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Attorney for the Guam Power Authority

BEFORE THE PUBLIC UTILITIES COMMISSION

IN THE MATTER OF) DOCKET NO.94-04
)
)
The Guam Power Authority's Filing)
of Quarterly Compliance Reports)
)
_____)

COMES NOW, GUAM POWER AUTHORITY and hereby files GPA's Quarterly Compliance Reports and Progress Reports for the period July to September 2009. These consist of Engineering Distribution Capital Improvement Projects for the following projects: Agana Heights, Barrigada Village, Dededo Kaiser Phase II and Phase III, Agana to Tamuning, Tenjo Diesel, Hagatna Substation, Harmon to Tanguisson, Macheche Underground, Marbo to Pagat, San Vitores to Macheche and System Stability and Relay Coordination.

RESPECTFULLY SUBMITTED this 20th day of October, 2009, by:

D. GRAHAM BOTHA, ESQ.
Legal Counsel for the Guam Power Authority

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GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

October 19, 2009

MEMORANDUM

To: Staff Attorney

Via: General Manager

From: Assistant General Manager, Operations

Subject: Compliance Reports

Please transmit the attached Compliance Reports to the PUC. The reports are for the reporting period July – September 2009.

A. E. Balajadia
A. E. BALAJADIA

Cc: CFO
Assistant CFO
Manager, Engineering



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

October 19, 2009

MEMORANDUM

To: General Manager
Via: AGMO
From: Manager, Engineering
Subject: Compliance Reports

Attached for your review are the project status reports for Engineering Capital Improvement Projects for the Quarter of July – September 2009.

Should you have any questions regarding these CIP reports, please let me know.


Melinda R. Camacho, P.E.

/attachments

Cc: CFO
Assistant CFO




GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
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Engineering Capital Improvement Projects

Submitted herewith are the July – September 2009 Progress and Compliance Reports for the following projects:

| | Project Name | Engineering Section |
|----|--|-------------------------|
| 1 | Agana Heights Pole Hardening and Reconductoring | Distribution |
| 2 | Barrigada Village Upgrading and Pole Hardening | Distribution |
| 3 | Old Dededo Kaiser Pole Hardening Phase II | Distribution |
| 4 | Old Dededo Kaiser Pole Hardening Phase III | Distribution |
| 5 | Agana to Tamuning and P202 Underground Conversion | Distribution |
| 6 | Tenjo Diesel Power Plant | Project Management |
| 7 | Water Quality Monitoring System | Project Management |
| 8 | Hagatna Substation 115 kV and 34.5 kV Breaker Replacement | Substation/Transmission |
| 9 | Harmon to Tanguisson 34.5 kV Underground Lines Conversion (FINAL) | Substation/Transmission |
| 10 | Macheche (X133) to GAA (X170) Underground Line Conversion | Substation/Transmission |
| 11 | Marbo to Pagat 34.5 kV Line | Substation/Transmission |
| 12 | San Vitores (X264) to Macheche (X130) Underground Line Conversion | Substation/Transmission |
| 13 | System Stability and Relay Coordination | Substation/Transmission |


Melinda R. Camacho, P.E.
Engineering Manager

Engineering Division
Project Compliance Report Summary
July - September 2009

| | Project Name | PUC Approval | Funding Source | FEMA Funds | Approved Budget | GPA Cost | Latest Eng'g Estimate | % Diff | Commitment to Date | Actual Expenditure | Balance of Approved Budget |
|----|--|-----------------|-----------------|-----------------|------------------|-----------------|-----------------------|---------|--------------------|--------------------|----------------------------|
| 1 | Hagatna Substation 115 kV and 34.5 kV Breaker Replacement | Y | Revenue | | \$ 2,940,000.00 | | \$ 2,940,000.00 | 0.00% | \$ 1,174,309.70 | \$ 2,906,890.30 | \$ 33,109.70 |
| 2 | Harmon to Tanguisson 34.5 kV Underground Lines Conversion | Below Threshold | FEMA/Revenue | \$ 3,667,396.00 | \$ 4,387,150.00 | \$ 719,754.00 | \$ 4,330,837.22 | -1.28% | \$ 4,330,837.22 | \$ 4,330,837.22 | \$ 56,312.78 |
| 3 | Macheche (X133) to GAA (X170) Underground Line Conversion | Y | FEMA/Revenue | \$ 1,356,753.00 | \$ 3,670,797.00 | \$ 2,314,044.00 | \$ 3,666,619.51 | -0.11% | \$ 3,051,599.49 | \$ 2,766,273.50 | \$ 904,523.50 |
| 4 | Marbo to Pagat 34.5 kV Line Conversion | Y | Excess Bonds | | \$ 3,225,000.00 | | \$ 3,700,321.30 | 14.74% | \$ 174,147.74 | \$ 174,147.74 | \$ 3,050,852.26 |
| 5 | San Vitores (X264) to Macheche (X130) Underground Line Conversion | Y | FEMA/EB/Revenue | \$ 3,596,465.00 | \$ 6,058,574.00 | \$ 2,462,109.00 | \$ 6,058,574.00 | 0.00% | \$ 5,905,409.53 | \$ 5,348,361.09 | \$ 710,212.91 |
| 6 | System Stability and Relay Coordination | Below Threshold | Revenue | | \$ 1,144,375.00 | | \$ 1,129,300.21 | -1.32% | \$ 803,221.41 | \$ 803,221.41 | \$ 341,153.59 |
| 7 | Tenjo Diesel Power Plant | Y | Bonds | | \$ 26,217,858.00 | | \$ 25,459,662.00 | -2.89% | \$ 24,679,246.00 | \$ 24,679,246.00 | \$ 1,538,612.00 |
| 8 | Water Quality Monitoring System | Y | Bonds | | \$ 1,105,000.00 | | \$ 1,110,674.00 | 0.51% | \$ 1,110,674.00 | \$ 1,110,674.00 | \$ (5,674.00) |
| 9 | Agana Heights Pole Hardening and Reconductoring | Y | Bonds | | \$ 1,685,000.00 | \$ 1,685,000.00 | \$ 5,314,685 | 215.41% | \$ 167,102 | \$ 167,102 | \$ 1,517,898.00 |
| 10 | Barrigada Village Upgrading and Pole Hardening | Y | Bonds | | \$ 1,463,000.00 | \$ 1,463,000.00 | \$ 3,334,844 | 127.95% | \$ 1,329 | \$ 1,329 | \$ 1,461,671.00 |
| 11 | Old Dededo Kaiser Pole Hardening Phase II | Y | Bonds | | \$ 905,000.00 | \$ 905,000.00 | \$ 3,123,163 | 245.10% | \$ - | \$ - | \$ 905,000.00 |
| 12 | Old Dededo Kaiser Pole Hardening Phase III | Y | Bonds | | \$ 1,072,000.00 | \$ 1,072,000.00 | \$ 2,914,856 | 171.91% | \$ 925 | \$ 925 | \$ 1,071,075.00 |
| 13 | Agana to Tamuning and P202 Underground Conversion - PUC Approval 5-30-08 | Y | FEMA/Revenue | \$ 2,911,860.00 | \$ 3,235,400.00 | \$ 323,540.00 | \$ 5,608,271.00 | 73.34% | \$ 656,332.00 | \$ 438,992.00 | \$ 2,796,408.00 |

Engineering Distribution Project Status Reports




July – September 2009



Engineering Distribution Capital Improvement Projects

Submitted are the July 2009 through September 2009 Progress Reports and Compliance Reports for the following projects:

| | <u>Project Name</u> | <u>Engineer</u> | <u>Job Order</u> |
|---|--|-----------------|------------------|
| 1 | Agana Heights Upgrading | VJS | 100009 |
| 2 | Barrigada Village Upgrade | VJS | 100015 |
| 3 | Dededo Kaiser Phase II | VJS | 100012 |
| 4 | Dededo Kaiser Phase III | VJS | 100013 |
| 5 | Agana to Tamuning & P202 Underground Conversion | EKC | 100064 |



Vincent J. Sablan, P.E.

DISTRIBUTION ENGINEERING
Project Compliance Report Summary
July 2009 - September 2009

| | Project | Approved Budget | Latest Eng'g. Estimate | Commitment to Date | Actuals | Balance of Appr'd Budget |
|---|---|-----------------|------------------------|--------------------|---------|--------------------------|
| 1 | Agana Heights Pole Hardening and Reconductoring | 1,685,000 | 5,314,685 | 167,102 | 167,102 | 1,517,898 |
| 2 | Barrigada Village Upgrading and Pole Hardening | 1,463,000 | 3,334,844 | 1,329 | 1,329 | 1,461,671 |
| 3 | Old Dededo Kaiser Pole Hardening Phase II | 905,000 | 3,123,163 | 0 | 0 | 905,000 |
| 4 | Old Dededo Kaiser Pole Hardening Phase III | 1,072,000 | 2,914,856 | 925 | 925 | 1,071,075 |
| 5 | Agana to Tamuning & P202 Underground Conversion | 3,235,400 | 5,608,271 | 656,332 | 438,992 | 2,579,068 |

MONTHLY PROGRESS REPORT

Report Date: October 15, 2009

Project: Agana Heights Pole Hardening & Reconductoring

Business Unit: 100009

Funding Source: Bond Funds

Project Description: Installation of manholes, handholes, underground conduits, underground conductors and pad mounted transformers to eliminate voltage problems and enhance system reliability.

Design: GPA Engineering

As-built/Survey Services: Duenas & Associates, Inc. (RFP 99-017) – **Completed**

Construction Contractor:

Contract Amount: \$106,920.00 2313-000 OP (Duenas & Assoc.)
\$58,080.00 6475 OP (Duenas & Assoc.)
Completed October 5, 2000

Administrative Activities: Reprogramming of funds under consideration.
Request for PUC approval of underground project withdrawn.

