NEW YORK INDEPENDENT SYSTEM OPERATOR

2006 Major Product Enhancements

Description	Status and Milestone Deliverables
Energy Marketplace Product Enhancements	
A767 — MIS Enhancements: Comprehensive Bid Management System	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** This project will upgrade the web-based application structure to replace overlapping applications by allowing common components to support current application functionality and future application functional growth. One of the deliverables will be the implementation of a more flexible and reliable application infrastructure for the market applications. This project is part of a multi-year effort that will lead to a replacement of the Market Information System (MIS) and related bidding and scheduling applications.
Price Error Elimination	**Status:** This project is in the concept development phase and requirements phase. Concept and design work will continue in 2006; development progress will be dictated by various factors including, regulatory process, technical feasibility, and resource constraints. **Deliverables:** In conjunction with Market Participants and other stakeholders, a task force has been formed to identify the causes of all price corrections and identify potential remedies. The outcome of these exercises may yield opportunities to deliver enhancements that further improve the NYISO pricing processes and / or enhancement the NYISO price validation applications. The full scope of these opportunities has not been identified, but will presented as the scope is determined.
A769 — Enhanced Scheduling of Combined Cycle Units	**Status:** This project is in the concept development phase. Concept and design work will continue in 2006; development progress will be dictated by various factors including, regulatory process, technical feasibility, and resource constraints. **Deliverables:** Market Participants have historically expressed concern that NYISO does not model or schedule combined cycle generating units to their most efficient capabilities, thus impacting both real-time operations and market outcomes. This project will deliver a scheduling software solution and network modeling optimization for combined cycle generating units. Software will perform 15-minute economic dispatch scheduling for nominally off dispatch units during the real-time commitment execution and reflect those schedules into the real-time dispatch process.
A706 — Intra-Hour Transaction Scheduling (ITS)	**Status:** This project is in the concept development phase. Concept and design work will continue in 2006; development progress will be dictated by various factors including, regulatory process, technical feasibility, and resource constraints. **Deliverables:** In 2005, NYISO will conduct a pilot project to assess the ability to evaluate and schedule intra-hour transactions and to identify any operational issues with scheduling. Additional work in 2005 will be based on the outcome of the pilot program, however, it is not expected that any significant software development will be completed in 2005.

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Wind Forecasting	**Status:** This project is in the concept development phase. Concept and design work will continue in 2006; development progress will be dictated by various factors including, regulatory process, technical feasibility, and resource constraints. **Deliverables:** Design and implementation of the required forecasting systems that would be necessary to efficiently and reliably manage the introduction of significant amounts of intermittent energy sources in New York.
ICAP Marketplace Product Enhancements	
ICAP Auction Automation – Phase II	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** Following the implementation of the first phase of the ICAP Auction Automation software project, a certain subset of enhancements are planned to complete the full suite of planned features.
TCC Marketplace Product Enhancements	
TCC Auction Automation – Phase II & III	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** Following the implementation of the first phase of the TCC Auction Automation software project, a certain subset of enhancements are planned to complete the full suite of planned features.
Operations and Reliability Product Enhancements	
A770 — Outage Schedule Reporting	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** As part of the SMD2 project, the Outage Scheduling software was moved entirely to the Ranger system for both Scheduling and Operations to provide consistency. However, he processes of creating the Outage Schedule reports remains on a secondary database. The creation of the required reports will be ported to the RANGER system.
Integration of OOM and SRE Applications	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** Replacement of the Out of Merit (OOM) and Supplemental Resource Evaluation (SRE) applications used by the control room floor. These applications are currently built upon an unsupported platform (Oracle Forms) and can be design to be more efficient and less error prone if they are consolidated into a single suite of application functions.
Financial Service Product Enhancements	
BAS Replacement / Billing Engine	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** Implementation of a rules-based design as a replacement to the settlements engine in the Billing and Accounting System (BAS). Project will leverage technology investment made as part of the Billing Simulator and will lead to a higher performing calculation engine for billing, as well as a more flexible architecture for managing future

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	changes to the settlements processes. The 2005 project is part of a multi-year effort to replace the entire billing system including, the invoicing components, web-based reconciliation, and integration of certain credit functions.
Automation of Voltage Support Service (VSS) Payments	**Status:** This project is in concept and requirements phase. **Deliverables:** Automation of a manual settlements' process. This effort is part of a larger effort to reduce and / or eliminate the need to perform manual billing adjustments on customer invoices. Opportunities will be explored through the year to determine additional automation features that can be implemented, and those projects will be individually presented as they are launched.
Business Intelligence Product Enhancements	
Pricing and Operational Data Mart	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** During recent years, the NYISO has made a significant investment in data warehousing technology through the implementation of the Decision Support System (DSS). The initial focus of this endeavor has been to support the customer settlements functions. This project will expand the data offerings from the DSS to include additional data elements and reports, and to serve additional customers. The 2005 effort will be targeted to deliver pricing and operational data, initially focused on those reports that can enhance the price validation processes.
Enhanced Portal Dashboards	**Status:** This project is in a preliminary planning phase and will be formally initiated in 2006. **Deliverables:** Enhancements made to the NYISO Portal platform to support the implementation of the new data elements available through the Decision Support System (DSS), as well as improved reporting functionality to augment a wide variety of data supplied through this mechanism. Initial focus will be applied to the pricing and operational data capabilities.