Decision Support System (DSS)

Consolidated Invoice Mapping Document

Version 3

June 17, 2015

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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.
- August 21, 2008 – Updated Version # to 2.5 and added Local Black Start Restoration Testing and Training Settlements.
- November 1, 2008 – Updated Version # to 2.6 and included Margin Restoration (Min Oil Burn) Settlements and updated Station Service bill codes on existing rows.
- September 17, 2009 – Updated Version # to 2.7 and added Trading Hub Settlements.
- May 10, 2011 - Updated to version 2.8 and added EDRP / SCR Settlements and MWh.
- August 23, 2011 – Updated to version 2.9 and added new items associated with the Con Invoice Redesign project.
- February 8, 2012 – Updated to version 2.10 and added new item associated with the B275 Bad Debt Loss project.
- October 24, 2012- Update to Version 2.11 and added new items associated with the B255 Regulation Compensation/Order 755 project.
- March 8, 2013- Update to Version 2.12 and added bill codes associated with the M2M Coordination project.
- October 15, 2014 – Update to Version 2.13 and added Data Retention statement to the Document Intent section.
- **June 17, 2015 – Added new billing codes related to Regulated Transmission Cost Recovery project.**

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.

Market Participants may query Consolidated Invoice data for the three year period ending with the current month. Market Participants will also be able to download data elements from DSS for February 1, 2005 through the present.

Consolidated Invoice – Summary

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, 328, 306, 307, 312, 308, 309, 310, 320/322/324/326, 1017, & 1100) Note: 1100 relates to the Wind Forecasting Service Charge and is not currently in the DSS
Transmission Customer	=Sum of the billing codes documented below (701, 705, 768, 769, 1102, 752, 751, 756, 755, 803, 1103, 805/809/832/835, 1105, 828/829/830/833, 812, 1112, 1117, 810, 1110, 1118, 813, 1113, 1119, 814, 1114, 1120, 836, 1136, 1139, 837, 1137, 1140, 839, 840, 841, 804, 1104, 807, 1107, 1121, 806, 1106, 1122, 808, 1108, 1123, 838, 1138, 1141,3004, 3005, & 4004) Note: 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1112, 1113, 1114, 1117, 1110, 1118, 1119, 1120, 1121, 1122, 1123, 1136, 1137, 1139, 1138, 1140, & 1141 relate to Station Service and are not currently in the DSS Note: 3004 &3005 relate to RTO Ramapo Par Charge and Rebate and are not currently in the DSS.
Transmission Congestion Contract Holder	=<Day TCC Rent Stlmnt ($)>
Transmission Owner	=<Day DAM Resid Cong Stlmnt: TO ($)> +<Day NTAC (NYPA) ($)> + Sum of the billing codes documented below (1015 & 1016) + Day Reg Trans Project Sttlmnt ($): TO ($)
Demand Response Customer	=Sum of the billing codes documented below (2012, 2015, 2013, 2011, 2014, 2026, 2028, & 2029)
Virtual Bidding Customer	=Sum of the billing codes documented below (771, 774, 773, & 775)
Adjustments	=Sum of <Mo Manual Adj Stlmnt ($)> + <Mo Manual Adj Interest Stlmnt ($)>

Interest	=<Mo Int Stlmnt: Inv Bill Month ($)>
Prepayments	=<Prepayment Total ($)>
Working Capital	=<Mo Work Cp Stlmnt ($)> where Mo Wrk Cp Type ID = 25, 35, 40, or 60.
ICAP	=<ICAP Stlmnt ($)>
Bad Debt Loss	=<BDL Amount ($)>

Consolidated Invoice - Invoice Details

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 ($)> **From the Power Suppliers AS Universe:** +<Day Reg Rev Adj Stlmnt ($)>
328 Margin Restoration (MOB) Payment $	**From the Power Suppliers Universe:** =<Day Marg Restor MOB Stlmnt ($)>

