting period in which the information provided applies.
Detail Information	Used consistently in both
Location Code	Common code for the location being allocated.
Statement Basis	Code indicating whether the allocation information is an estimate, actual, or revision. The revision code is used only to indicate prior period adjustments.
Adjustment Type	Code to indicate the cause of the adjustment , such as changes related to the measured quantities, correction to scheduled quantities, or correction of the predetermined allocation method. *We currently do not have a method to track/identify adjustments. Therefore, we will not use the prescribed elements in the transaction set table. This field will not be populated.*
Beginning Flow Date	Beginning flow date for the period being allocated.
Ending Flow Date	Ending flow date for the period being allocated. May be omitted if the beginning and ending date are the same.
Direction of Flow	Code indicating whether the nomination is a receipt into or a delivery out of the preparer's facility.
Sub-Detail Information	Usage of data elements is dependent upon the *Allocation Statement Type.*
Operator Allocation Statement Type	This is the allocation statement to be shared by interconnecting facility operators. This statement can be used for single-level (A1) and multiple-level (A3) allocation statement types. Information is provided from the perspective of the statement provider, meaning the upstream identifiers are provided for receipts and would indicate the supplier on the delivering facility, and downstream identifiers are provided for deliveries and would indicate the party with ownership on the receiving facility.

Service Requester Contract ID	Not required, but could be populated if mutually agreeable. Indicates the service requester contract with the party providing the allocation statement. This field will be omitted for the multiple-level (A3) allocation statement type, *but will be provided for the single-level (A1) operator allocations.*
Service Requester Identifier Code	Not required, but could be populated if mutually agreeable. Indicates the Business party requesting service from the party providing the allocation statement. This field will be omitted for the multiple-level (A3) allocation statement type, *but will be provided for the single-level (A1) operator allocations.*
Upstream Identifier Code	Mandatory depending upon the Direction of Flow Indicator showing a receipt. This field is populated with the business party that is the last owner of the gas on the interconnecting operator's facility and who is also the party supplying the gas either directly or through a marketing chain to the owner or the Service Requester ID (nominating party).
Upstream Contract Identifier	Mandatory depending upon the Direction of Flow Indicator showing a receipt. This field is populated with the contract on the interconnecting operator's facility of the party who is supplying the quantities to the service requester. May be omitted if no information was provided on the nomination.
Downstream Identifier Code	Mandatory depending upon the Direction of Flow Indicator showing a delivery. This field is populated with the business party that is the first owner receiving the gas on the interconnecting operator's facility either directly or through a marketing chain.
Downstream Contract Identifier	Mandatory depending upon the Direction of Flow Indicator showing a delivery. This field is populated with the contract on the interconnecting operator's facility of the party who is receiving the quantities. May be omitted if no information was provided on the nomination.
Scheduled Quantity	Mandatory field . Depending on the Direction of Flow Indicator, the statement preparer will populate this field with the Scheduled Receipt Quantity or Scheduled Delivery Quantity.
Allocated Quantity	Mandatory field . Depending on the Direction of Flow Indicator, the statement preparer will populate this field with the Allocated Receipt Quantity or Allocated Delivery Quantity

Package ID	*Not used.*
Service Provider's Activity Code	*Not used.*

Marketer Allocation Statement Type

Although this statement type can be used to communicate allocation information in a single-level allocation, this statement type (A2) is primarily used by parties performing multiple-level style allocations or performing title tracking. The statement is used to communicate allocated quantities *for both producers and end users.*

Service Requester Contract ID	*This field will be populated*. Indicates the service requester contract with the party providing the allocation statement. This field would most likely be blank for the multiple-level allocation style. If title tracking is being performed, the field may be populated with the contract of the party purchasing gas from the statement recipient.
Service Requester Identifier Code	*This field will be populated*. Mandatory field indicating the business party requesting service from the party providing the allocation statement or the purchaser of gas from the statement recipient when title tracking is performed. (This would be the Preparer ID from the nomination.) If multiple-level allocation is performed or if title tracking is performed, this field may be populated with the common code of the party purchasing gas from the statement recipient.
Upstream Identifier Code	Mandatory depending upon the Direction of Flow Indicator showing a receipt. This would be the same party that is the statement recipient and who is also the party supplying the gas either directly or through a marketing chain to the owner or the Service Requester ID (nominating party).
Upstream Contract Identifier	Mandatory depending upon the Direction of Flow Indicator showing a receipt. May be omitted if no information was provided on the nomination.
Downstream Identifier Code	This field will be populated if the Direction of Flow Indicator showing a delivery.
Downstream Contract Identifier	This field will be populated if the Direction of Flow Indicator showing a delivery.

