

**Implementation Guidelines: ANSI X12 Transaction Set 850
Purchase Order
(Suppliers)**

DOCUMENT NUMBER: ICS 004010 850 S Supplier

ESSAR Steel Algoma Inc.

Information Systems and Business Process Improvement

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SECTION 1. REVISION STATUS

REVISION NUMBER	DATE	REVISION	AUTHOR
R00/A	2002 07 31	original draft	G. Masters
R00	2003 04 11	original	G. Masters
R01	2003 11 26	default SLN03=I	G. Masters
R02	2008 06 23	Name change	G. Masters

SECTION 2. PREFACE

This document is intended to provide the details on how Algoma will construct an electronic Purchase Order (850) transaction set.

Essar Steel Algoma Inc. is committed to supporting and using the American National Standards Institute (ANSI) X12 national standards. However, the standards are broad in scope and flexible in methods of implementing. These are the Algoma specific requirements for the Purchase Order Transaction.

Any questions or concerns regarding the Algoma 850 or electronic data communication with Algoma may be directed to:

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SECTION 3. SUMMARY

In order for Essar Steel Algoma Inc. to efficiently order material from its vendors, Algoma has implemented the Purchase Order (850) transaction set. This transaction will be used to replace existing mailed and faxed Purchase Orders, Blanket Purchase Contracts and Blanket Purchase Contract Releases. All 850 transactions are subject to Essar Steel Algoma Inc. Conditions of Purchase, which can be obtained from Algoma's Purchasing Department.

The 850 transaction will be used for new Purchase Orders, Blanket Purchase Contracts and Blanket Purchase Contract Releases. The 850 transaction will also be used to **modify** (not replace) the original 850 transaction. It is the responsibility of the vendor to ensure that the Purchase Order Change, Blanket Purchase Contract Change and the Blanket Purchase Contract Release Change transactions are used only to modify the original order/release and that it is not used to generate an additional order. The change transactions will be used to modify the original header information or specific items, not all of the items will be specified on a change transaction.

Algoma requires a Functional Acknowledgement (997) transaction in response to the 850 transaction, within 12 hours of the send, to ensure receipt of the transaction by the vendor. If a 997 is not received by Algoma, the transactions set will be resent to the vendor.

Essar Steel Algoma Inc. uses the GXS network for electronic data interchange.

Algoma's qualifier is 01 and DUNS number is 201495124.

SECTION 4. INTERCHANGE ENVELOPE

ISA - Interchange Control Header

Segment: ISA - Interchange Control Header
 Level: n/a
 Max Use/Loops: 1 per interchange/none
 Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

General Information: None

Example: ISA~00~ ~00~ ~01~201495124 ~
 01~9999999999 ~010420~1312~U~00401~000000001~0~
 P~` N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
ISA01	744	Authorization Information Qual	M ID 02/02	"00" (Zeros) No authorization information present
ISA02	745	Authorization Information	M AN 10/10	Use 10 spaces
ISA03	746	Security Information Qual	M ID 02/02	"00" (Zeros) No security information present
ISA04	747	Security Information	M AN 10/10	Use 10 spaces
ISA05	704	Interchange Sender ID Qualifier	M ID 02/02	"01" for DUNS number
ISA06	705	Interchange Sender ID	M ID 15/15	"201495124"
ISA07	704	Interchange Receiver ID Qualifier	M ID 02/02	Receiver's qualifier.
ISA08	706	Interchange Receiver ID	M ID 15/15	Receiver's ID.
ISA09	373	Interchange Date	M DT 06/06	Date of Transmission (YYMMDD)
ISA10	337	Interchange Time	M TM 04/04	Time of Transmission (HHMM) 24 hour clock

Segment: ISA - Interchange Control Header

Elem ID -----	Elem# -----	Name -----	Features -----	Comments -----
ISA11	726	Interchange Standard ID	M ID 01/01	"U" for USA
ISA12	703	Interchange Version ID	M ID 05/05	"00401"
ISA13	709	Interchange Control ID	M N0 09/09	Sequential Number starting with 1 and incremented by 1 for each ISA sent.
ISA14	749	Acknowledgement ID	M ID 01/01	"0" for acknowledge- ment not required.
ISA15	748	Test Indicator	M ID 01/01	"P" for production "T" for test
ISA16	701	Sub Element Separator	M AN 01/01	Must be different then the element separator.

4.1 Element separators and segment terminator

Algoma uses the following characters:

- Segment terminator EBCDIC Hex "1C"
- Element separator EBCDIC Hex "5C"
- Sub element separator EBCDIC Hex "A1"

4.2 IEA - Interchange Control Trailer

Segment: IEA - Interchange Control Trailer

Level: n/a

Max Use/Loops: 1 per interchange/none

Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.

General Information: None

Example: IEA~3~000000001 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
IEA01	405	Number of Included Groups	M N0 01/05	Number of GS segments included between ISA and this IEA
IEA02	709	Interchange Control Number	M N0 09/09	Must match ISA13

SECTION 5. FUNCTIONAL GROUP ENVELOPE

GS - Functional Group Header

Segment: GS - Functional Group Header

Level: n/a

Max Usage/Loops: 1/None

Purpose: The GS segment is used to indicate the beginning of a functional group and to provide control information

General Information: None

Example: GS~PO~201495124~999999999~20010420~1312~1~X~004010 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
GS01	479	Functional ID	M ID 02/02	"PO"
GS02	142	Application Sender Code	M ID 02/12	"201495124"
GS03	124	Application Receiver Code	M ID 02/12	Your company's ID.
GS04	29	Data Interchange Date	M DT 08/08	Date created (CCYYMMDD)
GS05	30	Data Interchange Time	M TM 04/04	Time created (HHMM)
GS06	28	Data Interchange Control Number	M N0 01/09	Start with 1 and increment by 1 for each subsequent GS between interchanges
GS07	455	Responsibility Agency	M ID 01/02	Use "X" for ANSI X12 code formats
GS08	480	Version	M ID 01/12	"004010"

GE - Functional Group Trailer

Segment: GE - Functional Group Trailer

Level: n/a

Max Usage/Loops: 1 per functional group/none

Purpose: To define (specify) the end of a functional group of related transaction sets.

