

Billing Simulator Project Update

**September 29, 2004
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Scope Phase III *(Feasibility Study Phase I – Detailed Analysis Phase II)*

- **Last BAWG update provided 4/27/04**
- **Document NYISO Settlement “Rules” into “Use Cases”**
- **Development of Billing Simulator Architecture and Components**
 - *Simulation Composer User Interface*
 - *Statistical Modeling for Sampling*
 - *Reporting Tools*
 - *JESS Rules Engine*
 - *Data Mapping for Input, Intermediate and Result Sets*
- **Delivery of 45 High Priority Rules (Partial Set)**
- **Select Rules to Simulate**
 - *Dates*
 - *Desired Output*
 - *MPs*
- **Sampling Selection – 100% Accuracy vs. Simulation Run Time**

Project Status

- **Final Product Delivered by Vendor**
- **Documentation of 66 Use Cases Completed**
 - *Includes 42 High Priority Use Cases (See attached list)*
 - *Data not available for 3 in DSS at this time*
 - *107 Use Cases Identified*
- **Tasks that have completed on Schedule**
 - *Code Development of Use Cases Complete*
 - *V0.2 Demo Completed Early May*
 - *V1.0 Demo Completed September 2004*
- **QA Testing On-Going – Approximately 90% Complete**

Use Cases Delivered V1.0

10 NSYNC Reduction (Power Supplier)	Day Ahead Market Transmission Usage Charges for Export Transactions
10Min Shortfall Penalty (Power Supplier)	Day Ahead Market Transmission Usage Charges for Import Transactions
Balancing Market Energy Export Transactions	Day Ahead Market Transmission Usage Charges for Internal Transactions
Balancing Market Energy Import Transactions	Day Ahead Market Transmission Usage Charges for Wheel-Through Transactions
Balancing Market Load Serving Entity Energy	Incentive (DADRP)
Balancing Market Power Supplier Energy	Load Balance (DADRP)
Balancing Market Transaction Bid Production Cost Guarantee	Penalty DRP (DADRP)
Balancing Market Transmission Usage Charges for Export Transactions	Penalty LSE (DADRP)
Balancing Market Transmission Usage Charges for Import Transactions	Power Supplier Day Ahead Market Bid Production Cost Guarantee
Balancing Market Transmission Usage Charges for Internal Transactions	Power Supplier Day Ahead Market Margin Assurance
Balancing Market Transmission Usage Charges for Wheel-Through Transactions	Power Supplier Generation Adjusted Energy Calculation
Bid Cost Guarantee (DADRP)	Power Supplier Generation Bid Incremental Cost Calculation
DAM 10 NSYNC Availability (Power Supplier)	Power Supplier Real-Time Market Bid Production Cost Guarantee
DAM 10 SYNC Availability (Power Supplier)	Reduction (DADRP)
DAM 30 Operating Availability (Power Supplier)	SUP 10 NSYNC Availability (Power Supplier)
DAM Regulation Availability (Power Supplier)	SUP 10 SYNC Availability (Power Supplier)
Day Ahead Market Energy Export Transactions	SUP 30 Operating Availability (Power Supplier)
Day Ahead Market Energy Import Transactions	SUP Regulation Availability (Power Supplier)
Day Ahead Market Load Serving Entity Energy	SYNC LOC (Backed-Down) (Power Supplier)
Day Ahead Market Power Supplier Energy	SYNC LOC (Blocked) (Power Supplier)
Day Ahead Market Transaction Bid Production Cost Guarantee	Under-Generation Penalty (Power Supplier)

Questions?

What's Next?