863 Report of Test Results

Functional Group ID= \mathbf{RT}

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Report of Test Results Transaction Set (863) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit the results of tests performed to satisfy a specified product or process requirement. This includes, but is not limited to, test data such as inspection data, certification data, and statistical process control measurements.

Heading:

| М | Pos. <u>No.</u> 010 | Seg. <u>ID</u> ST | <u>Name</u> Transaction Set Header | Req. <u>Des.</u> M | <u>Max.Use</u> 1 | Loop <u>Repeat</u> | Notes and <u>Comments</u> |
|---|----------------------------------|-------------------------|---------------------------------------|--------------------------|---------------------|-----------------------|------------------------------|
| М | 020 | BTR | Beginning Segment for Test Results | М | 1 | | |
| | 050 | DTM | Date/Time Reference | 0 | 10 | | |
| | | | LOOP ID - N1 | | | >1 | |
| | 080 | N1 | Name | 0 | 1 | | |

Detail:

| Pos. <u>No.</u> | Seg. <u>ID</u> | Name | Req. <u>Des.</u> | <u>Max.Use</u> | Loop <u>Repeat</u> | Notes and <u>Comments</u> |
|--------------------|-------------------|-----------------------------|---------------------|----------------|-----------------------|------------------------------|
| | | LOOP ID - LIN | | | >1 | |
| 010 | LIN | Item Identification | 0 | 1 | | |
| 030 | MEA | Measurements | 0 | 20 | | |
| | | LOOP ID - CID | | | >1 | |
| 060 | CID | Characteristic/Class ID | 0 | 1 | | |
| 090 | PSD | Physical Sample Description | 0 | >1 | | |
| | | LOOP ID - TMD | | | 100 | |
| 201 | TMD | Test Method | 0 | 1 | | |
| 202 | MEA | Measurements | 0 | >1 | | |

Summary:

| | Pos. Seg. | | | Req. | | Loop | Notes and |
|---|-----------|-----|-------------------------|------|---------|---------------|-----------|
| | No. | ID | Name | Des. | Max.Use | Repeat | Comments |
| | 005 | CTT | Transaction Totals | 0 | 1 | | |
| М | 010 | SE | Transaction Set Trailer | М | 1 | | |

ST Transaction Set Header Segment: **Position:** 010 Loop: Level: Heading Usage: Mandatory Max Use: 1 **Purpose:** To indicate the start of a transaction set and to assign a control number Syntax Notes: Semantic Notes: The transaction set identifier (ST01) is used by the translation routines of the 1 interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

| | | | Data | Element Summary | | | |
|---|------|----------------|---|---------------------------------|-----|---------|--|
| | Ref. | Data | | | | | |
| | Des. | <u>Element</u> | Name | | Att | ributes | |
| Μ | ST01 | 143 | Transaction | Set Identifier Code | Μ | ID 3/3 | |
| | | | Code uniquel | y identifying a Transaction Set | | | |
| | | | 863 | Report of Test Results | | | |
| Μ | ST02 | 329 | Transaction | Set Control Number | Μ | AN 4/9 | |
| | | | Identifying control number that must be unique within the transaction s functional group assigned by the originator for a transaction set | | | | |

BTR Beginning Segment for Test Results

| Segmente | |
|-----------------|---|
| Position: | 020 |
| Loop: | |
| Level: | Heading |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To indicate the beginning of a test results transaction set |
| Syntax Notes: | |
| Semantic Notes: | If BTR01 equals "01", "02", "03", "04", "05", "18" or "19", then BTR06 is required to identify the original test report reference number transmitted. BTR02 is the date that this transaction set was created by the sending party. BTR03 is the time that this transaction set was created by the sending party. BTR05 specifies test results report reference number created by the sending party. |

Comments:

Segment:

| | Ref. | Data | Data Element Summary | | | | |
|---|-------|----------------|---|---------|----------------|--|--|
| | Des. | <u>Element</u> | Name | Att | <u>ributes</u> | | |
| Μ | BTR01 | 353 | Transaction Set Purpose Code | Μ | ID 2/2 | | |
| | | | Code identifying purpose of transaction set | | | | |
| | | | 00 Original | | | | |
| Μ | BTR02 | 373 | Date | Μ | DT 8/8 | | |
| | | | Date expressed as CCYYMMDD | | | | |
| | BTR03 | 337 | Time | 0 | TM 4/8 | | |
| | | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | | | | |
| | BTR04 | 755 | Report Type Code | 0 | ID 2/2 | | |
| | | | Code indicating the title or contents of a document, report or 12 Mechanical Properties | suppo | orting item | | |
| | BTR05 | 127 | Reference Identification | 0 | AN 1/30 | | |
| | | | Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier | I Set o | or as | | |