General Information: None

Example: GE~3~1 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
GE01	97	Number of Included Transaction Sets	M N0 01/06	Total count of transaction sets in functional group
GE02	28	Data Interchange Control Number	M N0 01/09	Same as GS06 in the associated group header

SECTION 6. 850 TRANSACTION SET

Data Segment Sequence

ST	Transaction Set Header
BEG	Beginning Segment for Purchase Order
CUR	Currency
REF	Reference Numbers
FOB	FOB Related Instructions
ITD	Terms of Sale/Deferred Terms
N9	Reference Identification
MSG	Message Text
N1	Name
N2	Additional Name Information
N3	Address Information
N4	Geographic Location
PER	Administrative Communication
PO1	Baseline Item Data
PID	Product/Item Description
REF	Reference Numbers
SAC	Service - Trade Discount
DTM	Date/Time
TXI	Tax Information
SLN	Subline item Detail
N9	Reference Identification
MSG	Message Text
CTT	Transaction Totals
SE	Transaction Set Trailer

6.1 ST - Transaction Set Header

Segment: ST - Transaction Set Header

Level: Heading

Max Usage/Loops: 1/None

Purpose: To indicate the start of a transaction set and to assign a control number.

General

Information: This segment is required. The transaction set control number (ST02) in this header must match the transaction set control number (SE02) in the transaction set trailer (SE).

Example: ST~850~0001 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
ST01	143	Transaction Set ID Code	M ID 03/03	Use "850"
ST02	329	Transaction Set Control Number	M AN 04/09	A unique number assigned to each transaction set within a functional group.

6.2 BEG - Beginning Segment for Purchase Order

Segment: BEG - Beginning Segment for Purchase Order
 Level: Header
 Max Usage/Loops: 1/None
 Purpose: To indicate the beginning of the purchase order transaction set and transmit identifying numbers and dates.

General Information: 00 will be used in the BEG01 for the original transaction, and a resend if a 997 is not received. 04 will be sent on all change type (i.e. CC CP & CR) transactions. 07 will be sent in the BEG01 if Purchasing is requested to resend the transaction.

Example: BEG~00~KB~123456~1234~20010420~~AE N/L
 BEG~07~KB~123456~1234~20010420~~AE N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
BEG01	353	Transaction Set Purpose Code	M ID 02/02	"00" - original. "04" - change. "07" - duplicate.
BEG02	92	Purchase Order Type Code	M ID 02/02	"KB" - blanket PO. "KN" - one time PO. "RL" - PO release. "CC" - Blanket PO change. "CP" - PO change. "CR" - PO release change.
BEG03	324	Purchase Order Number	M AN 01/22	Purchase Order Number.
BEG04	328	Release Number	O AN 01/30	PO Release Number.
BEG05	373	Date	M DT 08/08	PO date (CCYYMMDD).
BEG06	367	Contract Number	O AN 01/30	Not used.
BEG07	587	Acknowledgement Type	O ID 02/02	"AE" - exceptions only: Note: Acknowledge receipt of this transaction by notifying the purchasing department only if there is a variance.
BEG08	1019	Invoice Type Code	O ID 03/03	For future use only. "IBM" - Invoice by mail. "IEL" - Invoice electronically

Segment: BEG - Beginning Segment for Purchase Order

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
BEG09	1166	Contract Type Code	O ID 02/02	Not used.
BEG10	1232	Purchase Category	O ID 03/03	Not used.
BEG11	786	Security Level Code	O ID 02/02	Not used.
BEG12	640	Transaction Type Code	O ID 02/02	Not used.

6.3 CUR - Currency

Segment: CUR - Currency

Level: Header

Max Usage/Loops: 1/None

Purpose: To specify the currency used in a transaction.

General Information: One occurrence of the CUR segment will be sent.

Example: CUR~II~CAD N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
CUR01	98	Entity Identifier Code	M AN 02/03	"II" - issuer of invoice
CUR02	100	Currency Code	M ID 03/03	"CAD" - Canadian dollars "USD" - US dollars
CUR03	280	Exchange Rate	O R 04/10	Not used.
.				
.				
.				
CUR21	337	Time	C AN 01/35	Not used.

6.4 REF - Reference Numbers

Segment: REF - Reference Numbers

Level: Header

Max Usage/Loops: 999999/None.

Purpose: To transmit identifying numbers.

General Information: Used to specify Algoma's PO modification number.

Example: REF~PP~03 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
REF01	128	Reference Number Qualifier	M AN 02/03	"PP" for PO revision number.
REF02	127	Reference Number	M AN 01/30	Algoma's PO modification number.
REF03	352	Description	O AN 01/80	Not used.
REF04	128	Reference Identification Qualifier	O AN 01/03	Not used.

