

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.1	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.1	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.1	BCH01	353	Transaction Set Purpose Code	ID	2/2	N					
2.4.1	BCH02	92	Purchase Order Type Code	ID	2/2	Y	Transaction Type Code	M M	AN	2	'IN' = PDA
2.4.1	BCH03	324	Purchase Order Number	AN	1/22	Y	Transaction Identifier	M M	AN	20	Transaction ID assigned by document originator
2.4.1	BCH06	323	Purchase Order Date	DT	6/6	N					
2.4.1	PER01	366	Contact Function Code	ID	2/2	N				35	
2.4.1	PER02	93	Contact Person (Name)	AN	1/35				AN	35	
2.4.1	PER03	365	Communications Number Qualifier	ID	2/2	N					
2.4.1	PER04	364	Contact Person (Phone)	AN	1/80				AN	80	
2.4.1	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.1	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.1	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.1	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.1	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.1	N104	67	Statement Recipient ID	AN	2/17				AN	17	
2.4.1	N104	67	Preparer ID	AN	2/17				AN	17	
2.4.1	POC01	350	Assigned Identification	AN	1/11	Y		M M	AN	11	Pending in R99006
2.4.1	POC02	670	Change or Response Type Code	ID	2/2	N					
2.4.1	POC08	235	Product/Service ID Qualifier	ID	2/2	N					
2.4.1	POC09	234	Direction of Flow	AN	1/30				AN	1	
2.4.1	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.1	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.1	DTM07	1251	Beginning Flow Date	AN	1/35				AN	8	
2.4.1	DTM07	1251	Beginning Flow Time	AN	1/35				AN	4	
2.4.1	DTM07	1251	Ending Flow Date	AN	1/35				AN	8	
2.4.1	DTM07	1251	Ending Flow Time	AN	1/35				AN	4	
2.4.1	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.1	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.1	N104	67	Location Code--DRN	AN	2/17				AN	9	
2.4.1	N104	67	Location Code--Proprietary	AN	2/17				AN	17	
2.4.1	SLN01	350	PDA Submitter's Tracking ID	AN	1/11				AN	11	
2.4.1	SLN03	661	Configuration Code	ID	1/1	N					

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.1	SLN04	380	Quantity	R	1/15	N					
2.4.1	SLN05	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.1	SLN06	212	Bid Transportation Rate	R	1/14				R	14	
2.4.1	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.1	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.1	Slxx	234	Allocation Method	AN	1/30				AN	2	
2.4.1	Slxx	234	Allocation Rank Indicator	AN	1/30				AN	1	
2.4.1	Slxx	234	Allocation Rank Level	AN	1/30				R	12	
2.4.1	Slxx	234	Downstream Contract Identifier	AN	1/30				AN	30	
2.4.1	Slxx	234	Package ID	AN	1/30				AN	30	
2.4.1	Slxx	234	Service Provider's Activity Code	AN	1/30				AN	30	
2.4.1	Slxx	234	Service Requester Contract	AN	1/30				AN	30	
2.4.1	Slxx	234	Upstream Contract Identifier	AN	1/30				AN	30	
2.4.1	Slxx	234	Associated Contract	AN	1/30				AN	30	
2.4.1	CTP04	380	Limit Value	R	1/15				NO	15	
2.4.1	CTP05	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.1	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.1	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.1	N104	67	Service Requester ID	AN	2/17				AN	17	
2.4.1	N104	67	Downstream Identifier Code	AN	2/17				AN	17	
2.4.1	N104	67	Upstream Identifier Code	AN	2/17				AN	17	
2.4.1	CTT01	354	Number of Line Items	N0	1/6	N					
2.4.1	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.1	SE02	329	Transaction Set Control Number	AN	4/9	N					
2.4.2	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.2	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.2	BCA01	353	Transaction Set Purpose Code	ID	2/2	N					
2.4.2	BCA02	587	Acknowledgment Type	ID	2/2	Y	Transaction Set Status Code	M M	AN	2	Codes are AT, RF, and RJ
2.4.2	BCA03	324	Purchase Order Number	AN	1/22	Y	Transaction Identifier	M M	AN	20	Transaction ID assigned by originator of process

