

## NYISO Projects Portfolio Status Report

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### Project Deployments in the Past Month:

During the month of June there was one project deployment.

#### A556 Inadvertent Package Replacement

The scope of this project was to develop a replacement software application for an existing mainframe-based application called the Inadvertent Package that will be eliminated by the SMD2 project. The Customer Settlements department uses this application to reconcile the hourly schedule versus actual interchange values as well as the inadvertent energy (the difference between scheduled and actual) flowing on the tie lines with each external control area. The new application was successfully deployed on June 30.

### Project Deployments Year-to-Date:

The following table summarizes the project deployments completed in 2004.

Month	Completed Deployments
January	No Deployments
February	A649 Oracle 9i - BAS A686 Allocations Adjustments (EDRP, TSA, QSR) A713 Creating New Meter Authorities
March	A556 Documentum
April	A647 Station Power A660 E-Tagging Integration A620 AMP IV
May	No Deployments
June	A688 Inadvertent Package Replacement

### Changes in the Projects Portfolio:

The table below summarizes the number of projects currently included in the Projects Portfolio.

Project Category	Previously Scheduled <sup>1</sup>	Completed	Additions	Currently Scheduled <sup>2</sup>
Priority Projects	46	3	0	43
Studies and Training	19	0	0	19
Total	65	0	0	62

- Notes: <sup>1</sup> Previously Scheduled – reflects status as of the June 1  
<sup>2</sup> Currently Scheduled - reflects status as of July 2

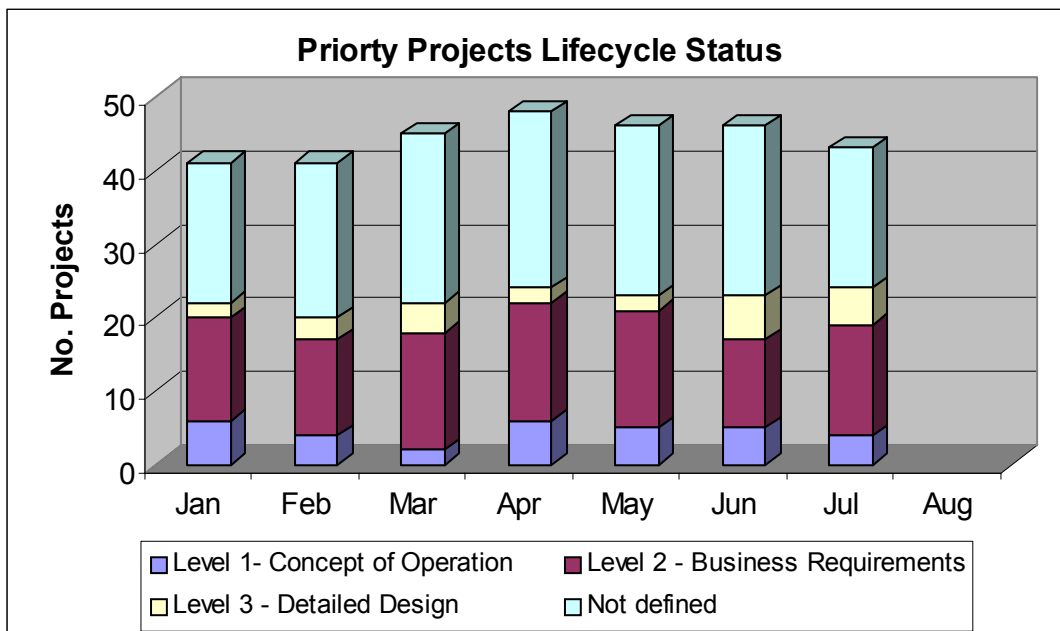
Changes to the Projects Portfolio over the past month are described in the table below.

