



Decision Support System (DSS) Consolidated Invoice Mapping Document

Version 2.4

April 1, 2008

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Revision History

- August 8, 2006 – Added Real Time BPCG Guaranteed Payments Mitigation information
- September 15, 2006 – Added Billing Code 327 to required calculation for Billing Code 305, RT Bid Production Cost Guarantee in Power Supplier Statement
- September 15, 2006 – Updated Version # to 2.3 and included in page headings
- April 1, 2008 – Updated Version # to 2.4 and included Ramapo PAR, Station 80, and Local Black Start/Restoration Settlements

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, & 1017)
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, 836, 837, 839, 840, 841 , 804, 807, 821, 806, 822, 808, & 823, 838) Note: 709, 817, 818, 819, 820, 821, 822, 823, 839, 840, & 841 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) (\$)> + Sum of the billing codes documented below (1015 & 1016)
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 (\$)> +<Day RT BPCG Mitg Charge (\$)> 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 Paymnt.	From the Power Suppliers AS Universe: =<Day VSS Stlmnt (\$)>
307 Reactive Supply and Voltage Control LOC Paymnt.	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 Schd 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 Schd 1 Inj Stlmnt: DRB (\$)> +<Day MST Ttl Msc Exp Inj Stmt:DRB(\$)> +<Day OAT Ttl Msc Exp Inj Stmt:DRB(\$)>
1017 Local Black Start and Restoration Services Payment	From the Power Suppliers AS Universe: =<Day Local Black Start Stlmnt (\$)>

Transmission Customer Statement

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

	+<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. Stlmnt: 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
836 Ramapo PAR Charge	From the Loads AS Universe: =<Day Ramapo PAR Stlmnt - LSE (\$) > + From the TC AS Universe: +<Day Ramapo PAR Stlmnt - TC (\$) >
837 Station 80 Charge	From the Loads AS Universe: =<Day Station 80 Stlmnt - LSE (\$) > + From the TC AS Universe: +<Day Station 80 Stlmnt - TC (\$) >
839 Station Service Ramapo PAR Rebate	Not currently in the DSS
840 Station Service Station 80 Rebate	Not currently in the DSS
841 Station Service Local Black Start Rebate	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
838 Local Black Start and Restoration Services	From the Loads AS Universe: =<Day Local Black Start Stlmnt - LSE (\$) >

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 (\$)>
OATT Attachment H: External Transmission Service (MWh)	Hr TSC Ext Energy (MWh)
OATT Attachment H: NYPA Transmission Access Settlement (\$)	=<Day NTAC (NYPA) (\$)>
1015 Ramapo Phase Angle Regulator	=<Day Ramapo PAR Stlmnt - TO (\$)>
1016 Station 80 Payment	=<Day Station 80 Stlmnt – TO (\$)>

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>