6.5 FOB - F.O.B. Related Instructions

Segment: FOB - F.O.B. Related Instructions

Level: Header

Max Usage/Loops: 1/None.

Purpose: To specify transportation instructions relating to a shipment.

General Information: To specify arrangements for paying freight.

Example: FOB~PP~ZZ~FOB TORONTO, ON N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
FOB01	146	Shipment Method of Payment	M ID 02/02	"CC" for collect "CF" for collect, freight credited back. "PC" for prepaid but charge to customer. "PP" for prepaid
FOB02	309	Location Qualifier	O ID 01/02	"ZZ" for Mutually defined.
FOB03	352	Description	O AN 01/80	Free form Ship Terms.
FOB04	334	Transportation Terms Qualifier Code	O ID 02/02	Not used.
FOB05	335	Transportation Terms Code	O ID 03/03	Not used.
FOB06	309	Location Qualifier	O ID 01/02	Not used.
FOB07	352	Description	O AN 01/80	Not used.
FOB08	54	Risk of Loss Qualifier	O ID 02/02	Not used.
FOB09	352	Description	O AN 01/80	Not used.

6.6 ITD – Terms of Sale / Deferred Terms of Sale

Segment: ITD - Terms of Sale / Deferred Terms of Sale

Level: Header

Max Usage/Loops: 999999/None.

Purpose: To specify terms of sale.

General Information: One ITD segment will be sent.

Example: ITD~01~3~~~~~Net 30 Days N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
ITD01	336	Terms Type Code	O ID 02/02	"01" for Basic
ITD02	333	Terms basis Date Code	O ID 01/02	"3" for Invoice date.
ITD03	338	Terms discount Percent	O R 01/06	Not used.
ITD04	370	Terms Discount Due Date	O DT 08/08	Not used.
ITD05	351	Terms Discount Days Due	C N0 01/03	Not used.
ITD06	446	Terms Net Due Date	O DT 08/08	Not used.
ITD07	386	Terms Net Days	O N0 01/03	Not used.
ITD08	362	Terms Discount Amount	O N2 02/10	Not used.
ITD09	388	Terms Deferred Due Date	O DT 08/08	Not used.
ITD10	389	Deferred Amount Due	C N2 01/10	Not used.
ITD11	342	Percent of Invoice Payable	C R 01/05	Not used.
ITD12	352	Description	O AN 01/80	Terms text.
.				
.				
.				
ITD15	954	Percent	O R 01/10	Not used.

6.7 N9 - Reference Identification

Segment: N9 - Reference Identification

Level: Heading

Max Usage/Loops: 1/1000

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

General Information: Used as a header record for the MSG segments.

Example: N9~L1~~NOTES N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N901	128	Reference Identification Qualifier	M AN 02/03	"L1" Letters or Notes
N902	127	Reference Identification	O AN 01/30	Not used.
N903	369	Free-Form Description	O AN 01/45	"NOTES".
N904	373	Date	O DT 08/08	Not used.
.				
.				
.				
N907	127	Reference Identification	O AN 01/30	Not used.

6.8 MSG – Message Text

Segment: MSG – Message Text

Level: Header

Max Usage/Loops: 1000 per N9 loop.

Purpose: To provide a free-form format that would allow the transmission of text information.

General Information: Used to specify free-form text details for the PO.

Example: MSG~Certificate of Origin N/L
 MSG~To facilitate customs clearance a "Certificate of N/L
 MSG~Origin" should be included with Canada Customs N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
MSG01	993	Free-form Message	M AN 02/264	Free-form PO details. Algoma will provide up to 80 characters of text in each MSG01
MSG02	994	Printer Carriage Control Code	O ID 02/02	Not used.
MSG03	1470	Number	O N0 01/09	Not used.

6.9 N1 - Name

Segment: N1 - Name

Level: Header

Max Usage/Loops: 1 per N1 loop whose max usage is 200 loops.

Purpose: To identify a party by type of organization, name and code.

General

Information: 4 N1 loops will be sent. The VN loop will include Algoma's vendor code for the vendor.

Example:

N1~RI~Any Company N/L
 N1~ST~ESSAR Steel Algoma Inc. N/L
 N1~BT~ESSAR Steel Algoma Inc. N/L
 N1~VN~Any Company~92~ABCDEFGHIJ00 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N101	98	Entity Identifier Code	M AN 02/03	"BT" for Bill to. "RI" for Remit-to. "ST" for Ship-to. "VN" for Vendor.
N102	93	Name	M AN 01/60	Organization's name.
N103	66	ID Code Qualifier	O ID 01/02	"92" for assigned by buyer (assigned vendor code).
N104	67	ID Code	C AN 02/80	Vendor code.
N105	706	Entity Relationship Code	O ID 02/02	Not used.
N106	98	Entity Identifier Code	O AN 02/03	Not used.

6.10 N2 – Additional Name Information

Segment: N2 - Additional Name Information

Level: Header

Max Usage/Loops: 1 per N1 loop

Purpose: To specify additional name information.

General Information: One N2 segment will be sent containing additional name information in free form.

Example: N2~PO BOX 9100 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N201	93	Name	M AN 01/60	Name.
N202	93	Name	O AN 01/60	Not used.

6.11 N3 – Address Information

Segment: N3 - Address Information

Level: Header

Max Usage/Loops: 2 per N1 loop

Purpose: To specify the location of the named party.

General Information: Up to two N3 segments will be sent containing address information in free form.

