

# NYISO SMD2 Executive Dashboard

Monday, June 16, 2003

## Summary:

Development activities are underway at both ABB and NYISO sites; progress is tracking to plan in both instances. Test planning activities are tracking to plan with emphasis being placed on the functional role of the departmental business analysts in the market trial process. A detailed requirements matrix has been developed to trace all specified functionality through to the test plans. Contract changes that resulted from the design review process were minimal, and the cost and schedule implications of accepting them were negligible.

Task	Status	%	April		May		June		July		August		September		October		Issues, (Updates)													
			7	14	21	28	5	12	19	26	2	9	16	23	30	7		14	21	28	4	11	18	25	1	8	15	22	29	6
<b>RANGER Application Activities (Phase 1)</b>																														
2 NYISO Review and Approval of SDD	Green	10															Rescheduling activities.													
3 Ranger Custom Development	Green	50																												
<b>RTS Application Activities (Phase 1)</b>																														
5 Test and Validation of SCUC port to Ranger	Green	✓																												
7 NYISO Review and Approval of SDD (RTS)	Green	5															Rescheduling activities.													
8 RTS Development	Green	75																												
9 Port RTS to Ranger	Green	50															New port process; validation RANGER.													
<b>ABB Application Development (Phase 2)</b>																														
10 NYISO Review and Approval of FDS / STS	Not Started																													
11 ABB Build / Unit Test	Not Started																													
<b>NYISO Application Modifications</b>																														
12 SMD Interface Design (OIS&R)	Yellow	99															ABB Approval Pending.													
13 Functional Requirement Development	Green	55																												
14 Technical Design	Green	25																												
15 Build / Unit Test	Green	10															Development activities started.													
16 RT Load Forecasting Development (RER)	Green	10																												
<b>Project Hardware Activities</b>																														
17 Procure, Install, Configure Other HW (ABB)	Green	75																												
18 Deliver / Accept ACC Hardware at NYISO	Not Started																													
19 PCC Computer Room Construction	Green	5																												
20 Deliver / Accept PCC Hardware at NYISO	Not Started																													
<b>EAI / Integration Activities</b>																														
21 Security Architecture Design	Green	✓															EAI security design complete.													
22 Job Scheduling Design	Yellow	55																												
23 EAI Business Architecture Model	Green	55															Scope modified to include SMD Req.													
24 EAI Environment Setup / Configuration	Green	35															Design complete; hardware on order.													
<b>Project Test Activities</b>																														
25 Develop / Accept FAT (P1) Test Plans	Green	✓															FAT test plans complete.													
26 Develop FAT (PI) Test Procedures	Green	10															FAT test procedures started.													
27 Pre-FAT Test Activities at ABB	Green	5																												
28 Factory Acceptance Tests (P1) at ABB	Not Started																													
29 Develop / Accept MT/SAT Test Plans	Green	50															Business owner sessions started.													
30 Develop Cut-over Test Plans	Green	10															Rescheduling activities.													
31 Factory Acceptance Tests (P2) at ABB	Not Started																													
32 Site Acceptance / Market Trials at NYISO	Not Started																													
<b>Legal / Tariff Activities</b>																														
33 Develop tariff language.	Yellow	20															Schedule reworked.													
34 Review with Working Groups / BIC	Green	15															Target September 9 BIC vote.													
36 Obtain Management Committee Approval	Not Started																Target September 17 MC vote.													
37 Obtain Board Approval	Not Started																Target October BOD vote.													
38 File with FERC; receive approval	Not Started																Target October FERC filing.													

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 Rd not ready for staff or hardware	Low	Medium	Maintain presence in Wash. Redevelop facilities
3 NYISO software development not ready for FAT	Low	Medium	Develop modular FAT plan; integrate at market trials.
4 Design incompatibility with existing systems	Low	Medium	Interface design for MIS / BAS must be reviewed.
5 ABB HMI Development / Delivery at Risk	Medium	Medium	Tracking progress of other customers, early delivery.
6			

## Project Milestones

Completed	Missed
Maintenance Agreement.	
EAI Security Design.	
Factory Acceptance Test (FAT) Plan.	