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2.4.2	BCA06	323	Purchase Order Date	DT	6/6	N					
2.4.2	BCA13	92	Purchase Order Type Code	AN	2/2	Y	Transaction Type Code	M M	AN	2	'V4'
2.4.2	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.2	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.2	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.2	N901	128	Reference Number Qualifier	ID	2/2	N					
2.4.2	N902	127	Validation Code	AN	1/30				AN	8	
2.4.2	MSG01	933	Validation Message	AN	1/264				AN	255	
2.4.2	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.2	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.2	N104	67	Statement Recipient ID	AN	1/27				AN	17	
2.4.2	N104	67	Preparer ID	AN	1/27				AN	17	
2.4.2	POC01	350	Assigned Identification	AN	1/11	Y		M M	AN	11	Pending in R99006
2.4.2	POC02	670	Change or Response Type Code	ID	2/2	N					
2.4.2	PID01	349	Item Description Type	ID	1/1	N					
2.4.2	PID03	559	Agency Qualifier Code	ID	2/2	N					
2.4.2	PID04	751	Validation Code	AN	1/12				AN	8	
2.4.2	PID05	352	Validation Message	AN	1/80				AN	80	
2.4.2	N901	128	Reference Number Qualifier	ID	2/2	N					
2.4.2	N902	127	Validation Code	AN	1/30				AN	8	
2.4.2	N903	369	PDA Submitter's Tracking ID	AN	1/45				AN	30	
2.4.2	MSG01	933	Validation Message	AN	1/264				AN	80	
2.4.2	CTT01	354	Number of Line Items	N0	1/6	N					
2.4.2	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.2	SE02	329	Transaction Set Control Number	AN	4/9	N					
2.4.3	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.3	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.3	BCA01	353	Transaction Set Purpose Code	ID	2/2	N					
2.4.3	BCA03	324	Purchase Order Number	AN	1/22	N					
2.4.3	BCA06	323	Purchase Order Date	DT	6/6	N					
2.4.3	BCA13	92	Purchase Order Type Code	ID	2/2	Y	Transaction Type Code	M M	AN	2	F5

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.3	PER01	366	Contact Function Code	ID	2/2	N				35	
2.4.3	PER02	93	Contact Person (Name)	AN	1/35				AN	35	
2.4.3	PER03	365	Communications Number Qualifier	ID	2/2	N					
2.4.3	PER04	364	Contact Person (Phone)	AN	1/80				AN	80	
2.4.3	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.3	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.3	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.3	DTM07	1251	Accounting Period	AN	1/35				AN	6	
2.4.3	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.3	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.3	N104	67	Preparer ID	AN	2/17				AN	17	
2.4.3	N104	67	Statement Recipient ID	AN	2/17				AN	17	
2.4.3	POC01	350	Assigned Identification	AN	1/11	N					
2.4.3	POC02	670	Change or Response Type Code	ID	2/2	N					
2.4.3	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.3	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.3	Slxx	234	Statement Basis	AN	1/30				AN	1	
2.4.3	Slxx	234	Direction of Flow	AN	1/30				AN	1	
2.4.3	Slxx	234	Adjustment Type	AN	1/30				AN	3	
2.4.3	CTP04	380	Ending Imbalance Quantity	R	1/15				N0	15	
2.4.3	CTP05	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.3	CTP08	782	Ending Imbalance Value	R	1/15				N2	15	
2.4.3	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.3	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.3	DTM07	1251	Beginning Flow Date	AN	1/35				AN	8	
2.4.3	DTM07	1251	Beginning Flow Time	AN	1/35				AN	4	
2.4.3	DTM07	1251	Ending Flow Date	AN	1/35				AN	8	
2.4.3	DTM07	1251	Ending Flow Time	AN	1/35				AN	4	
2.4.3	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.3	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.3	N104	67	Location Code--DRN	AN	2/17				AN	9	
2.4.3	N104	67	Location Code--Proprietary	AN	2/17				AN	17	
2.4.3	SLN01	350	Assigned Identification	AN	1/11	N					