Example: N3~POSTAL STATION F~TORONTO, ONTARIO N/L
N3~M4Y 3A5 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N301	166	Address Information	M AN 01/55	Address information.
N302	166	Address Information	O AN 01/55	Address information.

6.12 N4 - Geograpic Location

Segment: N4 - Geographic Location

Level: Header

Max Usage/Loops: 1 per N1 loop

Purpose: To specify the geographic place of the named party.

General Information: One N4 segment will be sent in the N1 ship-to loop.

Example: N4~~~~DL~Material Movement - Steelmaking N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N401	19	City Name	O AN 02/30	Not used.
N402	156	State or Province Code	O ID 02/02	Not used.
N403	116	Postal Code	O ID 03/15	Not used.
N404	26	Country Code	O ID 02/03	Not used.
N405	309	Location Qualifier	O ID 01/02	"DL" for delivery location.
N406	310	Location Identifier	O AN 01/30	Delivery location.

6.13 PER – Administrative Communications Contact

Segment: PER - Administrative Communications Contact

Level: Header

Max Usage/Loops: 1 per N1 loop.

Purpose: To identify a person or office to whom administrative communications should be directed.

General Information: Used to specify the Algoma contact name and number. Only provided in the N1 bill to loop.

Example: PER~BD~Robert Rose~TE~7059453589~FX~7059452483 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
PER01	366	Contact Function Code	M ID 02/02	"BD" for Buyer.
PER02	93	Name	O AN 01/60	Contact Name
PER03	365	Communication Number Qualifier	O ID 02/02	"TE" for telephone number.
PER04	364	Communication Number	O AN 01/80	Telephone number:
PER05	365	Communication Number Qualifier	O ID 02/02	"FX" for fax number.
PER06	364	Communication Number	O AN 01/80	Fax number:
PER07	365	Communication Number Qualifier	O ID 02/02	Not used.
PER08	364	Communication Number	O AN 01/80	Not used.
PER09	443	Contact Inquiry Reference	O AN 01/20	Not used.

6.14 PO1 – Baseline Item Data

Segment: PO1 – Baseline Item Data

Level: Detail

Max Usage/Loops: 1 / 10,000 loops.

Purpose: To specify basic and most frequently used line item data.

General

Information: One PO1 segment will be sent for each item.
Note: On the original blanket PO a complete PO1 will be sent, but the PO102 will be zero.
Note: In the case were a modification is only made to the header area of the 850, the 850 will be sent with a single PO1 which will only have the PO102 element filled in and it will have a value of zero. This is to satisfy the X.12 standards.

Example: PO1~001~5~PC~25.98~EA~CB~1234 123456~MF~Any Company~MG~1234567-001~DR~12345678 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
PO101	350	Assigned Identification	O AN 01/20	Line item number.
PO102	330	Quantity Ordered	M R 01/15	Ordered quantity.
PO103	355	Unit or Basis for Measurement Code	M ID 02/02	Ordered unit of measure.
PO104	212	Unit Price	O R 01/17	Unit price.
PO105	639	Basis of Unit Price	O ID 02/02	Pricing unit of measure.
PO106	235	Product/Service ID Qualifier	M ID 02/02	"CB" for Buyer's catalog number.
PO107	234	Product/Service ID	M AN 01/48	Algoma's catalog number: "1234 123456"
PO108	235	Product/Service ID Qualifier	M ID 02/02	"MF" for Manufacturer's name.
PO109	234	Product/Service ID	M AN 01/48	Manufacturer's name.
PO110	235	Product/Service ID Qualifier	M ID 02/02	"MG" for Manufacturer's part number.
PO111	234	Product/Service ID	M AN 01/48	Manufacturer's part number.

Segment: PO1 - Baseline Item Data

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
PO112	235	Product/Service ID Qualifier	M ID 02/02	"DR" for drawing number.
PO113	234	Product/Service ID	M AN 01/48	Drawing number.
PO114	235	Product/Service ID Qualifier	M ID 02/02	Not used.
.				
.				
.				
PO125	234	Product/Service ID	M AN 01/48	Not used.

6.15 PID - Product/Item Description

Segment: PID - Product/Item Description

Level: Detail

Max Usage/Loops: 1 / 1000.

Purpose: To describe a product or process in coded or free-form format.

General Information: One free-form PID segment will be used to provide product description information.

Example: PID~F~~~~CEILING TILE - 3.4 INCHES BY 1556 INCHES N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
PID01	349	Item Description Type	M ID 01/01	"F" for free-form format.
PID02	750	Product/Process Characteristic Code	O ID 02/03	Not used.
PID03	559	Agency Qualifier Code	C ID 02/02	Not used.
PID04	751	Product Description Code	C AN 01/12	Not used.
PID05	352	Description	C AN 01/80	Product description.
PID06	752	Surface/Layer/Position Code	O ID 02/02	Not used.
PID07	822	Source Sub-qualifier	O AN 01/15	Not used.
PID08	1073	Yes/No Condition Or Response Code	O ID 01/01	Not used.
PID09	819	Language Code	O ID 02/03	Not used.

6.16 REF - Reference Numbers

Segment: REF - Reference Numbers

Level: Detail

Max Usage/Loops: 99999 per item loop.

Purpose: To transmit identifying numbers.

General Information: Used to specify data used to organize the packing of the shipment. Up to 6 REF segments may be provided.

