

# **NYISO SMD Project Report**

**March 2003**

## **Highlights**

- **Documents / agreements required for contract finalization are complete.**
- **Project tracking on schedule for design phase for both ABB software and NYISO existing system customizations.**
- **Major hardware components were specified and ordered according to schedule.**
- **Team transition and staffing activities proceeding according to plan.**
- **Project financial status below budget / plan. Variance mostly due to timing of invoices and issuance of purchase orders.**

**Summary:**

The project team remains focused on continuation of technical design and review activities. The ABB design team has been submitting detailed design specifications for review to the NYISO team according to schedule. The internal design team has started requirements definition activities for the MIS and BAS applications. The project leadership team has recently participated in rigorous data gathering activities in support of the contract finalization process. The major components of the Project Development System (PDS) have been delivered and accepted at the NYISO. Construction activities at the Wolf Road facility are initiated, but have been delayed due to communication problems presented by the service provider.

Task	Status	January							February							March							April							May							June							July							Issues, (Updates)
		7	14	21	28	4	11	18	25	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28																				
<b>Pre-Contract Activities</b>																																																			
Technical Specification Development	Green	√																																																	
Contract Negotiation and Finalization	Green	√																																																	
BOD Approval	Green	√																																																	
PDS Delivery and Acceptance	Yellow																																Major components received, accepted.																		
<b>Project Design Activities (Phase 1)</b>																																																			
NYISO Review and Approval of FDS	Green																																																		
NYISO Review and Approval of FDS (RTS)	Green																																																		
<b>Project Development Activities (Phase 1)</b>																																																			
SCUC Port to Ranger	Green																																																		
RTC Implementation	Not Started																																																		
RTC-AMP Implementation	Not Started																																																		
RTD Implementation	Not Started																																																		
Ranger Custom Implementation	Not Started																																																		
<b>MIS/BAS Support Modifications</b>																																																			
Functional Requirements	Green																																																		
Technical Design	Not Started																																																		
Build / Unit Test	Not Started																																																		
<b>Project Hardware Activities</b>																																																			
Procure, Install, Configure Server HW (ABB)	Green																																																		
Procure, Install, Configure Network HW (ABB)	Green																																																		
Procure, Install, Configure All HW (ABB)	Not Started																																																		
Deliver / Accept PCC Hardware at NYISO	Not Started																																																		
Deliver / Accept ACC Hardware at NYISO	Not Started																																																		
Deliver / Accept QAS1A Hardware at NYISO	Not Started																																																		
Deliver / Accept All Hardware at NYISO	Not Started																																																		
<b>EAI / Integration Activities</b>																																																			
Security Architecture Design	Not Started																																																		
Job Scheduling Design	Not Started																																																		
EAI Business Architecture Model	Not Started																																																		
EAI Environment Setup / Configuration	Not Started																																																		
<b>Project Test Activities</b>																																																			
Pre-FAT Test Activities at ABB	Not Started																																																		
Develop / Accept FAT Test Plans	Not Started																																																		
Factory Acceptance Tests at ABB	Not Started																																																		
Develop / Accept SAT Test Plans	Not Started																																																		
Develop Cut-over Test Plans	Not Started																																																		
Site Acceptance / Market Trials at NYISO	Not Started																																																		

**Status Legend:** ■ On-track ■ Some issues ■ Critical ■ Not started ■ Delayed ■ Delayed w/some risk ■ Delayed and Critical ◆ Contract Milestone ◆ Payment Milestone

**Project Risks**

Risk	Prob.	Severity	Mitigation
1 ABB financial situation	Low	High	Contract terms include proper financial assurances.
2 Wolf Road staff relocation	High	Low	Identify alternate staff moves pending construction.
3 NYISO software development not ready for FAT	Medium	Medium	Develop modular FAT plan; integrate at market trials.
4 Design incompatibility with existing systems	Medium	Medium	Interface design for MIS / BAS must be reviewed.
5			
6			

**Project Milestones**

Completed	Missed
Contract documents finalized.	
5 Design specifications reviewed.	
5 Design specifications approved.	
2 Staff Hired; 2 Offers extended.	