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2.4.3	SLN03	661	Configuration Code	ID	1/1	N					
2.4.3	SLN04	380	Allocated Quantity	R	1/15				N0	15	
2.4.3	SLN05	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.3	SLN09	235	Product/Service ID Qualifier	ID	2/2	N					
2.4.3	SLN10	234	Service Requester Contract	AN	1/30				AN	30	
2.4.3	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.3	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.3	Slxx	234	Upstream Contract Identifier	AN	1/30				AN	30	
2.4.3	Slxx	234	Downstream Contract Identifier	AN	1/30				AN	30	
2.4.3	Slxx	234	Package ID	AN	1/30				AN	30	
2.4.3	Slxx	234	Service Provider's Activity Code	AN	1/30				AN	30	
2.4.3	Slxx	234	Associated Contract	AN	1/30				AN	30	
2.4.3	PO301	371	Change Reason Code	371	2/2	N					
2.4.3	PO306	380	Scheduled Quantity	R	1/15				N0	15	
2.4.3	PO306	380	Operational Quantity	R	1/15				N0	15	
2.4.3	PO306	380	Penalty Variance Quantity	R	1/15				N0	15	
2.4.3	PO307	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.3	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.3	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.3	N104	67	Service RequesterID	AN	2/17				AN	17	
2.4.3	N104	67	Downstream Identifier Code	AN	2/17				AN	17	
2.4.3	N104	67	Upstream Identifier Code	AN	2/17				AN	17	
2.4.3	CTT01	354	Number of Line Items	N0	1/6	N					
2.4.3	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.3	SE02	329	Transaction Set Control Number	AN	4/9	N					
2.4.4	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.4	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.4	BIG01	245	Invoice Date	DT	6/6	N					
2.4.4	BIG02	76	Invoice Number	AN	1/22	N					
2.4.4	BIG07	640	Transaction Type Code	AN	2/2	Y	Transaction Type Code	M M	AN	2	'F6'
2.4.4	PER01	366	Contact Function Code	ID	2/2	N				35	

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2.4.4	PER02	93	Contact Person (Name)	AN	1/35				AN	35	
2.4.4	PER03	365	Communications Number Qualifier	ID	2/2	N					
2.4.4	PER04	364	Contact Person (Phone)	AN	1/80				AN	20	
2.4.4	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.4	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.4	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.4	DTM07	1251	Accounting Period	AN	1/35				AN	6	
2.4.4	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.4	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.4	N104	67	Statement Recipient ID	AN	2/17				AN	17	
2.4.4	N104	67	Preparer ID	AN	2/17				AN	17	
2.4.4	HL01	628	Hierarchical ID Number	AN	1/12	N					
2.4.4	HL02	735	Hierarchical Level Code	ID	1/2	N					
2.4.4	LX01	554	Assigned Number	N0	1/6	N					
2.4.4	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.4	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.4	Slxx	234	Service Requester Contract	AN	1/30				AN	30	
2.4.4	AMT01	522	Amount Qualifier Code	ID	1/2	N					
2.4.4	AMT02	782	Ending Imbalance Value	R	1/15				N2	15	
2.4.4	QTY01	673	Quantity Qualifier	ID	2/2	N					
2.4.4	QTY02	380	Ending Imbalance Quantity	R	1/15				N0	15	
2.4.4	HL01	628	Hierarchical ID Number	AN	1/12	N					
2.4.4	HL02	734	Hierarchical Parent ID Number	AN	1/12	N					
2.4.4	HL03	735	Hierarchical Level Code	ID	1/2	N					
2.4.4	LX01	554	Assigned Number	N0	1/6	N					
2.4.4	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.4	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.4	Slxx	234	Capacity Type Indicator	AN	1/30				AN	2	
2.4.4	Slxx	234	Downstream Contract Indicator	AN	1/30				AN	30	
2.4.4	Slxx	234	Upstream Contract Indicator	AN	1/30				AN	30	
2.4.4	Slxx	234	Package ID	AN	1/30				AN	30	
2.4.4	Slxx	234	Service Provider's Activity Code	AN	1/30				AN	30	
2.4.4	Slxx	234	Zone Identifier	AN	1/30				AN	10	
2.4.4	IT101	350	Assigned Identification	AN	1/11	N					