Example: REF~ACE~9211425 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
REF01	128	Reference Number Qualifier	M AN 02/03	"ACE" for MSR number "28" for MSR requestor "DP" for Delivery building "DK" for Delivery door "OQ" for Shop Order number "WO" for Work Order number
REF02	127	Reference Number	M AN 01/30	MSR number. MSR requestor. Delivery building Delivery door Shop Order number Work Order number
REF03	352	Description	O AN 01/80	Not used.
REF04	128	Reference Identification Qualifier	O AN 01/03	Not used.

6.17 SAC – Service

Segment: SAC - Service

Level: Detail

Max Usage/Loops: 1 / 25.

Purpose: To specify allowances, charges or services.

General Information: Up to 1 SAC segments can be sent to specify a discount.

Example: SAC~A~~~~3~~5 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
SAC01	248	Allowance or Charge Indicator	M ID 01/01	"A" for allowance.
SAC02	1300	Service Promotion Allowance	C AN 04/04	Not used.
SAC03	559	Agency Qualifier Code	C ID 02/02	Not used.
SAC04	1301	Agency Service Promotion Allowance	C AN 01/10	Not used.
SAC05	610	Amount	O N2 01/15	Not used.
SAC06	378	Allowance / Charge Percent Qualifier	C ID 01/01	"3" for discount.
SAC07	332	Percent	C R 01/06	Not used.
SAC08	118	Rate	C R 01/09	Allowance rate.
SAC09	355	Unit or Basis for Measurement	C ID 02/02	Not used.
SAC10	380	Quantity	C R 01/15	Not used.
SAC11	380	Quantity	O R 01/15	Not used.
SAC12	331	Allowance or Charge Method of Handling Code	O ID 02/02	Not used.
SAC13	127	Reference Identification	C AN 01/30	Not used.
SAC14	770	Option Number	O AN 01/20	Not used.

Segment: SAC - Service

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
SAC15	352	Description	C AN 01/80	Not used.
SAC16	819	Language Code	O ID 02/03	Not used.

6.18 DTM - Date/Time Reference

Segment: DTM - Date/Time Reference

Level: Detail

Max Usage/Loops: 10/None

Purpose: To specify pertinent dates and times.

General Information: To specify the delivery date.

Example: DTM~002~200020125 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
DTM01	374	Date/Time Qualifier	M ID 03/03	"002" for delivery date.
DTM02	373	Date	M DT 08/08	Date (CCYYMMDD)
DTM03	337	Time	O TM 04/08	Not used.
DTM04	623	Time Code	O ID 02/02	Not used.
DTM05	1250	Date Time Period Format Qualifier	C ID 02/03	Not used.
DTM06	1251	Date Time Period	C AN 01/35	Not used.

6.19 TXI – Tax Information

Segment: TXI - Tax Information

Level: Detail

Max Usage/Loops: 999999.

Purpose: To describe a product or process in coded or free-form format.

General Information: Up to 2 TXI segments can be provided. One for GST and one for provincial tax.

Example: TXI~CV~~~~~2 N/L
TXI~SP~~~~~G N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
TXI01	963	Tax Type Code	M ID 02/02	"CV" for GST. "SP" for Provincial Tax.
TXI02	782	Monetary Amount	C R 01/18	Not used.
TXI03	954	Percent	C R 01/10	Not used.
TXI04	955	Tax Jurisdiction Code Qualifier	C ID 02/02	Not used.
TXI05	956	Tax Jurisdiction Code	C AN 01/10	Not used.
TXI06	441	Tax Exempt Code	C ID 01/01	"F" for Exempt GST. "G" for Exempt provincial. "2" for Not tax exempt.
TXI07	662	Relationship Code	C ID 01/01	Not used.
TXI08	828	Dollar Basis for Percent	C R 01/09	Not used.
TXI09	325	Tax Identification Number	O AN 01/20	Not used.
TXI10	350	Assigned Identification	O AN 01/20	Not used.

6.20 SLN - Subline Item Detail

Segment: SLN - Subline Item Detail

Level: Detail

Max Usage/Loops: 1 / 1000.

Purpose: To specify product subline detail item data.

General Information: The SLN segment will only be provided for rebuilds.

Example: SLN~1~~I~1~EA~~~~CB~1234 123456~MF~Any Company~
MG~1234567-001~DR~12345678 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
SLN01	356	Assigned Identification	M AN 01/20	Unique number starting at one.
SLN02	356	Assigned Identification	O AN 01/20	Not used.
SLN03	662	Relationship Code	M ID 01/01	"I" for included.
SLN04	380	Quantity	O R 01/15	Rebuild quantity.
SLN05	355	Unit or Basis for Measurement Code	O ID 02/02	Rebuild quantity unit of measure.
SLN06	212	Unit Price	O ID 01/02	Not used.
SLN07	639	Basis of Unit Price	O R 01/09	Not used.
SLN08	662	Relationship Code	O R 01/09	Not used.
SLN09	235	Product/Service ID Qualifier	O ID 02/02	"CB" for rebuild catalog number.
SLN10	234	Product/Service ID	O AN 01/48	Algoma's rebuild catalog number, i.e.: "1234 123456"
SLN11	235	Product/Service ID Qualifier	C ID 02/02	"MF" for rebuild manufacturer's name.
SLN12	234	Product/Service ID	O AN 01/48	Rebuild manufacturer's name.
SLN13	235	Product/Service ID Qualifier	M ID 02/02	"MG" for Rebuild Manufacturer's part number.
SLN14	234	Product/Service ID	M AN 01/48	Rebuild Manufacturer's part number.