Construction Activities:

Project Schedule: Completion of Base Map: October 25, 2000
Planned Start Construction:
Planned Finish:

Completed to Date: Survey Base Map – Completed, Design 45%
Completed

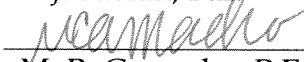
Progress Payment: \$165,000 – Base Map

Reviewed By:



V.J. Sablan, P.E.

Approved By:



M. R. Camacho, P.E.

**Agana Heights Pole Hardening and Reconductoring
COMPLIANCE REPORT
July 2009 - September 2009**

| Description of Work/Item | Approved Budget | Latest Eng'g Estimate | Commitment to Date | Actuals | Balance of App'd Budget | Remarks |
|---|------------------|-----------------------|--------------------|----------------|-------------------------|---------------------------|
| Design | | | | | | |
| In-House Labor | 15,000 | 90,000 | 1,067 | 1,067 | 13,933 | |
| Garage/Travel/Overhead/Others | 0 | 5,000 | 1,034 | 1,034 | (1,034) | |
| Survey Services (Duenas & Associates) | 150,000 | 165,000 | 165,000 | 165,000 | (15,000) | 2313/6475 OP Completed |
| Total Design | 165,000 | 260,000 | 167,102 | 167,102 | (2,102) | |
| Contractor Furnished Equipment/Materials | | | | | | |
| OmniRupter Switches | 15,000 | 0 | 0 | 0 | 15,000 | |
| 45' Concrete Poles | 200,000 | 0 | 0 | 0 | 200,000 | |
| 35' Concrete Poles | 160,000 | 0 | 0 | 0 | 160,000 | |
| Conductors | 175,000 | 0 | 0 | 0 | 175,000 | |
| Line Hardware | 80,000 | 0 | 0 | 0 | 80,000 | |
| Transformers & Accessories | 75,000 | 0 | 0 | 0 | 75,000 | |
| Pad Mounted Transformer | 0 | 21,825 | 0 | 0 | 0 | |
| Pad Mounted Switch | 0 | 180,000 | 0 | 0 | 0 | |
| Riser Termination | 0 | 3,600 | 0 | 0 | 0 | |
| 15 KV Junctions and Elbows | 0 | 61,714 | 0 | 0 | 0 | |
| 15 KV Underground Cable | 0 | 300,000 | 0 | 0 | 0 | |
| 600 V Underground Cable Ass. | 0 | 349,200 | 0 | 0 | 0 | |
| 600 V Underground Cable | 0 | 87,300 | 0 | 0 | 0 | |
| Total Equipment/Materials | 705,000 | 1,003,639 | 0 | 0 | 705,000 | |
| Construction Management | | | | | | |
| Engineering Labor | 20,000 | 20,000 | 0 | 0 | 20,000 | |
| T&D Labor | 20,000 | 20,000 | 0 | 0 | 20,000 | |
| Total Construction Management | 40,000 | 40,000 | 0 | 0 | 40,000 | |
| Construction Contractor Work | | | | | | |
| Mobilization & Demobilization | 40,000 | 0 | 0 | 0 | 40,000 | |
| Survey & Stakeout/Clearing | 30,000 | 0 | 0 | 0 | 30,000 | |
| 45' Concrete Pole Installation | 150,000 | 0 | 0 | 0 | 150,000 | |
| 35' Concrete Poles | 115,000 | 0 | 0 | 0 | 115,000 | |
| Pole Framing | 80,000 | 0 | 0 | 0 | 80,000 | |
| Primary Line Installation | 95,000 | 0 | 0 | 0 | 95,000 | |
| Secondary Line Installation | 93,000 | 0 | 0 | 0 | 93,000 | |
| Transformer Installation | 45,000 | 0 | 0 | 0 | 45,000 | |
| Installation of Service Wires | 20,000 | 0 | 0 | 0 | 20,000 | |
| Pole Numbering | 2,000 | 0 | 0 | 0 | 2,000 | |
| Pole/Hardware & Line Removal | 100,000 | 0 | 0 | 0 | 100,000 | |
| Testing & Energization | 5,000 | 0 | 0 | 0 | 5,000 | |
| Primary Handholes | 0 | 205,714 | 0 | 0 | 0 | |
| Secondary Handholes | 0 | 349,200 | 0 | 0 | 0 | |
| Primary Risers | 0 | 4,000 | 0 | 0 | 0 | |
| Switch Pad | 0 | 4,500 | 0 | 0 | 0 | |
| Pad Mtd X-fmr Concrete Pad | 0 | 24,250 | 0 | 0 | 0 | |
| Trenching | 0 | 259,700 | 0 | 0 | 0 | |
| Installation of 2-6" PVC Sch. 40 Conduit | 0 | 36,000 | 0 | 0 | 0 | |
| Installation of 2-4" PVC Sch. 40 Conduit | 0 | 270,000 | 0 | 0 | 0 | |
| Installation of 1-4" PVC Sch. 40 Conduit | 0 | 523,800 | 0 | 0 | 0 | |
| Concrete Encasement | 0 | 519,400 | 0 | 0 | 0 | |
| Asphalt/Concrete Driveway Restoration | 0 | 236,474 | 0 | 0 | 0 | |
| Pad Mounted X-Fmr Termination | 0 | 21,825 | 0 | 0 | 0 | |
| Riser Termination | 0 | 6,000 | 0 | 0 | 0 | |
| 15 kV Junction & Elbow Installation | 0 | 46,286 | 0 | 0 | 0 | |
| 15 kV U/G Cable Installation | 0 | 90,000 | 0 | 0 | 0 | |
| 600 V U/G Cable Installation | 0 | 185,076 | 0 | 0 | 0 | |
| 600 V U/G Cable Termination | 0 | 12,440 | 0 | 0 | 0 | |
| Trenching | 0 | 162,960 | 0 | 0 | 0 | |
| Installation of 2" PVC Sch. 40 Conduit | 0 | 325,920 | 0 | 0 | 0 | |
| O/H to U/G Service Entrance Conversion & Pedestal | 0 | 582,000 | 0 | 0 | 0 | |
| Restoration | 0 | 145,500 | 0 | 0 | 0 | |
| Total Construction | 775,000 | 4,011,045 | 0 | 0 | 775,000 | |
| TOTAL | 1,685,000 | 5,314,685 | 167,102 | 167,102 | 1,517,898 | |

MONTHLY PROGRESS REPORT

Report Date: October 15, 2009

Project: Barrigada Village Upgrading and Pole Hardening

Business Unit: 100015

Funding Source: Bond Funds

Project Description: Installation of manholes, handholes, underground conduits, underground conductors and pad mounted transformers to eliminate voltage problems and enhance system reliability.

Design: GPA Engineering

Construction Contractor:

Contract Amount:

Administrative Activities: Reprogramming of funds under consideration.
Request for PUC approval of underground project withdrawn.

Construction Activities:

Project Schedule: Planned Start Construction:
Planned Finish:

Completed to Date: Survey Base Map - Completed, Design 25%
Completed

Progress Payment:

Reviewed By: 

V.J. Sablan, P.E.

Approved By: 

M. R. Camacho, P.E.

**Barrigada Village Upgrading and Pole Hardening
COMPLIANCE REPORT
July 2009 - September 2009**

| Description of Work/Item | Approved Budget | Latest Eng'g. Estimate | Commitment to Date | Actuals | Balance of Appr'd Budget | Remarks |
|---|------------------|------------------------|--------------------|--------------|--------------------------|---------|
| Design | | | | | | |
| In-House Labor | 30,000 | 90,000 | 846 | 846 | 29,154 | |
| Garage/Travel/Overhead/Others | 0 | 65,000 | 483 | 483 | (483) | |
| Total Design | 30,000 | 155,000 | 1,329 | 1,329 | 28,671 | |
| Contractor Furnished Equipment/Materials | | | | | | |
| 45' Concrete Poles | 180,000 | 0 | 0 | 0 | 180,000 | |
| 35' Concrete Poles | 202,500 | 0 | 0 | 0 | 202,500 | |
| Conductors | 75,000 | 0 | 0 | 0 | 75,000 | |
| Line Hardware | 100,000 | 0 | 0 | 0 | 100,000 | |
| Transformers & Accessories | 60,000 | 0 | 0 | 0 | 60,000 | |
| Pad Mounted Transformer | 0 | 12,000 | 0 | 0 | 0 | |
| Pad Mounted Switch | 0 | 180,000 | 0 | 0 | 0 | |
| Riser Termination | 0 | 3,600 | 0 | 0 | 0 | |
| 15 KV Junctions and Elbows | 0 | 53,369 | 0 | 0 | 0 | |
| 15 KV Underground Cable | 0 | 233,490 | 0 | 0 | 0 | |
| 600 V Underground Cable Ass. | 0 | 192,000 | 0 | 0 | 0 | |
| 600 V Underground Cable | 0 | 48,000 | 0 | 0 | 0 | |
| Total Equipment/Materials | 617,500 | 722,459 | 0 | 0 | 617,500 | |
| Construction Management | | | | | | |
| Engineering Labor | 20,000 | 20,000 | 0 | 0 | 20,000 | |
| T&D Labor | 20,000 | 20,000 | 0 | 0 | 20,000 | |
| Total Construction Management | 40,000 | 40,000 | 0 | 0 | 40,000 | |
| Construction Contractor Work | | | | | | |
| Mobilization & Demobilization | 35,000 | 0 | 0 | 0 | 35,000 | |
| Survey & Stakeout/Clearing | 15,000 | 0 | 0 | 0 | 15,000 | |
| 45' Concrete Poles w/ Foundation | 200,000 | 0 | 0 | 0 | 200,000 | |
| 35' Concrete Poles w/Foundation | 298,820 | 0 | 0 | 0 | 298,820 | |
| Pole Framing | 54,870 | 0 | 0 | 0 | 54,870 | |
| Down Guys w/Anchors | 12,760 | 0 | 0 | 0 | 12,760 | |
| Primary Line Installation | 32,500 | 0 | 0 | 0 | 32,500 | |
| Secondary Line Installation | 26,000 | 0 | 0 | 0 | 26,000 | |
| Relocate Existing Laterals | 10,000 | 0 | 0 | 0 | 10,000 | |
| Underbuild Equip & Secondary Removals | 15,000 | 0 | 0 | 0 | 15,000 | |
| Pole Numbering | 60,000 | 0 | 0 | 0 | 60,000 | |
| Testing & Energization | 11,550 | 0 | 0 | 0 | 11,550 | |
| Primary Handholes | 4,000 | 0 | 0 | 0 | 4,000 | |
| Secondary Handholes | 0 | 177,897 | 0 | 0 | 0 | |
| Primary Risers | 0 | 192,000 | 0 | 0 | 0 | |
| Switch Pad | 0 | 4,000 | 0 | 0 | 0 | |
| Pad Mtd X-fmr Concrete Pad | 0 | 4,500 | 0 | 0 | 0 | |
| Trenching | 0 | 13,333 | 0 | 0 | 0 | |
| Installation of 2-6" PVC Sch. 40 Conduit | 0 | 155,585 | 0 | 0 | 0 | |
| Installation of 2-4" PVC Sch. 40 Conduit | 0 | 0 | 0 | 0 | 0 | |
| Installation of 1-4" PVC Sch. 40 Conduit | 0 | 233,490 | 0 | 0 | 0 | |
| Concrete Encasement | 0 | 288,000 | 0 | 0 | 0 | |
| Asphalt/Concrete Driveway Restoration | 0 | 311,170 | 0 | 0 | 0 | |
| Pad Mounted X-Fmr Termination | 0 | 131,936 | 0 | 0 | 0 | |
| Riser Termination | 0 | 12,000.00 | 0 | 0 | 0 | |
| 15 kV Junction & Elbow Installation | 0 | 6,000.00 | 0 | 0 | 0 | |
| 15 kV U/G Cable Installation | 0 | 40,026.86 | 0 | 0 | 0 | |
| 600 V U/G Cable Installation | 0 | 70,047.00 | 0 | 0 | 0 | |
| 600 V U/G Cable Termination | 0 | 101,760.00 | 0 | 0 | 0 | |
| Trenching | 0 | 6,840.00 | 0 | 0 | 0 | |
| Installation of 2" PVC Sch. 40 Conduit | 0 | 89,600.00 | 0 | 0 | 0 | |
| O/H to U/G Service Entrance Conversion & Pedestal Restoration | 0 | 179,200.00 | 0 | 0 | 0 | |
| Restoration | 0 | 320,000.00 | 0 | 0 | 0 | |
| Restoration | 0 | 80,000.00 | 0 | 0 | 0 | |
| Total Construction | 775,500 | 2,417,385 | 0 | 0 | 775,500 | |
| TOTAL | 1,463,000 | 3,334,844 | 1,329 | 1,329 | 1,461,671 | |