DTM Date/Time Reference

| Segment: | DTM Date/Time Reference | | | | | |
|-----------------|---|--|--|--|--|--|
| Position: | 050 | | | | | |
| Loop: | | | | | | |
| Level: | Heading | | | | | |
| Usage: | Optional | | | | | |
| Max Use: | 10 | | | | | |
| Purpose: | To specify pertinent dates and times | | | | | |
| Syntax Notes: | 1 At least one of DTM02 DTM03 or DTM05 is required. | | | | | |
| | 2 If DTM04 is present, then DTM03 is required. | | | | | |
| | 3 If either DTM05 or DTM06 is present, then the other is required. | | | | | |
| Semantic Notes: | | | | | | |

Comments:

| | | | D'utu Element Summury | | | | |
|---|--------------|------------------------|---|------------|----------------|--|--|
| | Ref. Des. | Data <u>Element</u> | Name | <u>Att</u> | <u>ributes</u> | | |
| Μ | DTM01 | 374 | Date/Time Qualifier | Μ | ID 3/3 | | |
| | | | Code specifying type of date or time, or both date and time | | | | |
| | | | 011 Shipped | | | | |
| | DTM02 | 373 | Date | Х | DT 8/8 | | |
| | | | Date expressed as CCYYMMDD | | | | |
| | DTM03 | 337 | Time | Х | TM 4/8 | | |
| | | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, on HHMMSSD, or HHMMSSDD, where $H =$ hours (00-23), $M =$ minutes (00-59), $S =$ integer seconds (00-59) and $DD =$ decimal seconds; decimal seconds are expressed as follows: $D =$ tenths (0-9) and $DD =$ hundredths (00-99) | | | | |

| Segment: | N1 _{Name} |
|------------------|--|
| Position: | 080 |
| Loop: | N1 Optional |
| Level: | Heading |
| Usage: | Optional |
| Max Use: | 1 |
| Purpose: | To identify a party by type of organization, name, and code |
| Syntax Notes: | 1 At least one of N102 or N103 is required. |
| | 2 If either N103 or N104 is present, then the other is required. |
| Semantic Notes: | |
| Comments: | 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must |

provide a key to the table maintained by the transaction processing party.N105 and N106 further define the type of entity in N101.

| | | | Data Elem | ent Summary | | |
|---|-----------------------------|------------------------------|------------------------------------|--|---------|--------------------------|
| Μ | Ref. <u>Des.</u> N101 | Data <u>Element</u> 98 | <u>Name</u> Entity Identifier C | ode | - | <u>ributes</u> ID 2/3 |
| | | | Code identifying an individual | organizational entity, a physical location | , proj | perty or an |
| | | | BY | Buying Party (Purchaser) | | |
| | | | MF | Manufacturer of Goods | | |
| | | | OU | Outside Processor | | |
| | | | | A resource extraneous to primary mater performs additional material processing of the material to the primary provider's | ; prioi | r to delivery |
| | | | SF | Ship From | | |
| | | | ST | Ship To | | |
| | | | SU | Supplier/Manufacturer | | |
| | N103 | 66 | Identification Code | e Qualifier | Х | ID 1/2 |
| | | | Code designating th Code (67) | e system/method of code structure used f | or Ide | entification |
| | | | 1 | D-U-N-S Number, Dun & Bradstreet | | |
| | | | 92 | Assigned by Buyer or Buyer's Agent | | |
| | N104 | 67 | Identification Code | e | Х | AN 2/80 |
| | | | Code identifying a p | party or other code | | |

| Segment: | LIN Item Identification |
|------------------|--|
| Position: | 010 |
| Loop: | LIN Optional |
| Level: | Detail |
| Usage: | Optional |
| Max Use: | 1 |
| Purpose: | To specify basic item identification data |
| Syntax Notes: | 1 If either LIN04 or LIN05 is present, then the other is required. |
| - | 2 If either LIN06 or LIN07 is present, then the other is required. |
| | 3 If either LIN08 or LIN09 is present, then the other is required. |
| | 4 If either LIN10 or LIN11 is present, then the other is required. |
| | 5 If either LIN12 or LIN13 is present, then the other is required. |
| | 6 If either LIN14 or LIN15 is present, then the other is required. |
| | 7 If either LIN16 or LIN17 is present, then the other is required. |
| | 8 If either LIN18 or LIN19 is present, then the other is required. |
| | 9 If either LIN20 or LIN21 is present, then the other is required. |
| | 10 If either LIN22 or LIN23 is present, then the other is required. |
| | 11 If either LIN24 or LIN25 is present, then the other is required. |
| | 12 If either LIN26 or LIN27 is present, then the other is required. |
| | 13 If either LIN28 or LIN29 is present, then the other is required. |
| | 14 If either LIN30 or LIN31 is present, then the other is required. |
| Semantic Notes: | 1 LIN01 is the line item identification |
| Comments: | 1 See the Data Dictionary for a complete list of IDs. |
| | 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. |
| | For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU. |