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2.4.4	IT102	358	Quantity Invoiced	R	1/10	N					
2.4.4	IT103	355	Unit or Basis for Measurement Code	ID	2/2	N					
2.4.4	IT104	212	Unit Price	R	1/14	N					
2.4.4	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.4	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.4	N104	67	Delivery Location--DRN	AN	2/17				AN	9	
2.4.4	N104	67	Delivery Location--Proprietary	AN	2/17				AN	17	
2.4.4	N104	67	Receipt Location--DRN	AN	2/17				AN	9	
2.4.4	N104	67	Receipt Location--Proprietary	AN	2/17				AN	17	
2.4.4	N104	67	Upstream Identifier Code	AN	2/17				AN	17	
2.4.4	N104	67	Downstream Identifier Code	AN	2/17				AN	17	
2.4.4	HL01	628	Hierarchical ID Number	AN	1/12	N					
2.4.4	HL02	734	Hierarchical Parent ID Number	AN	1/12	N					
2.4.4	HL03	735	Hierarchical Level Code	ID	1/2	N					
2.4.4	LX01	554	Assigned Number	N0	1/6	N					
2.4.4	SI01	559	Agency Qualifier Code	ID	2/2	N					
2.4.4	Slyy	1000	Service Characteristics Qualifier	ID	2/2	N					
2.4.4	Slxx	234	Statement Basis	AN	1/30				AN	1	
2.4.4	Slxx	234	Transaction Type	AN	1/30				AN	2	
2.4.4	Slxx	234	Adjustment Type	AN	1/30				AN	3	
2.4.4	AMT01	522	Amount Qualifier Code	ID	1/2	N					
2.4.4	AMT02	782	Adjustment Value	R	1/15				N2	15	
2.4.4	AMT02	782	Imbalance Value	R	1/15				N2	15	
2.4.4	AMT02	782	Bid Transportation Rate	R	1/15				R	15	
2.4.4	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.4	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.4	DTM07	1251	Beginning Flow Date	AN	1/35				AN	8	
2.4.4	DTM07	1251	Beginning Flow Time	AN	1/35				AN	4	
2.4.4	DTM07	1251	Ending Flow Date	AN	1/35				AN	8	
2.4.4	DTM07	1251	Ending Flow Time	AN	1/35				AN	4	
2.4.4	QTY01	673	Quantity Qualifier	ID	2/2	N					
2.4.4	QTY02	380	Scheduled Receipt Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Scheduled Delivery Quantity	R	1/15				N0	15	

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2.4.4	QTY02	380	Operational Receipt Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Operational Delivery Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Allocated Receipt Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Allocated Delivery Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Fuel Quantity	R	1/15				N0	15	
2.4.4	QTY02	380	Adjustment Quantity	R	1/15				N0	15	
2.4.4	TDS01	361	Total Invoiced Amount	N2	1/10	N					
2.4.4	CTT01	354	Number of Line Items	N0	1/6	N					
2.4.4	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.4	SE02	329	Transaction Set Control Number	AN	4/9	N					
2.4.5	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.5	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.5	BPT01	353	Transaction Set Purpose Code	ID	2/2	N					
2.4.5	BPT02 (new)	127	Reference Identification	AN	1/30	Y	Transaction Type Code	M M	AN	2	code value "MN"
2.4.5	BPT03	373	Date	DT	6/6	N					
2.4.5	DTM01	374	Date/Time Qualifier	ID	2/3	N					
2.4.5	DTM06	1250	Date/Time Period Format Qualifier	ID	3/3	N					
2.4.5	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.5	DTM07	1251	Accounting Period	AN	1/35				AN	6	
2.4.5	PER01	366	Contact Function Code	ID	2/2	N				35	
2.4.5	PER02	93	Contact Person (Name)	AN	1/35				AN	35	
2.4.5	PER03	365	Communications Number Qualifier	ID	2/2	N					
2.4.5	PER04	364	Contact Person (Phone)	AN	1/80				AN	20	
2.4.5	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.5	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.5	N104	67	Preparer ID	AN	2/17				AN	17	
2.4.5	N104	67	Statement Recipient ID	AN	2/17				AN	17	
2.4.5	PTD01	521	Product Transfer Type Code	ID	2/2	N					
2.4.5	PTD04	128	Reference Number Qualifier	ID	2/2	N					
2.4.5	PTD05	127	Location Code--DRN	AN	1/30				AN	9	
2.4.5	PTD05	127	Location Code--Proprietary	AN	1/30				AN	17	
2.4.5	PTD06	486	Statement Basis	ID	2/2				ID	2	Codes are AC, ES, RV

