

FEDERAL TRANSIT ADMINISTRATION

PROJECT MANAGEMENT OVERSIGHT PROGRAM

Contract No. DTFT60-04-D-00012

Project No. DC-27-5006

Task Order No. 3

Grantee: METROPOLITAN TRANSPORTATION AUTHORITY
SECOND AVENUE SUBWAY (MTACC-SAS)

REGION II MAJOR CAPITAL PROJECTS

Monthly Report – Part I August 2008

Urban Engineers of New York, P.C.
350 Fifth Avenue, Suite 6024
New York, New York 10118

TABLE OF CONTENTS

Page No.

SECTION III SECOND AVENUE SUBWAY PROJECT

| | |
|---|----|
| TABLE OF CONTENTS..... | I |
| LIST OF ACRONYMS | II |
| I EXECUTIVE SUMMARY | 1 |
| A. PROJECT DESCRIPTION | 1 |
| B. PROJECT STATUS | 1 |
| C. SCHEDULE..... | 1 |
| D. COST DATA..... | 3 |
| E. TECHNICAL CAPACITY REVIEW | 4 |
| F. SYSTEM SAFETY REVIEW | 4 |
| G. MAJOR ISSUES/PROBLEMS | 4 |
| ATTACHMENT A - SAFETY CHECKLIST SECOND AVENUE SUBWAY | 5 |
| II. ACTION ITEMS – ITEMS FOR GRANTEE ACTION | 8 |
| III. OBSERVATIONS AND CURRENT ISSUES..... | 14 |
| ATTACHMENT B - SUMMARY OF CONCERNS AND RECOMMENDATIONS..... | 25 |

OST Project Status Report – separate submittal to CO, COTR and TOM via e-mail

LIST OF ACRONYMS

| | |
|-------|--|
| AWO | Additional Work Order |
| CPM | Critical Path Method |
| CSI | Construction Standards Institute |
| DHA | DMJM+Harris and ARUP |
| ESWA | Early Systems Work Agreement |
| FD | Final Design |
| FEIS | Final Environmental Impact Statement |
| FFGA | Full Funding Grant Agreement |
| FTA | Federal Transit Administration |
| MEP | Mechanical, Electrical, Plumbing |
| MTA | Metropolitan Transportation Authority |
| MTACC | Metropolitan Transportation Authority – Capital Construction |
| N/A | Not Applicable |
| NYCT | New York City Transit |
| PE | Preliminary Engineering |
| PMOC | Project Management Oversight Contractor (Urban Engineers) |
| PMP | Project Management Plan |
| PQM | Project Quality Manual |
| RAMP | Real Estate Acquisition Management Plan |
| ROD | Revenue Operations Date |
| TEAM | Transportation Electronic Award Management |
| TIA | Time Impact Analyses |
| S3 | Skanska, Schiavone and Shea |
| SAS | Second Avenue Subway |
| SCC | Standard Construction Categories |
| SSMP | Safety and Security Management Plan |
| SSOA | State Safety Oversight Agency |
| SSPP | System Safety Program Plan |
| TBD | To Be Determined |

SECTION III

SECOND AVENUE SUBWAY (SAS) PROJECT

I EXECUTIVE SUMMARY

A. Project Description

- **General Description:** The Second Avenue Subway (SAS) project will connect Manhattan's Central Harlem area with the downtown financial district, relieving congested conditions on the Lexington Avenue line. The current project scope includes: tunneling; station/ancillary facilities; track, signal, and electrical work; vehicle procurement; and all other subway systems necessary for operation. The project consists of four phases, with Phase 1 providing an Initial Operating Segment (IOS) from 96th Street to 63rd Street, and will connect with the existing Broadway Line that extends to Lower Manhattan and Brooklyn. Subsequent phases will extend the line northward to 125th Street and to the southern terminus at Hanover Square in Lower Manhattan.
- **Length:** Phase 1 - 2.3 miles from 63rd Street to 105th Street. Total Project - 8.5 miles from 125th Street and Lexington Avenue in Central Harlem to Lower Manhattan.
- **No. of Stations:** Total Project -16 new stations. Phase 1-two new mined stations located at 72nd and 86th Streets, One new cut and cover station at 96th Street, and modification of the existing 63rd Street Station on the Broadway Line.
- **Additional Facilities:** New storage tracks will be provided along the alignment and at the north and south terminals during the later phases of the project, but not as part of Phase 1.
- **Vehicles:** Total Project - Approximately 224 railcars that are 75 feet long (28 new 8-car train sets). Phase 1 - 68 new rail cars (includes 12 spares).
- **Ridership Forecast:** The full length SAS is forecast to carry 560,000 daily riders in 2030. Upon completion of Phase 1, ridership is expected to be 191,000 per the MTA's Regional Travel Forecast Model.

B. Project Status

- The project is in the Final Design/Construction phase.

C. Schedule

- **Preliminary Engineering (PE):** Entry into PE was approved by FTA on December 20, 2001; PE completed April 17, 2006.
- **Record of Decision:** Record of Decision issued on July 8, 2004.
- **Final Design (FD):** Entry into FD (Phase 1) was approved by FTA on April 18 2006.
- **Full Funding Grant Agreement (FFGA):** The FFGA was executed on November 19, 2007.

- **Construction:** The start of the Construction Phase was authorized with the approval of an Early Systems Work Agreement (ESWA) on January 5, 2007. The first construction contract, Contract 1 Tunnel Boring, was awarded on March 20, 2007. A Ground-Breaking ceremony was held on April 12, 2007. Through *August 31, 2008* construction is 3.12% complete based on total expenditures of contract 1 versus total projected construction cost (all contracts) at completion.
- **Project Complete:** Through *August 31, 2008*, total Phase 1 Project percent complete is 12.69% (based on total expenditures versus Phase 1 projected cost at completion). *Financing not included (see Section D note 2). Percent complete will be reduced when financing is included.*
- **Revenue Operations Date:**

Phase 1 (MOS)

| FFGA | Proposed FFGA as Amended | Forecast Completion | | Actual Completion |
|---------------|--------------------------|--------------------------|-----|-------------------|
| | | Grantee | PMO | |
| June 30, 2014 | N/A | June 2015 ⁽¹⁾ | TBD | TBD |

(1) Proposed MTA 2008-2013 Capital Program dated February 2008

- **Other:** The Environmental Impact Statement was approved on April 8, 2004.
- **Next Quarterly Review Meeting:** *TBD*