Projects Completed	
A620	AMP IV including Start-up and Min Gen Mitigation
A660	E-Tagging Integration
A647	Station Power Accounting
Projects Added	
	None

It should be noted that project completion occurs days or even weeks after the actual software deployment to allow for verifying proper operation, correcting of any identified defects, and conducting the lessons learned and close-out activities.

**Priority Project Lifecycle Status:**

The graph below illustrates the status of Priority Projects within the project lifecycle.



- Level 1 indicates a project in its preliminary or conceptual stage with a completed Issue Discovery or Concept of Operation document. Class 100 estimates for resources, schedule and cost are prepared at this time (assumed to have +/- 100% accuracy).
- Level 2 is achieved when the Business Requirements document (aka FRS) is completed and the project scope is more clearly defined. Class 50 estimates for resources, schedule and cost are prepared at this point in the project lifecycle (assumed to have +/- 50% accuracy).

- Level 3 is reached when a System Design Specification (SDS), defining the detailed software design requirements, is completed. Class 10 estimates for resources, schedule and cost are prepared at this point in the project lifecycle (assumed to have +/- 10% accuracy).
- Not Defined means the project is still in the initial conceptualization phase.

The estimate levels defined above are also shown for each project on the Projects Portfolio Gantt chart. As a project progresses through these levels the resource, schedule and cost estimates become more accurate.

**Project Deployments Planned for the Next Month:**

A664 DSS Enhancements V – Alternate Data Delivery (ADD) phase I scheduled for July 7

This report provides the current status of projects prioritized by the Project Prioritization Team (PPT). Please refer to the accompanying Projects Portfolio (Gantt chart) for the latest scheduling and deployment information. This information is updated monthly for the PPT meetings.

## Priority Projects

### **A725 2004 SAS 70 Type 2 Audit**

- KPMG auditing NYISO Bid-to-Bill process – progress continues.
- Audit scope period ends November 30.
- Designated as “exempt” priority meaning that resources are made available when and as needed to support the audit.

### **A683 BEA Upgrade**

- Work on the project has been put on hold since March 11 as resources were reallocated to address production issues.
- Management is reviewing whether or not to implement clustering in the legacy environment this close to SMD go-live.
- The resource requirements and risks may be too high to justify going forward with the implementation at this time.
- A final decision concerning implementation will be made in the next week.

### **A573 SMD 2.0 Internal NYISO System Implementation**

- MIS interfaces are in Phase E – Project System Operation/Functional Test Phase.
- BAS re-bills are in Phase E – Project System Operation/Functional Test Phase.
- MIS rules changes are in Phase E – Project System Operation/Functional Test Phase.
- BAS rules changes are in Phase E – Project System Operation/Functional Test Phase.
- Upload/Download is in Phase E – Project System Operation/Functional Test Phase.
- Bid Post is in Phase E – Project System Operation/Functional Test Phase.
- The PTS replacement is in Phase D – Build/Unit-Sub System Test.
- Price Verification is in Phase E – Project System Operation/Functional Test Phase.
- MMRD Replacement is in Phase E – Project System Operation/Functional Test Phase.
- Probe support is in Phase D – Build/Unit-Sub System Test.
- The new Load Forecaster is in Phase E – Project System Operation/Functional Test Phase.

### **A574 SMD 2.0 ABB System Implementation Support**

#### Factory Acceptance Testing:

- The ABB Factory Acceptance Testing (FAT) for Phase 2a software (functional components) was completed on May 28th. This milestone represents that the NYISO has successfully executed the application functional test procedures for features as specified in the project Technical Specification.
- By completing the “Phase 2a FAT Complete” milestone before the end of May, ABB has achieved a significant project milestone.
- The number of defects discovered during the Phase 2a FAT, and the severity of those defects, are significantly lower than those found during the Phase 1 exercises. ABB has supplied fixes, or acceptable schedules for fixes, for all identified software defects.

- The next round of acceptance tests started on June 1st and includes integration tests designed to validate system performance, recovery, and stability.