Segment: SLN - Subline Item Detail

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
SLN15	235	Product/Service ID Qualifier	M ID 02/02	"DR" for rebuild drawing number.
SLN16	234	Product/Service ID	M AN 01/48	Rebuild drawing number.
SLN15	235	Product/Service ID Qualifier	M ID 02/02	Not used.
.				
.				
.				
SLN28	234	Product/Service ID	C AN 01/48	Not used.

6.21 N9 - Reference Identification

Segment: N9 - Reference Identification

Level: Detail

Max Usage/Loops: 1/1000

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier.

General Information: Used as a header record for the MSG segments.

Example: N9~L1~~NOTES N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
N901	128	Reference Identification Qualifier	M AN 02/03	"L1" Letters or Notes
N902	127	Reference Identification	O AN 01/30	Not used.
N903	369	Free-Form Description	O AN 01/45	"NOTES".
N904	373	Date	O DT 08/08	Not used.
.				
.				
.				
N907	127	Reference Identification	O AN 01/30	Not used.

6.22 MSG – Message Text

Segment: MSG - Message Text

Level: Detail

Max Usage/Loops: 1000 per N9.

Purpose: To provide a free-form format that would allow the transmission of text information.

General

Information: Used to specify free-form text details for the PO.

Example:

MSG~Certificate of Origin N/L
 MSG~To facilitate customs clearance a "Certificate of N/L
 MSG~Origin" should be included with Canada Customs N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
MSG01	993	Free-form Message	M AN 02/264	Free-form PO item detail. Algoma will provide up to 80 characters of text in each MSG01
MSG02	994	Printer Carriage Control Code	O ID 02/02	Not used.
MSG03	1470	Number	O N0 01/09	Not used.

6.23 CTT - Transaction Totals

Segment: CTT - Transaction Totals

Level: Summary

Max Usage/Loops: 1/none.

Purpose: To transmit hash totals for a specific element in the transaction set.

General Information: CTT01 is required.

Example: CTT~21 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
CTT01	354	Number of Line Items	M N0 01/06	Total number of PO1 segments.
CTT02	347	Hash Total	O R 01/10	Not used.
CTT03	81	Weight	O R 01/10	Not used.
CTT04	355	Unit of Measurement Code	O ID 02/02	Not used.
CTT05	183	Volume	O R 01/08	Not used.
CTT06	355	Unit of Measurement Code	O ID 02/02	Not used.
CTT07	352	Description	O AN 01/80	Not used.

6.24 SE - Transaction Set Trailer

Segment: SE - Transaction Set Trailer

Level: Summary

Max Usage/Loops: 1/none.

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segment).

General Information:

Example: SE~23~0001 N/L

Elem ID	Elem#	Name	Features	Comments
-----	-----	-----	-----	-----
SE01	96	Number of Included Segments	M NO 01/06	
SE02	329	Transaction Set Control Number	M AN 04/09	Same as ST02

SECTION 7. DATA ELEMENT DICTIONARY

66 ID Code Qualifier
92 Assigned by buyer

92 Purchase Order Type Code
CC Blanket purchase order change
CP Purchase order change
CR Purchase order release change
KB Blanket purchase order (Blanket purchase contract)
KN Purchase order
RL Purchase order release (Blanket purchase contract release)

98 Entity Identifier Code
BT Bill-to
II Issuer of invoice
ST Ship-to
RI Remit-to
VN Vendor

100 Currency Code
CAD Canadian dollars
USD US dollars

128 Reference Number Qualifier
ACE MSR number
DK Delivery door
DP Delivery building
OQ Shop Order number
PP Purchase order revision number
WO Work Order number
28 MSR requestor

146 Shipment Method of Payment
CC Collect
CF Collect, freight credited back
PC Prepaid but charge to customer
PP Prepaid

235 Product/Service ID Qualifier
CB Buyer's catalog number
DR Drawing number
MF Manufacturer's name
MG Manufacturer's part number