| Μ | Ref. <u>Des.</u> LIN02 | Data <u>Element</u> 235 | <u>Name</u> Product/Service ID Qualifier | | <u>ibutes</u> ID 2/2 |
|---|------------------------------|-------------------------------|---|--------|-------------------------|
| | | | Code identifying the type/source of the descriptive number u Product/Service ID (234) VO Vendor's Order Number | sed in | |
| Μ | LIN03 | 234 | Product/Service ID | Μ | AN 1/48 |
| | | | Identifying number for a product or service | | |
| | LIN04 | 235 | Product/Service ID Qualifier | Х | ID 2/2 |
| | | | Code identifying the type/source of the descriptive number up Product/Service ID (234) VN Vendor's (Seller's) Item Number | sed in | |
| | LIN05 | 234 | Product/Service ID | Х | AN 1/48 |
| | | | Identifying number for a product or service | | |
| | LIN06 | 235 | Product/Service ID Qualifier | Х | ID 2/2 |
| | | | Code identifying the type/source of the descriptive number up Product/Service ID (234) HN Heat Number | sed in | |
| | LIN07 | 234 | Product/Service ID | Х | AN 1/48 |
| | | | Identifying number for a product or service | | |
| | LIN08 | 235 | Product/Service ID Qualifier | Х | ID 2/2 |
| | | | Code identifying the type/source of the descriptive number u Product/Service ID (234) SN Serial Number | sed in | |
| | LIN09 | 234 | Product/Service ID | Х | AN 1/48 |
| | | | Identifying number for a product or service | | |

| Segment: | MEA Measurements | | | |
|------------------|--|--|--|--|
| Position: | 030 | | | |
| Loop: | LIN Optional | | | |
| Level: | Detail | | | |
| Usage: | Optional | | | |
| Max Use: | 20 | | | |
| Purpose: | To specify physical measurements or counts, including dimensions, tolerances, variances, | | | |
| | and weights (See Figures Appendix for example of use of C001) | | | |
| Syntax Notes: | 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. | | | |
| | 2 If MEA05 is present, then MEA04 is required. | | | |
| | 3 If MEA06 is present, then MEA04 is required. | | | |
| | 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. | | | |
| | 5 Only one of MEA08 or MEA03 may be present. | | | |
| Semantic Notes: | 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. | | | |
| Comments: | 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or | | | |
| | any measurement where a positive (+) value cannot be assumed, use MEA05 as the | | | |
| | negative (-) value and MEA06 as the positive (+) value. | | | |

| | | Dat | a Element Summary | | |
|--------|---------|----------------------------|--|---------------------------|------------------------|
| Ref. | Data | | | | |
| Des. | Element | <u>Name</u> | | <u>A1</u> | <u>ttributes</u> |
| MEA01 | 737 | Measureme | ent Reference ID Code | 0 | D ID 2/2 |
| | | Code identif | fying the broad category to w | hich a measurement app | olies |
| | | PD | Physical Dimensior | 18 | |
| MEA02 | 738 | Measureme | ent Qualifier | 0 | ID 1/3 |
| | | Code identif measuremen | fying a specific product or pr nt applies | ocess characteristic to w | hich a |
| | | NU | Number per Unit | | |
| | | TH | Thickness | | |
| | | WD | Width | | |
| | | WT | Weight | | |
| MEA03 | 739 | Measureme | ent Value | Х | R 1/20 |
| | | The value of | f the measurement | | |
| MEA04 | C001 | Composite | Unit of Measure | Х | • |
| | | To identify a of use) | a composite unit of measure | (See Figures Appendix | for examples |
| C00101 | 355 | Unit or Bas | is for Measurement Code | Μ | I ID 2/2 |
| | | | ying the units in which a valu asurement has been taken Coil Kilogram | ie is being expressed, or | [•] manner in |
| | | MM | Millimeter | | |
| | | | | | |

