

# **Technical Operating Profile**

For

## **Electronic Data Interchange in New York**

**Supplement 7c – 810 ESCO Summary Invoice  
(Single Retailer)**

**Version 1.1  
October 23, 2014**

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	<b>Summary of Changes</b>
<b>February 21, 2003</b>	<b>Initial Release</b>
<b>October 23, 2014</b>	<p><b>Version 1.1 Issued</b></p> <p>Replaced references to Marketer and E/M with ESCO.</p> <p>Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary.</p>

## I. PURPOSE

This document, which will be referred to as Technical Operating Profile (TOP) Supplement 7c, provides the guidelines and specifications for testing of the 810 ESCO Summary Invoice transaction used in the Single Retailer model. The document describes the requirements for Phase I, II and III testing for Electronic Data Interchange (EDI) in New York's retail energy marketplace. The test specifications were developed in accordance with the ongoing work of the New York EDI Collaborative (the Collaborative), which is primarily responsible for developing the data standards for EDI in New York as directed by the New York Public Service Commission (PSC or Commission)<sup>1</sup>.

This document must be used in conjunction with the orders issued to-date by the State of New York Public Service Commission in Case 98-M-0667 (In the Matter of Electronic Data Interchange)<sup>2</sup> including:

- A) Opinion No. 01-03, Opinion and Order Approving EDI Data Standards and Data Protocols and Modifying the New York Uniform Business Practices for EDI Implementation, issued and effective July 23, 2001. Supplement E of this opinion, The Technical Operating Profile (TOP), contains general and Phase I testing information.
- B) Order Approving EDI Test Plans and Data Standards, issued and effective November 8, 2001. Supplement A of this order, The Top Supplement 1, contains Phase II and Phase III testing information and procedures.
- C) Order Approving Electronic Data Interchange Transactions for Single Retailer invoices, issued and effective, August 26, 2002.

## II. TESTING ASSUMPTIONS

**810 Single Retailer ESCO Summary Invoice Testing Options:** In New York, ESCOs (ESCOs) deemed eligible by the New York Public Service Commission, and also in compliance with Utility-specific retail access requirements, may offer the Single Retailer model in selected utility service territories<sup>3</sup>. Under the Single Retailer model, the ESCO is responsible for all retail services to their customers including billing and payment processing. With respect to billing, the Utility invoices the ESCO for delivery and other charges applicable to the ESCO's End Use Retail Customers (EURC), and for amounts due from the ESCO unrelated to specific EURC accounts (such as transmission fees and fees associated with balancing or storage). ESCOs bill their customers using the data provided by the Utility in the 810 invoice transactions and based on the terms agreed upon with the customers.

The 810 ESCO Summary Invoice contains both charges that are unrelated to an EURC account (business-to-business charges assessed by the Utility and payable by the ESCO) as well as a summarization of the individual EURC charges. This Summary Invoice also contains the total balance due from the ESCO and the date payment is expected. This is the invoice that should be used as the basis for payment. The Utility assigned account number for the ESCO sent in an ESCO Summary Invoice must be included in any documentation accompanying the ESCO's payment(s) to the Utility. For Single Retailer ESCO Summary Invoice Billing, Single Retailer EURC Cycle Invoices and/or EURC Calendar Month Estimate Invoices precede the Summary Invoice. Also, the content and structure of the 810 Invoice transaction may vary by commodity type, Utility, metering options, etc.

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<sup>1</sup> New York Public Service Commission Electronic Data Interchange proceeding, Case 98-M-0667.

<sup>2</sup> The specifications were reviewed and updated by the Case 12-M-0476 EDI Working Groups.

<sup>3</sup> Utilities that offer the Single Retailer model will identify such in their Utility Maintained EDI Guides.

Accordingly, each test scenario may not be applicable to every market participant. For each test candidate, Staff will determine which of the Phase I test scenarios are applicable. The Phase II or III test scenarios applicable to a specific Utility and a specific ESCO will be determined by the commodity type and the processing procedures in that Utility's service territory. These scenarios are to be mutually agreed upon by the test partners prior to the initiation of Phase II or III testing.

