Utility	Data Standard/Test Plan	Page No./Row Item Reference	Note
NFG	TS 810 Single Retailer Implementation Guide (v2.0)	i	At this time, National Fuel Gas Distribution Corporation is the only utility offering the Single Retailer Model.
NFG	TS 810 Single Retailer Implementation Guide (v2.0)	i	810 EURC Calendar Month Estimate - For NFG these invoices provide detail that the ESCO can use to reconcile their monthly summary invoices.
NFG	TS 810 Single Retailer Implementation Guide (v2.0)	i	ESCO Summary Invoice - NFG will send this invoice on a calendar month basis, along with the EURC Calendar Month Estimate Invoices.
NFG	TS 810 Single Retailer Implementation Guide (v2.0)	19	IT1 Baseline Item Data (Charge Level) - For example, National Fuel will send one IT1 Loop for each Gas Pool and one IT1 Loop for all Account level charges.
NFG	TS 810 Single Retailer Business Process (v2.0)	8 of 21	UTILITY PROCESSES IINVOICES USING THE SINGLE RETAILER MODEL (PARENT PROCESS) / COMMENTS/RECOMMENDATIONS - NFG will transmit an 810 ESCO Summary Invoice at the same time as 810 EURC Calendar Month Estimate Invoices are being transmitted. NFG will transmit an 867MU transaction for each 810 EURC Cycle Invoice or 810 Calendar Month Estimate Invoice that is transmitted.
NFG	TS 810 Single Retailer Business Process (v2.0)	10 of 21	UTILITY PROCESSES ORIGINAL 810 EURC CYCLE INVOICE/PROCESS RULES - NFG will include all applicable tax amounts pertaining to the EURC in both the Cycle and Calendar Month Estimate Invoices and will remit these amounts to the appropriate taxing authority.
NFG	TS 810 Single Retailer Business Process (v2.0)	12 of 21	UTILITY PROCESSES ORIGINAL 810 EURC CALENDAR MONTH ESTIMATE INVOICE/PROCESS DEFINITION - Currently this invoice is only sent by National Fuel and is based upon estimated usage for an end use retail customer for a calendar month period.
NFG	TS 810 Single Retailer Business Process (v2.0)	13 of 21	UTILITY PROCESSES ORIGINAL 810 EURC CALENDAR MONTH ESTIMATE INVOICE/PROCESS RULES - NFG will include any applicable taxes.
NFG	TS 810 Single Retailer Dta Dictionary (v2.0)	48	Tax Information - NFG will send all applicable tax amounts pertaining to the EURC in the Cycle and Calendar Month Estimate Invoices.
NFG	TS 810 Single Retailer Dta Dictionary (v2.0)	59	Reference Identification (Gas Pool ID) -This segment is optional in EURC Cycle and Calendar Month Estimate Invoices but will always be present in Cycle and CME Invoices transmitted by NFG.
NFG	Technical Operating Profile for EDI In New York, Supplement 7a - Single Retailer Test Plans (v1.0)	3 of 25	TESTING ASSUMPTIONS/810 Single Retailer EURC Cycle Invoice Testing Options - NFG uses the 810 Single Retailer EURC Cycle Invoice to provide detail to the E/M for EURC billing.

Utility	Data Standard/Test Plan	Page No./Row Item Reference	Note
NFG	Technical Operating Profile for EDI In New York, Supplement 7b - Single Retailer Test Plans (v1.0)	3 of 12	TESTING ASSUMPTIONS/810 Single Retailer EURC Calendar Invoice Testing Options - For NFG these invoices provide detail that the E/Ms use to reconcile their monthly summary invoices.
NFG	Technical Operating Profile for EDI In New York, Supplement 7c - Single Retailer Test Plans (v1.0)	3-4 of 29	TESTING ASSUMPTIONS/810 Single Retailer EURC Summary Invoice Testing Options - NFG will send this invoice on a calendar month basis, along with the EURC Calendar Month Estimate Invoices.