М

| Segment: | CID Characteristic/Class ID | | | | |
|------------------|---|--|--|--|--|
| Position: | 060 | | | | |
| Loop: | CID Optional | | | | |
| Level: | Detail | | | | |
| Usage: | Optional | | | | |
| Max Use: | 1 | | | | |
| Purpose: | To specify the general class or specific characteristic upon which test results are being | | | | |
| | reported or are to be taken | | | | |
| Syntax Notes: | 1 At least one of CID01 CID02 CID04 or CID05 is required. | | | | |
| | 2 If either CID03 or CID04 is present, then the other is required. | | | | |
| | 3 If CID06 is present, then both CID03 and CID04 are required. | | | | |
| | 4 If CID07 is present, then at least one of CID04 or CID05 is required. | | | | |
| Semantic Notes: | | | | | |
| Comments: | 1 CID06 specifies the individual code list of the agency specified in CID03. | | | | |
| | 2 CID07 refers to whether or not the characteristic identified in CID04 or CID05 or | | | | |
| | both is affected by the product change. If it is affected, the value is "Y". A value of | | | | |
| | "N" is used when it is known that it will not be affected. Any other value indicates it | | | | |
| | is in determined. | | | | |

is indeterminate.

| | | Duta Element Summary | | |
|-------|----------------|---|-------------|---------|
| Ref. | Data | | | |
| Des. | <u>Element</u> | <u>Name</u> | <u>Attı</u> | ributes |
| CID02 | 750 | Product/Process Characteristic Code | Х | ID 2/3 |
| | | Code identifying the general class of a product or process cl | naracte | ristic |
| | | 71 Mechanical | | |

| Segment: | PSD Physical Sample Description |
|------------------|---|
| Position: | 090 |
| Loop: | CID Optional |
| Level: | Detail |
| Usage: | Optional |
| Max Use: | >1 |
| Purpose: | To define the physical sample parameters associated with a test resulting in discrete |
| | measurements |
| Syntax Notes: | 1 If either PSD03 or PSD04 is present, then the other is required. |
| | 2 Only one of PSD03 or PSD09 may be present. |
| Semantic Notes: | |
| Comments: | 1 PSD08 can provide a more complete description of the physical sampling location. |

| | | Data Elem | ent Summary | | |
|-------|---------|--|---|--------|----------|
| Ref. | Data | | | | |
| Des. | Element | Name | | Attı | ributes_ |
| PSD01 | 939 | Sample Process Sta | atus Code | 0 | ID 2/2 |
| | | Code specifying the specimen was select 02 | e stage in the product development cycle a ted for testing Finished product specimen | ıt whi | ch the |
| PSD06 | 944 | Sample Direction | Code | 0 | ID 2/2 |
| | | Code specifying the | e direction in which the sample was collect | ted o | r tested |
| | | 01 | Longitudinal | | |
| | | 02 | Transverse | | |
| PSD07 | 945 | Position Code | | 0 | ID 2/2 |
| | | 1 . 0 | position of an item such as the location, ple was taken; the position of a coupon w Front | | |

| Segment: | TMD Test Method |
|------------------|---|
| Position: | 201 |
| Loop: | TMD Optional |
| Level: | Detail |
| Usage: | Optional |
| Max Use: | 1 |
| Purpose: | To describe the nature of the test performed |
| Syntax Notes: | 1 If either TMD02 or TMD03 is present, then the other is required. |
| | 2 If TMD09 is present, then TMD02 is required. |
| Semantic Notes: | 1 TMD07 is the date of the test method as assigned by the issuing organization. |
| | 2 TMD08 is the document revision number. |
| Comments: | 1 TMD09 specifies the individual code list of the agency specified in TMD02. |

| | | Data Element Summary | | |
|-------|----------------|---|--------|----------------|
| Ref. | Data | | | |
| Des. | <u>Element</u> | Name | Att | <u>ributes</u> |
| TMD02 | 559 | Agency Qualifier Code | Х | ID 2/2 |
| | | Code identifying the agency assigning the code values | | |
| | | ST American Iron & Steel Institute | | |
| TMD03 | 751 | Product Description Code | Х | AN 1/12 |
| | | A code from an industry code list which provides specific dat characteristic | ta abo | out a product |
| TMD09 | 822 | Source Subqualifier | 0 | AN 1/15 |
| | | A reference that indicates the table or text maintained by the | Sourc | ce Qualifier |