MONTHLY PROGRESS REPORT

Report Date: October 15, 2009

Project: Old Dededo Kaiser Pole Hardening Phase II

Business Unit: 100012

Funding Source: Bond Funds

Project Description: Installation of concrete power poles with concrete foundations. Relocation and upgrade of poles to rights-of-way along traveled roads. Reconductoring and rephasing of primary lines. Upgrade of secondary system to eliminate voltage problems and enhance system reliability.

Design: GPA Engineering

Construction Contractor:

Contract Amount:


Administrative Activities: Reprogramming of funds under consideration. Request for PUC approval of underground project withdrawn.

Construction Activities:

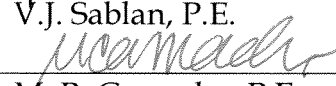
Project Schedule: Planned Start Construction:
Planned Finish:

Completed to Date: Survey Base Map - Completed, Design 30% Completed

Progress Payment:

Reviewed By: 

V.J. Sablan, P.E.

Approved By: 

M. R. Camacho, P.E.

Old Dededo Kaiser Pole Hardening Phase II
COMPLIANCE REPORT
July 2009 - September 2009

| Description of Work/Item | Approved Budget | Latest Eng'g. Estimate | Commitment to Date | Actuals | Balance of Appr'd Budget | Remarks |
|---|-----------------|------------------------|--------------------|----------|--------------------------|---------|
| Design | | | | | | |
| In-House Labor | 10,000 | 90,000 | 0 | 0 | 10,000 | |
| Garage/Travel/Overhead/Others | 0 | 65,000 | 0 | 0 | 0 | |
| Total Design | 10,000 | 155,000 | 0 | 0 | 10,000 | |
| Equipment/Materials | | | | | | |
| 45' Concrete Poles | 134,400 | 0 | 0 | 0 | 134,400 | |
| 35' Concrete Poles | 37,800 | 0 | 0 | 0 | 37,800 | |
| Conductors | 44,680 | 0 | 0 | 0 | 44,680 | |
| Line Hardware | 100,480 | 0 | 0 | 0 | 100,480 | |
| Transformers & Accessories | 57,000 | 0 | 0 | 0 | 57,000 | |
| Pad Mounted Transformer | 0 | 13,463 | 0 | 0 | 0 | |
| Pad Mounted Switch | 0 | 160,000 | 0 | 0 | 0 | |
| Riser Termination | 0 | 1,800 | 0 | 0 | 0 | |
| 15 KV Junctions and Elbows | 0 | 33,600 | 0 | 0 | 0 | |
| 15 KV Underground Cable | 0 | 189,000 | 0 | 0 | 0 | |
| 600 V Underground Cable Ass. | 0 | 215,400 | 0 | 0 | 0 | |
| 600 V Underground Cable | 0 | 53,850 | 0 | 0 | 0 | |
| Total Equipment/Materials | 374,360 | 667,113 | 0 | 0 | 374,360 | |
| Construction Management | | | | | | |
| Engineering Labor | 12,000 | 12,000 | 0 | 0 | 12,000 | |
| T&D Labor | 10,000 | 10,000 | 0 | 0 | 10,000 | |
| Total Construction Management | 22,000 | 22,000 | 0 | 0 | 22,000 | |
| Construction | | | | | | |
| Mobilization & Demobilization | 35,000 | 0 | 0 | 0 | 35,000 | |
| Survey & Stakeout/Clearing | 15,000 | 0 | 0 | 0 | 15,000 | |
| 45' Concrete Poles w/ Foundation | 179,200 | 0 | 0 | 0 | 179,200 | |
| 35' Concrete Poles w/Foundation | 67,200 | 0 | 0 | 0 | 67,200 | |
| Pole Framing | 33,600 | 0 | 0 | 0 | 33,600 | |
| Down Guys w/Anchors | 13,200 | 0 | 0 | 0 | 13,200 | |
| Primary Line Installation | 32,760 | 0 | 0 | 0 | 32,760 | |
| Secondary Line Installation | 26,520 | 0 | 0 | 0 | 26,520 | |
| Relocate Existing Laterals | 10,000 | 0 | 0 | 0 | 10,000 | |
| Underbuild Equip & Secondary | 15,000 | 0 | 0 | 0 | 15,000 | |
| Removals | 55,400 | 0 | 0 | 0 | 55,400 | |
| Pole Numbering | 11,760 | 0 | 0 | 0 | 11,760 | |
| Testing & Energization | 4,000 | 0 | 0 | 0 | 4,000 | |
| Primary Handholes | 0 | 112,000 | 0 | 0 | 0 | |
| Secondary Handholes | 0 | 215,400 | 0 | 0 | 0 | |
| Primary Risers | 0 | 2,000 | 0 | 0 | 0 | |
| Switch Pad | 0 | 4,000 | 0 | 0 | 0 | |
| Pad Mtd X-fmr Concrete Pad | 0 | 14,958 | 0 | 0 | 0 | |
| Trenching | 0 | 160,930 | 0 | 0 | 0 | |
| Installation of 2-6" PVC Sch. 40 Conduit | 0 | 50,400 | 0 | 0 | 0 | |
| Installation of 2-4" PVC Sch. 40 Conduit | 0 | 147,000 | 0 | 0 | 0 | |
| Installation of 1-4" PVC Sch. 40 Conduit | 0 | 323,100 | 0 | 0 | 0 | |
| Concrete Encasement | 0 | 321,860 | 0 | 0 | 0 | |
| Asphalt/Concrete Driveway Restoration | 0 | 145,369 | 0 | 0 | 0 | |
| Pad Mounted X-Fmr Termination | 0 | 13,463 | 0 | 0 | 0 | |
| Riser Termination | 0 | 3,000 | 0 | 0 | 0 | |
| 15 kV Junction & Elbow Installation | 0 | 25,200 | 0 | 0 | 0 | |
| 15 kV U/G Cable Installation | 0 | 56,700 | 0 | 0 | 0 | |
| 600 V U/G Cable Installation | 0 | 114,162 | 0 | 0 | 0 | |
| 600 V U/G Cable Termination | 0 | 7,674 | 0 | 0 | 0 | |
| Trenching | 0 | 37,695 | 0 | 0 | 0 | |
| Installation of 2" PVC Sch. 40 Conduit | 0 | 75,390 | 0 | 0 | 0 | |
| O/H to U/G Service Entrance Conversion & Pedestal | 0 | 359,000 | 0 | 0 | 0 | |
| Restoration | 0 | 89,750 | 0 | 0 | 0 | |
| Total Construction | 498,640 | 2,279,050 | 0 | 0 | 498,640 | |
| TOTAL | 905,000 | 3,123,163 | 0 | 0 | 905,000 | |

MONTHLY PROGRESS REPORT

Report Date: October 15, 2009

Project: Old Dededo Kaiser Pole Hardening Phase III

Business Unit: 100013

Funding Source: Bond Funds

Project Description: Installation of concrete power poles with concrete foundations. Relocation and upgrade of poles to rights-of-way along traveled roads. Reconductoring and rephasing of primary lines. Upgrade of secondary system to eliminate voltage problems and enhance system reliability.