## Hot Issues

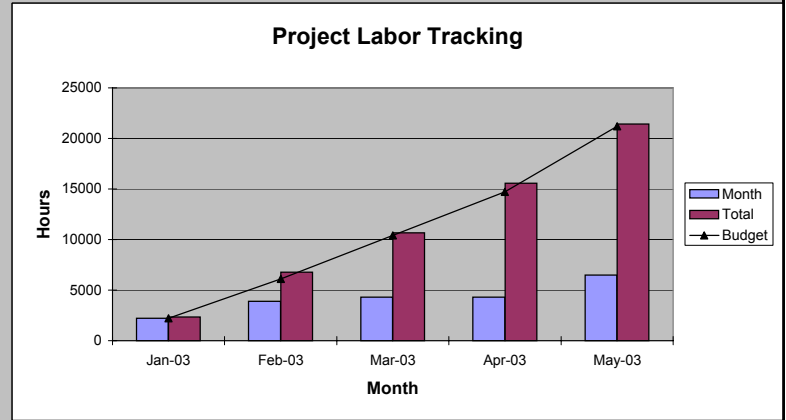
Urgency	Description	Responsible	Due date
■	<p><b>ACC Design and Plan</b> ACC Computer Hardware is scheduled for location at the Wolf Road facility. Finalization of planning activities for full fail-over of ALL the NYISO systems required to operate the grid and run the market.</p> <p><b>Next Step:</b> Document requirements / plan for ACC fail-over. Developed cutover plan for SMD2 training and ACC operation.</p>	Rich Dewey Warren Quinn Larry Farney	30-Jun
■	<p><b>Quality Assurance Resources / Test Planning Support</b> It is apparent that there is risk that we won't have adequate resource coverage to fully support QA activities. Leadership assignments have been augmented by consultants, but there is downstream risk for knowledge transfer to NYISO QA staff positions.</p> <p><b>Next Step:</b> Assess task assignments for all test activities, identify roles required and potential candidates and determine resource requirements. Review KEMA proposal and staffing for augmenting QA staff.</p>	Rich Dewey Robb Pike Tom Shattuck	30-Jun
■			

**Financial Status:**

Project financial status continues to track behind forecast. The primary reason for this imbalance is that the first large hardware lease payment has shifted from April to June due to timing of the completion of that deal and the Hewlett Packard Financial Services invoicing cycle. Several scope change proposals are being finalized by the NYISO. There are several additions and subtractions that will affect ABB contract price, but the net change will be a small percentage of project cost. The Maintenance Agreement has been finalized for system support post-deployment; the term of that deal is three (3) years.

**Project Labor Reporting**

Month	Actual Hours				Budget Hours			
	Internal	Ranger	EAI	Total	Internal	Ranger	EAI	Total
Jan-03	628	1710	16	2354	900	1100	200	2200
Feb-03	1766	2630	11	4407	1800	1900	200	3900
Mar-03	1661	2211	39	3911	2000	2100	400	4500
Apr-03	1969	2714	211	4894	2000	2100	400	4500
May-03	2555	2868	426	5849	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
<b>Totals</b>	<b>8579</b>	<b>12133</b>	<b>703</b>	<b>21415</b>	<b>46700</b>	<b>48600</b>	<b>5500</b>	<b>100800</b>