D. Cost Data for Phase 1

| | FFGA | | | FFGA Amendments | Current Costs Estimate at Completion | | Expenditures Thru <i>August 31, 2008</i> | |
|----------------------------------|----------------------|--------------|-----------|--------------------|--|------------|---|--|
| | (\$ Millions) (1) | (%) | Obligated | | (\$ Millions) (2) | (%) | (\$ Millions) | Percent of Current Project Cost |
| Total Project Cost: | \$4,866.614 | 100 | | N/A | \$4,866.614 | 100 | <i>551.648</i> | <i>11.33</i> |
| Total Federal share: | 1,350.692 | 27.75 | | | 1,350.692 | - | 39.682 | 0.82 |
| Total FTA share: | 1,300.000 | 96.25 | | | 1,300.000 | - | | |
| 5309 New Starts share | 1,300.000 | 96.25 | | | 1,300.000 | - | | |
| Total FHWA share: | 50.692 | 3.75 | | | 50.692 | - | | |
| CMAQ | 48.233 | 95.15 | | | 0 | - | | |
| Special Highway Appropriation | 2.459 | 4.85 | | | 2.460 | - | | |
| Total Local share: | 3,515.922 | 72.25 | | | 3,515.922 | | <i>511.966</i> | <i>10.51</i> |
| State share: | 450.000 | 12.80 | | | - | | | |
| Agency share: | 3,065.922 | 87.20 | | | - | | | |
| City share: | 0 | 0 | | | - | | | |

(1) Updated to reflect Attachment 6 (Schedule of Federal Funds) from SAS FFGA

(2) Financial data provided monthly by MTACC. *Revised cost estimate at completion received, however financing not included. Will update when financing is made available.*

The FFGA budget included a contingency of \$629.0 million. The project contingency is distributed as follows:

- AFI's and AWO's (Design, Pre-bid and Construction) - \$441 million
- Executive Reserve - \$160 million
- Real Estate - \$ 17 million
- Rolling Stock - \$ 11 million

The Project Reserve contingency of \$160 million was renamed Executive Reserve and has not been allocated to date.

E. Technical Capacity Review

- Project Management Plan (PMP): Updated PMP (Revision 5) for the final design/construction phase of the project was conditionally approved by the FTA on March 22, 2007. Updated PMP (Revision 6) was submitted to FTA in March 2008.
- Project Quality Manual (PQM) Plan: Updated PQM (Revision 2) for the final design/construction phase of the project was approved by the FTA on March 28, 2007.
- Bus Fleet Management Plan (BFMP): Updated BFMP dated February 2007 was conditionally accepted by the FTA in May 2007.
- Rail Fleet Management Plan (RFMP): Updated RFMP conditionally approved by the FTA on April 24, 2007.

F. System Safety Review

- The New York State Public Transportation Safety Board (PTSB) is the State Safety Oversight Agency (SSOA). Biennial re-certification of NYCT's System Safety Program Plan (SSPP) was completed in July 2008.

G. Major Issues/Problems

- None.

Attachment A - Safety Checklist - Second Avenue Subway

| Areas of Focus | Y/N | Status |
|---|------------|--|
| State Safety Oversight Agency | | |
| Does the state have a designated State Safety Oversight Agency (SSOA) as defined in 49 CFR Part 659? | Y | New York Public Transportation Safety Board. |
| If so, does the SSOA's authority extend to pre-revenue operations? | Y | Yes, all phases. |
| Has the SSOA established its System Safety Program Standards (SSPS)? | Y | Standards are based on the requirements of 49 CFR Part 659. |
| Has the SSOA received, reviewed, and approved the Grantee's System Safety Program Plan (SSPP)? | Y | Biennial re-certification was completed in July 2008 by the PTSB. |
| Does SSOA participate in Project Development? Participation includes things such as: review design documents; attend review meetings; and comment on the how the safety aspects of the project are being addressed. | Y | Reference section 2.2.7 of the SAS System Safety & Reliability Plan. |
| Has the SSOA performed a pre-revenue safety review of the Grantee's project? | N | No |
| System Safety | | |
| Is the Grantee's overall Safety Program properly documented in its Project Management Plan (PMP)? | Y | See PMP Section 3 |
| Do the Grantee's PMP and associated Safety Program include an appropriate safety policy adopted by its top management? | Y | By approving plan |
| Do the Grantee's PMP and associated Safety Program establish a specific organizational entity and/or individual responsible for the Safety Program? | Y | See PMP |

Attachment A - Safety Checklist - Second Avenue Subway

| Areas of Focus | Y/N | Status |
|--|------------|---|
| Do the Grantee's PMP and associated Safety Program specify staffing requirements, procedures and authority for the safety activities? | Y | See PMP Section 3 |
| Do the Grantee's PMP and associated Safety Program include a formal Safety Certification Program (SCP)? | Y | See PMP and SAS System Safety & Reliability Plan. |
| Do the Grantee's PMP and associated Safety Program include the development/use of a Safety Design Criteria Manual (DCM) or equivalent documents? | Y | See DCM Chapter 26 and SAS System Safety & Reliability Plan. |
| Has the Grantee developed and the SSOA approved the Grantee's SSPP? What is the status of this process between the Grantee and SSOA? | Y | Biennial re-certification was completed in July 2008 by the PTSB. |
| Is the Grantee implementing its Safety Program as defined in the PMP? Are the safety milestones being met? (Note: This assumes that the Safety Program is properly documented in the PMP.) | Y | See Project Schedule |
| Construction Safety | | |
| Is the Grantee's Construction Safety Program (CSP) documented in the PMP? | Y | Included in the Construction Phase PMP. |
| Has the Grantee implemented its CSP? | Y | CSP is on-going. Toolbox meetings are held to acquaint personnel with the safety requirements as defined in the General Specification. MTACC and contractor's safety personnel and the OCIP representative continue to monitor the site for compliance. Safety is discussed at each Job Progress Meeting. |

Attachment A - Safety Checklist - Second Avenue Subway

| Areas of Focus | Y/N | Status |
|---|-----|--|
| How do the Grantee's OSHA statistics compare to the national average for the same type of work? If the comparison is not favorable, what actions are being taken by the Grantee to improve its safety record? | - | The recordable incidents for the project (<i>through July 2008</i>) continue to trend below the national average (<i>2.06 vs. 5.89</i>). Lost time accidents (<i>through July 2008</i>) are trending ahead of the national average (<i>4.13 vs. 2.27</i>). Retraining and safety meetings are ongoing. |
| Is the Grantee using wrap-up insurance on this project? | Y | Owner Controlled Insurance Program (OCIP) has been implemented. Insurance coverage by Allied North America, administered by Project Technologies International, LLC. |
| Is the Grantee using safety incentives/disincentives on this project? | Y | Ongoing. |
| Shared Track | | |
| Does this project have shared track? | N | |
| Has the Grantee coordinated with FRA regarding waivers for shared track usage? | N/A | |
| Shared Corridor | | |
| Does this project include shared corridor? Please describe the geography of the shared corridor. | N | |
| What is the Grantee doing to specifically address safety concerns in the shared corridor portion of the project? | N/A | |

II. ACTION ITEMS – ITEMS FOR GRANTEE ACTION

Status of Action Items

The status of Action Items is shown in the following summary chart.