Design: GPA Engineering

Construction Contractor:

Contract Amount:

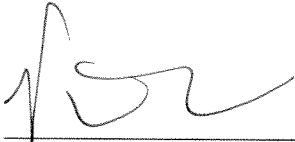
Administrative Activities: Reprogramming of funds under consideration. Request for PUC approval of underground project withdrawn.

Construction Activities:

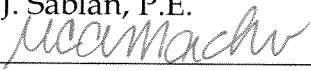
Project Schedule: Planned Start Construction:
Planned Finish:

Completed to Date: Survey Base Map - Completed, Design 65% Completed

Progress Payment:

Reviewed By: 

V.J. Sablan, P.E.

Approved By: 

M. R. Camacho, P.E.

**Old Dededo Kaiser Pole Hardening Phase III
COMPLIANCE REPORT
July 2009 - September 2009**

| Description of Work/Item | Approved Budget | Latest Eng'g. Estimate | Commitment to Date | Actuals | Balance of Appr'd Budget | Remarks |
|---|------------------|------------------------|--------------------|------------|--------------------------|---------|
| Design | | | | | | |
| In-House Labor | 10,000 | 90,000 | 334 | 334 | 9,666 | |
| Garage/Travel/Overhead/Others | 0 | 65,000 | 591 | 591 | (591) | |
| Total Design | 10,000 | 155,000 | 925 | 925 | 9,075 | |
| Equipment/Materials | | | | | | |
| 45' Concrete Poles | 132,000 | 0 | 0 | 0 | 132,000 | |
| 35' Concrete Poles | 81,000 | 0 | 0 | 0 | 81,000 | |
| Conductors | 43,720 | 0 | 0 | 0 | 43,720 | |
| Line Hardware | 116,600 | 0 | 0 | 0 | 116,600 | |
| Transformers & Accessories | 70,000 | 0 | 0 | 0 | 70,000 | |
| Pad Mounted Transformer | 0 | 11,288 | 0 | 0 | 0 | |
| Pad Mounted Switch | 0 | 180,000 | 0 | 0 | 0 | |
| Riser Termination | 0 | 2,700 | 0 | 0 | 0 | |
| 15 KV Junctions and Elbows | 0 | 37,371 | 0 | 0 | 0 | |
| 15 KV Underground Cable | 0 | 216,000 | 0 | 0 | 0 | |
| 600 V Underground Cable Ass. | 0 | 180,600 | 0 | 0 | 0 | |
| 600 V Underground Cable | 0 | 45,150 | 0 | 0 | 0 | |
| Total Equipment/Materials | 443,320 | 673,109 | 0 | 0 | 443,320 | |
| Construction Management | | | | | | |
| Engineering Labor | 12,000 | 12,000 | 0 | 0 | 12,000 | |
| T&D Labor | 10,000 | 10,000 | 0 | 0 | 10,000 | |
| Total Construction Management | 22,000 | 22,000 | 0 | 0 | 22,000 | |
| Construction | | | | | | |
| Mobilization & Demobilization | 35,000 | 0 | 0 | 0 | 35,000 | |
| Survey & Stakeout/Clearing | 15,000 | 0 | 0 | 0 | 15,000 | |
| 45' Concrete Poles w/ Foundation | 176,000 | 0 | 0 | 0 | 176,000 | |
| 35' Concrete Poles w/Foundation | 144,000 | 0 | 0 | 0 | 144,000 | |
| Pole Framing | 54,870 | 0 | 0 | 0 | 54,870 | |
| Down Guys w/Anchors | 12,760 | 0 | 0 | 0 | 12,760 | |
| Primary Line Installation | 32,500 | 0 | 0 | 0 | 32,500 | |
| Secondary Line Installation | 26,000 | 0 | 0 | 0 | 26,000 | |
| Relocate Existing Laterals | 10,000 | 0 | 0 | 0 | 10,000 | |
| Underbuild Equip & Secondary | 15,000 | 0 | 0 | 0 | 15,000 | |
| Removals | 60,000 | 0 | 0 | 0 | 60,000 | |
| Pole Numbering | 11,550 | 0 | 0 | 0 | 11,550 | |
| Testing & Energization | 4,000 | 0 | 0 | 0 | 4,000 | |
| Primary Handholes | 0 | 124,571 | 0 | 0 | 0 | |
| Secondary Handholes | 0 | 180,600 | 0 | 0 | 0 | |
| Primary Risers | 0 | 3,000 | 0 | 0 | 0 | |
| Switch Pad | 0 | 4,500 | 0 | 0 | 0 | |
| Pad Mtd X-fmr Concrete Pad | 0 | 12,542 | 0 | 0 | 0 | |
| Trenching | 0 | 145,670 | 0 | 0 | 0 | |
| Installation of 2-6" PVC Sch. 40 Conduit | 0 | 63,000 | 0 | 0 | 0 | |
| Installation of 2-4" PVC Sch. 40 Conduit | 0 | 163,500 | 0 | 0 | 0 | |
| Installation of 1-4" PVC Sch. 40 Conduit | 0 | 270,900 | 0 | 0 | 0 | |
| Concrete Encasement | 0 | 291,340 | 0 | 0 | 0 | |
| Asphalt/Concrete Driveway Restoration | 0 | 123,291 | 0 | 0 | 0 | |
| Pad Mounted X-Fmr Termination | 0 | 11,288 | 0 | 0 | 0 | |
| Riser Termination | 0 | 4,500 | 0 | 0 | 0 | |
| 15 kV Junction & Elbow Installation | 0 | 28,029 | 0 | 0 | 0 | |
| 15 kV U/G Cable Installation | 0 | 64,800 | 0 | 0 | 0 | |
| 600 V U/G Cable Installation | 0 | 95,718 | 0 | 0 | 0 | |
| 600 V U/G Cable Termination | 0 | 6,434 | 0 | 0 | 0 | |
| Trenching | 0 | 31,605 | 0 | 0 | 0 | |
| Installation of 2" PVC Sch. 40 Conduit | 0 | 63,210 | 0 | 0 | 0 | |
| O/H to U/G Service Entrance Conversion & Pedestal | 0 | 301,000 | 0 | 0 | 0 | |
| Restoration | 0 | 75,250 | 0 | 0 | 0 | |
| Total Construction | 596,680 | 2,064,747 | 0 | 0 | 596,680 | |
| TOTAL | 1,072,000 | 2,914,856 | 925 | 925 | 1,071,075 | |

MONTHLY PROGRESS REPORT

Report Date: October 15, 2009

Project: Agana X042 to Tamuning X209 and P202 Underground Line Conversion

Business Unit: 100064

Funding Source: FEMA and Revenue Funds

Project Description: Underground conversion of the existing overhead 34.5 kV transmission line and 13.8 kV distribution line along Route 1 from Uttams store in Agana to Bank Pacific in Tamuning. This project involves trenching, installation of a conduit system encased in concrete, conversion of customers as well as installation of underground cables and terminations.

Design: N.C. Macario and Associates

Construction Contractor:

Contract Amount: \$651,879.00 9483 OP (N.C. Macario)

Construction Activities:

Project Schedule: The Programmatic Agreement between FEMA and Guam HMGP to resolve archaeological issues was signed by GPA on February 27, 2007 and finalized by FEMA on April 12, 2007. FEMA approval for the revised BCA was issued June 12, 2007. FEMA notified GPA on August 27, 2007 that the project completion has been extended to November 24, 2008. The design and archaeological subsurface testing is 100% completed. Bid opening was July 15, 2008 with the Coretech International being the lowest bidder. Due to the high bid costs, GPA submitted a request the GAR to re-scope the project routing on August 25, 2008.

On October 20, 2008, a notice to withdraw from the project was submitted to the GAR based on their recommendation that re-scoping of the project is not a viable option.

On May 19, 2009, GPA repaid FEMA the HMGP federal share in the amount of \$177,024.94.

Completed to Date: 100% - Design, 100% - Archaeological Subsurface Testing

Progress Payment: \$ 434,539.03 - Design

Prepared By:

Edward K. Cruz

Reviewed By:

V.J. Sablan, P.E.

Approved By:

M. R. Camacho, P.E.

**Agana to Tamuning & P202 Underground Conversion
COMPLIANCE REPORT
July 2009 - September 2009**

| Description of Work/Item | Approved Budget | Latest Eng'g. Estimate | Commitment to Date | Actuals | Balance of Appr'd Budget | Remarks |
|---|------------------|------------------------|--------------------|----------------|--------------------------|---------|
| Design | | | | | | |
| A/E Design | 134,704 | 577,812 | 651,879 | 434,539 | (517,175) | 9483 OP |
| In-House Labor | 58,882 | 58,882 | 1,240 | 1,240 | 57,642 | |
| Garage/Travel/Overhead/Others | 0 | 0 | 3,212 | 3,212 | (3,212) | |
| Total Design | 193,586 | 636,694 | 656,332 | 438,992 | (462,746) | |
| Construction Management | | | | | | |
| Engineering Labor | 134,704 | 134,704 | 0 | 0 | 134,704 | |
| T&D Labor | 134,704 | 134,704 | 0 | 0 | 134,704 | |
| Garage/Travel/Overhead/Others | 0 | 0 | 0 | 0 | 0 | |
| Total Construction Management | 269,408 | 269,408 | 0 | 0 | 269,408 | |
| Archaeological Services | | | | | | |
| Monitoring by Archaeologist | 0 | 193,552 | 0 | 0 | 0 | |
| Preparation of Research | 0 | 2,147 | 0 | 0 | 0 | |
| Laboratory Analysis | 0 | 6,778 | 0 | 0 | 0 | |
| Report Production | 0 | 3,221 | 0 | 0 | 0 | |
| Hand Excavation | 0 | 2,750 | 0 | 0 | 0 | |
| Removal of Burials | 0 | 2,750 | 0 | 0 | 0 | |
| Analysis of Skeleton | 0 | 3,400 | 0 | 0 | 0 | |
| Total Archaeological Services | 0 | 214,599 | 0 | 0 | 0 | |
| Construction Contractor Work | | | | | | |
| Mobilization/Demobilization | 134,704 | 101,896 | 0 | 0 | 134,704 | |
| Construction Site Survey | 30,000 | 30,000 | 0 | 0 | 30,000 | |
| 34.5 kV Manhole (8X8X6) | 350,000 | 85,500 | 0 | 0 | 350,000 | |
| 13.8 kV Manhole (8X8X6) | 320,000 | 266,000 | 0 | 0 | 320,000 | |
| 13.8 kV Handhole (5X4X5) | 60,000 | 119,000 | 0 | 0 | 60,000 | |
| Concrete Pole with Foundation | 12,000 | 9,000 | 0 | 0 | 12,000 | |
| Conduits, Switches and Pad Mounted X-fmrs | 1,155,000 | 2,696,218 | 0 | 0 | 1,155,000 | |
| Road Crossings | 58,490 | 90,000 | 0 | 0 | 58,490 | |
| Sidewalk Restoration | 91,000 | 91,000 | 0 | 0 | 91,000 | |
| 600 MCM Cable Installation | 39,000 | 52,000 | 0 | 0 | 39,000 | |
| 500 MCM Cable Installation | 19,500 | 26,000 | 0 | 0 | 19,500 | |
| Underground Cable Splicing | 4,125 | 21,300 | 0 | 0 | 4,125 | |
| Riser - 34.5 kV | 10,000 | 5,000 | 0 | 0 | 10,000 | |
| Riser - 13.8 kV | 52,500 | 10,000 | 0 | 0 | 52,500 | |
| Removal of Overhead System and Cust. Conversion | 65,587 | 218,587 | 0 | 0 | 65,587 | |
| 600 MCM Cable Supply | 208,000 | 211,590 | 0 | 0 | 208,000 | |
| 500 MCM Cable Supply | 104,000 | 377,949 | 0 | 0 | 104,000 | |
| Concrete Pole - 55' | 20,000 | 15,000 | 0 | 0 | 20,000 | |
| Splicing, 34.5 kV Supply | 14,000 | 9,450 | 0 | 0 | 14,000 | |
| Splicing, 13.8 kV Supply | 24,500 | 52,080 | 0 | 0 | 24,500 | |
| Total Construction | 2,772,406 | 4,487,570 | 0 | 0 | 2,772,406 | |
| Subtotal | 3,235,400 | 5,608,271 | 656,332 | 438,992 | 2,579,068 | |
| FEMA Reimbursement | (2,911,860) | (2,911,860) | 0 | 0 | (2,911,860) | |
| TOTAL | 323,540 | 2,696,411 | 656,332 | 438,992 | (332,792) | |

**Engineering Project Management
Project Status Reports**



July – September 2009



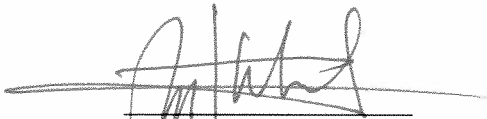
GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Engineering Project Management Capital Improvement Projects

Submitted herewith is the **September 2009** Quarterly Compliance Reports for the following projects:

| <u>Project Name</u> | <u>Project Engineer</u> |
|------------------------------------|-------------------------|
| 1. Tenjo Diesel Power Plant | SCB |
| 2. Water Quality Monitoring System | SCB |



Perry B. Taladoc
Engineer Supervisor



GUAM POWER AUTHORITY

P.O. BOX 2977 AGANA, GUAM 96910

QUARTERLY COMPLIANCE REPORT

THREE MONTHS ENDING:

September 30, 2009

PUBLIC UTILITY COMMISSION

DOCKET NO.: 92-010

Page 1 of 2

| TITLE OF PROJECT: TENJO DIESEL POWER PLANT | LOCATION: TENJO, GUAM | GPA WORK ORDER NO: E-2319-92 | |
|---|---------------------------------|--|-------------------------------------|
| DESCRIPTION OF PROJECT: | | | |
| <p>PHASE I - Install four 4.88 MW diesel engine generators in a concrete building at Tenjo adjacent to the Shell Oil Provide two 30,000 gallon fuel tanks, three 85' exhaust stack, and onsite drainage as required by GEPA. Provide additional switchgear and install new 30 MVA transformer and high voltage line for connection into the Island Power Grid.</p> <p>PHASE II - Relocation of two 4.88 MW diesel generators and its auxilliary equipment from old GMH Power Plant to Tenjo. Provide new smoke stack, additional 30 MVA transformer for the substation and extend 34.5kV Transmission Line along Route 2A to Route 1.</p> | | | |
| SUMMARY OF ACTIVITIES | STATUS | ESTIMATED AWARD/SUBMITTAL/ START DATE | ESTIMATED COMPLETION/ DELIVERY DATE |
| PHASE I | | | |
| A. PERMITTING (PSD/EIA/PERMIT TO CONSTRUCTION & OPERATE) | COMPLETED | | |
| B. DESIGN, ENGINEERING AND CONSTRUCTION MANAGEMENT | COMPLETED | | |
| C. CONSTRUCTION AND MAJOR EQUIPMENT PROCUREMENT | COMPLETED | | |
| D. STARTUP, TESTING, COMMISSIONING OF MAJOR PLANTS | COMPLETED | | |
| PHASE II | | | |
| A. PERMITTING (PSD/EIA/PERMIT TO CONSTRUCTION & OPERATE) | | | |
| PREVENTION OF SIGNIFICANT DETERIORATION (PSD) | COMPLETED | | JAN. 1999 |
| GEPA PERMIT TO CONSTRUCT | COMPLETED | | FEB. 1999 |
| GEPA PERMIT TO OPERATE | COMPLETED | | JAN. 2000 |
| EASEMENT FOR ROUTE 2A | PENDING | | To be determined |
| B. DESIGN, ENGINEERING AND CONSTRUCTION MANAGEMENT | | | |
| DESIGN OF UNITS 5 & 6 INSTALLATION | COMPLETED | | JAN. 8, 1999 |
| DESIGN OF TRANSMISSION LINE ALONG ROUTE 2A | COMPLETED | | AUG. 15, 1998 |
| C. CONSTRUCTION AND MAJOR EQUIPMENT PROCUREMENT | | | |
| DEMOLITION OF OLD GMH POWER PLANT/RELOCATE BLDG. TO T&D | COMPLETED | | JUNE, 1999 |
| DELIVERY OF 30MVA TRANSFORMER | DELETED | | |
| INSTALLATION OF CEM SYSTEM | COMPLETED | | JULY, 1999 |
| CONSTRUCTION OF PHASE II | COMPLETED | JULY, 1999 | APRIL 15, 2000 |
| D. STARTUP, TESTING, COMMISSIONING OF MAJOR PLANTS | | | |
| START-UP & COMMISSIONING OF UNIT NO. 5 | COMPLETED | | JUNE 7, 2000 |
| START-UP & COMMISSIONING OF UNIT NO. 6 | COMPLETED | | MAY 2001 |

| COST CATEGORY | APPROVED BUDGET | LATEST ENGINEERING ESTIMATE | COMMITMENTS TO DATE | BALANCE OF APPROVED BUDGET BASED FROM ENGINEERING ESTIMATE | BALANCE OF APPROVED BUDGET BASED FROM COMMITMENTS TO DATE | REMARKS (STATUS OF ACTIVITY) |
|--|-------------------|-----------------------------|---------------------|--|---|---|
| PHASE I | | | | | | |
| TURNKEY CONSTRUCTION & LAND ACQUISITION BUDGET | 10,674,000 | | | | | |
| 1. DIESEL ENGINE GENERATOR SET | | 7,893,100 | 7,893,100 | | | COMPLETED |
| 2. LAND ACQUISITION | | 1,013,394 | 1,013,394 | | | COMPLETED |
| 3. 30 MVA TRANSFORMER | | 352,000 | 352,000 | | | COMPLETED |
| 4. GAA LAND LEASE | | 309,000 | 308,584 | | | COMPLETED |
| 5. TEMPORARY LOCATION OF UNITS | 3,239,077 | 3,208,227 | 3,208,227 | | | COMPLETED |
| 6. SITE CLEARING & GRADING AT TENJO | | 784,000 | 784,000 | | | COMPLETED |
| 7. CONSTRUCTION OF TENJO POWER PLANT | 6,869,640 | 7,101,500 | 7,101,500 | | | COMPLETED |
| 8. CHANGE ORDERS | | 121,446 | 121,446 | | | COMPLETED |
| SUBTOTAL FOR PHASE I | 20,782,717 | 20,782,667 | 20,782,251 | | | |
| PHASE II | | | | | | |
| 1. INSTALLATION OF CEM SYSTEM | 400,000 | 389,607 | 389,607 | | | COMPLETED |
| 2. 30 MVA TRANSFORMER ACQUISITION | 490,000 | | | | | COMPLETED |
| 3. INSTALLATION OF 34.5KV TRANSMISSION LINE ALONG ROUTE 2A | 790,000 | 780,000 | | | | ON-HOLD |
| 4. INSTALLATION OF TWO 4.88 MW ENGINE-GENERATORS AND AUXILIARY EQPT. | 1,525,141 | 1,115,000 | 1,115,000 | | | COMPLETED |
| 5. BUILDING PERMIT | | 9,230 | 9,230 | | | COMPLETED |
| 6. CHANGE ORDER | | | | | | |
| 1. PROVIDE MISSING PARTS AND REPAIR OF OFCI EQUIPMENT | | 60,585 | 60,585 | | | COMPLETED |
| 2. PAINTING OF SMOKE STACK AND EXISTING PIPING. INSTALLATION OF SUMP PUMPS FOR SWITCHGEAR AREAS. | | 106,628 | 106,628 | | | COMPLETED |
| SUBTOTAL FOR PHASE II | 3,205,141 | 2,461,050 | 1,681,050 | | | |
| TOTAL CONSTRUCTION COST | 23,987,858 | 23,243,717 | 22,463,301 | | | |
| PERMITTING | 410,000 | 404,782 | 404,782 | | | COMPLETED |
| CONSTRUCTION ADMINISTRATION | 950,000 | 942,163 | 942,163 | | | COST FOR BOTH PHASE I AND PHASE II PROJECTS |
| A/E DESIGN FEE/INSPECTION | 870,000 | 869,000 | 869,000 | | | COMMITMENTS AS OF 09/30/09 |
| TOTAL FOR THIS PROJECT | 26,217,858 | 25,459,662 | 24,679,246 | 758,196 | | COMPLETED |