248 Allowance or Charge Indicator
A Allowance

309 Location Qualifier
DL Delivery location
ZZ Mutually defined

333 Terms Basis Date Code
3 Invoice date

336 Terms Type Code
01 Basic

349 Item Description Type
F Free-form

353 Transaction Set Purpose Code
00 Original
04 Change
07 Duplicate

355 Unit of Measurement Code
- any valid X.12 code

365 Communications Number Qualifier
FX Facsimile number
TE Telephone number

366 Contact Function Code
BD Buyer

374 Date/Time Qualifier
002 Delivery date

378 Allowance/Charge Percent Qualifier
3 Discount

441 Tax Exempt Code
2 Not tax exempt
F Exempt GST
G Exempt provincial

587 Acknowledgement Type
AE Exceptions only

639 Basis of Unit Price
- any valid X.12 code

963 Tax Type Code
CV GST
SP Provincial tax

1019 Invoice Type Code
IBM Invoice by mail
IEL Invoice electronically (for future use)

SECTION 8. 850 SAMPLE TRANSACTIONS

8.1 Blanket Purchase Contract

ISA~00~ ~00~ ~01~201495124 ~01~
207663412 ~010420~1312~U~00401~000000001~0~P~`
GS~PO~201495124~999999999~20010420~1312~1~X~004010
ST~850~0001
BEG~00~KB~123456~0000~20010420~~AE
CUR~II~CAD
REF~PP~00
FOB~CC~ZZ~FOB TORONTO, ON
ITD~01~3~~~~~Net 30 Days
N9~L1~~NOTES
MSG~Certificate of Origin
MSG~To facilitate customs clearance a "Certificate of
MSG~Origin" should be included
N1~VN~Any Company~92~ABCDEFGHIJ00
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~RI~Any Company
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~BT~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N1~ST~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N4~~~~DL~Material Movement - Steelmaking
PER~BD~Robert Rose~TE~7059453589~FX~7059452483
PO1~1~0~PC~25.98~EA~CB~1234 123456~MF~Any Company~MG~1234567-001~DR~12345678
PID~F~~~~CEILING TILE - 10.5 INCHES BY 59 INCHES
TXI~CV~~~~~2
TXI~SP~~~~~2
N9~L1~~NOTES
MSG~UNIT PRICED BASED ON LETTER FROM R. SMITH DATED FEB 12 TH 2003
PO1~2~0~EA~60.95~EA~CB~1234 234567~MF~Any Company~MG~234569-001~DR~4567891
PID~F~~~~WINDOW - 12 INCHES BY 36 INCHES
TXI~CV~~~~~2
TXI~SP~~~~~2
CTT~2
SE~40~0001
GE~1~1
IEA~1~000000001

8.2 Blanket Purchase Contract Change

ISA~00~ ~00~ ~01~201495124 ~01~
207663412 ~010420~1312~U~00401~000000001~0~P~`
GS~PO~201495124~999999999~20010420~1312~1~X~004010
ST~850~0001
BEG~04~CC~123456~0000~20010420~~AE
CUR~II~CAD
REF~PP~01
FOB~CC~ZZ~FOB TORONTO, ON
ITD~01~3~~~~~Net 30 Days
N9~L1~~NOTES
MSG~ *****
MSG~ ** MODIFICATION TO **
MSG~ ** ITEM DESCRIPTION **
MSG~ *****
N1~VN~Any Company~92~ABCDEFGHIJ00
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~RI~Any Company
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~BT~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N1~ST~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N4~~~~DL~Material Movement - Steelmaking
PER~BD~Robert Rose~TE~7059453589~FX~7059452483
PO1~1~0~PC~25.98~EA~CB~1234 123456~MF~Any Company~MG~1234567-001~DR~12345678
PID~F~~~~CEILING TILE - 20.5 INCHES BY 59 INCHES
TXI~CV~~~~~2
TXI~SP~~~~~2
CTT~1
SE~36~0001
GE~1~1
IEA~1~000000001

8.3 One Time Purchase Order

ISA~00~ ~00~ ~01~201495124 ~01~
 207663412 ~010420~1312~U~00401~000000001~0~P~`
 GS~PO~201495124~999999999~20010420~1312~1~X~004010
 ST~850~0001
 BEG~00~KN~123456~0000~20010420~~AE
 CUR~II~CAD
 REF~PP~00
 FOB~CC
 ITD~01~3~~~~~Net 30 Days
 N9~L1~~NOTES
 MSG~Certificate of Origin
 MSG~To facilitate customs clearance a "Certificate of
 MSG~Origin" should be included
 N1~RI~Any Company
 N2~PO BOX 9100
 N3~POSTAL STATION F~TORONTO, ONTARIO
 N3~M4Y 3A5
 N1~ST~ESSAR Steel Algoma Inc.
 N2~105 West Street
 N3~Sault Ste Marie, ONTARIO
 N3~P6A 7B4
 N4~~~~DL~Material Movement - Steelmaking
 N1~BT~ESSAR Steel Algoma Inc.
 N2~105 West Street
 N3~Sault Ste Marie, ONTARIO
 N3~P6A 7B4
 PER~BD~Robert Rose~TE~7059453589~FX~7059452483
 N1~VN~Any Company~92~ABCDEFGHIJ00
 N2~PO BOX 9100
 N3~POSTAL STATION F~TORONTO, ONTARIO
 N3~M4Y 3A5
 PO1~1~7~PC~25.98~EA~CB~1234 123456~MF~Any Company~MG~1234567-001~DR~12345678
 PID~F~~~~CEILING TILE - 10.5 INCHES BY 59 INCHES
 REF~ACE~12345678
 REF~28~MGGRECOT
 REF~DP~STORES WHSE
 REF~DK~#14 DOOR - RECEIVING
 REF~OQ~9211425
 REF~WO~9211426
 TXI~CV~~~~2
 TXI~SP~~~~2
 N9~L1~~NOTES
 MSG~UNIT PRICED BASED ON LETTER FROM R. SMITH DATED FEB 12 TH 2003
 PO1~2~25~EA~60.95~EA~CB~1234 234567~MF~Any Company~MG~234569-001~DR~4567891
 PID~F~~~~WINDOW - 12 INCHES BY 36 INCHES
 REF~ACE~12345678
 REF~28~MGGRECOT
 REF~DP~STORES WHSE
 REF~DK~#14 DOOR - RECEIVING
 REF~OQ~9211425
 REF~WO~9211426
 TXI~CV~~~~2
 TXI~SP~~~~2
 SAC~A~~~~3~5