**End-to-End Testing:** End-to-end testing is an integrated approach to testing that ensures all required transactions are tested between trading partners in a logical manner. The end-to-end test cycle includes the EDI transactions expected to occur in the normal production process preceding initiation of the 810 ESCO Summary Invoice transaction. During the transition to EDI in New York, as each EDI data standard is approved, a corresponding test plan has been developed and adopted by the Commission. Due to this fact, EDI testing has been an iterative process, and some market participants will have already completed various phases of EDI testing for transactions that would normally precede transmission of an 810 ESCO Summary Invoice transaction. For these participants, end-to-end testing at this juncture may be redundant and costly, and as a result is not required<sup>4</sup>. For those market participants, however, who have not yet begun the transition to EDI, an end-to-end testing approach ensures thorough testing. In the post-EDI transition period, therefore, Utilities will be expected to test new ESCOs using an end-to-end approach, with execution details left to the utility<sup>5</sup>.

**Simulated Processing Dates and Times:** When moving from one frame to the next in a scenario, test participants may be required to advance their test system dates or times. It is recommended that trading partners coordinate the synchronization of their system dates and times as they advance to the next frame in each scenario.

**Simulated ESCO Summary Invoice and Payment:** Each test scenario begins with the simulation or an assumption of the existence of a prior summary invoice and payment(s). These simulated activities are required to correctly populate all the BAL and PAM segments in the ESCO Summary Invoice transactions for each of the test scenarios.

**Test Plan Worksheets:** Each Test Scenario Worksheet includes a complete set of end-to-end test scripts and includes all frames required for end-to-end testing of each Single Retailer ESCO Summary Invoice Scenario. Each frame identifies the initiating party for each transaction. In addition, the script ID's include "EM" or "UTIL" to further identify the transaction sender.

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<sup>4</sup> Test participants may, however, elect to integrate testing of newly approved test scenarios into current test plans to better streamline and eliminate duplication of testing efforts.

<sup>5</sup> Details including the coordination and scheduling of ESCO test batches and the timing and execution of test frames and scenarios are left to the discretion of the Utility.

### III. PHASE I TEST SCENARIOS

TEST ID	UNIT	TEST NAME
<i>810 ESCO Summary Invoice Tests (to be completed by the Utility)</i>		
SRSMI-UTIL01	810	Single Retailer ESCO Summary Invoice – Single meter, multiple charges
SRSMI-UTIL02	810	Single Retailer ESCO Summary Invoice – Two EURC cycle billing invoice amounts
SRSMI-UTIL03	810	Single Retailer ESCO Summary Invoice – Two EURC calendar month estimate invoice amounts
SRSMI-UTIL04	810	Single Retailer ESCO Summary Invoice – Single meter charges, B2B charges

**IV. LIST OF PHASE II & III TEST SCENARIOS**

<b>Single Retailer ESCO Summary Invoice – Test Scenarios</b>
<b>SRSI001:</b> Single Retailer ESCO Summary Invoice – Two EURC Cycle Billing Invoice amounts
<b>SRSI002:</b> Single Retailer ESCO Summary Invoice – Two EURC Calendar Month Estimate Invoice amounts
<b>SRSI003:</b> Single Retailer ESCO Summary Invoice – Combination of EURC Cycle Billing Invoice amount and Business to Business (B2B) charge amount
<b>SRSI004:</b> Single Retailer ESCO Summary Invoice – Combination of EURC Calendar Month Estimate Invoice amount and Business to Business (B2B) charge amount
<b>SRSI005:</b> Single Retailer ESCO Summary Invoice – EURC Cycle Billing Invoice amount and a line item adjustment to reverse a previously billed charge
<b>SRSI006:</b> Single Retailer ESCO Summary Invoice – EURC Calendar Month Estimate Invoice amount and a line item adjustment to reverse a previously billed charge
<b>SRSI007:</b> Single Retailer ESCO Summary Invoice – Invalid invoice requiring 824 Application Advice Reject Response – EURC Cycle Billing Option
<b>SRSI008:</b> Single Retailer ESCO Summary Invoice – Invalid invoice requiring 824 Application Advice Reject Response – EURC Calendar Month Estimate Billing Option