Ancillary Service Charges	
Cost Based Ancillary Services	
306 Reactive Supply and Voltage Control Avail Pymt.	**From the Power Suppliers AS Universe:** =<Day VSS Stlmnt ($)>
307 Reactive Supply and Voltage Control LOC Pymt.	**From the Power Suppliers AS Universe:** =<Day VSS LOC Stlmnt ($)>
312 Black Start Service Payment	**From the Power Suppliers AS Universe:** =<Day Black Start Stlmnt ($)>
1100 Wind Forecasting Service Charge	Not currently in the DSS
Market Based Ancillary Service	
308 Regulation and Frequency Response Avail Payment	**From the Power Suppliers AS Universe:** =<Day DAM Reg Capacity Stlmnt ($)> +<Day BalMkt Reg Capacity Stlmnt ($)> +<Day RT Reg Movement Stlmnt ($)> +<Day RT Reg Performance Charge ($)>
309 Regulation and Frequency Response Penalty Charge	**From the Power Suppliers AS Universe:** =<Day Reg Penalty ($)>
310 Operating Reserves Service Availability Payment	**From the Power Suppliers AS Universe:** =<Day DAM 10Sync Avail Stlmnt ($)> +<Day BalMkt 10Sync Avail Stlmnt ($)> +<Day DAM 10NSync Avail Stlmnt ($)> +<Day BalMkt 10NSync Avail Stlmnt ($)> +<Day DAM 30Min Avail Stlmnt ($)> +<Day BalMkt 30Min Avail Stlmnt >
320 322 324 326 Scheduling System Control & Dispatch Service – Injections	**From the Power Suppliers AS Universe:** =<Day MST Sched 1 Inj Stlmnt: Gen ($)> +<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($)>
1017 Local Black Start and Restoration Services Payment	**From the Power Suppliers AS Universe:** =<Day Local Black Start Stlmnt ($)> + <Day Loc Blk Strt Test Stlmnt ($)>