New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

810 Invoice
Single Retailer Model

Ver/Rel 00401

	Notes pertaining to the use of this document
Purpose	• This 810 Single Retailer Invoice Transaction Set is used to transmit billing information to the ESCO/Marketer for charges due to the Utility. These standards are based on the ASC X12 Ver/Rel 004010 standard and related UIG guidelines.

Several types of 810 transactions used in Single Retailer Model	• ~~At this time, National Fuel Gas Distribution Corporation is the only utility offering the Single Retailer Model.~~
	
	• Up to three (3) different types of 810 billing transactions may be transmitted under the Single Retailer Model. The acronym 'EURC' refers to End Use Retail Customer:
	
	  ➤ 810 EURC Cycle Invoice will contain the individual charge information for end use retail customers based on cycle billings. This invoice is used to provide detail that the ESCO can use for EURC billing.
	  ➤ 810 EURC Calendar Month Estimate Invoice will contain individual charge information for end use retail customers based on a calendar month estimate. ~~For NFG these invoices provide detail that the ESCO can use to reconcile their monthly summary invoices.~~
	  ➤ ESCO Summary Invoice will contain charges (business-to-business charges assessed by the Utility and payable by the ESCO/Marketer) that are unrelated to specific EURC accounts, as well as a summarization of the individual EURC charges. This Invoice will also contain the total balance due from the ESCO/Marketer 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/Marketer (REF*AJ) sent in an ESCO Summary Invoice must be included in any documentation accompanying the ESCO/Marketer's payment(s) to the Utility. ~~NFG will send this invoice on a calendar month basis, along with the EURC Calendar Month Estimate Invoices.~~

Validation Fields	• EURC invoices may be validated using the customer's utility account number (with check digit, if included) sent in REF*12. The ESCO Summary Invoice does not contain any utility customer account numbers. The Utility account number for the ESCO/Marketer (with check digit, if included), sent in REF*AJ, should be used to validate ESCO Summary Invoice transactions.
One or multiple accounts per 810 Invoice	• Each EURC invoice transaction may contain only one account for one commodity (i.e. electric, gas, etc.). The ESCO Summary Invoice may contain bill information related to either or both commodities.

Segment:	**IT1** Baseline Item Data (Charge Level)
Position:	010
Loop:	IT1 Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:	1 If any of IT102 IT103 or IT104 is present, then all are required.
	2 If either IT106 or IT107 is present, then the other is required.
	3 If either IT108 or IT109 is present, then the other is required.
	4 If either IT110 or IT111 is present, then the other is required.
	5 If either IT112 or IT113 is present, then the other is required.
	6 If either IT114 or IT115 is present, then the other is required.
	7 If either IT116 or IT117 is present, then the other is required.
	8 If either IT118 or IT119 is present, then the other is required.
	9 If either IT120 or IT121 is present, then the other is required.
	10 If either IT122 or IT123 is present, then the other is required.
	11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:	1 IT101 is the purchase order line item identification.
Comments:	1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
	2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Required

The IT109 element in this segment is used to differentiate the "type" of loop that is present. Please read each type below to determine which type is applicable.

EURC Cycle Invoice -   Sent at the "ACCOUNT" and/or "RATE" level.

EURC Calendar Month Estimate -   Sent at the "ACCOUNT" level.

ESCO Summary Invoice - Sent at the "ACCOUNT" and/or "GASPOOL" level.

For example, National Fuel will send one IT1 Loop for each Gas Pool and one IT1 Loop for all Account level charges.

ACCOUNT: Charges/taxes are applicable to the entire account. There may be only one account loop in each Invoice transaction.

EURC Cycle Invoice: Required
EURC Calendar Month Estimate: Required
ESCO Summary Invoice: Required

RATE: Charges/taxes are applicable at a utility rate class level.   One IT1 Loop will be provided for each rate (the rate class will be identified in the REF~NH segment).