Note: Items marked with a “C” in the “PMO Contractor Status” column will be dropped from future reports.

Key Item

2. XX PMO CLIN 5 – Project Management Plan

3. XX PMO CLIN 3 – Project Monitoring

Legend

| Priority (Pr) | Grantee Action | PMO Contractor Status |
|--------------------|-------------------------------|--|
| 1 – Most Critical | D – Remedial Action Developed | R – Review On-going |
| 2 – Critical | A – Remedial Action Approved | C – Completed - No further review required |
| 3 – Least Critical | I – Action Implemented | |

Items for Action

| Pr | Item | Identification | Nature of Problem | Grantee Action | | | Comments | Status |
|----|---|--|--|----------------|---|---|--|--------|
| | | | | D | A | I | | |
| 2 | CLIN 003 Sub Task 12.a SAS-A01-1007 | Rent Stabilization Plan | FTA/PMOC has no information for MTA's Plan for Rent Stabilization. | Y | N | N | On April 16, 2008, MTA's SAS Relocation Plan was submitted for FTA review and approval. Section 3.3 of the plan addresses the loss of rent regulated apartments. | R |
| 1 | CLIN 003 Sub Task 12.a SAS-A02-0208 | Real estate challenges associated with entrance 3 at 72 nd Street Station | Two challenges were filed (State and Federal courts) with regard to the proposed relocation of entrance 3 of the 72 nd Street Station. The challenge filed in State Court has been dismissed. The challenge filed in Federal Court continues. | Y | N | N | The FEIS identified the location of entrance 3 within a building. The proposed location is on the sidewalk of the northeast corner of 72 nd Street. MTA's Real Estate is coordinating efforts with legal representatives of FTA Region 2 to resolve this issue. An alternative to the sidewalk entrance is being investigated. On July 18, 2008, MTA advised FTA that an Environmental Assessment will be prepared for entrances options at East 72 nd and 86 th streets. | R |
| 2 | CLIN 003 Sub Task 12.a SAS-A03-0208 | Real estate acquisition for 96 th Street Station | Real estate acquisition for the 96 th Street Station is 3 to 6 months behind schedule. Offer letters to property owners were sent out. Negotiation meetings are ongoing. | Y | Y | Y | Not having the real estate available will not impact the heavy civil, structural and utility relocation scope of work (Contract 2A) for the 96 th Street Station. Contract 2A was advertised on March 10, 2008 | C |

| Pr | Item | Identification | Nature of Problem | Grantee Action | | | Comments | Status |
|----|---|--|--|----------------|---|---|---|--------|
| | | | | D | A | I | | |
| | | | | | | | and bids were subsequently received on July 31, 2008. The real estate will be required for Contract 2B. | |
| 2 | CLIN 003 Sub Task 12.a SAS-A05-0208 | Contract 1 east side utility relocation lessons learned. | Lessons Learned from the west side utility relocation will be used to benefit the east side utility relocation effort. | Y | Y | Y | Document the Lessons Learned from the west side utility relocation effort, submit to the FTA, and share with the other MTACC major projects. The SAS team has finalized the Lessons Learned Program and held a training session with members of the design team. <i>Lesson Learned will be submitted to the FTA .by September 30, 2008.</i> | C |
| 2 | CLIN 003 Sub Task 12.a SAS-A06-0208 | Contract Packaging Plan | Having more contract packages as a result of splitting the existing contract packages into smaller packages will increase the time required to complete the project. | Y | Y | Y | At a project status meeting on June 27, 2008, MTACC presented a 12 contract package plan for the SAS project and was officially transmitted to the FTA in July 2008. | C |
| 2 | CLIN 003 Sub Task 12.a SAS-A08-0207 | Noise Level Compliance | MTACC's Acting President wants to make sure the SAS project complies with MTA standards for Noise Levels. | N | N | N | The Green Stickers for the equipment will be inspected. | R |

| Pr | Item | Identification | Nature of Problem | Grantee Action | | | Comments | Status |
|----|--|---|---|----------------|---|---|--|--------|
| | | | | D | A | I | | |
| 2 | CLIN 003 Sub Task 12a. SAS-A10-0808 | Technical Memo #4 | A schedule needs to be put together regarding the time frame for completion of Technical Memo #4, conducting the EA, review of the EA by the FTA, holding a Public Hearing and issuance of a Finding of No Significant Impact (FONSI) by the FTA. | Y | Y | Y | Technical Memo #4 issued on 8/27/08 | C |
| 2 | CLIN 003 Sub Task 12a. SAS-A11-0808 | Recovery Plan | MTACC needs to submit a Recovery Plan, pursuant to FFGA requirements, for FTA review and approval. Need to track the current budget against the FFGA budget and add financing costs as a line item to the Current Budget Summary. | N | N | N | Completion anticipated 9/30/08 | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A12-0808 | Triennial Review | MTACC needs to respond to the action items generated as a result of the FTA's Triennial Review. | N | N | N | Completion anticipated 10/24/08 | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A13-0808 | Increase in cost estimate and Contract Packaging Plan | Reasons/justifications for the budget increase of \$297 million from \$4.05 billion to \$4.347 billion must be provided to the FTA. What was it due to? What are the benefits resulting from adding \$297 million more to the budget and breaking into 12 contracts. Revised cost | N | N | N | PMOC is expecting MTACC to respond in early September 2008 with a completion date. | R |

