

Decision Support System (DSS) Consolidated Invoice Mapping Document

Version 2.1

Table of Contents

Introduction.....	2
Document Intent.....	2
Consolidated Invoice - Summary (PDF).....	2
Consolidated Invoice - Invoice Details (CSV)	3
Power Supplier Statement.....	3
Transmission Customer Statement	5
Transmission Congestion Contract Statement	8
Transmission Owner Statement	8
Demand Response Statement.....	9
Virtual Bidding Statement	9
Working Capital Statement.....	9

Introduction

Document Intent

This document is intended to help NYISO Decision Support System (DSS) users provide a direct link from their NYISO Consolidated Invoice reports to the corresponding data in DSS in order to support detailed invoice reconciliation.

Consolidated Invoice - Summary (PDF)

The Consolidated Invoice Summary is the sum of various billing codes from the Invoice Details CSV file for each market role.

Power Supplier	=Sum of the billing codes documented below (301, 304, 314, 302, 305, 306, 307, 312, 308, 309, 310, & 320/322/324/326)
Transmission Customer	=Sum of the billing codes documented below (701, 705, 768, 769, 709, 752, 751, 756, 755, 803, 805/809/832/835, 828/829/830/833, 812, 817, 810, 818, 813, 819, 814, 820, 804, 807, 821, 806, 822, 808, & 823) Note: 709, 817, 818, 819, 820, 821, 822, & 823 relate to Station Service and are not currently in the DSS.
Transmission Congestion Contract Holder	=<Day TCC Rent Stlmnt (\$)> Note that TCC Surcharge Settlements are billed as Manual Adjustments
Transmission Owner	=<Day DAM Resid Cong Stlmnt: TO (\$) > +<Day NTAC (NYPA) (\$) > +<Ramapo Par> Note: The DSS currently does not contain the Transmission Owner Settlement for Ramapo Par
Demand Response Customer	=Sum of the billing codes documented below (2012, 2015, 2013, 2011, & 2014)
Virtual Bidding Customer	=Sum of the billing codes documented below (771, 774, 773, & 775)
Adjustments	=Sum of Mo Manual Adj Stlmnt (\$) + Mo Manual Adj Interest Stlmnt (\$)
Interest	=<Mo Int Stlmnt: Inv Bill Month (\$) >
ICAP	=<Mo ICAP Stlmnt (\$) >
Working Capital	=<Mo Work Cp Stlmnt (\$) > where Mo Wrk Cp Type ID = 25, 35, 40, or 60.

Consolidated Invoice - Invoice Details (CSV)

Power Supplier Statement

Energy(MWh)	
300 Forward Energy	From the Power Suppliers Universe: =<Day NYISO DAM Energy (MW)>
303 Balancing Energy	From the Power Suppliers Universe: =<Day Gen BalMkt Energy (MW)> +<Day CLR (MW)>
Energy Settlement (\$)	
301 Forward Energy	From the Power Suppliers Universe: =<Day Total DAM Stlmnt: Gen (\$)>
304 Balancing Energy	From the Power Suppliers Universe: =<Day Total BalMkt Stlmnt: Gen (\$)> +<Day Total CLR BalMkt Stlmnt: Gen (\$)> +<Day DAM Margin Assurance (\$)> +<Day DAM Margin Assurance LRR (\$)>
314 ELR DAM Contract Balancing Payment \$	From the Power Suppliers Universe: =<Day ELR DAM MargAsrc Stlmnt (\$)>
302 DAM Bid Production Cost Guarantee	From the Power Suppliers Universe: =<Day DAM BPCG Stlmnt (\$)>
305 R/T Bid Production Cost Guarantee	From the Power Suppliers Universe: =<Day RT BPCG Stlmnt (\$)> +< Day Supplemental Event Stlmnt (\$)> From the Power Suppliers AS Universe: +<Day Reg Rev Adj Stlmnt (\$)>
Ancillary Service Charges	
Cost Based Ancillary Services	
306 Reactive Supply and Voltage Control Avail Paymt.	From the Power Suppliers AS Universe: =<Day VSS Stlmnt (\$)>
307 Reactive Supply and Voltage Control LOC Paymt.	From the Power Suppliers AS Universe: =<Day VSS LOC Stlmnt (\$)>
312 Black Start Service Payment	From the Power Suppliers AS Universe:

	=<Day Black Start Stlmnt (\$)>
Market Based Ancillary Service	
308 Regulation and Frequency Response Avail Payment	From the Power Suppliers AS Universe: =<Day DAM Reg Avail Stlmnt (\$)> +<Day SUP Reg Avail Stlmnt (\$)> +<Day BalMkt Reg Avail Stlmnt (\$)> +<Day Reg Replacement Cost (\$)>
309 Regulation and Frequency Response Penalty Charge	From the Power Suppliers AS Universe: =<Day Reg Penalty (\$)>
310 Operating Reserves Service Availability Payment	From the Power Suppliers AS Universe: =<Day DAM 10Sync Avail Stlmnt (\$)> +<Day Sup 10Sync Avail Stlmnt (\$)> +<Day BalMkt 10Sync Avail Stlmnt (\$)> +<Day 10Sync Reduct Stlmnt (\$)> +<Day DAM 10NSync Avail Stlmnt (\$)> +<Day Sup 10NSync Avail Stlmnt (\$)> +<Day BalMkt 10NSync Avail Stlmnt (\$)> +<Day 10NSync Reduct Stlmnt (\$)> +<Day DAM 30Min Avail Stlmnt (\$)> +<Day Sup 30Min Avail Stlmnt > +<Day BalMkt 30Min Avail Stlmnt > +<Day 30Min Reduct Stlmnt (\$)> +<Day 10Sync LOC Stlmnt (\$)> +<Day Adj 10NSync LOC Stlmnt (\$)>
310 Operating Reserves Service Penalty Charge	From the Power Suppliers AS Universe: =<Day 10Min Shortfall Stlmnt (\$)>
320 322 324 326 Scheduling System Control & Dispatch Service - Injections	From the Power Suppliers AS Universe: =< Day MST Sched 1 Inj. Stlmnt: Gen (\$)> +< Day OATT Sched 1 Inj. Stlmnt: Gen (\$)> +< Day MST Ttl Msc Exp Inj. Stmt:Gen(\$)> +< Day OAT Ttl Msc Exp Inj. Stmt:Gen(\$)> From the Demand Response Universe: =< Day MST Sched 1 Inj. Stlmnt: DRB (\$)> +< Day OATT Sched 1 Inj. Stlmnt: DRB (\$)> +< Day MST Ttl Msc Exp Inj. Stmt: DRB (\$)> +< Day OAT Ttl Msc Exp Inj. Stmt: DRB (\$)>

Transmission Customer Statement

Energy(MWh)	
700 Forward Energy	From the Loads Universe: =<Day DAM Sched Load (MW)> + From the TC Universe: +<Day DAM LBMP Energy (MWh)> +<Day DAM Repl Energy (MWh)>
704 Balancing Energy	From the Loads Universe: +<Day BalMkt Load - LSE (MWh)> + From the TC Universe: =<Day BalMkt LBMP Energy (MWh)> +<Day BalMkt Repl Energy (MWh)>
800 Ancillary Service	From the Loads AS Universe: =<Day RT LSE Load (MWh)>
708 Station Service Energy Credit/Charge	Not currently in the DSS
Energy Settlement (\$):	
701 Forward Energy \$	From the Loads Universe: =<Day Total DAM Stlmnt - LSE (\$)> + From the TC Universe: +<Day DAM LBMP Energy Stlmnt (\$)> +<Day DAM Repl Engy Stlmnt (\$)>
705 Balancing Energy \$	From the Loads Universe: =<Day Total BalMkt Stlmnt - LSE (\$)> + From the TC Universe: +<Day BalMkt LBMP Engy Stlmnt (\$)> +<Day BalMkt Repl Engy Stlmnt (\$)> +<Day Fin Imp Ch Stlmnt: Trans (\$)>
768 DAM External Bid Production Cost Guarantee \$	From the TC Universe: =<Day DAM Trans BPCG (\$)>
769 R/T External Bid Production Cost Guarantee \$	From the TC Universe: =<Day RT Trans BPCG (\$)> +<Day Imp ECA Suppl Guar Cr Stlmnt (\$)>
709 Station Service Energy Credit/Charge	Not currently in the DSS