EURC Cycle Invoice: Not Used at this time
EURC Calendar Month Estimate: Not Used at this time
ESCO Summary Invoice: Not Used at this time

BILLING BUSINESS PROCESSES – SINGLE RETAILER MODEL

PROCESS NUMBER:	*SR0*
PROCESS NAME:	*UTILITY PROCESSES INVOICES USING THE SINGLE RETAILER MODEL (PARENT PROCESS)*
COMMENTS/ RECOMMENDATIONS:	COMMENT: ~~NFG will transmit an 810 ESCO Summary Invoice at the same time as 810 EURC Calendar Month Estimate Invoices are being transmitted. NFG will transmit an 867MU transaction for each 810 EURC Cycle Invoice or 810 Calendar Month Estimate Invoice that is transmitted.~~ Data in the BPT segment of the 867MU transaction will indicate whether the transaction contains actual usage for a cycle period or estimated usage for a calendar month period.

BILLING BUSINESS PROCESSES – SINGLE RETAILER MODEL

PROCESS NUMBER:	*SR 1.0*
PROCESS NAME:	*UTILITY PROCESSES ORIGINAL 810 EURC CYCLE INVOICE*
SUB OR PRECEDING PROCESSES:	• Customers meter is read, customer provides reading or utility estimates usage for cycle period • Usage data is validated and an 867MU transaction is transmitted to the E/M • Utility uses usage data to calculate end use customers delivery charges for the cycle • Utility transmits 810 EURC Cycle Invoice containing current charges to E/M • Utility aggregates amounts sent in the TDS segment of each 810 EURC Cycle Invoice (both Original and Cancel transactions) applicable to a specific E/M and transfers this amount to an 810 ESCO Summary Invoice OR • Utility aggregates amounts sent in the TDS segment of each 810 EURC Calendar Month Estimate Invoice to the ESCO Summary Invoice (see sub-process SR2.0) • Utility populates 810 ESCO Summary Invoice with any current business-to-business charges/adjustments, balance information and payment due date and transmits the transaction to the E/M
PROCESS RULES:	[CWG] The Utility may choose to include/exclude sales tax amounts in the charges sent in an 810 EURC Cycle Invoice. Where sales tax amounts are not included, the E/M is expected to calculate, bill and remit any sales taxes applicable to their end use customers' charges. ~~NFG will include all applicable tax amounts pertaining to the EURC in both the Cycle and Calendar Month Estimate Invoices and will remit these amounts to the appropriate taxing authority.~~ [CWG] The 810 EURC Cycle or Calendar Month Estimate Invoice will be sent within two business days of the date the Utility transmits the corresponding 867MU transaction. [CWG] An 810 EURC Cycle Invoice will not contain balance information or a payment due date.

BILLING BUSINESS PROCESSES – SINGLE RETAILER MODEL

PROCESS NUMBER:	**SR 2.0**
PROCESS NAME:	**UTILITY PROCESSES ORIGINAL 810 EURC CALENDAR MONTH ESTIMATE INVOICE**
PROCESS DEFINITION:	The process by which the Utility notifies the E/M of all current charges for their customers for each calendar month period. ~~Currently this invoice is only sent by National Fuel and is based upon estimated usage for an end use retail customer for a calendar month period.~~
TRIGGER(S):	Calculation of estimated usage at month end.
ESTIMATED / PEAK TRANSACTION RATE:	Dependent on the number of customers enrolled with the E/M.
PROCESS INPUTS:	Usage information (estimated for a calendar month period); Utility Information; E/M Information; Customer Information; Service Information; Bill Information.
PROCESS OUTPUTS:	Positive Response: Not Applicable Negative Response: An 810 EURC Calendar Month Estimate Invoice may be rejected via a 997 transaction for syntax errors or missing/invalid data segments/elements. An 810 EURC Calendar Month Estimate Invoice may also be rejected via an 824 Application Advice transaction when: ➢ EURC Calendar Month Estimate Invoice contains an invalid Utility Account Number for the end use customer (Account number not valid for E/M) ➢ EURC Calendar Month Estimate Invoice reflects charges associated with the wrong commodity (Account does not have service requested with E/M)