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)>
1101 Station Service Energy	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 ($)> +<Day DAM Trading Hub Total LBMP Stlmnt – Sink ($)> +<Day DAM Trading Hub Total LBMP Stlmnt – Src ($)>
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 ($)> +<Day Fin Imp Ch Stlmnt: Trans ($)> +<Day RT Trading Hub Total LBMP Stlmnt – Sink ($)> +<Day RT Trading Hub Total LBMP Stlmnt – Src ($)>
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 ($)> +<Day Imp ECA Suppl Guar Cr Stlmt ($)>
1102 Station Service Energy $	Not currently in the DSS
3003 RT M2M Coordination $	From the ISO RTO Universe: <RT M2M Flowgate Redispatch Stlmnt ($)> +<RT M2M Par Stlmnt ($)>
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 ($)>
803 NYPA Transmission Adjustment Charge[NTAC] - LSE & Exp Load & Whl Thru	**From the Loads AS Universe:** =<Day NTAC Stlmnt - LSE ($)> **+ From the TC AS Universe:** +<Day NTAC Stlmnt - TC ($)>
1103 NTAC - 3rd Party & Rmt Station Service Load	Not currently in the DSS
Ancillary Service Charges	
805 809 832 835 Scheduling System Control & Dispatch Service – Withdrawals - LSE & Exp Load & Whl Thru	**From the Loads AS Universe:** =<Day MST Sched 1 WD Stlmnt: LSE ($)> +<Day OATT Sched 1 WD Stlmt: 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 ($)> +<Day OATT Sched 1 WD Stlmt: TC ($)> +<Day MST Ttl Msc Exp WD Stmt: TC ($)> +<Day OAT Ttl Msc Exp WD Stmt: TC ($)> +<Day Fin Imp Cred Stlmnt: TC ($)>
1105 Scheduling System Control & Dispatch Service - Withdrawals - 3rd Party Station Service Load	Not currently in the DSS
828 829 830 833 Scheduling System Control & Dispatch Service – Injections	**From the TC AS Universe:** =<Day MST Sched 1 Inj. Stlmnt: TC ($)> +<Day OATT Sched 1 Inj. Stlmt: TC ($)> +<Day MST Ttl Msc Exp Inj. Stmt: TC ($)> +<Day OAT Ttl Msc Exp Inj. Stmt: TC ($)>
812 NYISO-wide Uplift - LSE Load	**From the Loads AS Universe:** =<Day DAM BPCG Stlmnt - LSE ($)> +<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 ($)>
1112 NYISO-wide Uplift - 3rd Party Station Service Load	Not currently in the DSS
1117 3rd Party Station Service NYISO-wide Uplift Rebate	Not currently in the DSS
810 Local Reliability Related Uplift - LSE Load	**From the Loads AS Universe:** =<Day DAM BPCG LRR Stlmnt - LSE ($)> +<Day RT BPCG LRR Stlmnt - LSE ($)> +<Day ELR DAM MargAsrc Stlmnt-LSE ($)>
1110 Local Reliability Related Uplift - 3rd Party Station Service Load	Not currently in the DSS
1118 3rd Party Station Service Local Reliability Related Uplift Rebate	Not currently in the DSS
813 Residual Adjustments - LSE & Exp Load & Whl Thru	**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 ($)> **+ From the TC AS Universe:** +<Day DAM Resid Enrgy Stlmnt - TC ($)> +<Day DAM Resid Loss Stlmnt - TC ($)> +<Day Bal Resid Enrgy Stlmnt - TC ($)> +<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 ($)>
1113 Residual Adjustments - 3rd Party Station Service Load	Not currently in the DSS
1119 3rd Party Station Service Residual Adjustments Rebate	Not currently in the DSS
814 Demand Response Program Uplift - LSE Load	**From the Loads AS Universe:** =<Day DADRP Stlmnt ($)>
1114 Demand Response Program Uplift - 3rd Party Station Service Load	Not currently in the DSS
1120 3rd Party Station Service Demand Response Program Uplift Rebate	Not currently in the DSS
836 Ramapo Par Charge - LSE & Exp Load & Whl Thru	**From the Loads AS Universe:** =<Day Ramapo PAR Stlmnt - LSE ($)> **+ From the TC AS Universe:** +<Day Ramapo PAR Stlmnt - TC ($)>
1136 Ramapo Par Charge - 3rd Party Station Service Load	Not currently in the DSS
1139 3rd Party Station Service Ramapo PAR Rebate	Not currently in the DSS
837 Station 80 Charge - LSE & Exp Load & Whl Thru	**From the Loads AS Universe:** =<Day Station 80 Stlmnt - LSE ($)> **+ From the TC AS Universe:** +<Day Station 80 Stlmnt - TC ($)>
1137 Station 80 Charge - 3rd Party Station Service Load	Not currently in the DSS

1140 3rd Party Station Service Station 80 Rebate	Not currently in the DSS
839 Margin Restoration (MOB) Charge $	**From the Loads AS Universe:** =<Day Marg Restor MOB Stlmnt: LSE ($)>
840 Local EDRP/SCR Demand Response Charge – LSE Load	From the Loads AS Universe: =<Day EDRP Local Stlmnt: LSE ($)> + <Day SCR Local Stlmnt: LSE ($)> + <Day SCR BCG Local Stlmnt: LSE ($)>
841 NYISO- Wide EDRP/SCR Demand Response Charge – LSE Load	From the Loads AS Universe: =< Day EDRP NYISO-Wide Stlmnt: LSE ($)> + <Day SCR NYISO-Wide Stlmnt: LSE ($)> + <Day SCR BCG NYISO-Wide Stlmnt: LSE ($)>
3004 RTO Ramapo Par Charge	Not currently in the DSS
3005 RTO Ramapo PAR Rebate	Not currently in the DSS
4004 Regulated Transmission Projects Charge $	From the Loads AS Universe: = Day Reg Trans Project Sttlmnt ($): LSE ($)
OATT Charges	
804 Reactive Supply & Voltage Control Service - LSE & Exp Load & Whl Thru	**From the Loads AS Universe:** =<Day VSS Stlmnt - LSE ($)> **+ From the TC AS Universe:** +<Day VSS Stlmnt - TC ($)>
1104 Reactive Supply & Voltage Control Service - 3rd Party Station Service Load	Not currently in the DSS
807 Regulation & Frequency Response Service - LSE Load	**From the Loads AS Universe:** =<Day Regulation Stlmnt: LSE ($)> +<Day RRA Stlmnt: LSE ($)>
1107 Regulation & Frequency Response Service - 3rd Party Station Service Load	Not currently in the DSS
1121 3rd Party Station Service Regulation & Frequency Response Service Rebate	Not currently in the DSS
806 Operating Reserves Service- LSE & Exp Load	**From the Loads AS Universe:** =<Day Op Res Stlmnt - LSE ($)> **+ From the TC AS Universe:** +<Day Op Res Stlmnt - TC ($)>
1106 Operating Reserves Service - 3rd Party Station Service Load	Not currently in the DSS
1122 3rd Party Station Power Operating Reserves Service Rebate	Not currently in the DSS
808 Black Start Service - LSE Load	**From the Loads AS Universe:** =<Day Black Start Stlmnt - LSE ($)>
1108 Black Start Service - 3rd Party Station Service Load	Not currently in the DSS