Market Trials:

- Market Participant sandbox testing has been successfully proceeding for Upload / Download and Web Interfaces since late April.
- A significant number of MPs have participated in the sandbox testing. Customer Relations has been monitoring test activities and training records for all MPs. Customers not participating at targeted levels have been contacted.
- Internal NYISO integration testing has been continuing for several months. These tests include an extensive battery of tests to validate integration between the ABB and NYISO system software.
- The next phase of Market Trial exercises will include a simulated Day Ahead Market starting during the third week of June. These tests will be the first iteration of interactive market simulation with MPs.
- Interactive Market Trial activities will continue through mid-August with exercises of continually increased scope and intensity.

Department Readiness:

- Dispatcher training cycles have been formally initiated. All required Operations staff will participate in a structured training program to meet readiness criteria.
- Internal NYISO department representatives have been meeting to ensure that departmental processes and procedures are revised to meet the SMD market changes, and that staff training requirements are fulfilled.

**A688 Inadvertent Package Replacement**

- Project is now in Phase G - Closure.
- Deployed successfully on June 30.

**A697 Auto Sys Replacement**

- Project script development is complete.
- Unit testing of the scripts is near complete and end user testing has officially begun.
- Control M servers are clustered for failover and recovery.
- Testing failover from cluster to cluster was successfully testing.
- Site failover testing is scheduled for July 12-13.

Next Steps:

- Continue to track progress on all testing tasks.
- Continue coordination efforts with the other SMD project managers in order to integrate all work and testing schedules.

**A696 SMD-DAC**

- All development is complete and testing is underway.
- The project team continues tracking open SPR's with ABB and working to get them fixed and retested.
- Mapboard point-to-point testing is being coordinated with the Operations group as well as the SMD teams.

Next Steps:

- Continue to track progress on all pending SPRs.
- Continue coordination efforts with the other SMD project managers in order to integrate all work and testing schedules.

### **A667 Scarcity Pricing in SMD**

- This project is required for performing Scarcity Pricing calculations in SMD2.
- FRS approval complete.
- Code development in process
- Scheduled for SMD integration in August.

### **A710 SMD Web Environment**

- Final Configuration of all SMD Production Web and Staging Web environments has been completed.
- SMD2's marketplace.nyiso.com, bidpost.nyiso.com and mis.nyiso.com have successfully supported the first exercise in the Market Trails. Further deployments to the Market Trial environment are planned as enhancements continue.
- 90% of SMD's OASIS Web Posting are complete, and have been deployed to support Market Trials. Phase E QA activities will resume once the SMD2 EMS and BMS systems are generating production-level quantities of data.
- Phase D Development activities have completed for the billing information changes to bidpost.nyiso.com (i.e., the download templates to temporarily replace Customer Settlement Statements). Phase E is targeted for completion by end of July.

### **A709 Reserve Pickup Reporting**

- Project is currently in Phase E - System Operational / Functional Test.
- Still waiting resolution of SMD2 PI tags and PI data issues.
- Scheduled deployment with SMD.

### **A577 SMD2 Integration**

- While project activities remain in Phase D for additional development and Phase E for continued QA Testing, there are Market Trial versions of the EAI interfaces currently deployed to production to actively support the Interactive Market Trial exercises.
- The preMGF file interface for Transmission Owners has completed Phase E's QA activities; TO's are scheduled to test connectivity to the new SMD FTP site. Phase D development for the DA Operating Plan will resurrect in July after the conclusion of all FAT activities, for inclusion in the Market Exercise 3.
- The EAI PI interface to provide actual load values to the Load Forecast application is supporting the Interactive Market Trial exercises. Further revisions are anticipated as the PI system implementation progresses.
- The Price Verification interface (Ph II) for LECG is currently supporting the Interactive Market Trial exercises, feeding the exercise results to LECG. Definition and development of the Phase III interface continues.