| Pr | Item | Identification | Nature of Problem | Grantee Action | | | Comments | Status |
|----|--|----------------------------|---|----------------|---|---|---|--------|
| | | | | D | A | I | | |
| | | | <i>estimate in the Standard Cost Categories must be provided.</i> | | | | | |
| 3 | CLIN 003 Sub Task 12a. SAS-A14-0808 | Track Alignment | <i>Provide the FTA with estimated savings on going from 3 tracks to 2 tracks at 72nd Street and on the revised alignment. The Rail Fleet Management Plan should be updated.</i> | N | N | N | <i>Completion anticipated 9/2008</i> | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A15-0808 | FFGA Baseline Schedule | <i>Combined the FFGA baseline schedule with the proposed schedule.</i> | N | N | N | <i>Completion anticipated 9/2008</i> | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A16-0808 | Risk Assessment | <i>Risk Assessment Workshop needs to be scheduled.</i> | N | N | N | <i>Risk Assessment is scheduled to resume in 9/2008.</i> | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A17-0808 | Rolling Stock Procurement | <i>The decision to utilize 75 foot rail cars vs. 60 foot rail cars is being re-evaluated. MTACC should include the status of the procurement of rolling stock in its monthly reports and as an agenda item for future quarterly meetings.</i> | N | N | N | <i>Implementation is anticipated in 12/2008</i> | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A18-0808 | Contingency Drawdown Curve | <i>The change in the Contingency Drawdown Curve, particularly the latent contingency, needs to be clarified. Why \$80 million?</i> | N | N | N | <i>Meeting scheduled with PMOC to resolve the difference.</i> | R |

| Pr | Item | Identification | Nature of Problem | Grantee Action | | | Comments | Status |
|----|--|--|---|----------------|---|---|---|--------|
| | | | | D | A | I | | |
| 2 | CLIN 003 Sub Task 12a. SAS-A19-0808 | Schedule -Final Design and Real Estate | A Final Design and Real Estate acquisition efforts should be reflected in an integrated schedule. | N | N | N | DHA and MTACC will meet in 9/2008 to discuss the issue. | R |
| 2 | CLIN 003 Sub Task 12a. SAS-A20-0808 | Additional Work Orders | The status log of Addition Work Orders should reflect MTACC's estimate of the cost and time impact. | Y | Y | N | Implementation is anticipated in 9/2008. | R |

III. OBSERVATIONS AND CURRENT ISSUES

A. GENERAL AGENCY ASSESSMENT

MTA Capital Construction (MTACC) Company is a public corporation with a specific mission to plan, design and construct major current and future MTA system expansion projects, including the Second Avenue Subway (SAS) project. MTACC has engaged the services of a design consultant, DMJM+Harris and ARUP (DHA), and a consultant construction management services firm, PB Americas, to assist in its management of the project by supplementing MTACC staff. MTA's Real Estate Department is taking the lead in the acquisition of property required for the project.

In establishing its 2008 to 2013 Capital Program Budget (subsequent to the FFGA), MTA conducted a 30-day review of its expansion projects currently underway (SAS Phase 1, ESA, Fulton Street Transit Center, and the South Ferry Subway Station). The review was completed in February 2008 and resulted in three major actions: completion dates will be extended to allow for smaller contracts thus avoiding cost escalation due to single bidders on big contracts; project budgets will be increased to reflect market conditions; and the exploration of ways to mitigate rising cost without compromising the transportation benefits of the projects will be ongoing. SAS Phase 1 was impacted in that the ROD was revised from June 2014 to June 2015. The PMOC could not substantiate the revised ROD because an updated integrated schedule had not been developed. The proposed 2008 to 2013 Capital Program Budget also shows a \$297 million increase in the total project cost. Details were subsequently provided in a revised construction integrated schedule and cost estimate received by the PMOC on July 21, 2008 and July 31, 2008 respectively. Both the schedule and cost estimate reflected a repackaging plan of 12 construction contracts. Allocation of the cost to the Standard Cost Categories (SCC) is still outstanding. *At the FTA Quarterly Meeting held August 12, 2008, MTACC accepted the action item to provide the FTA with the reasons/justifications for the budget increase; what was it due to; what are the benefits resulting from adding \$297 million more to the budget and breaking into 12 contracts; and to provide the cost estimate in the Standard Cost Categories [Ref: SAS-A13-0808]. PMOC's analysis of the schedule, cost estimate and project scope will be addressed in the Risk Assessment which is scheduled to resume in September 2008.*

B. BUDGET/COST STATUS

The MTACC updated the SAS Project Phase 1 cost estimate to address the concerns noted during the 2007 Risk Assessment process. Adjustments were made to increase the unallocated contingency, real estate cost, and support an additional 6 months' float. The MTACC submitted the cost estimate and its various attachments to the FTA as required by the FFGA application. This effort was based on having 6 contract packages. Total project cost was \$4,866,614,000 and was broken down into the SCC as shown in the chart below.

| Standard Cost Category (SCC) # | Description | Year of Expenditure (YOE) \$000 |
|---------------------------------------|--|--|
| 10 | Guideway & Track elements | 612,404 |
| 20 | Stations, Stops, Terminals, Intermodal | 1,092,836 |
| 30 | Support Facilities: Yards, Shops, Admin Bldgs. | 0 |
| 40 | Site Work & Special Conditions | 276,229 |
| 50 | Systems | 322,707 |
| 60 | ROW, Land, Existing Improvements | 240,960 |
| 70 | Vehicles | 152,999 |
| 80 | Professional Services | 796,311 |
| 90 | Unallocated Contingency | 555,554 |
| Subtotal | | 4,050,000 |
| Financing Cost | | 816,614 |
| Total Project | | 4,866,614 |

Project Funding: On November 19, 2007, the FTA and MTA executed a FFGA in the amount of \$4,866,614,468, including finance costs. Total Federal participation is \$1,350,692,821 and Local participation is \$3,515,921,647. The table below lists the associated grants in the Transportation Electronic Award Management (TEAM) system with respective appropriated and obligated amounts as of *August 31, 2008*. Grant NY-03-0408-05 is currently being evaluated.

| Grant Number | Amount | Obligated (\$M) | Disbursement (\$M) thru August 31, 2008 |
|---------------------|---------------------|------------------------|--|
| NY-03-0397 | \$4,980,026 | \$4,980,026 | \$4,980,026 |
| NY-03-0408 | \$1,967,165 | \$1,967,165 | \$1,967,165 |
| NY-03-0408-01 | \$1,968,358 | \$1,968,358 | \$1,968,358 |
| NY-03-0408-02 | \$24,502,500 | \$24,502,500 | \$24,502,500 |
| NY-03-0408-03 | 0 | 0 | 0 |
| NY-03-0408-04 | 0 | 0 | 0 |
| NY-03-0408-05* | Pending | Pending | Pending |
| NY-17-X001-00 | \$2,459,821 | \$2,459,821 | \$2,459,821 |
| Total | \$35,877,870 | \$35,877,870 | \$35,877,870 |

Project Expenditures and Commitments: A total of \$551.648 million has been expended on the project through *August 31, 2008*, including \$5.455 million on the Manhattan East Side Access (ESA) study and related FEIS work during the 1995-1999 capital program. (See Cost and Schedule Summary on page 24.)