REMARKS:

INSTALLATION OF 34.5KV TRANSMISSION LINE ALONG ROUTE 2A IS ON HOLD,
PENDING FINAL DECISION FROM ENGINEERING SUBSTATION ON FINAL DESIGN

PREPARED BY:


STEVEN C. BAUTISTA
PROJECT ENGINEER

SUBMITTED BY:


PERRY B. TALADOC
ENGINEER SUPERVISOR

APPROVED BY:


MELINDA R. CAMACHO, P.E.
MANAGER OF ENGINEERING



GUAM POWER AUTHORITY

P. O. BOX 2977, AGANA, GUAM 96910

QUARTERLY COMPLIANCE REPORT
THREE MONTHS ENDING:

September 30, 2009

PUBLIC UTILITY COMMISSION
DOCKET NO.:

| | | |
|---|---|--|
| TITLE OF PROJECT: <b style="text-align: center;">WATER QUALITY MONITORING SYSTEM UPGRADE | LOCATION: <b style="text-align: center;">CABRAS ISLAND, GUAM | GPA WORK ORDER NO: <b style="text-align: center;">2810-99 |
|---|---|--|

DESCRIPTION OF PROJECT:
 The work comprises upgrade of the existing makeup water treatment system for Cabras 1&2 by providing a Reverse Osmosis-Electrodeionization System (RO-EDI). It also includes the upgrade of the water quality monitoring system by providing new cycle chemical feed system, water chemistry analyzer panel, and sample cooler racks.

| SUMMARY OF ACTIVITIES | STATUS | ESTIMATED AWARD /START DATE | EST. COMPL/ DELIVERY DATE |
|---|-----------|--------------------------------|------------------------------|
| A. PERMITTING | | | |
| CONSTRUCTION PERMIT FOR RO-EDI SYSTEM | N/A | N/A | |
| CONSTRUCTION PERMIT FOR WATER QULITY MONITORING SYSTEM | N/A | N/A | |
| B. DESIGN, ENGINEERING AND CONSTRUCTION MANAGEMENT | | | |
| EVALUATION | COMPLETED | COMPLETED | |
| REQUEST FOR PROPOSAL FOR RO-EDI SYSTEM | N/A | N/A | |
| PREPARE DRAWINGS AND SPECIFICATION FOR WATER QUALITY MONITORING | COMPLETED | COMPLETED | |
| C. CONSTRUCTION SCHEDULES | | | |
| AWARD CONTRACT FOR SUPPLY OF RO-EDI SYSTEM | N/A | N/A | |
| START-UP AND COMMISSION RO-EDI SYSTEM | N/A | N/A | |
| BID OPENING FOR WATER QUALITY MONITORING SYSTEM | N/A | N/A | |
| AWARD CONTRACT FOR WATER QUALITY MONITORING SYSTEM | N/A | N/A | |
| START UP AND COMMISSION WATER QUALITY MONITORING SYSTEM | COMPLETED | N/A | |

| BUDGET VERSUS EXPENDITURES | | | | | |
|---|--------------------|-------------------------|------------------------|-----------------------------|-------------------------------|
| COST CATEGORY | APPROVED BUDGET | LATEST ENG. ESTIMATE | COMMITMENTS TO DATE | BALANCE OF APPR'D BUDGET | REMARKS (STATUS OF ACTIVITY) |
| DESIGN AND CONSTRUCTION | 850,000 | | | | |
| 1. EVALUATION | | 260,155 | 260,155 | | Completed by Edison |
| 2. ENGINEERING DESIGN | | 207,150 | 207,150 | | Completed by EMCE |
| 3. CONSTRUCTION/INSTALLATION | | | | | |
| Provide RO-EDI System | | | | | |
| Installation of Chemical Feed System | | 231,000 | 231,000 | | Completed by TEMES on 3/15/05 |
| Installation of Sample Rack/ Lab Instrumentation | | 372,750 | 372,750 | | Completed by TEMES on 6/08/05 |
| TOTAL DESIGN & CONSTRUCTION | 850,000 | 1,071,055 | 1,071,055 | | |
| GPA CONSTRUCTION ADMINISTRATION PERMIT/CONSULTANT A/E CONSTRUCTION MANAGEMENT | | 39,619 | 39,619 | | COMMITMENTS AS OF 09/30/09 |
| TOTAL CONSTRUCTION ADMIN. | | 39,619 | 39,619 | | |
| GRAND TOTAL | 850,000 | 1,110,674 | 1,110,674 | (260,674) | BASED ON COMMITMENTS TO DATE |

REMARKS:

1. The Authority has requested the PUC for a 30% Budget increase (\$255,000) on Sept. 8, 2005, for the Sample Rack/Lab Instrumentation.
2. Should the Authority decide to proceed with the installation of the RO/EDI, GPA will request for an additional budget increase from the Commission.
3. Cabras 1&2 Power Plant PMC, TEMES completed evaluation of the system, and has provided recommendations to the Authority, which is pending review and approval by the Authority.

PREPARED BY:

STEVEN C. BAUTISTA
 PROJECT ENGINEER

SUBMITTED BY:

PERRY B. TALADOC
 ENGINEER SUPERVISOR

APPROVED BY:

MELINDA R. CAMACHO, P.E.
 MANAGER OF ENGINEERING

**Engineering Substation / Transmission
Project Status Reports**



July – September 2009



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Engineering Substation/Transmission Capital Improvement Projects

Submitted herewith are the July - September 2009 Progress and Compliance Reports for the following projects:

| <u>Project Name</u> | <u>Job Order No.</u> | <u>Engineer</u> |
|---|----------------------|-----------------|
| 1. Hagatna Substation 115 kV and 34.5 kV Breaker Replacement | 100098 | J. L. Quinto |
| 2. Harmon to Tanguisson 34.5 kV Underground Lines Conversion (FINAL) | 100059 | J. U. Pabunan |
| 3. Macheche (X133) to GAA (X170) Underground Line Conversion | 100061 | W. T. Chen |
| 4. Marbo to Pagat 34.5 kV Line | 100025 | J. U. Pabunan |
| 5. San Vitores (X264) to Macheche (X130) Underground Line Conversion | 100057 | I. B. Loyola |
| 6. System Stability and Relay Coordination | 100049 | I. B. Loyola |

Joven G. Acosta, P.E.

MONTHLY PROGRESS REPORT

Report Date: 10/15/09

Project: Hagatna Substation 115 kV and 34.5 kV
Breaker Replacement

Business Unit: 100098

Funding Source: Revenue Funds

Project Description: The project will replace existing outdoor 115 kV and 34.5 kV breakers and disconnect switches with new equipment at the Agana Substation. The existing 115 kV breakers and 34.5 kV breakers are vintage 1974 and as early as 1950 respectively. Potential transformers and associated bus fittings will also be replaced.

Contracts: In-House Design - Currently in progress
115 kV Breakers - R&D Marketing
34.5 kV Breakers - Benson Guam

Activities:

- Design was begun in November 2008
- Completed Design
 - AC Schematics for 115 kV and 34.5 kV
 - DC Schematics for 115 kV and 34.5 kV
- Pending Design
 - Control panels for 115 kV and 34.5 kV
 - Cable Schedule Listing
 - AC and DC Panel Layout
 - Substation Site Layout
 - One-line Diagram
- Modification of design drawings are in progress

Project Schedule:

| | |
|------------------------|-------------------|
| Planned Start Design: | November 20, 2008 |
| Actual Start Design: | November 20, 2008 |
| Planned Finish Design: | June 21, 2009 |
| Actual Finish Design: | |

| | |
|---------------|--------------------|
| Planned Start | September 20, 2009 |
| Construction: | |
| Actual Start | |
| Construction: | |

Hagatna Substation 115 kV and 34.5 kV Breaker Replacement
Engineering Department
Substation/Transmission

Quarterly Status Report
July - September 2009

Planned Finish
Construction:
Actual Finish
Construction:

September 2011

Completed to Date:


95% Design

In-Progress

Progress Payments:


None.

Prepared By:



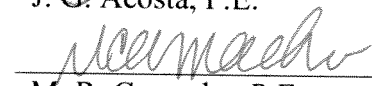
Johnny L. Quinto

Reviewed By:



J. G. Acosta, P.E.

Approved By:



M. R. Camacho, P.E.

HAGATNA SUBSTATION 115 KV AND 34.5 KV BREAKER REPLACEMENT
Quarterly Compliance Report
July - September 2009

| | | APPROVED BUDGET | LATEST ENG. ESTIMATE | COMMITMENT TO DATE | ACTUAL EXPENSED | BALANCE OF APPR'D BUDGET | REMARKS |
|----|--|-----------------------|-----------------------|-----------------------|--------------------|--------------------------|---------|
| | DESIGN | | | | | | |
| 1 | In-House Design Development | \$236,000.00 | \$236,000.00 | \$33,109.70 | \$33,109.70 | \$202,890.30 | |
| 2 | Engineering Design Management | \$76,000.00 | \$76,000.00 | \$0.00 | \$0.00 | \$76,000.00 | |
| 3 | Advertise/Bid/Award | \$5,000.00 | \$5,000.00 | \$0.00 | \$0.00 | \$5,000.00 | |
| | TOTAL FOR DESIGN | \$317,000.00 | \$317,000.00 | \$33,109.70 | \$33,109.70 | \$283,890.30 | |
| | OWNER-FURNISHED EQUIPMENT | | | | | | |
| 4 | Circuit Breakers 115 kV | \$380,000.00 | \$380,000.00 | \$319,960.00 | \$0.00 | \$380,000.00 | 13764OP |
| 5 | Circuit Breakers 34.5 kV | \$910,000.00 | \$910,000.00 | \$821,240.00 | \$0.00 | \$910,000.00 | 13763OP |
| 6 | Disconnect Switches 115 kV - Motor | \$204,000.00 | \$204,000.00 | \$0.00 | \$0.00 | \$204,000.00 | |
| 7 | Disconnect Switches 34.5 kV - Manual | \$180,000.00 | \$180,000.00 | \$0.00 | \$0.00 | \$180,000.00 | |
| 8 | Potential Transformers 115 kV | \$27,000.00 | \$27,000.00 | \$0.00 | \$0.00 | \$27,000.00 | |
| 9 | Potential Transformers 34.5 kV | \$24,000.00 | \$24,000.00 | \$0.00 | \$0.00 | \$24,000.00 | |
| 10 | Conductors 115 kV | \$2,400.00 | \$2,400.00 | \$0.00 | \$0.00 | \$2,400.00 | |
| 11 | Conductors 34.5 kV | \$7,500.00 | \$7,500.00 | \$0.00 | \$0.00 | \$7,500.00 | |
| | TOTAL FOR OFE | \$1,734,900.00 | \$1,734,900.00 | \$1,141,200.00 | \$0.00 | \$1,734,900.00 | |
| | CONTRACTOR FURNISHED EQUIPMENT | | | | | | |
| 12 | Bus Fittings 115 kV | \$3,000.00 | \$3,000.00 | \$0.00 | \$0.00 | \$3,000.00 | |
| 13 | Bus Fittings 34.5 kV | \$20,000.00 | \$20,000.00 | \$0.00 | \$0.00 | \$20,000.00 | |
| | TOTAL FOR CFE | \$23,000.00 | \$23,000.00 | \$0.00 | \$0.00 | \$23,000.00 | |
| | CONSTRUCTION MANAGEMENT | | | | | | |
| 14 | Construction Engineering | \$85,000.00 | \$85,000.00 | \$0.00 | \$0.00 | \$85,000.00 | |
| 15 | On-site Construction Management | \$85,000.00 | \$85,000.00 | \$0.00 | \$0.00 | \$85,000.00 | |
| 16 | GPA Testing/ T&D Field Work | \$69,100.00 | \$69,100.00 | \$0.00 | \$0.00 | \$69,100.00 | |
| | TOTAL FOR CM | \$239,100.00 | \$239,100.00 | \$0.00 | \$0.00 | \$239,100.00 | |
| | CONSTRUCTION | | | | | | |
| 18 | Electrical Testing | \$90,000.00 | \$90,000.00 | \$0.00 | \$0.00 | \$90,000.00 | |
| 19 | Mobilization/Demobilization | \$60,000.00 | \$60,000.00 | \$0.00 | \$0.00 | \$60,000.00 | |
| 20 | Demolition | \$20,000.00 | \$20,000.00 | \$0.00 | \$0.00 | \$20,000.00 | |
| 21 | Modifications to Existing Control Wiring | \$60,000.00 | \$60,000.00 | \$0.00 | \$0.00 | \$60,000.00 | |
| 22 | Equipment Support Foundations | \$54,000.00 | \$54,000.00 | \$0.00 | \$0.00 | \$54,000.00 | |
| 23 | Circuit Breaker Replacement 115 kV | \$22,000.00 | \$22,000.00 | \$0.00 | \$0.00 | \$22,000.00 | |
| 24 | Circuit Breaker Replacement 34.5 kV | \$63,000.00 | \$63,000.00 | \$0.00 | \$0.00 | \$63,000.00 | |
| 25 | 115 kV Control/Status Wiring | \$48,000.00 | \$48,000.00 | \$0.00 | \$0.00 | \$48,000.00 | |
| 26 | 34.5 kV Control/Status Wiring | \$140,000.00 | \$140,000.00 | \$0.00 | \$0.00 | \$140,000.00 | |
| 27 | Disconnect Switch Replacement 115 kV | \$24,000.00 | \$24,000.00 | \$0.00 | \$0.00 | \$24,000.00 | |
| 28 | Disconnect Switch Replacement 34.5kV | \$45,000.00 | \$45,000.00 | \$0.00 | \$0.00 | \$45,000.00 | |
| 29 | Potential Transformer Replacement 115kV | \$10,800.00 | \$10,800.00 | \$0.00 | \$0.00 | \$10,800.00 | |
| 30 | Potential Transformer Replacement 34.5kV | \$12,000.00 | \$12,000.00 | \$0.00 | \$0.00 | \$12,000.00 | |
| | TOTAL FOR CONSTRUCTION | \$626,000.00 | \$626,000.00 | \$0.00 | \$0.00 | \$626,000.00 | |
| | SUMMARY | | | | | | |
| 31 | DESIGN | \$317,000.00 | \$317,000.00 | \$33,109.70 | \$33,109.70 | \$283,890.30 | |
| 32 | OWNER-FURNISHED EQUIPMENT | \$1,734,900.00 | \$1,734,900.00 | \$1,141,200.00 | \$0.00 | \$1,734,900.00 | |
| 33 | CONTRACTOR FURNISHED EQUIPMENT | \$23,000.00 | \$23,000.00 | \$0.00 | \$0.00 | \$23,000.00 | |
| 34 | CONSTRUCTION MANAGEMENT | \$239,100.00 | \$239,100.00 | \$0.00 | \$0.00 | \$239,100.00 | |
| 35 | CONSTRUCTION | \$626,000.00 | \$626,000.00 | \$0.00 | \$0.00 | \$626,000.00 | |
| 36 | TOTAL COST | \$2,940,000.00 | \$2,940,000.00 | \$1,174,309.70 | \$33,109.70 | \$2,906,890.30 | |

MONTHLY PROGRESS REPORT

Report Date: 10/15/09 **FINAL REPORT**

Project: Harmon to Tanguisson 34.5 kV Underground Line Conversion

Business Unit: 100059

Funding Source: FEMA Funds (84%)
GPA Funds (16%)

Project Description: Underground conversion of two existing overhead 34.5 kV transmission lines from Harmon Substation to Tanguisson Substation. This project involves trenching, installation of a conduit system encased in concrete, as well as installation of underground cables and terminations.

Contract Amount:

| | |
|-------------|----------------------------|
| \$ 144,291 | 9444 OP (EMPSCO) |
| \$4,082,081 | 10552 OP (J&B Modern Tech) |

Activities:

- The purchase order for project design was issued to EMPSCO on March 8, 2005.
- Design was completed on October 30, 2005.
- The need for construction services was advertised 11/05/05. Bid opening was held on January 12, 2006.
- Bid Opening was held on January 12, 2006.
- GPA notified GRO of increased project costs and revised BCA on January 23, 2006.
- Construction contract was awarded to J&B Modern Tech on March 23, 2006.
- Project was placed on hold on April 27, 2006 pending FEMA approval of a revised Benefit-Cost Analysis.
- Notice was given to GPA by GRO to proceed with the project on June 12, 2007 as FEMA has approved the new BCA.
- Recommencement notice to J&B Modern Tech was issued on July 8, 2007 after contract costs were verified to have remained the same.

- Completed construction is as follows (100% completed):
 - First underground circuit energized on January 29, 2009. Second underground circuit energized on February 12, 2009.
 - Substantial completion granted to the contractor on February 14, 2009.
 - Project was accepted and completed on May 19, 2009.
 - Project Close- Out Documents were sent to Guam Recovery Office on July 15, 2009.

| | | |
|--------------------------|------------------------|-----------------|
| Project Schedule: | Planned Start Design: | March 10, 2005 |
| | Actual Start Design: | March 10, 2005 |
| | Planned Finish Design: | August 10, 2005 |
| | Actual Finish Design: | October, 2005 |

| | |
|------------------------------|---------------|
| Planned Start Construction: | April, 2007 |
| Actual Start Construction: | July 09, 2007 |
| Planned Finish Construction: | July 08, 2008 |
| Actual Finish Construction: | May 19, 2009 |

Completed to Date: 100% Design
100% Construction

| | | |
|---------------------------|-------------|--------------------------|
| Progress Payments: | \$ 144,291 | EMPSCO (design) |
| | \$4,082,081 | J&B Modern Tech (const.) |

Prepared By: 
John U. Pabunan

Reviewed By: 
J. G. Acosta, P.E.

Approved By: 
M. R. Camacho, P.E.

**Harmon to Tanguisson 34.5 kV Underground Lines Conversion
Quarterly Compliance Report
July - September 2009
LAST REPORT**