BILLING BUSINESS PROCESSES – SINGLE RETAILER MODEL

PROCESS NUMBER:	*SR 2.0*
PROCESS NAME:	*UTILITY PROCESSES ORIGINAL 810 EURC CALENDAR MONTH ESTIMATE INVOICE*
SUB OR PRECEDING PROCESSES:	• Usage is estimated for the current calendar month for each EURC enrolled with an E/M • Utility transmits an 867MU transaction containing estimated usage for the calendar period for EURC enrolled with the E/M • Utility uses estimated usage data to calculate EURC delivery and other charges for the calendar month • Utility transmits the 810 EURC Calendar Month Estimate Invoice containing current charges to E/M • Utility aggregates amounts sent in the TDS segment of each 810 EURC Calendar Month Estimate Invoice applicable to a specific E/M and transfers this amount to an 810 ESCO Summary Invoice • Utility populates 810 ESCO Summary Invoice with any current business-to-business charges/adjustments, balance information and payment due date and transmits the transaction to the E/M
PROCESS RULES:	[CWG] All EURC account specific charges will be sent in the 810 EURC Calendar Month Estimate Invoice ~~(and for NFG will include any applicable taxes)~~. [CWG] The 810 EURC Calendar Month Estimate Invoice will not contain balance information or a payment due date. [CWG] The total of amounts sent in the TDS segment of the EURC Calendar Month Estimate Invoice (both Original and Cancel transactions) will be sent in an SAC segment with a code of "DIS005" in the 810 ESCO Summary Invoice.
COMMENTS:	Each 810 EURC Calendar Month Estimate Invoice can be linked to its corresponding 810 ESCO Summary Invoice (see Sub-Process 5.0) via use of the same purchase order number (BIG04) in each transaction. All 810 EURC Calendar Month Estimate Invoices processed for a specific calendar month will contain the same purchase order number.

Row No	NY DD Field Name	Loop ID	Segment	Level	Position	Ref Desc	Name	Description	Code	Data Type	Usage Attributes	Comments
48	Tax Information	IT1 Loop	TXI	DTL	040	01	Tax Type Code	Code specifying the type of tax	GR=Gross Receipts, LS= State/Local Sales, PG = Gas Import Tax, SC= School Tax	ID 2/2	Conditional	The TXI segment is used to report tax amounts. ~~RG&E will not send sales tax amounts in an EURC Cycle Invoice but NFG will send all applicable tax amounts pertaining to the EURC in the Cycle and Calendar Month Estimate Invoices.~~ The ESCO Summary Invoice will contain taxes applicable to the E/Ms charges sent in that invoice. All tax amounts in a specific Invoice transaction may be sent in one TXI segment at the Account level or individual tax amounts could be associated charges sent at a GASPOOL or RATE level.
59	Reference Identification (Gas Pool ID)	None	REF	HDR	050	01	Reference Identification Qualifier	Code indicating that REF02 contains the gas pool id for the EURC identified in the N1*8R segment	VI	ID 2/3	Conditional	This segment is optional in EURC Cycle and Calendar Month Estimate Invoices ~~but will always be present in Cycle and CME Invoices transmitted by NFG~~. This segment is required in an ESCO Summary Invoice if charges are being summarized at the GASPOOL level.

Technical Operating Profile

For

Electronic Data Interchange in New York

Supplement 7a – 810 EURC Cycle Invoice
(Single Retailer)

Version 1.0
February 21, 2003

I. PURPOSE

This document, which will be referred to as Technical Operating Profile (TOP) Supplement 7a, provides the guidelines and specifications for testing of the 810 EURC Cycle 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)[1].