1123 3rd Party Station Service Black Start Service Rebate	Not currently in the DSS
838 Local Black Start and Restoration Services - LSE Load	**From the Loads AS Universe:** =<Day Local Black Start Stlmnt - LSE ($)> +<Day LBS Test Stlmnt: LSE ($)>
1138 Local Black Start and Restoration Services - 3rd Party Station Service Load	Not currently in the DSS
1141 3rd Party Station Service Local Black Start Rebate	Not currently in the DSS
For Information Only on the Transmission Customer Statement:	Not currently in the DSS
1150 Total NYISO-wide - 3rd Party Station Service NYISO-wide Uplift Rebate	Not currently in the DSS
1151 Total NYISO-wide - 3rd Party Station Service Local Reliability Related Uplift Rebate	Not currently in the DSS
1152 Total NYISO-wide - 3rd Party Station Service Residual Adjustments Rebate	Not currently in the DSS
1153 Total NYISO-wide - 3rd Party Station Service Demand Response Program Uplift Rebate	Not currently in the DSS
1154 Total NYISO-wide - 3rd Party Station Service Ramapo PAR Rebate	Not currently in the DSS
1155 Total NYISO-wide - 3rd Party Station Service Station 80 Rebate	Not currently in the DSS
1156 Total NYISO-wide - 3rd Party Station Service Regulation & Frequency Response Service Rebate	Not currently in the DSS
1157 Total NYISO-wide - 3rd Party Station Power Operating Reserves Service Rebate	Not currently in the DSS
1158 Total NYISO-wide - 3rd Party Station Service Black Start Service Rebate	Not currently in the DSS
1159 Total NYISO-wide - 3rd Party Station Service Local Black Start Rebate	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 ($)	=<Day DAM Resid Cong Stlmnt - TO ($)>
OATT Attachment H: External Transmission Service (MWh)	Hr TSC Ext Energy (MWh)
OATT Attachment H: NYPA Transmission Access	=<Day NTAC (NYPA) ($)>

Settlement ($)	
1015 Ramapo Phase Angle Regulator	=<Day Ramapo PAR Stlmnt - TO ($)>
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 ($)>
2014 Demand Reduction Load Balancing	=<Day DADRP Load Balance ($)>
2025 EDRP Demand Response Reduction MWHr	=<Day EDRP Reduction (MW)>
2026 EDRP Demand Response Credit $	=<Day EDRP Stlmnt ($)>
2027 SCR Demand Response Reduction MWHr	=<Day SCR Reduction (MW)>
2028 SCR Demand Response Credit $	=<Day SCR Stlmnt ($)>
2029 SCR Demand Response Bid Cost Guarantee	=<Day SCR Bid Cost Guarantee ($)>
For Information Only:	
Load Reduction Overcollection Payment	Not currently in the DSS
Load Reduction Bid Guarantee	=<Hr Total DADRP Cost ($)>

Virtual Bidding Statement

Objects from the Virtual Market 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 Invoice Support 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>