Implementation Guidelines For ANSI X12 Transaction Set 861
Receiving Advice
(Consignment)

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Algoma Steel Inc.

Information Technology

Author: Tom Campbell

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R02	2008 06 23	name change	G. Masters
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R06	2013 10 01	LIN MO qualifier	G. Masters
R07	2017 03 22	Changed contacts	G. Masters

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SECTION 2. PREFACE

Algoma Steel Inc. is committed to supporting and using the Automotive Industry Action Group/American National Standards Institute (AIAG/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 receiving advice.

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

Algoma Steel Inc.
Information Systems & Business Process Improvement
105 West Street
Sault Ste. Marie, ON
P6A 7B4

Brian Dale 705 297-2947 Brian.Dale@algoma.com
EDI Support EDISupport@algoma.com
Fax 705 945-2366

SECTION 3. SUMMARY

This document is intended to provide the details on how to construct an electronic Receiving Advice (AG) 861 transaction set to satisfy Algoma's requirements.

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

Algoma is prepared to send partners 856 (advance shipment notification) transactions to assist in data processing.

The receiving advice (861) is a prerequisite of the 870 (Order Status) transaction.

Algoma Steel Inc. will respond to all incoming 861 transactions with a 997 (functional acknowledgment). All partners must advise Algoma, regarding unacknowledged 861 transactions, in a timely manner.

An Application Advice (824 transaction) will be sent for each batch (piece) received in a 861 transaction. The 824 will be used to identify whether an 861 was accepted or rejected. The sender will be required to correct any rejected 861 transactions and resend to Algoma Steel in a timely fashion.

Algoma Steel Inc. uses the GXS network for electronic data interchange. Algoma's qualifier is 01 and production ID is 201495124.

SECTION 4. INTERCHANGE ENVELOPE

4.1 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: Mandatory.

Example: ISA~00~ ~00~ ~01~201495124 ~01~999999999 ~110401~1312~U~00401~000000001~1~P~ □

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	Use your company's DUNS number. Left justified.

Segment: ISA - Interchange Control Header

Elem ID	Elem#	Name	Features	Comments
ISA07	704	Interchange Receiver ID Qualifier	M ID 02/02	"01" for DUNS number
ISA08	706	Interchange Receiver ID	M ID 15/15	Use "201495124" left justified.
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
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"
ISA16	701	Sub Element Separator	M AN 01/01	Must be different then the element separator.

4.2 Element separators and segment terminator

Algoma uses the following characters:

- Segment terminator ANSI Hex "1C"
- Element separator ANSI Hex "7E"
- Sub element separator ANSI Hex "3A"

4.3 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□

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

5.1 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: Mandatory.

Example: GS~RC~999999999~201495124~20110401~1312~1~X~004010□

Elem ID	Elem#	Name	Features	Comments
GS01	479	Functional ID	M ID 02/02	"RC"
GS02	142	Application Sender Code	M ID 02/12	Use your company's DUNS number
GS03	124	Application Receiver Code	M ID 02/12	"201495124"
GS04	29	Data Interchange Date	M DT 08/08	Date created (CCYYMMDD)
GS05	30	Data Interchange Time	M TM 04/04	Time created (HHMM) 24 hour clock
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"

5.2 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: Mandatory.

Example: GE~3~1□

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. 861 TRANSACTION SET

6.1 Data Segment Sequence

ST	Transaction Set Header
BRA	Beginning Segment for Receiving Advice
REF	Reference number (Bill of Lading)
DTM	Date/Time reference (received)
N1	Name (Outside Processor)
N1	Name (Supplier/Manufacturer)
RCD	Receiving Conditions
LIN	Item identification
REF	Reference number (charged material ID)
CTT	Transaction Totals
SE	Transaction Set Trailer

6.2 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~861~0001□

Elem ID	Elem#	Name	Features	Comments
ST01	143	Transaction Set ID Code	M ID 03/03	Use "861"
ST02	329	Transaction Set Control Number	M AN 04/09	A unique number assigned to each transaction set within a functional group.