**Hot Issues**

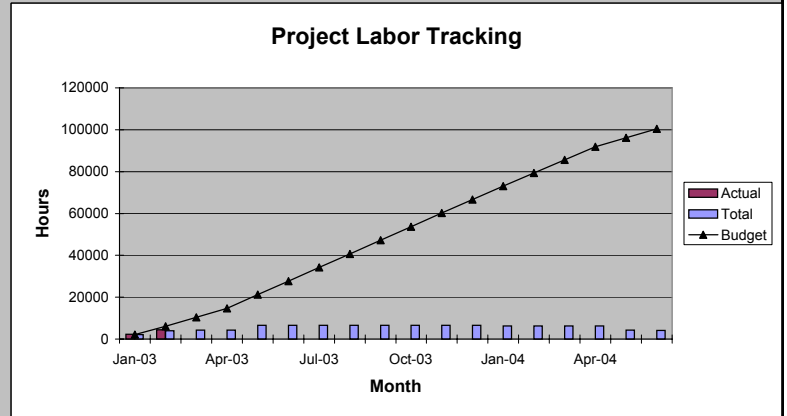
Urgency	Description	Responsible	Due date
■	<p><b>Contract Finalization</b> Work effort to finalize details of the contract have proceeding according to schedule. Team has finalized documents with ABB, including Statement of Work, Payment Schedule, Master Contract, Project Schedule, and other relevant attachments and addendums.</p> <p><b>Next Step:</b> Signed contract.</p>	Ken Fell	12-Mar
■	<p><b>Staff Augmentation / Transition</b> Team ramping and staffing activities have proceeded according to schedule. Hiring activities have yielded several excellent candidates, and transition plans for existing staff have been managed consistent with other project schedules.</p> <p><b>Next Step:</b> Continue recruiting according to hiring plan.</p>	Rich Dewey	Ongoing
□			

**Financial Status:**

The project team continues to ramp up in terms of both NYISO employee participation and contractor involvement. Significant project financial milestones include the order of the long lead time HP hardware (January) and the order of the major network components (February). Total project spending lags forecasts due to timing of invoices, and number of contractor openings that have not yet been filled.

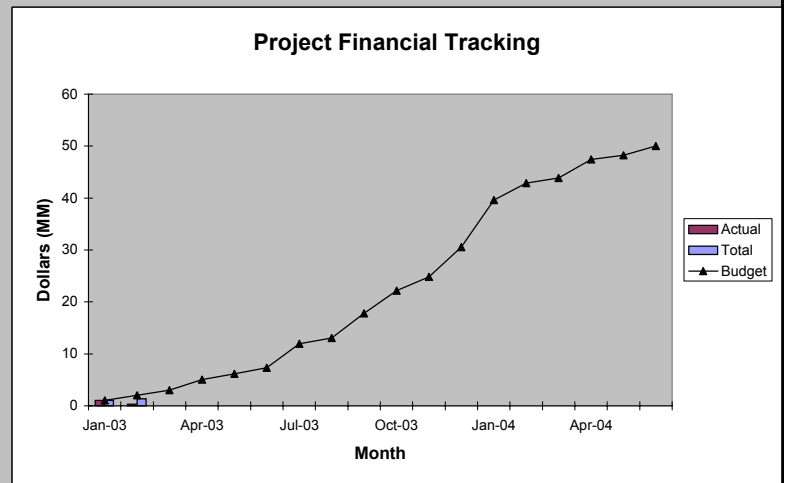
**Project Labor Reporting**

Month	Actual Hours				Budget Hours			
	Internal	Ranger	EAI	Total	Internal	Ranger	EAI	Total
Jan-03	626	1658	41	2325	900	1100	200	2200
Feb-03	1760	2534	12	4306	1800	1900	200	3900
Mar-03					2000	2100	400	4500
Apr-03					2000	2100	400	4500
May-03					3000	3100	400	6500
Jun-03					3000	3100	400	6500
Jul-03					3000	3100	400	6500
Aug-03					3000	3100	400	6500
Sep-03					3000	3100	400	6500
Oct-03					3000	3100	400	6500
Nov-03					3000	3100	400	6500
Dec-03					3000	3100	400	6500
Jan-04					3000	3100	200	6300
Feb-04					3000	3100	200	6300
Mar-04					3000	3100	200	6300
Apr-04					3000	3100	200	6300
May-04					2000	2100	200	4300
Jun-04					2000	2100	100	4200