<b>Phase II/III Scenario Scripts</b>				
<b>Scenario ID:</b>	<b>Script ID</b>	<b>Frame #</b>	<b>Transaction Set</b>	<b>Description</b>
SRSI001	E-EM01REQ-A	F1	814 Enrollment–Acct A	Single Retailer ESCO Summary Invoice – Two EURC Cycle Billing Invoice amounts
	E-UTIL01RES-A	F2	814 Enrollment–Acct A	
	E-EM01REQ-B	F3	814 Enrollment–Acct B	
	E-UTIL01RES-B	F4	814 Enrollment–Acct B	
	U-UTIL01MU-A	F5	867 MU -A	
	U-UTIL01MU-B	F6	867 MU -B	
	IN-SRCIUTIL01-A	F7	810 Cycle Invoice- Acct. A	
	IN-SRCIUTIL01-B	F8	810 Cycle Invoice- Acct. B	
	IN-SRSIUTIL01	F9	810 Summary Invoice	
SRSI002	E-EM02REQ-A	F1	814 Enrollment–Acct A	Single Retailer ESCO Summary Invoice – Two EURC Calendar Month Estimate Invoice amounts
	E-UTIL02RES-A	F2	814 Enrollment–Acct A	
	E-EM02REQ-B	F3	814 Enrollment–Acct B	
	E-UTIL02RES-B	F4	814 Enrollment–Acct B	
	IN-SRCMEIUTIL02-A	F5	810 Estimate Inv.-Acct. A	
	IN-SRCMEIUTIL02-B	F6	810 Estimate Inv.-Acct. B	
	IN-SRSIUTIL02	F7	810 Summary Invoice	
SRSI003	E-EM03REQ	F1	814 Enrollment	Single Retailer ESCO Summary Invoice – Combination of EURC Cycle Billing Invoice amount and Business to Business (B2B) charge amount
	E-UTIL03RES	F2	814 Enrollment	
	U-UTIL03MU	F3	867 MU	
	IN-SRCIUTIL03	F4	810 Cycle Invoice	
	IN-SRSIUTIL03	F5	810 Summary Invoice	
SRSI004	E-EM04REQ	F1	814 Enrollment	Single Retailer ESCO Summary Invoice – Combination of EURC Calendar Month Estimate Invoice amount and Business to Business (B2B) charge amount
	E-UTIL04RES	F2	814 Enrollment	
	IN-SRCMEIUTIL04	F3	810 Estimate Invoice	
	IN-SRSIUTIL04	F4	810 Summary Invoice	
SRSI005	E-EM05REQ	F1	814 Enrollment	Single Retailer ESCO Summary Invoice –EURC Cycle Billing Invoice amount and line item adjustment(s) to reverse a previously billed B2B charge
	E-UTIL05RES	F2	814 Enrollment	
	U-UTIL05MU	F3	867 MU	
	IN-SRCIUTIL05	F4	810 Cycle Invoice	
	IN-SRSIUTIL05	F5	810 Summary Invoice	
SRSI006	E-EM06REQ	F1	814 Enrollment	Single Retailer ESCO Summary

	E-UTIL06RES IN-SRCMEIUTIL06 IN-SRSIUTIL06	F2 F3 F4	814 Enrollment 810 Estimate Invoice 810 Summary Invoice	Invoice –EURC Calendar Month Estimate Invoice amount and line item adjustment(s) to reverse a previously billed B2B charge
SRSI007	E-EM07REQ-A E-UTIL07RES-A E-EM07REQ-B E-UTIL07RES-B U-UTIL07MU-A U-UTIL07MU-B IN-SRCIUTIL07-A IN-SRCIUTIL07-B IN-SRSIUTIL07 IN-EM08AA	F1 F2 F3 F4 F5 F6 F7 F8 F9 F10	814 Enrollment–Acct A 814 Enrollment–Acct A 814 Enrollment-Acct B 814 Enrollment-Acct B 867 MU –A 867 MU -B 810 Cycle Invoice- Acct. A 810 Cycle Invoice- Acct. B 810 Summary Invoice 824 Application Advice	Single Retailer ESCO Summary Invoice – Invalid invoice requiring 824 Application Advice Reject Response – EURC Cycle Billing Option
SRSI008	E-EM08REQ-A E-UTIL08RES-A E-EM08REQ-B E-UTIL08RES-B IN-SRCMEIUTIL08-A IN-SRCMEIUTIL08-B IN-SRSIUTIL08 IN-EM09AA	F1 F2 F3 F4 F5 F6 F7 F8	814 Enrollment–Acct A 814 Enrollment–Acct A 814 Enrollment-Acct B 814 Enrollment-Acct B 810 Estimate Inv. -Acct. A 810 Estimate Inv.-Acct. B 810 Summary Invoice 824 Application Advice	Single Retailer ESCO Summary Invoice – Invalid invoice requiring 824 Application Advice Reject Response – EURC Calendar Month Estimate Billing Option