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.5	QTY01	673	Quantity Qualifier	ID	2/2	N					
2.4.5	QTY02	380	Energy Quantity	R	1/15				N0	15	
2.4.5	LIN02	235	Product/Service ID Qualifier	ID	2/2	N					
2.4.5	LIN03	234	Adjustment Type	AN	1/30				AN	3	
2.4.5	MEA03	739	Measured Volume	R	1/10				N0	15	
2.4.5	MEA04	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.5	DTM01	374	Date/Time Qualifier	ID	3/3	N					
2.4.5	DTM06	1250	Date Time Period Format Qualifier	ID	2/3	N					
2.4.5	DTM07	1251	Beginning Flow Date	AN	1/35				AN	8	
2.4.5	DTM07	1251	Beginning Flow Time	AN	1/35				AN	4	
2.4.5	DTM07	1251	Ending Flow Date	AN	1/35				AN	8	
2.4.5	DTM07	1251	Ending Flow Time	AN	1/35				AN	4	
2.4.5	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.5	SE02	329	Transaction Set Control Number	AN	4/9	N					
2.4.6	ST01	143	Transaction Set Identifier Code	ID	3/3	N					
2.4.6	ST02	329	Transaction Set Control Number	AN	4/9	N					
2.4.6	BPT01	353	Transaction Set Purpose Code	ID	2/2	N					
2.4.5	BPT02 (new)	127	Reference Identification	AN	1/30	Y	Transaction Type Code	M M	AN	2	code value "AU"
2.4.6	BPT03	373	Date	DT	6/6	N					
2.4.6	DTM01	374	Date/Time Qualifier	ID	2/3	N					
2.4.6	DTM06	1250	Date/Time Period Format Qualifier	ID	3/3	N					
2.4.6	DTM07	1251	Statement Date/Time	AN	1/35				AN	12	
2.4.6	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.6	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.6	N104	67	Downstream Party	AN	2/17				AN	17	
2.4.6	N104	67	Meter Operator	AN	2/17				AN	17	
2.4.6	N104	67	Upstream Party	AN	2/17				AN	17	
2.4.6	N104	67	Device Station Number	AN	2/17				AN	17	
2.4.6	N104	67	PI Data Reference Number	AN	2/17				AN	17	
2.4.6	PER01	366	Contact Function Code	ID	2/2	N				35	
2.4.6	PER02	93	Contact Person (Name)	AN	1/35				AN	35	