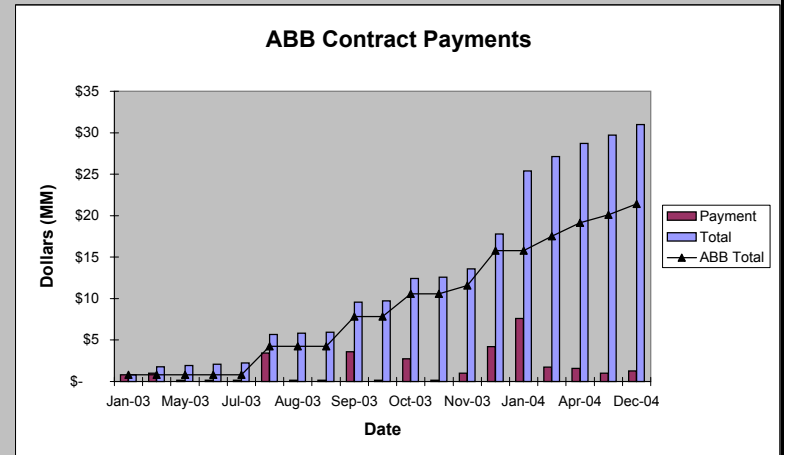
**Project Financial Status**

Month	SMD Project Costs (\$000)			
	Labor	Consultancy	Hardware	Total
Jan-03	\$121.7	\$935.6	\$0.0	\$1,057.3
Feb-03	\$233.1	\$94.1	\$0.0	\$327.2
Mar-03				
Apr-03				
May-03				
Jun-03				
Jul-03				
Aug-03				
Sep-03				
Oct-03				
Nov-03				
Dec-03				
Jan-04				
Feb-04				
Mar-04				
Apr-04				
May-04				
Jun-04				



**Project Payment Milestones**

Milestone	Payment	Amount	Payee
12/31/2002	1/17/2003	\$792,836	ABB
3/1/2003	4/1/2003	\$999,992	HP (Hardware)
3/1/2003	5/1/2003	\$142,859	HP (Hardware)
3/1/2003	6/1/2003	\$142,859	HP (Hardware)
3/1/2003	7/1/2003	\$142,859	HP (Hardware)
7/21/2003	7/31/2003	\$3,450,000	ABB
3/1/2003	8/1/2003	\$142,859	HP (Hardware)
3/1/2003	9/1/2003	\$142,859	HP (Hardware)
9/15/2003	9/30/2003	\$3,607,898	ABB
3/1/2003	10/1/2003	\$142,859	HP (Hardware)
10/15/2003	10/31/2003	\$2,721,369	ABB
3/1/2003	11/1/2003	\$142,859	HP (Hardware)
11/1/2003	11/30/2003	\$1,000,000	ABB
12/31/2003	12/31/2003	\$4,220,728	ABB
3/1/2003	1/1/2004	\$7,586,105	HP (Hardware)
1/31/2004	2/15/2004	\$1,744,915	ABB
4/1/2004	4/30/2004	\$1,586,144	ABB
4/1/2004	4/30/2004	\$1,000,000	ABB
11/1/2004	12/1/2004	\$1,290,000	ABB



**Overall Project Status:**

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**ABB Development Status:**

The ABB project team has ramped steadily from the Quick Start agreement with the NYISO. Current focus by the Santa Clara team is on the detailed design specifications for the Business Management System (BMS) and the porting of the Security Constrained Unit Commitment (SCUC) product from the SPIDER platform to the Ranger platform. The Houston EMS / SCADA team has been focusing on the design of the customizations required by the NYISO to the Ranger base product and the finalization of the hardware specifications.

**NYISO Development Status:**

The NYISO development team has been in transition to this project over the previous couple months. Individual transition plans each person were executed in order to ramp the team with minimal impact to existing projects. Current activities include the design of the application interface specifications between the ABB software and the NYISO legacy Market Information System (MIS) and Billing and Accounting System (BAS). Draft versions of those designs have been created and routed for comment. In addition, significant effort has been made reviewing and commenting on the proposed detailed design specifications from ABB.

**Project Integration Status:**

Detailed project plans have been developed for the continued evolution of the Enterprise Application Integration (EAI) products within the NYISO application architecture. Included has been the integration of our project plans to use this technology to integrate our existing applications with the design of the new products to be supplied by ABB.

**Other Project Information:**

Plans to locate the entire project team to a new facility on Wolf Road in Colonie are in progress. Delays have been encountered due to difficulty in delivering network connectivity to that facility.