Scheduled Quantity	Mandatory field . The statement preparer will populate this field with the Scheduled Receipt Quantity.
Allocated Quantity	Mandatory field . The statement preparer will populate this field with the Allocated Receipt Quantity.
Package ID	*Not used.*
Service Provider's Activity Code	*Not used.*

DATA ELEMENTS

2.4.3 AL - Allocation

Business Name	Definition	AL Usage	Condition	Tennessee Gas Pipeline Comments
Accounting Period	The month and year the information was recorded.	M		
Adjustment Type	Identifies the type of adjustment.	C	For allocations - (e.g. volume, Btu, etc.) based upon statement basis being a revision.	Not used.
Allocated Quantity	The allocated quantity in standard units to be received or delivered at the allocation point or to the contract.	M		
Associated Contract		MA		Not used.
Beginning Flow Date/Time	The date and time on which the transportation/transaction first started. If the Beginning Flow time is not sent, the time defaults to the beginning of the gas day.	M		
Contact Person	The name and telephone number of the contact for questions regarding the statement information.	M		
Direction of Flow	Allocated direction of flow (receipt from or delivery to) from the transportation service provider.	M		
Downstream Contract Identifier	This field identifies the contract of the party who is receiving the quantities from the service requester.	C	Mandatory when originally submitted in the nomination.	
Downstream Identifier Code *	This field identifies the party who is receiving the quantities from the service requester.	C	Mandatory when direction of flow is delivery.	
Ending Flow Date/Time	The date and time on which the transportation/transaction ended. If the Ending Flow time is not sent, the time defaults to the end of the gas day.	M		

Business Name	Definition	AL Usage	Condition	Tennessee Gas Pipeline Comments
Ending Imbalance Quantity	The accumulated imbalance quantity at the end of the period.	MA		TGP, ETN, MGT will not implement.
Ending Imbalance Value	The accumulated monetary imbalance value at the end of the period.	MA		TGP, ETN, MGT will not implement.
Location Code *	Unique identification of a point.	M		
Operational Quantity	Allocated quantity in standard units upon which penalties may be based.	BC	Based upon whether penalties are accessed on the point.	TGP, ETN, MGT will not implement.
Package ID	Service Requester assigned identification number used to track packages of gas.	MA		TGP, ETN, MGT will not implement.
Penalty Variance Quantity	Quantity in standard units subject to pipeline's scheduling penalties.	BC	Based upon business practices when scheduling penalties apply.	TGP, ETN, MGT will not implement.
Preparer ID *	The name and address of the business party preparing the report.	M		
Scheduled Quantity	The shipper's scheduled quantity of gas in standard units to be received or delivered at the allocation point or to the contract.	M		
Service Provider's Activity Code	Service provider's code for the activity requested by the service requester.	MA		TGP, ETN, MGT will not implement.
Service Requester Contract	This is the contract under which service is being requested.	BC	Mandatory on a single-level allocation. Mandatory at the service requester level of a multi-level allocation.	TGP, ETN, MGT will implement.
Service Requester ID	Identifies the party requesting the service.	BC	Mandatory on a single-level allocation. Mandatory at the upstream/downstream party level of a multi-level allocation.	TGP, ETN, MGT will implement.
Statement Basis	Code used to identify statement quantities as estimate, actual or revision. Default value is actual.	M		

Business Name	Definition	AL Usage	Condition	Tennessee Gas Pipeline Comments
Statement Date/Time	Date and time the statement was produced.	M		
Statement Recipient ID *	The intended user of the statement.	M		
Upstream Contract Identifier	This field identifies the contract of the party who is supplying the quantities to the service requester.	C	Mandatory when originally submitted in the nomination.	
Upstream Identifier Code *	This field identifies the party who is supplying the quantities to the service requester.	C	Mandatory when the direction of flow is receipt.	

** Industry Common Code*

TRANSACTION SET TABLES

NONE

Where Tennessee does not deviate from GISB Standards, data element code values are not included. These lists are subject to change pending approval of additional codes by GISB.