6.3 BRA - Beginning Segment for Receiving Advice

Segment: BRA - Beginning Segment for Receiving Advice

Level: Heading

Max Usage/Loops: 1

Purpose:
To indicate the beginning of the receiving advice transaction set and transmit identifying numbers and date

General Information: Mandatory.

Example: BRA~135711~20110401~00~1~0240□

Elem ID	Elem#	Name	Features	Comments
BRA01	127	Reference number	M AN 01/30	Number assigned by sender uniquely identifying the transaction set.
BRA02	373	Date	M DT 08/08	Creation date (CCYYMMDD)
BRA03	353	Transaction set purpose code	M ID 02/02	"00"
BRA04	962	Receiving advice or acceptance certificate type code	M ID 01/01	"1" (receiving dock) "2" (post receipt)
BRA05	337	Time	M TM 04/08	Creation time (HHMM)
BRA06	412	Receiving condition code	M ID 02/02	Not used.
BRA07	306	Action Code	M ID 01/02	Not used.

6.4 REF - Reference Number

Segment: REF - Reference number

Level: Heading

Max Usage/Loops: 12

Purpose: To specify identifying numbers.

General Information: One occurrence required: bill of lading number.

Example: REF~BM~100012345□

Elem ID	Elem#	Name	Features	Comments
REF01.	128	Reference number Qualifier	M ID 02/03	"BM " bill of lading.
REF02	127	Reference number	M AN 01/30	Algoma’s shipment number
REF03	352	Description	O AN 01/80	Not used.

6.5 DTM - Date/Time Reference

Segment: DTM - Date/Time Reference

Level: Heading

Max Usage/Loops: 10

Purpose: To specify pertinent dates and times.

General Information: One occurrence of the DTM segment is required at the header level (received date/time).

Example: DTM~050~20110401~1030□

Elem ID	Elem#	Name	Features	Comments
DTM01	374	Date/Time qual. Code	M ID 03/03	"050" received
DTM02	373	Date	M DT 08/08	Date Received (CCYYMMDD)
DTM03	337	Time	M TM 04/08	Time Received (HHMM)
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.

6.6 N1 - Name

Segment: N1 - Name

Level: Heading

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

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

General Information: Two occurrences required: Outside processor and manufacturer segments. Algoma will provide the processor's supplier ID for each location.

Example: N1~SU~Algoma Steel Inc.~1~201495124□
N1~OU~ACME~ZZ~HH22□

Elem ID	Elem#	Name	Features	Comments
N101	98	Entity Identifier Code	M ID 02/03	"OU" for outside processor. "SU" for supplier/ manufacturer.
N102	93	Name	M AN 01/60	Organization's name.
N103	66	ID Code Qualifier	M ID 01/02	"1" for DUNS number. "ZZ" for Assigned ID
N104	67	ID Code	M AN 02/80	DUNS number for SU. Assigned ID for ZZ.
N105	706	Entity Relationship Code	O ID 02/02	Not used.
N106	98	Entity Identifier Code	O AN 02/03	Not used.

6.7 RCD - Receiving Conditions

Segment: RCD - Receiving Conditions

Level: Detail

Max Usage/Loops: 200,000 per RCD Loop.

Purpose: To report receiving conditions and specify contested quantities.

General Information: One RCD loop must be sent for each line item being reported.

Example: RCD~~1~EA□

Elem ID	Elem#	Name	Features	Comments
RCD01	350	Assigned id.	O AN 01/20	Not used.
RCD02	663	Quantity Units received or accepted	M R 01/09	Quantity received
RCD03	355	Unit of measure code	M ID 02/02	"EA" (each)
RCD04	664	Quantity units returned	M R 01/09	Not Used
RCD05	355	Unit of measure code	M ID 02/02	Not Used
.				
.				
.				
RCD21	380	Quantity	O R 01/15	Not Used

6.8 LIN - Item identification

Segment: LIN - Item identification

Level: Detail

Max Usage/Loops: 100 per RCD Loop.

Purpose: To specify basic item identification data.