Project Cost Management and Control: MTACC's work breakdown structure allows for effective monitoring, control, and reporting of project costs and expenditures. The PMOC will continue monitoring MTACC's budget control system during the final design, construction, and test phases.

Change Orders: The table below shows the status of change orders for professional service and construction contracts approved as of *August 31, 2008*.

| Professional Service/Construction | Total # of Approved Change Orders | \$ Value | % of Award Value |
|-----------------------------------|-----------------------------------|----------------|------------------|
| DHA (Contract Mod.) | 2 | \$6,915,218.00 | 4.82% |
| Contract C 26002 | 32 (2 credits) | \$3,312,200.00 | 1.0% |

C. PROJECT SCHEDULE STATUS

On July 21, 2008 the PMOC was provided a revised construction schedule which reflected MTACC's latest Contract Packaging Plan, and time extensions associated with additional work orders for contract C 26002. The scope of work has now been allocated into 12 contract packages versus the initial 6. The PMOC is concerned about the delay in revenue service to June 15, 2015, which is one year past the baseline date in the FFGA, and the elimination of the 6 months of project float. *As part of the Risk Assessment, scheduled to resume in September 2008, the PMOC will perform a detailed review of the schedule in accordance with FTA guidelines.* [Ref: SAS-A16-0808].

DHA has established final design completion dates for the majority of the contract packages. *At the August 12, 2008 FTA Quarterly Meeting, MTACC accepted an action item to provide a final design schedule which will also include the real estate acquisitions.* [Ref: SAS-A19-0808]

Skanska, Schiavone and Shea (S3)'s Critical Path Method (CPM) schedule *Update No. 13 (thru July 2008)* was accepted by MTACC. The narrative however is under review. The schedule reflects time extension as a result of approved AWOs.

D. DESIGN ENGINEERING STATUS

Design Management

MTACC awarded the Final Design (FD) of Phase 1 to DHA on April 18, 2006 at a value of approximately \$143.485 million (\$116.000 million FD and \$27.485 million construction phase design support). Two (2) contract modifications associated with investigation of cost savings, repackaging and various studies have been approved (\$6.915 million), bringing the contract value to \$150.401million. Working Group meetings are ongoing to support the final design of the outstanding contract packages. Details of each contract package are presented below with completion of the final design as indicated.

- Contract -C 26002 (TBM Tunnels from 92nd St. to 63rd ST.) FD was completed in June 2006 (TBM Tunnels)

- Contract -C 26005 (96th Street Station Structure and Heavy Civil) FD was completed in February 2008.
- Contract -C 26010 (96th Street Station: finishes and installation of mechanical, electrical and plumbing equipment). FD scheduled completion date is to be determined.
- Contract -C 26015 (96th Street Station: utility restoration, construction of the above ground structure of the entrances and ancillary facilities, remaining invert slab, street, sidewalk and tree restoration). FD scheduled completion is June 2010.
- Contract -C 26006 (63rd Street Station: upgrade involving open-cut excavation for the construction of entrance and ancillary facilities, removal and upgrade of the structural elements within the existing tunnel, and traction power connection to the Lexington Avenue Station on the Q Line). FD scheduled completion is June 2009.
- Contract -C 26007 (72nd Street Station: construction of the cavern and the G3/G4 tunnels to the existing 63rd St. /Lexington Avenue Station). *The width of the station cavern has been reduced as a result of the change from three tracks to two. FTA requested an estimate of the savings expected from this change.* [Ref: SAS-A14-0808]. FD scheduled completion date is to be determined.
- Contract -C 26011 (72nd Street Station: construction of ancillary finishes, installation of station finishes and mechanical, electrical and plumbing equipment). FD scheduled completion is January 2012
- Contract -C 26014 (72nd Street Station: demolition of existing building and relocation of utilities that will prepare the site for construction). FD scheduled completion date is to be determined.
- Contract -C 26008 (86th Street Station: construction of the station cavern, entrances and access shafts). FD scheduled completion is April 2009.
- Contract -C 26012 (86th Street Station: construction of the ancillary facilities and the installation of station finishes and the mechanical, electrical, and plumbing equipment). FD scheduled completion date is to be determined.
- Contract -C 26013 (86th Street Station: utility relocation, open excavation and road decking that will prepare the site for construction). FD scheduled completion date is to be determined.
- Contract 6 -C 26009 (Systems, Power, Signals and Communications; includes the installation of the low-vibration track, aluminum rail, way-side signals, and all communication components, integration of the communication network with the NEP SCADA system an commissioning the system for revenue service). FD schedule completion date is to be determined.

The SAS team stated at the February 2008 Quarterly Meeting that they have been coordinating their designs with the local BRT project to avoid duplication of efforts.

E. CONSTRUCTION STATUS

Construction Management

On May 31, 2007, MTACC awarded a contract to PB Americas to perform Construction Management services for Phase 1 of the SAS project. As Consultant Construction Manager (CCM), PB Americas will provide services for 91 months with a not-to-exceed value of \$80.9 million. An increase in PB's budget is being projected to support the 12 Contract Packaging Plan. Although functions like scheduling or quality assurance may not be affected by the 12 Contract Packaging Plan, the number of resident engineers and inspectors will increase. The PMOC will evaluate the impact of PB's manpower.

PB is playing an active role coordinating activities among the various agencies, the contractor (S3) and the SAS Project Team. S3 concerns are being addressed with action items being assigned and tracked for closure. Working Group and Job Progress Meetings are being held bi-weekly to keep all parties informed. *MTACC was requested to add an estimate of Cost and time to the change status log.* [Ref: SAS-A20-0808].