Shipper Imbalance — 2.4.4

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 data contained in the daily EDI Shipper Imbalance files represents changes only (imbalances generated from first-time and revised allocations).

Mandatory and Conditional Data Elements

Accounting Period	Accounting period to which the imbalance statement applies.
Adjustment Type Adjustment Quantity	Not used. These data elements do not correspond with the manner in which TGP, MGT, and ETN conduct business. At the time allocated volumes are produced, the method of final resolution of the imbalance is not known and additional transfers and/or trades are not tracked at the appropriate level until the volumes enter the Cash Out Imbalance System
Allocated Delivery Quantity	Allocated delivery quantity, stated in standard units.
Allocated Receipt Quantity	Allocated receipt quantity, stated in standard units.
Beginning Flow Date/Time	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	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 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 omitted 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	Ending flow date and time for the period to which the imbalance statement applies.
Ending Imbalance Quantity	Accumulated imbalance quantity as of the ending flow date/time. *For Supply Aggregation contracts, a separate ending imbalance quantity will be included for each zone/pipeline leg combination.*
Fuel Quantity	Fuel quantity, stated in standard units, retained by the service provider for the period reflected on the imbalance statement
Preparer ID	Common code which identifies the party providing the imbalance statement.
Receipt Location	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	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	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 omitted 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	Not used.
Bid Transportation Rate	Not used.
Capacity Type Indicator	Not used.
Ending Imbalance Value	Not used.
Imbalance Value	Not used.
Operational Delivery Quantity	Not used.
Operational Receipt Quantity	Not used.
Package ID	Not used.
Scheduled Delivery Quantity	Quantity, stated in standard units, scheduled to be delivered by the service provider. These quantities can be used to calculate penalties or Cash Out, if applicable to the service provider's business practices.
Scheduled Receipt Quantity	Quantity, stated in standard units, scheduled to be received by the service provider. These quantities can be used to calculate penalties or Cash Out, if applicable to the service provider's business practices.
Service Provider's Activity Code	Not used.
Transaction Type	Not used.

Zone Identifier	Not used. This data element will not be included in the EDI Shipper Imbalance file, but will be used during the data sort process.

DATA ELEMENTS

2.4.4 IM - Shipper Imbalance

Business Name	Definition	IM Usage	Condition	Tennessee Gas Pipeline Comments
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.	TGP, ETN, MGT will not implement.
Adjustment Quantity	Quantity in standard units of the imbalance adjustment.	C	Based upon Adjustment Type.	TGP, ETN, MGT will not implement.
Adjustment Value	Monetary value of an imbalance adjustment.	BC	Based upon monetary imbalance resolution.	TGP, ETN, MGT will not implement.
Allocated Delivery Quantity	The allocated quantity in standard units to be delivered.	C	Required if delivery location is present.	
Allocated Receipt Quantity	The allocated quantity in standard units to be received at the allocation point or on the contract.	C	Required if receipt location is present.	
Beginning Flow Date/Time	The date and time on which the transportation/transaction first started. If the Beginning Flow time is not sent, the time defaults to the beginning of the gas day.	M		
Bid Transportation Rate	This field reflects the rate under which the shipper is requesting service.	BC	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 the same contract over an identical time period.	TGP, ETN, MGT will not implement.

Business Name	Definition	IM Usage	Condition	Tennessee Gas Pipeline Comments
Capacity Type Indicator	Type of capacity being requested. For example: primary to primary, secondary to secondary, primary to secondary, secondary to primary, interruptible.	MA		TGP, ETN, MGT will not implement.
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.	C	At least one of delivery location or receipt location must exist.	
Downstream Contract Identifier	This field identifies the contract of the party who is receiving the quantities from the service requester.	C	Required if Delivery Location is present.	
Downstream Identifier Code *	This field identifies the party who is receiving the quantities from the service requester.	C	Required if Delivery Location is present.	
Ending Flow Date/Time	The date and time on which the transportation/transaction ended. If the Ending Flow time is not sent, the time defaults to the end of the gas day.	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		TGP, ETN, MGT will not implement.
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		TGP, ETN, MGT will not implement.
Operational Delivery Quantity	Allocated quantity in standard units upon which penalties may be based.	BC	Based upon whether penalties are accessed on the point.	TGP, ETN, MGT will not implement.