## IV. PHASE II & III TEST SCENARIO WORKSHEETS

**Scenario ID: SRSI001 – Single Retailer ESCO Summary Invoice – Two EURC Cycle Billing Invoice Amounts**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO.
- Data from two accounts will be used for the Summary Invoice.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 9. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 9.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM01REQ-A

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account “A”

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL01RES-A

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account “A”

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F3      **Responsible Party:** ESCO

**Script ID:** E-EM01REQ-B

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account "B"

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F4      **Responsible Party:** Utility

**Script ID:** E-UTIL01RES-B

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account "B"

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F5      **Responsible Party:** Utility

**Script ID:** U-UTIL01MU-A

**Transaction:** 867 Monthly Usage

**Description:** Utility creates and sends 867 Monthly Usage transaction for Account "A"

**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F6      **Responsible Party:** Utility

**Script ID:** U-UTIL01MU-B

**Transaction:** 867 Monthly Usage

**Description:** Utility creates and sends 867 Monthly Usage transaction for Account "B"

**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F7      **Responsible Party:** Utility

**Script ID:** IN-SRCIUTIL01-A

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO for Account "A"

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F8      **Responsible Party:** Utility

**Script ID:** IN- SRCIUTIL01-B

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO for Account "B"

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**



**Scenario ID: SRSI002 – Single Retailer ESCO Summary Invoice – Two EURC Calendar Month Estimate Invoice Amounts**
**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**
**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO.
- Data from two accounts will be used for the Summary Invoice.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 7. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 7**
**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM02REQ-A

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account "A"

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**
**Date Completed:**
**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL02RES-A

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account "A"

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**
**Date Completed:**
**Frame:** F3      **Responsible Party:** ESCO

**Script ID:** E-EM02REQ-B

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account "B"

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F4      **Responsible Party:** Utility

**Script ID:** E-UTIL02RES-B

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account "B"

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F5      **Responsible Party:** Utility

**Script ID:** IN-SRCMEIUTIL02-A

**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO for Account "A"

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F6     **Responsible Party:** Utility

**Script ID:** IN- SRCMEIUTIL02-B

**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO for Account "B"

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F7     **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL02

**Transaction:** 810 Single Retailer ESCO Summary Invoice

**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Actual Overall Results:**

**Scenario ID: SRSI003 – Single Retailer ESCO Summary Invoice – Combination of EURC Cycle Billing Invoice amount and Business-to-Business (B2B) charge amount.**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO
- The Summary Invoice will include data from a Cycle Billing Invoice and a B2B charge
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 5. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 5.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM03REQ

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL03RES

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F3      **Responsible Party:** Utility

**Script ID:** U-UTIL03MU

**Transaction:** 867 Monthly Usage

**Description:** Utility creates and sends 867 Monthly Usage transaction

**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F4     **Responsible Party:** Utility

**Script ID:** IN-SRCIUTIL03

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F5     **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL03

**Transaction:** 810 Single Retailer ESCO Summary Invoice with data from a EURC Cycle Billing Invoice and a B2B charge amount

**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Actual Overall Results:**

**Scenario ID: SRSI004 – Single Retailer ESCO Summary Invoice – Combination of EURC Calendar Month Estimate Invoice amount and Business-to-Business (B2B) charge amount**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO

- The Summary Invoice will include data from a Calendar Month Estimate Billing Invoice and a B2B charge
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 4. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 4.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM04REQ

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL04RES

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F3      **Responsible Party:** Utility