### **A729 MIS / BAS Cluster and Site Failover**

- Clustering has been postponed until a later date.
- Failover includes hardware mirror for MIS/LF & BAS/HIST, DataGuard for MIS/LF & Oracle Forms failover.
- Configuration of Hitachi TruCopy mirror was completed.
- MIS DataGuard configuration complete for production systems.
- DataGuard of QA systems in progress..

### **A690 Grouped Units**

- FRS approval complete
- QA testing in progress.
- Scheduled for SMD integration in July.
- Scheduled Legacy deployment date is August 10.
- For prioritization, this project is considered part of the Billing Automation projects.

### **A600 Open Billing Issues**

- The Billing Issues Group (BIG), chaired by the CFO, is responsible for resolving all identified billing issues. The A600 project was established to ensure timely action on internal billing issues (not including external items such as bad or missing metering data). Incentive Goal 7 tracks performance on the timely correction of these internal billing issues. The table below shows the total number of open billing issues coincident with the last BIG meeting, the meeting a month prior and the meeting six-months prior. Note that the four issues currently open are non-IT issues. Two pertain to FERC regulatory actions; two, to ongoing disputes between market participants.

<b>A600 – Open Billing Issues Status</b>			
<b>Number of Open Issues</b>	<b>4/6/23/04</b>	<b>5/26/04</b>	<b>12/26/03</b>
Total Goal 7 Issues	6	2	2
Total Non-Goal 7 Issues	5	4	6
Total Issues	11	6	8

### **A630 Automate Voltage Support Billing Calculation**

- Project is in Phase B – Requirements Development however, the ability to move forward with the project is dependent upon the availability of resources.
- For prioritization, this project is considered part of the Billing Automation projects.

### **A687 Automate Local Black Start Calculation**

- Project is delayed pending availability of resources
- For prioritization, this project is considered part of the Billing Automation projects.

### **A636 85/15 Schedule 1 Split - Phase 1**

- This project has been placed on hold pending the availability of resources.
- Customer Settlements will continue to calculate this component of customer bills manually until a software solution is made available.
- For prioritization, this project is considered part of the Billing Automation projects.

### **A689 Store Intermediate Billing Calculation Data**

- The project is currently on hold.

### **A676 Automate DAM Congestion Shortfall Calculation**

- Automation of the billing process is delayed pending availability of resources.
- For prioritization, this project is considered part of the Billing Automation projects.

**A619 Controllable Tie Lines Scheduling & Pricing**

- Project is currently in Phase C – Design
- FRS sign-off by VPs completed.

**A707 Process to Enhance the Settlement Cycle**

- Project requirements are currently being defined.

**A675 Billing Simulator**

- Use cases completed in April for first phase.
- Demo of Initial Version V0.2 completed in May.
- Requirements in Final Phase.

**A708 Consolidate NYISO Offices**

- Development of a detailed layout (Phase II Lamb Report) is in progress.
- Site Selection process is continuing.
- Additional options and cost analysis (ie a new ACC only) are being evaluated.
- An ISO questionnaire was sent to all ISOs concerning infrastructure and security issues.

**A724 PCC Modifications – Security**

- Phase I includes work in the Lobby and Guard House at the PCC and is in progress.
- Site work around the PCC has been approved and is proceeding. This work includes a berm, new sidewalk access and landscaping.
- Phase I and site work is expected to be completed in early September.

**A734 Guard Deployment – 24 x 7**

- Security stations have been set up at all four NYSIO facilities.
- The new security system (Diamond II) has been configured and rolled out to Wolf, Annex and Washington Ave. offices.
- Guards have been deployed at all facilities.
- The security system will be rolled out to the PCC upon completion of the Guard House.

**A737 Migration to New Facility**

- A preliminary project plan has been developed.
- Advisory committees have been identified to break down the work of the migration and develop a detailed plan.
- Discussions with third parties are in progress to generate cost estimates for the migration.