General Information: Require: Heat number, Manufacturer Serial number, Manufacturer's mill number, Manufacturer's item number, Movement type code for transload & storage facilities.

Example: LIN~~HN~1223A1 22~SN~HA123987~VO~8012345~VN~000123~MO~T□

Elem ID	Elem#	Name	Features	Comments
LIN01	350	Assigned id.	O AN 01/20	Not used.
LIN02	235	Product/service ID qualifier	M ID 02/02	"HN" Heat Number
LIN03	234	Product/service ID	M AN 01/48	Heat Number (6 or 9 characters)
LIN04	235	Product/service ID qualifier	M ID 02/02	"SN"
LIN05	234	Product/service ID	M AN 01/48	Piece ID (batch ID)
LIN06	235	Product/service ID qualifier	M ID 02/02	"VO" Vendor's Order #
LIN07	234	Product/service ID	M AN 01/48	Sales order number
LIN08	235	Product/service ID qualifier	M ID 02/02	"VN" Vendor's Item #
LIN09	234	Product/service ID	M AN 01/48	Sales item number
LIN10	235	Product/service ID qualifier	M ID 02/02	"MO" Movement type code
LIN11	234	Product/service ID	M AN 01/48	"T" to indicate transload material. "S" to indicate storage material.

LIN12 through LIN31 provide 11 additional pairs of Product/Service ID qualifier(235) and product/service ID (234).

6.9 REF - Reference Number

Segment: REF - Reference Numbers

Level: Detail

Max Usage/Loops: 12 per RCD loop.

Purpose: To transmit identifying numbers.

General Information: Used to specify the processor's charged material ID.

Example: REF~RV~3232418□

Elem ID	Elem#	Name	Features	Comments
REF01	128	Reference Number Qualifier	M AN 02/03	"RV" for processor's charged material ID.
REF02	127	Reference Number	M AN 01/30	Processor's charged material ID.
REF03	352	Description	O AN 01/80	Not used.

6.10 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: Mandatory.

Example: CTT~1~1□

Elem ID	Elem#	Name	Features	Comments
CTT01	354	Number of Line Items	M N0 01/06	Total number of RCD segments.
CTT02	347	Hash Total	M R 01/10	Hash total of RCD02 elements.
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.

6.11 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: Mandatory.

Example: SE~23~0001□

Elem ID	Elem#	Name	Features	Comments
SE01	96	Number of Included Segments	M N0 01/06	Number of segments in a transaction set including the ST & SE segments
SE02	329	Transaction Set Control Number	M AN 04/09	Same as ST02

SECTION 7. Data Element Dictionary

66 ID Code Qualifier
1 DUNS number

98 Entity Identifier Code
OU Outside Processor
SU Supplier/Manufacturer

128 Reference Number Qualifier
BM Bill of lading number
RV Receiving Number

235 Product/Service ID Qualifier
HN Heat number
SN Serial number
VN Vendors Item Number
VO Vendors Order Number

355 Unit of Measurement Code
EA Each

374 Date/Time Qualifier
050 Received

962 Receiving Advice Type Code
1 Receiving dock advice
2 Post Receipt advice

SECTION 8. 861 SAMPLE TRANSACTION

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ISA~00~          ~00~          ~01~999999999      ~01~201495124      ~
110401~1312~U~00401~000000001~0~P~ □
GS~RC~999999999CL~201495124~20110401~1312~1~X~004010□
ST~861~0001□
BRA~6332111~20110401~00~1~0240□
REF~BM~100023452□
DTM~050~20110401~1230□
N1~SU~Algoma Steel Inc.~1~201495124□
N1~OU~ACME~ZZ~HHAA□
RCD~~1~EA□
LIN~~HN~1221A4 01~SN~HA1234678~VO~8002345~VN~000123~MO~T□
REF~RV~987654□
RCD~~1~EA□
LIN~~HN~8228A1~SN~25534678~VO~8002345~VN~000123~MO~T□
REF~RV~987655□
CTT~2~2□
SE~14~0001□
GE~1~1□
IEA~1~000000001□
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