**Script ID:** IN-SRCMEIUTIL04

**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:****Frame:** F4     **Responsible Party:** Utility**Script ID:** IN-SRSIUTIL04**Transaction:** 810 Single Retailer ESCO Summary Invoice**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice to ESCO with data from a Calendar Month Estimate Invoice and a B2B charge amount**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Actual Overall Results:**

**Scenario ID: SRSI005 – Single Retailer ESCO Summary Invoice – EURC Cycle Billing Invoice amount and a line item adjustment to reverse a previously billed B2B charge**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO
- The line item adjustment in the Summary Invoice will be for a previously billed B2B charge.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 5. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 5.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM05REQ

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL05RES

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F3      **Responsible Party:** Utility

**Script ID:** U-UTIL05MU

**Transaction:** 867 Monthly Usage

**Description:** Utility creates and sends 867 Monthly Usage transaction

**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F4      **Responsible Party:** Utility

**Script ID:** IN-SRCIUTIL05

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F5      **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL05

**Transaction:** 810 Single Retailer ESCO Summary Invoice

**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice to ESCO with a line item adjustment to reverse a previously billed B2B charge

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Actual Overall Results:**

**Scenario ID: SRSI006 – Single Retailer ESCO Summary Invoice – EURC Calendar Month Estimate Invoice amount and a line item adjustment to reverse a previously billed B2B charge**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Billing Invoice to the ESCO
- The line item adjustment in the Summary Invoice will be for a previously billed B2B charge.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 4. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 4.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM06REQ

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL06RES

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F3      **Responsible Party:** Utility

**Script ID:** IN-SRCMEIUTIL06

**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F4     **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL06

**Transaction:** 810 Single Retailer ESCO Summary Invoice

**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice to ESCO with a line item adjustment to reverse a previously billed B2B charge

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Actual Overall Results:**

**Scenario ID: SRSI007 - Single Retailer ESCO Summary Invoice – Invalid invoice requiring 824 Application Advice Reject Response – EURC Cycle Billing Option**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility with an 824 Reject Response initiated by the ESCO**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Invoice containing a line item charge with an incorrect account number to the ESCO.
- Additional and/or other reject reasons may be tested upon mutual agreement of the trading partners.
- ESCO will reject the 810 ESCO Single Retailer ESCO Summary Invoice with an 824 Application Advice transaction. Reject response will indicate “Invalid Account Number, or other mutually agreed upon reject reason.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 9. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 9.**

**Frame:** F1      **Responsible Party:** ESCO

**Script ID:** E-EM07REQ-A

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account “A”

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2      **Responsible Party:** Utility

**Script ID:** E-UTIL07RES-A

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account “A”

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:****Frame:** F3      **Responsible Party:** ESCO**Script ID:** E-EM07REQ-B**Transaction:** 814 Enrollment Request**Description:** ESCO submits an 814 Enrollment Request to Utility for Account "B"**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F4      **Responsible Party:** Utility**Script ID:** E-UTIL07RES-B**Transaction:** 814 Enrollment Response**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account "B"**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F5      **Responsible Party:** Utility**Script ID:** U-UTIL07MU-A**Transaction:** 867 Monthly Usage**Description:** Utility creates and sends 867 Monthly Usage transaction for Account "A"**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F6      **Responsible Party:** Utility**Script ID:** U-UTIL07MU-B**Transaction:** 867 Monthly Usage

**Description:** Utility creates and sends 867 Monthly Usage transaction for Account “B”

**Expected Results:**

- The utility successfully transmits the 867 Monthly Usage transaction to the ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F7      **Responsible Party:** Utility

**Script ID:** IN-SRCIUTIL07-A

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO for Account “A”

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F8      **Responsible Party:** Utility

**Script ID:** IN- SRCIUTIL07-B

**Transaction:** 810 Single Retailer EURC Cycle Invoice

**Description:** Utility creates and transmits 810 Single Retailer EURC Cycle Invoice to ESCO for Account “B”

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Cycle Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F9     **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL07

**Transaction:** 810 Single Retailer ESCO Summary Invoice

**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice with a line item charge with an incorrect account number to the ESCO

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F10     **Responsible Party:** ESCO