**A739 Capital Improvements at PCC in Guilderland**

- A preliminary report has been written identifying possible modifications to be made.
- A five-year capital improvement plan is begin developed.

**A649 Oracle Financials 9i Upgrade**

- This project includes upgrading the Oracle Financials application to 11i, upgrading the database to 9i, and moving application & data to new hardware.
- Project on hold pending assessment by outside consultants beginning July 12.



### **A732 Oracle Forms Upgrade to 6i**

- FRS draft pending approval.
- Legacy Forms 6i server upgrade completed.
- SMD2 Forms to be recompiled under 6i week of July 12.
- Legacy QA testing 90% complete, user testing in progress.

### **A658 Facilitated Checkout**

- ISO-NE checkout service deployed to production in late May (now available for NYISO production use).
- ISO-NE now using NYISO checkout service in production checkout application with excellent reviews.
- IMO and HQ plan to have checkout service in production by mid-July.
- Project team working with NYISO Operations to identify a convenient time to deploy Facilitated Checkout display to the NYISO control room in July.

### **A543 UCAP Market Automation**

- Project is currently in Phase E – Construction Phase.
- Coding by contractor was completed on June 30.
- QA testing of the delivered builds is underway.

### **A541 TCC Online Auction Automation**

- Project team has been identified.
- Development of use cases is underway.

### **A706 Develop a Virtual Regional Dispatch**

- Scope and project requirements/deliverables are not yet defined.

### **A664 DSS Enhancements V**

- Completed several enhancements to reduce data processing time
- Alternate Data Delivery (ADD) Phase 1
  - Held additional sessions with MPs to discuss impact of ADD
  - Distributed Revised Technical Bulletin 127
  - Team continue to test data validation and load testing. Delays due to QA
  - Deployment scheduled for July 7
- Grouped Units modifications
  - Legacy track delayed due to undergen, zero pts issues, backfill and other issues
  - Built 2nd instance of QA datamart to reduce risk of multiple tracks in QA.
  - Deployment date unknown
- DSS/SMD 2 Integration
  - Completed requirements, working on Design
  - Currently behind schedule as resources assigned to redesign work to accommodate Grouped Units and ADD.
  - Potential risk of requirements changes as result of market trials.
  - Deployment planned for September 15
- Training and Mentoring:

- Quickstart Mentoring program: 80 % completed with Customer Settlements, Continue working with Market Monitoring, Started sessions with Credit and other internal departments
- Conduct DSS Introduction and Intermediate trainings (both internal and external sessions).
- Completed DSS Marketing Brochure, awaiting approvals.

#### **A700 Computer System Availability Monitoring**

- Scope and requirements have yet to be fully defined.

#### **A699 MDEX Enhancements**

- Scope and requirements have yet to be fully defined.

#### **A704 Operational Information to the Marketplace**

- Scope and project requirements/deliverables are not yet defined.

#### **A705 Inter-ISO Standards for Market Messages**

- Scope and requirements have yet to be fully defined.

#### **A740 Documentum - IT Implementation**

- SOWs for both Trinity and Structure have been approved.
- Scope of this phase was finalized and includes both IT and Customer Technical Services.
- The FRS and SDS have been approved.
- A detailed project plan has been developed.
- Development and knowledge transfer to NYISO resources is underway.

#### **A703 SW Development Lifecycle Tools**

- Bearing Point was contracted to perform an assessment of SW development lifecycle.

#### **A701 New Technology Initiatives**

- Scope and requirements have yet to be fully defined.

#### **A657 OSS SMD2 Support (15-Minute Schedules and ICAP Prescheduling)**

- Development complete. Targeted for integration with SMD SAT testing.

#### **A702 Enhanced Market Security**

- Scope and requirements have yet to be fully defined.

### **Studies & Training Projects**

The NYISO Projects Portfolio (Gantt chart) also shows a number of projects under the category Studies and Training. These projects are internal to the NYISO organization and for that reason their individual status and priority is not included in this report.