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.6	PER03	365	Communications Number Qualifier	ID	2/2	N					
2.4.6	PER04	364	Contact Person (Phone)	AN	1/80				AN	20	
2.4.6	PTD01	521	Product Transfer Type Code	ID	2/2	N					PM = Physical Meter
2.4.6	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.6	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.6	N104	67	Meter ID	AN	2/17				AN	17	
2.4.6	QTY01	673	Quantity Qualifier	ID	2/2	N					
2.4.6	QTY02	380	Quantity	R	1/15	N					
2.4.6	MEA01	737	Measurement Reference ID Code	ID	2/2	N					
2.4.6	MEA02	738	Measurement Qualifier	ID	1/3	N					
2.4.6	MEA03	739	Reporting Pressure Base	R	1/10				R	1/10	
2.4.6	MEA03	739	Atmospheric Pressure	R	1/10				R	1/10	
2.4.6	MEA03	739	Tube Inside Diameter	R	1/10				R	1/10	
2.4.6	MEA03	739	Maximum Differential Pressure	R	1/10				R	1/10	
2.4.6	MEA03	739	Orifice Diameter	R	1/10				R	1/10	
2.4.6	MEA03	739	Chart Revolution Time	R	1/10				R	1/10	
2.4.6	MEA03	739	Machine Constant	R	1/10				R	1/10	
2.4.6	MEA04	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.6	MEA05	740	Temperature Range Minimum	R	1/10				R	1/10	
2.4.6	MEA05	740	Minimum Static Pressure	R	1/10				R	1/10	
2.4.6	MEA06	741	Temperature Range Maximum	R	1/10				R	1/10	
2.4.6	MEA06	741	Maximum Static Pressure	R	1/10				R	1/10	
2.4.6	MEA09	752	Tap Location	ID	2/2				ID	2/2	
2.4.6	MEA10	1373	Tap Type	ID	2/4				ID	2/4	
2.4.6	MEA10	1373	Meter Type	ID	2/4				ID	2/4	
2.4.6	REF01	128	Reference Number Qualifier	ID	2/2	N					
2.4.6	REF02	127	Meter Status	AN	1/30				AN	1	
2.4.6	REF02	127	Number Dials	AN	1/30				AN	1	
2.4.6	REF02	127	Volume Cycle	AN	1/30				AN	1	
2.4.6	DTM01	374	Date/Time Qualifier	ID	2/3	N					
2.4.6	DTM06	1250	Date/Time Period Format Qualifier	ID	3/3	N					
2.4.6	DTM07	1251	Physical Meter Effective Date	AN	1/35				AN	8	
2.4.6	PTD01	521	Product Transfer Type Code	ID	2/2	N					FG = Flowing Gas

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.6	REF01	128	Reference Number Qualifier	ID	2/2	N					
2.4.6	REF02	127	Chromatograph	AN	1/30				AN	1/30	
2.4.6	N101	98	Entity Identifier Code	ID	2/2	N					
2.4.6	N103	66	Identification Code Qualifier	ID	1/2	N					
2.4.6	N104	67	Meter ID	AN	2/17				AN	17	
2.4.6	QTY01	673	Quantity Qualifier	ID	2/2	N					
2.4.6	QTY02	380	Quantity	R	1/15						
2.4.6	QTY03	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.6	LIN02	235	Product/Service ID Qualifier	ID	2/2	N					
2.4.6	LIN03	234	Business Period	AN	1/30				AN	1	Code values = '1' or '2'
2.4.6	LIN04	235	Product/Service ID Qualifier	ID	2/2	N					
2.4.6	LIN05	234	Adjustment Type	AN	1/30				AN	3	
2.4.6	MEA01	737	Measurement Reference ID Code	ID	2/2	N					
2.4.6	MEA02	738	Component	ID	1/3			BC BC	AN	3	data element no longer needed - see note below
2.4.6	MEA03	739	Component Percentage	R	1/10			SO SO	R	10	data element no longer needed - see note below
2.4.6	MEA03	739	(Water Volume)	R	1/10		Water Volume	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(N-Butane)	R	1/10		N-Butane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Ethane)	R	1/10		Ethane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Heptane)	R	1/10		Heptane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Hexane)	R	1/10		Hexane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Methane)	R	1/10		Methane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Neo-Pentane)	R	1/10		Neo-Pentane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Octane)	R	1/10		Octane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(N-Pentane)	R	1/10		N-Pentane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Carbon Monoxide)	R	1/10		Carbon Monoxide	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Helium)	R	1/10		Helium	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Carbon Dioxide)	R	1/10		Carbon Dioxide	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Hydrogen)	R	1/10		Hydrogen	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Hydrogen Sulfide)	R	1/10		Hydrogen Sulfide	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(I-Butane)	R	1/10		I-Butane	SO SO	R	1/10	see note below