**Script ID:** IN-EM07AA

**Transaction:** Application Advice

**Description:** ESCO creates and transmits 824 Application Advice (Reject) to the Utility

**Expected Results:**

- The ESCO successfully transmits the 824 Application Advice to the Utility
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Actual Overall Results:**

**Scenario ID: SRSI008 – Single Retailer ESCO Summary Invoice - Invalid invoice requiring 824 Application Advice Reject Response – EURC Calendar Month Estimate Billing Option**

**Test an 810 Single Retailer ESCO Summary Invoice initiated by the Utility with an 824 Reject Response initiated by the ESCO**

**Test Objectives/Notes:**

- Utility will generate and successfully transmit an 810 Single Retailer ESCO Summary Invoice containing a line item charge with an invalid utility account number for the Marketer to the ESCO.
- Additional and/or other reject reasons may be tested upon mutual agreement of the trading partners.
- ESCO will reject the 810 ESCO Single Retailer ESCO Summary Invoice with an 824 Application Advice transaction. Reject response will indicate “Invalid Utility Account Number for the Marketer”, or other mutually agreed upon reject reason.
- It is assumed an ESCO Summary Invoice and a Payment exist at the beginning of the end-to-end test cycle to establish the required balance and payment information for the BAL and PAM segments in the 810 ESCO Summary Invoice in Frame 7. The amounts will be manually calculated.

**Commodity:** \_\_\_\_\_ (Electric / Gas)

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**Account #:** \_\_\_\_\_

**To emulate production, a simulated ESCO Summary Invoice and a simulated Payment may be established at this point for population of the BAL and PAM segments in the Summary Invoice in Frame 7.**

**Frame:** F1     **Responsible Party:** ESCO

**Script ID:** E-EM08REQ-A

**Transaction:** 814 Enrollment Request

**Description:** ESCO submits an 814 Enrollment Request to Utility for Account “A”

**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:**

**Date Completed:**

**Frame:** F2     **Responsible Party:** Utility

**Script ID:** E-UTIL08RES-A

**Transaction:** 814 Enrollment Response

**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account “A”

**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F3      **Responsible Party:** ESCO**Script ID:** E-EM08REQ-B**Transaction:** 814 Enrollment Request**Description:** ESCO submits an 814 Enrollment Request to Utility for Account "B"**Expected Results:**

- The ESCO successfully transmits the 814 Enrollment Request to the Utility.
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F4      **Responsible Party:** Utility**Script ID:** E-UTIL08RES-B**Transaction:** 814 Enrollment Response**Description:** Utility creates and transmits 814 Enrollment Accept Response to the ESCO for Account "B"**Expected Results:**

- The Utility successfully transmits the 814 Enrollment Response to the ESCO.
- A 997 transaction is received from the incumbent ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F5      **Responsible Party:** Utility**Script ID:** IN-SRCMEIUTIL08-A**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO for Account "A"**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:****Frame:** F6      **Responsible Party:** Utility**Script ID:** IN- SRCMEIUTIL08-B

**Transaction:** 810 Single Retailer EURC Calendar Month Estimate Invoice  
**Description:** Utility creates and transmits 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO for Account "B"

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer EURC Calendar Month Estimate Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:**

**Frame:** F7     **Responsible Party:** Utility

**Script ID:** IN-SRSIUTIL08

**Transaction:** 810 Single Retailer ESCO Summary Invoice  
**Description:** Utility creates and transmits 810 Single Retailer ESCO Summary Invoice with a line item charge with an invalid utility account number for the Marketer to the ESCO.

**Expected Results:**

- The Utility successfully transmits the 810 Single Retailer ESCO Summary Invoice to ESCO.
- A 997 transaction is received from the ESCO to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Date Completed:**

**Frame:** F8     **Responsible Party:** ESCO

**Script ID:** IN-EM08AA

**Transaction:** Application Advice  
**Description:** ESCO creates and transmits 824 Application Advice (Reject) to the Utility

**Expected Results:**

- The ESCO successfully transmits the 824 Application Advice to the Utility
- A 997 transaction is received from the Utility to acknowledge receipt of the valid X12 transaction.

**Actual Results:****Actual Overall Results:**