Transmission Usage Charge Settlement[TUC] (\$):	
752 Forward Congestion Charge	From the TC Universe: =<Day DAM TUC Cong Stlmnt (\$)> +<Day DAM LBMP Cong Stlmnt (\$)> +<Day DAM Repl Cong Stlmnt (\$)>
751 Forward Loss Charge	From the TC Universe: =<Day DAM TUC Loss Stlmnt (\$)> +<Day DAM LBMP Loss Stlmnt (\$)> +<Day DAM Repl Loss Stlmnt (\$)>
756 Balancing Congestion Charge	From the TC Universe: =<Day BalMkt TUC Cong Stlmnt (\$)> +<Day BalMkt LBMP Cong Stlmnt (\$)> +<Day BalMkt Repl Cong Stlmnt (\$)>
755 Balancing Loss Charge	From the TC Universe: =<Day BalMkt TUC Loss Stlmnt (\$)> +<Day BalMkt LBMP Loss Stlmnt (\$)> +<Day BalMkt Repl Loss Stlmnt (\$)>
803 NYPA Transmission Adjustment Charge[NTAC]	From the Loads AS Universe: =<Day NTAC Stlmnt - LSE (\$)> + From the TC AS Universe: +<Day NTAC Stlmnt - TC (\$)>
Ancillary Service Charges	
805 809 832 835 Scheduling System Control & Dispatch Service - Withdrawals	From the Loads AS Universe: =<Day MST Sched 1 WD Stlmnt: LSE (\$)> +<Day OATT Sched 1 WD Stlmnt: LSE (\$)> +<Day MST Ttl Msc Exp WD Stmt:LSE (\$)> +<Day OAT Ttl Msc Exp WD Stmt:LSE (\$)> +<Day Fin Imp Cred Stlmnt: LSE (\$)> + From the TC AS Universe: +<Day MST Sched 1 WD Stlmnt: TC (\$)> +<Day OATT Sched 1 WD Stlmnt: TC (\$)> +<Day MST Ttl Msc Exp WD Stmt:TC (\$)> +<Day OAT Ttl Msc Exp WD Stmt:TC (\$)> +<Day Fin Imp Cred Stlmnt: TC (\$)>
828 829 830 833 Scheduling System Control & Dispatch Service - Injections	From the TC AS Universe: =<Day MST Sched 1 Inj. Stlmnt: TC (\$)>

	+<Day OATT Sched 1 Inj. Stmt: TC (\$)> +<Day MST Ttl Msc Exp Inj. Stmt:TC (\$)> +<Day OAT Ttl Msc Exp Inj. Stmt:TC (\$)>
812 NYISO-wide Uplift	From the Loads AS Universe: =<Day DAM BPCG Stlmnt - LSE (\$)> +<Day RT BPCG Stlmnt - LSE (\$)> +<Day Supp Event Stlmnt - LSE (\$)> +<Day DAM Trans BPCG Stlmnt - LSE (\$)> +<Day RT Trans BPCG Stlmnt - LSE (\$)> +<Day Imp ECA Sup Gnt Stlmnt -LSE (\$)> +<Day DAM BPCG Forecast Stlmnt (\$)> + From the TC AS Universe: +<Day DAM BPCG Stlmnt - TC (\$)> +<Day RT BPCG Stlmnt - TC (\$)> +<Day Supp Event Stlmnt - TC (\$)> +<Day DAM Trans BPCG Stlmnt - TC (\$)> +<Day RT Trans BPCG Stlmnt - TC (\$)> +<Day ELR DAM MargAsrc Stlmnt-TC (\$)> +<Day Imp ECA Sup Gnt Stlmnt - TC (\$)>
817 Station Service NYISO-wide Uplift	Not currently in the DSS
810 Local Reliability Related Uplift	From the Loads AS Universe: =<Day DAM BPCG LRR Stlmnt - LSE (\$)> +<Day RT BPCG LRR Stlmnt - LSE (\$)> +<Day ELR DAM MargAsrc Stlmnt-LSE (\$)>
818 Station Service Local Reliability Related Uplift	Not currently in the DSS
813 Residual Adjustments	From the Loads AS Universe: =<Day DAM Resid Engy Stlmnt - LSE (\$)> +<Day DAM Resid Loss Stlmnt - LSE (\$)> +<Day Bal Resid Engy Stlmnt - LSE (\$)> +<Day Bal Resid Loss Stlmnt - LSE (\$)> +<Day Bal Resid Cong Stlmnt - LSE (\$)> +<Day DAM Mrgn Assrnc Stlmnt- LSE (\$)> +<Day DAM MgnAssrnc LRR Stlmt-LSE (\$)> +<Day Emergency Purch Stlmnt -LSE (\$)> +<Day Emrgency Sales Stlmnt - LSE (\$)> + From the TC AS Universe: +<Day DAM Resid Engy Stlmnt - TC (\$)> +<Day DAM Resid Loss Stlmnt - TC (\$)> +<Day Bal Resid Engy Stlmnt - TC (\$)>