Tunnels from 92nd to 63rd Streets

Description: Contract C 26002 provides for the construction of tunnels between 92nd Street and the existing Lexington Ave. /63rd Street Station, using a Tunnel Boring Machine (TBM) and other mining methods. It includes all preparatory work for tunneling, such as utility relocation and construction of a launch box and two vertical shafts. It also includes preparatory work for the subsequent contracts, such as maintenance of electrical and other facilities.

Schedule: Notice-to-Proceed was issued on March 20, 2007, with a July 20, 2010 completion date (duration 40 months). Relocation of the utilities on the west side of Second Avenue was completed in February 2008 approximately 3 months behind schedule. The delay was due primarily to the removal of unidentified utilities and a large sub-surface wall which were not on the plans. Lessons Learned from the west side utility relocation will be applied in the relocation of utilities on the east side. At the February 7, 2008 Quarterly Meeting, FTA requested that MTACC prepare a paper on these Lessons Learned and share them with all of the MTACC projects. In this way, all of the projects will benefit from the SAS experience. Also, MTACC was requested to submit the Lessons Learned to the FTA. *At the August 12, 2008 FTA Quarterly Meeting, the FTA requested again that the MTACC submit any documented Lessons Learned from the tunneling contract.* [Ref: SAS-A05-0208].

MTACC accepted the S3's Critical Path Method (CPM) schedule Update No. 13 (thru July 2008). The narrative however is under review. The schedule reflects time extension as a result of approved AWOs and shows a project completion date of January 24, 2011.

Construction Progress: Contract C 26002 was awarded to S3 Tunnel Contractors (a joint venture of Skanska, Schiavone and Shea) on March 20, 2007 for \$337,025,000. *During August 2008, the contractor continued installation of secant piles between 92nd and 93rd streets and excavation at intersections for guide wall installation. Con Edison and ECS/Verizon splicing crews continued work at the intersections; completed the cutting and capping of the 30-inch gas main north of the north bulkhead; mobilized and started preparations for building slurry wall rebar cages at the 102nd Street yard.*

Budget: The budget for Contract C 26002 is \$353,876,250. It is comprised of S3's bid price of \$337,025,000 plus a contingency of \$16,851,250. The contingency is 5% of the bid price and is allocated to cover additional work orders (AWOs). *Total expenditure through August 31, 2008 is \$87,969,200. Thirty-two (32) AWOs have been approved for a total of \$3,312,200. The contract is within budget with an estimate at completion of \$340,337,200 (bid price plus approved AWOs).*

Quality: MTACC has approved S3's Quality Control System. S3's quality organization is actively conducting preparatory meetings, design process control reviews, testing and inspection of material, controlling non-conforming material, and audits of suppliers. MTACC's Quality Department is providing adequate oversight of S3's compliance to its Quality Control System. *During August 2008, MTACC performed a quality oversight audit of S3's Quality Management Systems. All areas were found to be compliant.*

Safety: S3 has a proactive safety organization. Toolbox meetings are held to acquaint personnel with the safety requirements. S3 safety personnel and the OCIP representative continue to monitor the site for compliance. Violations are corrected immediately. The public is kept abreast of the activity in the work area by message boards. *The recordable incidents for the project (through July 2008) continue to trend below the national average (2.06 vs. 5.89). Lost time accidents (through July 2008) are trending ahead of the national average (4.13 vs. 2.27).* The contractor has increased the number of safety meetings and has removed individuals not following safety procedures.

96th Street Station

Description: Contracts C 26005, C 26010 and C 26015 provide for the construction of a new station at 96th Street and 2nd Avenue.

Schedule: Award Contract; C 26005 was advertised on March 10, 2008. On July 31, 2008, four offerers responded with technical and cost proposals. *Reviews of the technical proposals were held on August 13 and 15, 2008. Negotiations are under way with the offerer with the best technical approach. Contract award is anticipated in October 2008; C 26010 award January 2011; C 26015 award June 2010.*

Construction Progress: N/A

Budget: N/A

Quality: N/A

Safety: N/A

63rd Street Station Rehabilitation

Description: Contract C 26006 provides for the rehabilitation of the existing Lexington Avenue/63rd Street Station to accommodate the connection to the SAS Line.

Schedule: Award Contract C 26006 June 2010.

Construction Progress: N/A

Budget: N/A

Quality: N/A

Safety: N/A

72nd Street Station

Description: Contracts C 26007, C 26011 and C 26014 provide for the construction of a new station at 72nd Street and 2nd Avenue.

Schedule: Award Contract C 26007 February 2010; Contract C 26011 January 2012; Contract 26014 November 2009

Construction Progress: N/A

Budget: N/A

Quality: N/A

Safety: N/A

86th Street Station

Description: Contracts C 26008, C 26012 and C 26013 provide for the construction of a new station at 86th Street and 2nd Avenue.

Schedule: Award Contract C 26008 July 2010; C 26012 October 2012; C 26013 April 2009

Construction Progress: N/A

Budget: N/A

Quality: N/A

Safety: N/A

Systems, Power, Signals, and Communication

Description: Contract C 26009 provides for the construction of the tracks, signals, traction power and communication network and equipment for the SAS Phase 1 stations. Also included is the integration of the communication network with the MEP SCADA system and commissioning the system for revenue service.

Schedule: Award Contract; C26009 June, 2010

Construction Progress: N/A

Budget: N/A

Quality: N/A

Safety: N/A

F. PROCUREMENT AND CONTRACTING ACTIVITIES

Contract Packaging Plan: The scope of work associated with Phase 1 of the SAS Project was initially defined in 6 Construction Packages (contracts). The scope was then reallocated into 9 contracts as previously enumerated, but further divided into 12 packages as part of the MTA's latest Packaging Plan. MTACC took this action because contractors were having difficulty getting bonding on contracts valued greater than \$400 million. Contracts 2, 4 and 5 exceeded the \$400 million level. In February 2008, the PMOC was informed that MTACC was investigating the feasibility of reallocating the project scope into additional construction packages (value not to exceed \$300 million).

On March 21 and 22, MTACC held a Peer Review Workshop made up of senior construction personnel from both the SAS Team and outside industry. The purpose was to compare the 9 contract plan against a 13 contract plan that had been developed in February and March 2008, and determine the optimum number of contracts to minimize both market risk and construction risk. Although the workshop presented a 9 or 10 package plan to MTACC's upper management, it was not accepted. Based on MTACC's recent experience on other projects, a further reduction in contract package size was requested as a means of increasing competition and addressing the market risks during the risk assessment process. The SAS Team agreed on a 12 contract packaging plan, which was approved by MTACC upper management and submitted to the FTA in July 2008. [Ref: SAS-A06-0208]. *At the FTA's Quarterly Meeting held on August 12, 2008, MTACC accepted the action item to provide the FTA the benefits of breaking the scope into 12 contract packages* [Ref: SAS-A13-0808].