DTM~002~200020125
TXI~CV~~~~~2
TXI~SP~~~~~2
CTT~1
SE~58~0001
GE~1~1
IEA~1~00000001

8.4 One Time Purchase Order Change

ISA~00~ ~00~ ~01~201495124 ~01~
207663412 ~010420~1312~U~00401~000000001~0~P~`
GS~PO~201495124~999999999~20010420~1312~1~X~004010
ST~850~0001
BEG~04~CP~123456~0000~20010420~~AE
CUR~II~CAD
REF~PP~01
FOB~CC
ITD~01~3~~~~~Net 30 Days
N9~L1~~NOTES
MSG~ *****
MSG~ ** ADDED MISSING **
MSG~ ** ITEM **
MSG~ *****
N1~RI~Any Company
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~ST~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N4~~~~DL~Material Movement - Steelmaking
N1~BT~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
PER~BD~Robert Rose~TE~7059453589~FX~7059452483
N1~VN~Any Company~92~ABCDEFGHIJ00
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
PO1~3~16~PC~5.98~EA~CB~1234 123777~MF~Any Company~MG~1234777-001~DR~12345777
PID~F~~~~CEILING TILE GLUE
REF~ACE~12345678
REF~28~MGGRECOT
REF~DP~STORES WHSE
REF~DK~#14 DOOR - RECEIVING
REF~OQ~9211425
REF~WO~9211426
TXI~CV~~~~2
TXI~SP~~~~2
CTT~1
SE~41~0001
GE~1~1
IEA~1~000000001

8.5 Purchase Order Release

ISA~00~ ~00~ ~01~201495124 ~01~
 207663412 ~010420~1312~U~00401~000000001~0~P~`
 GS~PO~201495124~999999999~20010420~1312~1~X~004010
 ST~850~0001
 BEG~00~RL~123456~0001~20010420~~AE
 CUR~II~CAD
 REF~PP~00
 FOB~CC~ZZ~FOB TORONTO, ON
 ITD~01~3~~~~~Net 30 Days
 N9~L1~~NOTES
 MSG~Certificate of Origin
 MSG~To facilitate customs clearance a "Certificate of
 MSG~Origin" should be included
 N1~VN~Any Company~92~ABCDEFGHIJ00
 N2~PO BOX 9100
 N3~POSTAL STATION F~TORONTO, ONTARIO
 N3~M4Y 3A5
 N1~RI~Any Company
 N2~PO BOX 9100
 N3~POSTAL STATION F~TORONTO, ONTARIO
 N3~M4Y 3A5
 N1~BT~ESSAR Steel Algoma Inc.
 N2~105 West Street
 N3~Sault Ste Marie, ONTARIO
 N3~P6A 7B4
 N1~ST~ESSAR Steel Algoma Inc.
 N2~105 West Street
 N3~Sault Ste Marie, ONTARIO
 N3~P6A 7B4
 N4~~~~DL~Material Movement - Steelmaking
 PER~BD~Robert Rose~TE~7059453589~FX~7059452483
 PO1~1~25~PC~25.98~EA~CB~1234 123456~MF~Any Company~MG~1234567-001~DR~12345678
 PID~F~~~~CEILING TILE - 10.5 INCHES BY 59 INCHES
 REF~ACE~12345678
 REF~28~MGGRECOT
 REF~DP~STORES WHSE
 REF~DK~#14 DOOR - RECEIVING
 REF~OQ~9211425
 REF~WO~9211426
 TXI~CV~~~~~2
 TXI~SP~~~~~2
 N9~L1~~NOTES
 MSG~UNIT PRICED BASED ON LETTER FROM R. SMITH DATED FEB 12 TH 2003
 PO1~2~30~EA~60.95~EA~CB~1234 234567~MF~Any Company~MG~234569-001~DR~4567891
 PID~F~~~~WINDOW - 12 INCHES BY 36 INCHES
 REF~ACE~12345678
 REF~28~MGGRECOT
 REF~DP~STORES WHSE
 REF~DK~#14 DOOR - RECEIVING
 REF~OQ~9211425
 REF~WO~9211426
 TXI~CV~~~~~2
 TXI~SP~~~~~2
 CTT~2

ESSAR Steel Algoma Inc.

DOCUMENT NO.: ICS 004010 850 S Supplier
Purchase Order

SE~40~0001
GE~1~1
IEA~1~000000001

8.6 Purchase Order Release Change

ISA~00~ ~00~ ~01~201495124 ~01~
207663412 ~010420~1312~U~00401~000000001~0~P~`
GS~PO~201495124~999999999~20010420~1312~1~X~004010
ST~850~0001
BEG~04~CR~123456~0001~20010420~~AE
CUR~II~CAD
REF~PP~01
FOB~CC~ZZ~FOB TORONTO, ON
ITD~01~3~~~~~Net 30 Days
N9~L1~~NOTES
MSG~ *****
MSG~ ** MODIFIED QUANTITY **
MSG~ ** ON ITEM 2 **
MSG~ *****
N1~VN~Any Company~92~ABCDEFGHIJ00
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~RI~Any Company
N2~PO BOX 9100
N3~POSTAL STATION F~TORONTO, ONTARIO
N3~M4Y 3A5
N1~BT~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N1~ST~ESSAR Steel Algoma Inc.
N2~105 West Street
N3~Sault Ste Marie, ONTARIO
N3~P6A 7B4
N4~~~~DL~Material Movement - Steelmaking
PER~BD~Robert Rose~TE~7059453589~FX~7059452483
PO1~2~38~EA~60.95~EA~CB~1234 234567~MF~Any Company~MG~234569-001~DR~4567891
PID~F~~~~WINDOW - 12 INCHES BY 36 INCHES
REF~ACE~12345678
REF~28~MGGRECOT
REF~DP~STORES WHSE
REF~DK~#14 DOOR - RECEIVING
REF~OQ~9211425
REF~WO~9211426
TXI~CV~~~~2
TXI~SP~~~~2
CTT~1
SE~27~0001
GE~1~1
IEA~1~000000001