	+<Day Bal Resid Loss Stlmnt - TC (\$)> +<Day Bal Resid Cong Stlmnt - TC (\$)> +<Day DAM Mrgn Assrnc Stlmnt - TC (\$)> +<Day Emergency Purch Stlmnt - TC (\$)> +<Day Emergency Sales Stlmnt - TC (\$)>
819 Station Service Residual Adjustments	Not currently in the DSS
814 Demand Response Program Uplift	From the Loads AS Universe: =<Day DADRP Stlmnt (\$)>
820 Station Service Demand Response Program Uplift	Not currently in the DSS
OATT Charges	
804 Reactive Supply & Voltage Control Service	From the Loads AS Universe: =<Day VSS Stlmnt - LSE (\$)> + From the TC AS Universe: +<Day VSS Stlmnt - TC (\$)>
807 Regulation & Frequency Response Service	From the Loads AS Universe: =<Day Regulation Stlmnt: LSE (\$)> +<Day RRA Stlmnt: LSE (\$)>
821 Station Service Regulation & Frequency Response Service	Not currently in the DSS
806 Operating Reserves Service	From the Loads AS Universe: =<Day Op Res Stlmnt - LSE (\$)> + From the TC AS Universe: +<Day Op Res Stlmnt - TC (\$)>
822 Station Power Operating Reserves Service	Not currently in the DSS
808 Black Start Service	From the Loads AS Universe: =<Day Black Start Stlmnt - LSE (\$)>
823 Station Service Black Start Service	Not currently in the DSS

Transmission Congestion Contract Statement

Objects from the TCC Universe

Contract ID	TCC Credit
=<TCC ID>	=<Day TCC Rent Stlmnt (\$)>

Transmission Owner Statement

Objects from the Transmission Owners Universe

OATT Attachment N: Congestion Balancing Settlement	=<Day DAM Resid Cong Stlmnt - TO (\$)>
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(\$)	
OATT Attachment H: External Transmission Service (MWh)	Hr TSC Ext Energy (MWh)
OATT Attachment H: NYPA Transmission Access Settlement (\$)	=<Day NTAC (NYPA) (\$)>
Ramapo Phase Angle Regulator	Not currently in the DSS

Demand Response Statement

Objects from the Demand Response Universe

2012 Load Reduction	=<Day DADRP Reduction (\$)>
2015 Load Reduction Uplift	=<Day DADRP BCG Stlmnt (\$)>
2013 Demand Response Penalty	=<Day DADRP Penalty - DRP (\$)> +<Day DADRP Penalty - LSE (\$)>
2011 Demand Response Incentive	=<Day DADRP Incentive (\$)>
2014 Demand Reduction Load Balancing	=<Day DADRP Load Balance (\$)>
For Information Only:	
Load Reduction Over-collection Payment	Not currently in the DSS
Load Reduction Bid Guarantee	=<Hr Total DADRP Cost (\$)>

Virtual Bidding Statement

Objects from the Virtual Bidding Universe

771 DAM Virtual Load LBMP Energy Sales	=<Day Total DAM VLoad Stlmnt (\$)>
774 Balancing Virtual Load LBMP Energy Sales	=<Day Total BalMkt VLoad Stlmnt (\$)>
773 DAM Virtual Load LBMP Energy Expenditure	=<Day Total DAM VSupply Stlmnt (\$)>
775 Balancing Virtual Load LBMP Energy Expenditure	=<Day Total BalMkt VSupply Stlmnt (\$)>

Working Capital Statement

Objects from the Working Capital Universe

Type ID	=<Mo Wrk Cp Type Id>
Transaction Date	=<Mo Wrk Cp Effective Date>
Type Description	=<Mo Wrk Cp Type Description>
Amount	=<Mo Wrk Cp Rate (\$/MWh)>
Transaction Description	=<Mo Wrk Cp Transaction Desc>