The PMOC has expressed its concerns regarding the additional coordination required as more contractors are brought on board, the number of contractors who would be required to work in the limited space and the possibility of additional claims if work areas are not available for follow-on contractors when scheduled. However, final judgment must await a review of the actual plan, which may have marketing benefits that outweigh the anticipated construction risks. If the scope is properly split, the total impact may be minimal. *The packaging plan will be evaluated as part of the PMOC's Risk Assessment scheduled to resume in September 2008.*

Property Acquisition and Real Estate: MTA Real Estate is handling all real estate matters related to the SAS project and is responsible for acquiring the real estate interests needed for the project. MTA's real estate acquisition process is addressed in the Real Estate Acquisition Management Plan (RAMP). The initial PMOC review determined that the RAMP did not comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act). MTACC submitted an updated RAMP during the last week of May 2007.

Following this update, FTA Real Estate met with MTA's Real Estate group to review lessons learned on the Fulton Street Transit Center project, which utilized the same process as the SAS project. The FTA sent MTA a list of the required additions in an August 13, 2007 letter. The MTA incorporated the comments into the RAMP and resubmitted it to the FTA in October 2007. The PMOC reviewed the Plan and recommended a few changes. A meeting on the lessons learned on the Fulton project was held on November 1, 2007. As a result, the SAS RAMP was revised and submitted. The FTA gave conditional approval of the RAMP (dated May 2007) on November 15, 2007. Of concern were the issues of Just Compensation and Fixtures. The MTA submitted the revised RAMP at the beginning of March 2008 and FTA approved it with the understanding that it would be revised to reflect minor clarifications noted in FTA's letter dated

March 20, 2008. On April 16, 2008, MTA's SAS Relocation Plan was submitted for FTA review and approval. Section 3.3 of the plan addresses the loss of rent regulated apartments [Ref: SAS-A01-1007].

At the February 7, 2008, Quarterly Meeting FTA was also informed that two challenges were filed (State and Federal courts) with regard to the proposed relocation of entrance 3 of the 72nd Street Station. The State Court dismissed the state challenge in May 2008. The challenge filed in Federal Court is under NEPA and names FTA, MTA, and DHA. The FEIS identified the location of entrance 3 within a building; the proposed location is on the sidewalk of the northeast corner of 72nd Street. MTA's Real Estate is coordinating efforts with legal representatives of FTA Region 2 to resolve this issue [Ref: SAS-A02-0208]. Subsequent investigation by DHA has identified an option which would eliminate the need to locate entrance 3 on the sidewalk. A bank of elevators in a building is being considered. This option was presented at a community board (Community Board 8) meeting in August 2008 and was favorably received. Environmental analyses will be conducted for the location.

Rolling Stock: *The decision to utilize 75 foot rail cars vs. 60 foot rail cars is being re-evaluated. At the August 12, 2008 FTA Quarterly Meeting, MTACC accepted an action item to include the status of the procurement of rolling stock in its monthly reports and as a agenda item for future quarterly meetings [Ref: SAS-A17-0808].*

G. INTERAGENCY AND MASTER UTILITY PLANNING

Interagency and master utility planning is progressing as defined in Section 12 of the PMP. During Final Design coordination with utility providers to develop detailed plans for facility rearrangements and integration of these plans into the construction contract documents is ongoing. Bi-weekly utility coordination meetings at the construction field office of Contract C 26002 are being held. Work orders are being issued to secure the city's assistance to the project in the areas of public works engineering, and traffic engineering.

Among the major New York City agencies that will interface with the project are: New York City Department of City Planning (NYCDCP); New York City Fire Department (FDNY); New York City Department of Transportation (NYCDOT); New York City Medical Examiner; and New York City Department of Environmental Protection (NYCDEP).

H. SYSTEM SAFETY AND SECURITY

On November 15, 2007, the FTA approved the SAS Safety and Security Management Plan (SSMP), noting however, that there was a vacancy in the Director of System Safety and Security position. As of June 30, 2008, MTACC hired a field Security Manager for its East Side Access Project and SAS has been granted access to this person's services until they hire someone in this position. The Director position has not been filled. On the SAS project, DHA's System Safety Manager is supporting the design efforts and CCM PB Americas Safety Manager is supporting construction efforts under the supervision of MTACC Chief-Quality and Safety. The SSMP is intended to provide an effective management process that applies the system safety and security discipline throughout design, construction, start-up, and operations and maintenance. The SSMP establishes the framework that the SAS Project will use to reduce hazards and vulnerabilities to the criteria specified in contract documents, as determined by MTACC.

I. RISK ASSESSMENT AND RISK MITIGATION

The SAS Project Team and the FTA's Risk Assessment Team have worked effectively in addressing issues, which could impact the success of the project. They have developed a Risk

Management Program through various workshops and mutual cooperation. The PMOC has documented the efforts of the Risk Assessment Team in various draft Spot Reports. On June 6, 2007 the PMOC forwarded the reports to FTA Headquarters for review. The PMOC will monitor the implementation of the Risk Management Program as the project progresses through the design, construction and test phases. The MTACC has identified and documented the risk mitigation initiatives in a scoping document for incorporation into the PMP. This document was reviewed by the PMOC and FTA with all concerns being resolved. The MTACC updated the PMP in February 2008, and sent an informal draft to the PMOC. A formal submission was made in March 2008. *The Risk Assessment is scheduled to resume in September 2008. Review of the July 2008 Construction Schedule and cost estimate is in progress.* [Ref: SAS-A16-0808].