| Segment: | MEA Measurements | | | |
|-----------------|--|--|--|--|
| Position: | 202 | | | |
| Loop: | TMD Optional | | | |
| Level: | Detail | | | |
| Usage: | Optional | | | |
| Max Use: | >1 | | | |
| Purpose: | To specify physical measurements or counts, including dimensions, tolerances, variances, | | | |
| | and weights (See Figures Appendix for example of use of C001) | | | |
| Syntax Notes: | 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. | | | |
| | 2 If MEA05 is present, then MEA04 is required. | | | |
| | 3 If MEA06 is present, then MEA04 is required. | | | |
| | 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. | | | |
| | 5 Only one of MEA08 or MEA03 may be present. | | | |
| Semantic Notes: | 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. | | | |
| Comments: | 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value. | | | |

| | | Data | a Element Summary | | |
|--------|---------|------------------------------------|---|----------|--------------|
| Ref. | Data | | | | |
| Des. | Element | <u>Name</u> | | Attr | ributes |
| MEA01 | 737 | Measureme | nt Reference ID Code | 0 | ID 2/2 |
| | | Code identif | ying the broad category to which a measurement | ıt appli | ies |
| | | TR | Test Results | | |
| | | | Indicates that the data to follow are the measurements | e result | s test |
| MEA02 | 738 | Measureme | nt Qualifier | 0 | ID 1/3 |
| | | Code identify measuremen CTG | ying a specific product or process characteristic t applies Coating | to wh | ich a |
| | | 010 | - | 1 | |
| | | | Product applied to the top of a substrat | e or ba | ise |
| | | EA | Elongation | | |
| | | NV | N Value | | |
| | | | The work hardening rate capability of predicts the ability to deform in stretch bending | | |
| | | TF | Tensile | | |
| | | YB | Yield | | |
| MEA03 | 739 | Measureme | nt Value | Х | R 1/20 |
| | | The value of | the measurement | | |
| MEA04 | C001 | Composite V | Unit of Measure | Х | |
| | | To identify a of use) | composite unit of measure (See Figures App | endix f | for examples |
| C00101 | 355 | Unit or Basi | is for Measurement Code | Μ | ID 2/2 |
| | | which a mea | ving the units in which a value is being expresse surement has been taken | ed, or r | nanner in |
| | | 69 CN 4 | Test Specific Scale | | |
| | | GM | Grams per Sq. Meter | | |
| | | M8 | Mega Pascals | | |
| | | P1 | Percent | | |
| MEA09 | 752 | Surface/Lay | ver/Position Code | 0 | ID 2/2 |
| | | Code indicat | ing the product surface, layer or position that is | being | described |
| | | BT | Bottom | | |
| | | TP | Тор | | |
| | | | | | |

М

Segment: CTT Transaction Totals

| Segment: | CII Transaction Totals |
|-----------------|--|
| Position: | 005 |
| Loop: | |
| Level: | Summary |
| Usage: | Optional |
| Max Use: | 1 |
| Purpose: | To transmit a hash total for a specific element in the transaction set |
| Syntax Notes: | 1 If either CTT03 or CTT04 is present, then the other is required. |
| | 2 If either CTT05 or CTT06 is present, then the other is required. |
| Semantic Notes: | |
| Comments: | 1 This segment is intended to provide hash totals to validate transaction completeness and correctness. |

| | | | Data Element Summary | | |
|---|-------|----------------|---|------|---------|
| | Ref. | Data | | | |
| | Des. | <u>Element</u> | Name | Attr | ributes |
| Μ | CTT01 | 354 | Number of Line Items | Μ | N0 1/6 |
| | | | Total number of line items in the transaction set | | |

| Segment: | SE Transaction Set Trailer | | | | |
|------------------|--|--|--|--|--|
| Position: | 010 | | | | |
| Loop: | | | | | |
| Level: | Summary | | | | |
| Usage: | Mandatory | | | | |
| Max Use: | 1 | | | | |
| Purpose: | To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments) | | | | |
| Syntax Notes: | | | | | |
| Semantic Notes: | | | | | |
| Comments: | 1 SE is the last segment of each transaction set. | | | | |

| | Ref. | Data | | | | |
|---|------|----------------|---|-------------------|----------|--|
| | Des. | <u>Element</u> | Name | <u>Attributes</u> | | |
| Μ | SE01 | 96 | Number of Included Segments | Μ | N0 1/10 | |
| | | | Total number of segments included in a transaction set inclusion segments | ding S | T and SE | |
| Μ | SE02 | 329 | Transaction Set Control Number | Μ | AN 4/9 | |
| | | | entifying control number that must be unique within the transaction set actional group assigned by the originator for a transaction set | | | |