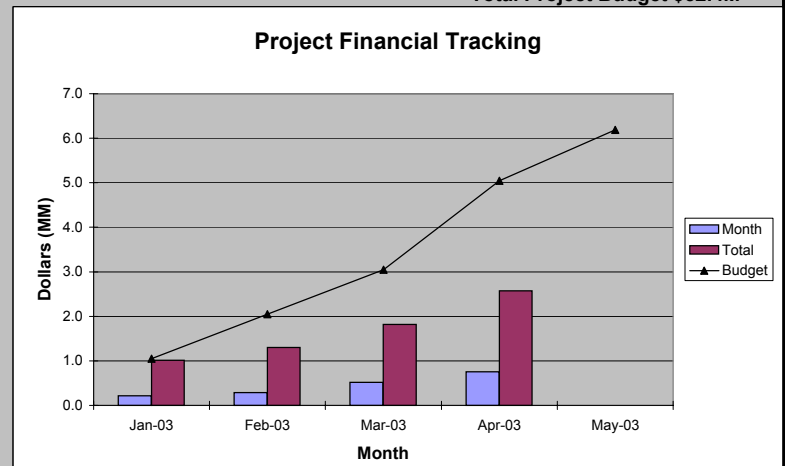


**Project Financial Status**

**\*\* Total Project Budget \$52.4M**

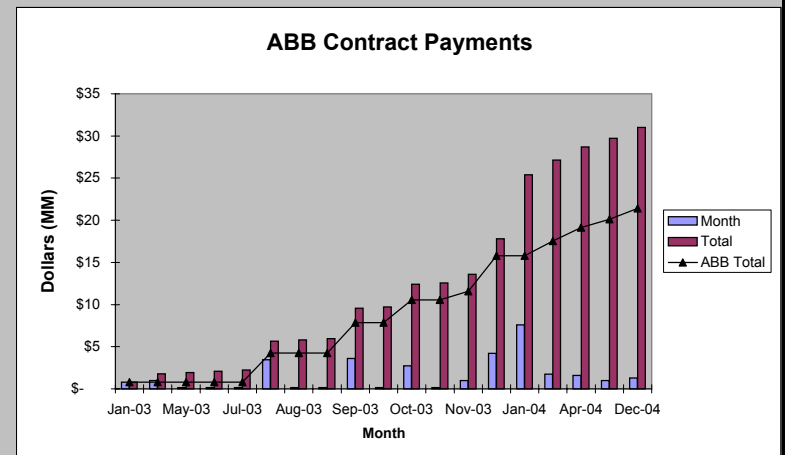
Month	SMD Project Costs (\$000)						
	Labor		Consultancy		Hardware		Month Total
	Month	Budget	Month	Budget	Month	Budget	
Dec-02	\$0.0	\$0.0	\$796.8	\$792.8	\$0.0	\$0.0	\$796.8
Jan-03	\$121.7	\$148.5	\$94.0	\$125.0	\$0.0	\$0.0	\$215.7
Feb-03	\$233.1	\$263.2	\$57.0	\$125.0	\$0.0	\$0.0	\$290.1
Mar-03	\$212.9	\$290.0	\$224.9	\$275.0	\$77.0	\$0.0	\$514.8
Apr-03	\$276.7	\$290.0	\$347.4	\$300.0	\$130.7	\$999.9	\$754.8
May-03		\$325.0		\$600.0		\$345.0	
Jun-03		\$500.0		\$600.0		\$300.0	
Jul-03		\$500.0		\$4,092.9		\$750.0	
Aug-03		\$500.0		\$750.0		\$400.0	
Sep-03		\$500.0		\$4,250.8		\$500.0	
Oct-03		\$500.0		\$3,364.2		\$250.0	
Nov-03		\$500.0		\$1,500.0		\$500.0	
Dec-03		\$500.0		\$4,720.7		\$250.0	
Jan-04		\$500.0		\$750.0		\$7,586.1	
Feb-04		\$500.0		\$2,244.9		\$200.0	
Mar-04		\$500.0		\$600.0		\$200.0	
Apr-04		\$500.0		\$3,086.1		\$0.0	
May-04		\$500.0		\$500.0		\$0.0	
<b>Totals</b>	<b>\$844.4</b>	<b>\$7,316.7</b>	<b>\$1,520.1</b>	<b>\$28,677.4</b>	<b>\$207.7</b>	<b>\$12,281.0</b>	<b>\$2,572.2</b>

**\*\* Costs do NOT include Wolf Road construction.**



**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
3/1/2004	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:**

Development activities are underway at both ABB and NYISO sites; progress is tracking to plan in both instances. Test planning activities are tracking to plan with emphasis being placed on the functional role of the departmental business analysts in the market trial process. A detailed requirements matrix has been developed to trace all specified functionality through to the test plans. Contract changes that resulted from the design review process were minimal, and the cost and schedule implications of accepting them were negligible.

**Project Financial Status:**

Project financial status continues to track behind forecast. The primary reason for this imbalance is that the first large hardware lease payment has shifted from April to June due to timing of the completion of that deal and the Hewlett Packard Financial Services invoicing cycle. Several scope change proposals are being finalized by the NYISO. There are several additions and subtractions that will affect ABB contract price, but the net change will be a small percentage of project cost. The Maintenance Agreement has been finalized for system support post-deployment; the term of that deal is three (3) years.

**ABB Development Status:**

ABB software development is nearing completion for phase I functionality. Pre-FAT site testing is underway for both the Energy Management System (EMS) software and the market applications. NYISO staff is participating in the review of these test activities by ABB staff, and are preparing for the end of development project milestone acceptance activities (payment milestone). The ABB team has restructured the testing process for the Real-Time Scheduling System (RTS) application as a result of NYISO concerns. The formal validation will be performed on the RANGER platform, after the application is ported. The third project manager meeting, and first executive review, was held on May 15th. ABB management has reinforced their commitment to delivering the project on schedule, and while schedules are extremely tight, optimism is high that we can still hit the schedule.

**NYISO Development Status:**

Software development activities for the enhancements required for the NYISO systems has started. Initial work has been focused on the database procedures to interface with the ABB OIS&R module. Several procedures are developed and ready for initial testing. Requirements activities has been focused on the DAM price verification process and PTS application replacement. RER has started work on the Real-time load forecasting application.

A Design & Implementation task force has been created to manage the change control process of incorporating the ongoing development to the existing systems into the new market environment. The activities of that group have centered around the technical issues associated with the integration planning of that endeavor.

**Project Integration Status:**

Test planning activities are making good progress. ABB has delivered the first draft of the Factory Acceptance Test (FAT) plan, and that document is under review by the NYISO. The Site Acceptance Test (SAT) and Market Trial planning process is focusing on the roles, responsibilities, and requirements of the NYISO business owners. Planning sessions have been conducted with each functional manager in the NYISO to detail the activities that will need to be supported by their individual departments in the SAT exercises.

ABB has made progress on the stabilization of the new Human Machine Interface (HMI) that is being delivered as part of this system. NYISO staff have been closely monitoring progress of other customer projects that are implementing this new interface platform to ensure positive progress.

**Other Project Information:**

The majority of the SMD2 project team has relocated to the new Wolf Road facility. Communications infrastructure has been deployed to support project team work and initial system deployment in June.

The schedule to perform the Legal and Regulatory activities necessary to achieve tariff approval has been reworked. An aggressive plan to work the rule change proposals through committee to achieve a late-Summer vote has started.