Business Name	Definition	IM Usage	Condition	Tennessee Gas Pipeline Comments
Operational Receipt Quantity	Allocated quantity in standard units upon which penalties may be based.	BC	Based upon whether penalties are accessed on the point.	TGP, ETN, MGT will not implement.
Package ID	Service Requester assigned identification number used to track packages of gas.	MA		TGP, ETN, MGT will not implement.
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.	C	At least one of receipt location or delivery location must exist.	
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	Based upon whether penalties are accessed on the contract.	TGP, ETN, MGT will implement.
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	Based upon whether penalties are accessed on the contract.	TGP, ETN, MGT will implement.
Service Provider's Activity Code	Service provider's code for the activity requested by the service requester.	MA		TGP, ETN, MGT will not implement.
Service Requester Contract	This is the contract under which service is being requested.	M		
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		

Business Name	Definition	IM Usage	Condition	Tennessee Gas Pipeline Comments
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		TGP, ETN, MGT will not implement.
Upstream Contract Identifier	This field identifies the contract of the party who is supplying the quantities to the service requester.	C	Required if Receipt Location is present.	
Upstream Identifier Code *	This field identifies the party who is supplying the quantities to the service requester.	C	Required if Receipt Location is present.	
Zone Identifier	The transporter's geographic zone identification.	BC	Based on imbalance resolution allowed minimization at a zone level.	TGP, ETN, MGT will not implement. Not used.

** Industry Common Code*

TRANSACTION SET TABLES

NONE

Where Tennessee does not deviate from GISB Standards, data element code values are not included. These lists are subject to change pending approval of additional codes by GISB.

Measurement Information Statement — 2.4.5

Technical Implementation of Business Process

The Measurement Information Statement is used to report gas measurement information to the operator and other parties at a metering location. The measurement information statement reflects volume and energy quantities and adjustments for a reporting period. This statement provides sufficient information for operational quantity confirmation and determination of custody transfer quantity necessary for invoicing. This statement does not include the operational data related to the calculation or determination of the volume or energy.

The **statement basis** for the measurement report indicates whether the information being reported is actual, estimate or revision. The **statement date/time** will indicate the date and time at which the statement was produced. The **contact** should include information regarding the person who is responsible for responding to inquiries about the measurement information being provided. The **statement recipient ID** is an industry common code indicating the party who is to receive the measurement information being provided. The **preparer ID** is an industry common code indicating the party who prepared the measurement information. The detail segment of the statement indicates the **location** for which the measurement information is being reported. Many **locations** may appear on one report.

A location may have many lines of sub-detail. The sub-detail line for a location will report the **measured volume** and **energy quantity** for a **beginning flow date/time** and **ending flow date/time**. If the detail line is for an adjustment, the **adjustment type** will indicate the adjustment being made and the volume and energy quantities shown will be restated information for the identified time period.

Although various measurement devices are used in the gas industry, and data may be measured at intervals ranging from hourly to monthly, data should be reported here on a daily or sub-day basis only. Tennessee Gas Pipeline Company is prepared to both send and receive Measurement Information Statements.

DATA ELEMENTS

2.4.5 MI - Measurement Information Statement

Business Name	Definition	MI Usage	Condition	Tennessee Gas Pipeline Comments
Adjustment Type	Identifies the type of adjustment.	C	For Measurement Information - (e.g. volume, BTU, etc.) based upon statement basis being a revision.	
Beginning Flow Date/Time	The date and time on which the transportation/transaction first started.	M		The date/time represented by the beginning and ending flow date/times should range up to one production day (24 hours)
Contact Person	The name and telephone number of the contact for questions regarding the statement information.	M		
Ending Flow Date/Time	The date and time on which the transportation/transaction ended.	M		The date/time represented by the beginning and ending flow date/times should range up to one production day (24 hours)
Energy Quantity	Quantity of gas in standard units measured at the point.	M		
Location Code *	Unique identification of a point.	M		
Measured Volume	Volume of gas.	M		
Preparer ID*	The name and address of the business party preparing the report.	M		
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		

** Industry Common Code*

TRANSACTION SET TABLES

NONE

Where Tennessee does not deviate from GISB Standards, data element code values are not included. These lists are subject to change pending approval of additional codes by GISB.