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) 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 EURC Cycle Invoice Testing Options: In New York, ESCO/Marketers (E/Ms) 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[2]. Under the Single Retailer model, the E/M is responsible for all retail services to their customers including billing and payment processing. With respect to billing, the Utility invoices the E/M for delivery and other charges applicable to the E/M's End Use Retail Customers (EURC), and for amounts due from the E/M unrelated to specific EURC accounts (such as transmission fees and fees associated with balancing or storage). E/Ms 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 Single Retailer EURC Cycle Invoice is used to transmit the individual charge information for end use retail customers based on cycle billings. ~~Both Rochester Gas & Electric Corporation (RG&E) and National Fuel Gas Corporation (NFG) use the 810 Single Retailer EURC Cycle Invoice to provide detail to the E/M for EURC billing.~~

The content and structure of the EURC Cycle Invoice transaction may vary by commodity type, utility, metering options, and accordingly, each test scenario may not be applicable to every market participant.

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[1] New York Public Service Commission Electronic Data Interchange proceeding, Case 98-M-0667.
[2] ~~Currently, Rochester Gas and Electric Corporation (RG&E) and National Fuel Gas Corporation (NFG) offer the Single Retailer model.~~

Technical Operating Profile

For

Electronic Data Interchange in New York

Supplement 7b – 810 EURC Calendar Month Estimate
(Single Retailer)

Version 1.0
February 21, 2003

I. PURPOSE

This document, which will be referred to as Technical Operating Profile (TOP) Supplement 7b, provides the guidelines and specifications for testing of the 810 EURC Calendar Month Estimate 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 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)[1].

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) 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 EURC Calendar Month Estimate Invoice Testing Options: In New York, ESCO/Marketers (E/Ms) 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[2]. Under the Single Retailer model, the E/M is responsible for all retail services to their customers including billing and payment processing. With respect to billing, the Utility invoices the E/M for delivery and other charges applicable to the E/M's End Use Retail Customers (EURC), and for amounts due from the E/M unrelated to specific EURC accounts (such as transmission fees and fees associated with balancing or storage). E/Ms 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 Single Retailer EURC Calendar Month Invoice contains individual charge information for end use retail customers based on a calendar month estimate. ~~For NFG these invoices provide detail that the E/Ms use to reconcile their monthly summary invoices. The 810 Single Retailer EURC Calendar Month Invoice is not used by RG&E.~~

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[1] New York Public Service Commission Electronic Data Interchange proceeding, Case 98-M-0667.
[2] ~~Currently, Rochester Gas and Electric Corporation (RG&E) and National Fuel Gas Corporation (NFG) offer the Single Retailer model.~~

Technical Operating Profile

For

Electronic Data Interchange in New York

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

Version 1.0
February 21, 2003

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)[1].

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) 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, ESCO/Marketers (E/Ms) 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[2]. Under the Single Retailer model, the E/M is responsible for all retail services to their customers including billing and payment processing. With respect to billing, the Utility invoices the E/M for delivery and other charges applicable to the E/M's End Use Retail Customers (EURC), and for amounts due from the E/M unrelated to specific EURC accounts (such as transmission fees and fees associated with balancing or storage). E/Ms 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 E/M) as well as a summarization of the individual EURC charges. This Summary Invoice also contains the total balance due from the E/M 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 E/M sent in an ESCO Summary Invoice must be included in any documentation accompanying the ESCO/Marketer's payment(s) to the Utility. ~~NFG~~

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[1] New York Public Service Commission Electronic Data Interchange proceeding, Case 98-M-0667.

[2] ~~Currently, Rochester Gas and Electric Corporation (RG&E) and National Fuel Gas Corporation (NFG) offer the Single Retailer model.~~

~~will send this invoice on a calendar month basis, along with the EURC Calendar Month Estimate~~
~~Invoices.~~

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. 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 E/M 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[3]. 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 E/Ms using an
end-to-end approach, with execution details left to the utility[4].

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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[3] 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.
[4] Details including the coordination and scheduling of E/M test batches and the timing and execution of test frames and scenarios are
left to the discretion of the Utility.