J. QUALITY ASSURANCE/QUALITY CONTROL

MTACC's Quality Manager for Second Avenue has implemented a Total Quality approach for monitoring the Quality Control and Quality Assurance activities on the Project. MTACC Quality Personnel audit both the Designer's and CCM's Quality programs; then the three groups (MTACC, Designer & CCM) audit the Contractors', Subcontractors' and Suppliers' Quality programs. In addition, Contract C 26002 Quality Manager has a very ambitious Quality program that is scheduled 6 weeks into the future and lists the audits and inspections to be performed. The inspections follow the schedule of work to be performed in those 6 weeks. Materials being delivered for the work tasks are inspected prior to the work beginning and the quality of the work being performed is audited/inspected as it is being done. The status of Non-Conformance Notices and the responsibility to perform corrective actions is distributed monthly. Representatives from each quality organization meet every other week to address any quality concerns. The Quality Program is definitely proactive and doing proper oversight. *During August 2008, MTACC performed a quality oversight audit of S3's Quality Management Systems. All areas were found to be compliant.*

The PMOC conducted an audit of the SAS Schedule Control System on June 20, 2008. The results of the audit demonstrated that the SAS project generally adheres to the requirements of Section 4.2 of their PMP. There was one open item and five observations. The open item was closed in July 2008 and the observations will be implemented during the next update of the PMP.

K. COMMUNITY RELATIONS

As part of its community relations program, MTACC continues to conduct extensive public and community outreach. They have placed message boards in the construction area to show the project's status and have posted a three week look ahead of construction activities and traffic updates on the SAS website. Interested members of the public can join the SAS mailing list, call the SAS Hotline (24 hours/7 days a week), send e-mails and attend the various community meetings. Weekly meetings are being held with business owners regarding opportunities to mitigate construction impacts and address any concerns. The SAS team will be checking the Green Stickers on the S3 equipment to verify that noise levels are being monitored. [Ref: SAS-A08-0208]. *During August 2008, the SAS Project Team held a meeting with Community Board 8 to inform the residents of an option that was being considered for entrance 3 at the 72nd Street Station. The option was favorably received.*

TABLE 2 - COST AND SCHEDULE SUMMARY

| Project | Cost (in Millions) | | | | | Schedule | | | | | | |
|--|--------------------|-------------------------------------|-----------------------------------|--|--|----------|----------------|----------------------------|------------------------------|----------------------------|--|----------------------|
| | Original Budget | Latest Estimate at Completion (EAC) | Percent (%) Difference (+ or -)** | Spent Through 8/31/08 (Funding Report) | Percent (%) Complete Planned Actual | | Award/NTP Date | Original Completion Date + | Actual Forecasted Completion | Original Duration (Months) | Duration Percent (%) Difference (+ or -)** | Percent (%) Complete |
| Contract 1 - Tunnel Boring S3 Joint Venture (Skanska/Schiavone/Shea) | \$337,025,000 | \$337,025,000 | | \$87,969,200 | | 26.1% | 3/20/2007 | 9/20/2010 | 1/24/2011 | 46 months | N/A | |
| Contract 2 - 96th Street Station | N/A | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| Contract 3 - 63rd Street Station | N/A | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| Contract 4 - 72nd Street Station | N/A | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| Contract 5 - 86th Street Station | N/A | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| Contract 6 - Track and Systems | N/A | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| Contracts to Be Bid | \$2,231,975,000 | \$2,483,975,000 | 252,000,000.0 | | | | | | | | | |
| OCIP (Insurance) | \$160,000,000 | \$169,000,000 | 9,000,000.0 | \$85,312,908 | | 50.5% | | | | | | |
| TA Labor | \$28,000,000 | \$28,000,000 | | | | | | | | | | |
| Engrg. Force Account | \$42,000,000 | \$52,000,000 | 10,000,000.0 | \$1,119,244 | | 2.2% | | | | | | |
| 3rd Party Reimbursement | \$58,000,000 | \$61,000,000 | 3,000,000.0 | \$1,588,103 | | 2.6% | | | | | | |
| Artwork Allowance | \$6,000,000 | \$6,000,000 | | | | | | | | | | |
| Preliminary Engr. & EIS | 240,814,507 | \$240,518,909 | -295,597.8 | \$236,839,634 | | 98.5% | | | | | | |
| Final Design | \$169,185,493 | \$169,481,091 | 295,597.8 | \$98,697,176 | | 58.2% | 4/18/2006 | | | | | |
| Construction Mgmt. | \$86,000,000 | \$91,000,000 | 5,000,000.0 | \$3,618,465 | | 4.0% | 5/31/2007 | | | | | |
| Rolling Stock | \$157,000,000 | \$157,000,000 | | | | | | | | | | |
| Property Acquisition | \$245,000,000 | \$245,000,000 | | \$30,247,773 | | 12.3% | | | | | | |
| Contingency | \$129,000,000 | \$141,000,000 | 12,000,000.0 | \$6,255,200 | | 4.4% | | | | | | |
| Project Reserve | | \$6,000,000 | 6,000,000.0 | | | | | | | | | |
| Executive Reserve | \$160,000,000 | \$160,000,000 | | | | | | | | | | |
| Subtotal | 4,050,000,000 | 4,347,000,000 | 297,000,000.0 | 551,647,703 | | 12.7% | | | | | | |
| Financing | 816,614,000 | - | | | | | | | | | | |
| Totals | 4,866,614,000 | 4,347,000,000 | 297000000 | 551,647,703 | | 12.7% | | | | | | |
| | | | | | | | | | | | | |

Attachment B - Summary of Concerns and Recommendations

The status of PMO Contractor Concerns and Recommendations is shown in the following summary chart.

Note: Items marked with a “C” in the “PMO Contractor Status” column will be dropped from future reports.

Key Item

Subtask 11A.XX

CLIN 0002 – Technical Capacity Review

Subtask 12A.XX

CLIN 0003 - Monitor Project Development and Implementation

Legend

| Priority (Pr) | Category (Cat.) | Grantee Action (D A I) | PMO Contractor Status |
|--------------------|----------------------|-------------------------------|--|
| 1 – Most Critical | S1 – Scope | D – Remedial Action Developed | R – Review On-going |
| 2 – Critical | S2 – Schedule | A – Remedial Action Approved | C – Completed – No further review required |
| 3 – Least Critical | S3 – Safety/Security | I – Action Implemented | |
| | B – Budget | Y – Yes | |
| | Q – Quality | N – No | |

Attachment B -Summary of Concerns and Recommendations

| Pr | Item | Identification | Cat | Nature of Concern | PMO Recommendation | Grantee Action | | | Status | Status |
|----|------|----------------|-----|-------------------|--------------------|----------------|---|---|--------|--------|
| | | | | | | D | A | I | | |
| | | | | | | | | | | |

There are no PMOC Concerns and Recommendations for SAS that are not already shown in the Action Items Table.