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.6	MEA03	739	(Nitrogen)	R	1/10		Nitrogen	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Oxygen)	R	1/10		Oxygen	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Propane)	R	1/10		Propane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(Sulphur)	R	1/10		Sulphur	SO SO	R	1/10	see note below
2.4.6	MEA03	739	(I-Pentane)	R	1/10		I-Pentane	SO SO	R	1/10	see note below
2.4.6	MEA03	739	Heating Factor	R	1/10				R	1/10	
2.4.6	MEA03	739	Specific Gravity	R	1/10				R	1/10	
2.4.6	MEA03	739	Temperature	R	1/10				R	1/10	
2.4.6	MEA03	739	Static Pressure	R	1/10				R	1/10	
2.4.6	MEA03	739	Static Pressure Indicator	R	1/10				R	1/10	
2.4.6	MEA03	739	Differential Pressure	R	1/10				R	1/10	
2.4.6	MEA03	739	Flow Period	R	1/10				R	1/10	
2.4.6	MEA03	739	Volume	R	1/10				R	1/10	
2.4.6	MEA03	739	Flow Rate	R	1/10				R	1/10	
2.4.6	MEA03	739	Coefficient	R	1/10				R	1/10	
2.4.6	MEA03	739	Intergated Differential	R	1/10				R	1/10	
2.4.6	MEA03	739	Index Differential	R	1/10				R	1/10	
2.4.6	MEA03	739	Reporting Temperatire	R	1/10				R	1/10	
2.4.6	MEA03	739	Pressure Factor	R	1/10				R	1/10	
2.4.6	MEA03	739	Sample Type	R	1/10				R	1/10	
2.4.6	MEA03	739	Sample Device	R	1/10				R	1/10	
2.4.6	MEA04	355	Unit or Basis for Measurement Code	ID	2/2	Y	Unit of Measure	M M	AN	2	
2.4.6	REF01	128	Reference Number Qualifier	ID	2/2	N					
2.4.6	REF02	127	Reference Number	AN	1/30				AN	1	Code values = 'A' or 'S'
2.4.6	REF03	352	Description	AN	1/80				AN	1	Code values = 'B' or 'C' or 'I'
2.4.6	DTM01	374	Date/Time Qualifier	ID	2/3	N					
2.4.6	DTM06	1250	Date/Time Period Format Qualifier	ID	3/3	N					
2.4.6	DTM07	1251	Gas Analysis Effective Date	AN	1/35				AN	8	
2.4.6	DTM07	1251	Beginning Flow Date	AN	1/35				AN	8	
2.4.6	DTM07	1251	Beginning Flow Time	AN	1/35				AN	4	
2.4.6	DTM07	1251	Ending Flow Date	AN	1/35				AN	8	
2.4.6	DTM07	1251	Ending Flow Time	AN	1/35				AN	4	
2.4.6	DTM07	1251	Date/Time On	AN	1/35				AN	12	

GISB D D Std	X12 Data Element Ref. Des.	X12 Data Element Number	GISB Data Element Name	X12 Data Type	X12 Field Length	Needed for Flat File?	Proposed GISB Data Element Name	GISB Usage	GISB Data Type	GISB Field Length	Miscellaneous Notes
2.4.6	DTM07	1251	Date/Time Off	AN	1/35				AN	12	
2.4.6	CTT01	354	Number of Line Items	N0	1/6	N					
2.4.6	SE01	96	Number of Included Segments	N0	1/10	N					
2.4.6	SE02	329	Transaction Set Control Number	AN	4/9	N					

## Notes:

The MEA Segment in the Flowing Gas PTD loop (PTD01 = FG) has some data elements, such as Component and Component Percentage, that are potentially repeated multiple times (i.e. once for each type of component). In the current flat file structure, this means the entire line would need to be duplicated for each Component to be sent. Technical recommends that a separate data element be defined for each Component to be sent so that multiple Components may be sent on one line within the flat file. This would eliminate the need for the data elements "Component" and "Component Percentage" in the MEA02 and MEA03. This proposed implementation is consistent with the way we are sending other data elements such as Specific Gravity.