| | DESCRIPTION | APPROVED BUDGET | Latest Eng'g Estimate | Commitment To Date | Actual Expenditures | BALANCE OF APPR'D BUDGET | Remarks |
|----|--------------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|----------|
| | Design | | | | | | |
| 1 | Advertise/Bid/Award Design | \$ - | \$ - | | | \$ - | |
| 2 | Design Engineering | \$ 2,800.69 | \$ 2,800.42 | \$ 2,800.42 | \$ 2,800.42 | \$ 0.27 | |
| 3 | A/E Design Development | \$ 144,291.00 | \$ 144,291.00 | \$ 144,291.00 | \$ 144,291.00 | \$ - | 9443 OP |
| 4 | Advertise/Bid/Award Construction | \$ - | \$ - | \$ - | \$ - | \$ - | |
| | Total Design | \$ 147,091.69 | \$ 147,091.42 | \$ 147,091.42 | \$ 147,091.42 | \$ 0.27 | |
| | Equipment/Materials | | | | | | |
| 5 | 35 kV Power Cable | \$ 768,080.00 | \$ 768,080.00 | \$ 768,080.00 | \$ 768,080.00 | \$ - | 10552 OP |
| 6 | Splice | \$ 164,950.00 | \$ 164,950.00 | \$ 164,950.00 | \$ 164,950.00 | \$ - | 10552 OP |
| 7 | Steel Poles | \$ 149,050.00 | \$ 149,050.00 | \$ 149,050.00 | \$ 149,050.00 | \$ - | 10552 OP |
| | Total Equipment/Materials | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ - | |
| | Construction Management | | | | | | |
| 8 | Construction Engineering | \$ 30,000.00 | \$ 17,638.84 | \$ 17,638.84 | \$ 17,638.84 | \$ 12,361.16 | |
| 9 | On-Site Construction Inspection | \$ 47,000.00 | \$ 71,165.36 | \$ 71,165.36 | \$ 71,165.36 | \$ (24,165.36) | |
| 10 | T&D Labor | \$ 80,977.31 | \$ 12,860.60 | \$ 12,860.60 | \$ 12,860.60 | \$ 68,116.71 | |
| | Total Construction Management | \$ 157,977.31 | \$ 101,664.80 | \$ 101,664.80 | \$ 101,664.80 | \$ 56,312.51 | |
| | Construction | | | | | | |
| 11 | Mobilization/Demobilization | \$ 180,000.00 | \$ 180,000.00 | \$ 180,000.00 | \$ 180,000.00 | \$ - | 10552 OP |
| 12 | Survey | \$ 60,000.00 | \$ 60,000.00 | \$ 60,000.00 | \$ 60,000.00 | \$ - | |
| 13 | Substation Switchyard | \$ 19,620.00 | \$ 19,620.00 | \$ 19,620.00 | \$ 19,620.00 | \$ - | |
| 14 | 34.5 kV Manhole | \$ 192,975.00 | \$ 192,975.00 | \$ 192,975.00 | \$ 192,975.00 | \$ - | |
| 15 | 6" Conduit | \$ 1,668,549.00 | \$ 1,668,549.00 | \$ 1,668,549.00 | \$ 1,668,549.00 | \$ - | |
| 16 | 4" Conduit | \$ 376,048.00 | \$ 376,048.00 | \$ 376,048.00 | \$ 376,048.00 | \$ - | |
| 17 | 35 kV Power Cable Installation | \$ 204,375.00 | \$ 204,375.00 | \$ 204,375.00 | \$ 204,375.00 | \$ - | |
| 18 | Fiber Optic Cable Installation | \$ 25,615.00 | \$ 25,615.00 | \$ 25,615.00 | \$ 25,615.00 | \$ - | |
| 19 | Underground Cable Splicing | \$ 65,610.00 | \$ 65,610.00 | \$ 65,610.00 | \$ 65,610.00 | \$ - | |
| 20 | Riser Termination 34.5 kV | \$ 13,080.00 | \$ 13,080.00 | \$ 13,080.00 | \$ 13,080.00 | \$ - | |
| 21 | Steel Pole Installation | \$ 16,350.00 | \$ 16,350.00 | \$ 16,350.00 | \$ 16,350.00 | \$ - | |
| 22 | Cable Testing | \$ 40,330.00 | \$ 40,330.00 | \$ 40,330.00 | \$ 40,330.00 | \$ - | |
| 23 | Line/Hardware Removal | \$ 40,439.00 | \$ 40,439.00 | \$ 40,439.00 | \$ 40,439.00 | \$ - | |
| 24 | Pole Removal | \$ 97,010.00 | \$ 97,010.00 | \$ 97,010.00 | \$ 97,010.00 | \$ - | |
| | Total Construction Cost | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ - | |
| | Summary | | | | | | |
| 25 | Design | \$ 147,091.69 | \$ 147,091.42 | \$ 147,091.42 | \$ 147,091.42 | \$ 0.27 | |
| 26 | Equipment/Materials | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ 1,082,080.00 | \$ - | |
| 27 | Construction Management | \$ 157,977.31 | \$ 101,664.80 | \$ 101,664.80 | \$ 101,664.80 | \$ 56,312.51 | |
| 28 | Construction | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ 3,000,001.00 | \$ - | |
| 29 | Total Cost | \$ 4,387,150.00 | \$ 4,330,837.22 | \$ 4,330,837.22 | \$ 4,330,837.22 | \$ 56,312.78 | |

MONTHLY PROGRESS REPORT

- Report Date:** 10/15/09
- Project:** Macheche (X133) to GAA (X170) Underground Line Conversion
- Business Unit:** 100061
- Funding Source:** FEMA Funds (37%)
GPA Excess Bond Funds (63%)
- Project Description:** Underground conversion of existing overhead 34.5 kV transmission line from Macheche Substation (X133) to GAA Substation (X170). This project involves trenching, installation of a conduit system encased in concrete, as well as installation of underground cables and terminations. (Partially funded by FEMA)
- Contracts:**
- | | |
|-------------|-----------------------------------|
| \$ 95,000 | 9461OP (Design - TG Engineers) |
| \$2,613,660 | 12131OP (Civil - J&B Modern Tech) |
| \$ 842,275 | 12130OP (Electrical - MDCI) |
- Administrative Activities:**
- The purchase order for project design was issued to TG Engineers on March 8, 2005.
 - Design was completed on December 16, 2005.
 - The need for construction services was advertised on 12/20/05. Bid opening was held on January 31, 2006.
 - GPA notified GRO of increased project costs and revised BCA on March 06, 2006.
 - GPA notified GRO on March 07, 2006 that construction cost was significantly lower via HDD conduit installation when compared to open trench and applied for approval to proceed with the project utilizing HDD.
 - Notice was given to GPA by GRO to proceed with the project on June 12, 2007 as FEMA has approved the new BCA.
- Construction Activities:**
- Civil construction contract was awarded to J&B Modern Tech on February 20, 2008. Electrical contract was awarded to MDCI also on the same date.
 - Completed construction is as follows (82.12% completed):
 - 20 manholes fabricated
 - 19 manholes installed

- 8,266 linear feet of trenching/backfill completed (out of a total 10,374 lf)
- 100% of cable and cable splices purchased and received
- 81.45% of cables and 75% splices installed
- Anticipated construction completion is November 24, 2009.

Problems Encountered:

The contractor had to conduct an Environmental Baseline Survey regarding fuel-line crossings with Air Force Facilities to obtain the required proper clearances.

The permitting issues were finally resolved with the Department of Public Works and US Air Force on July 10, 2009.

Project Schedule:

| | |
|------------------------|-------------------|
| Design Planned Start: | March 08, 2005 |
| Design Actual Start: | March 08, 2005 |
| Design Planned Finish: | December 30, 2005 |
| Design Actual Finish: | December 15, 2005 |

| | |
|------------------------------|-------------------|
| Construction Planned Start: | November 2007 |
| Construction Actual Start: | February 20, 2008 |
| Construction Planned Finish: | November 2008 |
| Const. Anticipated Finish: | November 24, 2009 |
| Construction Actual Finish: | |

Completed to Date:

| | |
|--------------------------------|-----------------|
| 100% Design | TG Engineers |
| 78.86% Civil Construction | J&B Modern Tech |
| 84.69% Electrical Construction | MDCI |

Progress Payments:


| | |
|----------------|---------------------|
| \$ 95,000.00 | TG Engineers |
| \$1,914,180.84 | J&B Modern Tech |
| \$ 713,330.72 | MD Crisostomo, Inc. |

Prepared By:



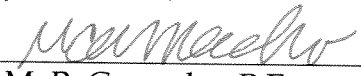
Wei T. Chen

Reviewed By:



J. G. Acosta, P.E.

Approved By:



M. R. Camacho, P.E.

Macheche (X133) to GAA (X170) Underground Line Conversion
Quarterly Compliance Report
July - September 2009

| | DESCRIPTION | APPROVED BUDGET | Latest Eng'g Estimate | Commitment To Date | Actual Expenditures | BALANCE OF APPR'D BUDGET | Remarks |
|----|--------------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|---------|
| | Design | | | | | | |
| 1 | Advertise/Bid/Award Design | | \$ - | | | \$ - | |
| 2 | Design Engineering | \$ 7,000.00 | \$ 6,893.51 | \$ 6,893.51 | \$ 6,893.51 | \$ 106.49 | |
| 3 | A/E Design Development | \$ 95,000.00 | \$ 95,000.00 | \$ 95,000.00 | \$ 95,000.00 | \$ - | 9461 OP |
| 4 | Advertise/Bid/Award Construction | \$ - | \$ - | \$ - | \$ - | \$ - | |
| | Total Design | \$ 102,000.00 | \$ 101,893.51 | \$ 101,893.51 | \$ 101,893.51 | \$ 106.49 | |
| | Equipment/Materials | | | | | | |
| 5 | 35 kV Power Cable | \$550,000.00 | \$ 542,600.00 | \$ 542,600.00 | \$ 488,340.00 | \$ 61,660.00 | 12130OP |
| 6 | Splice | \$79,200.00 | \$ 77,079.00 | \$ 77,079.00 | \$ 69,371.10 | \$ 9,828.90 | 12130OP |
| 7 | Counterpoise Grounding | \$0.00 | \$ 59,440.00 | \$ 56,056.36 | \$ 50,450.72 | \$ (50,450.72) | 12131OP |
| 8 | Riser Termination | \$45,000.00 | \$ 9,092.52 | \$ 8,206.32 | \$ 7,385.69 | \$ 37,614.31 | 12130OP |
| | Total Equipment/Materials | \$ 674,200.00 | \$ 688,211.52 | \$ 683,941.68 | \$ 615,547.51 | \$ (9,741.68) | |
| | Construction Management | | | | | | |
| 9 | Construction Engineering | \$33,000.00 | \$ 30,000.00 | \$ 11,692.84 | \$ 11,692.84 | \$ 21,307.16 | |
| 10 | On-Site Construction Inspection | \$43,150.00 | \$ 41,484.00 | \$ 47,175.74 | \$ 47,175.74 | \$ (4,025.74) | |
| 11 | T&D Labor | \$43,150.00 | \$ 41,484.00 | \$ 8,525.33 | \$ 8,525.33 | \$ 34,624.67 | |
| | Total Construction Management | \$ 119,300.00 | \$ 112,968.00 | \$ 67,393.91 | \$ 67,393.91 | \$ 51,906.09 | |
| | Construction | | | | | | |
| 12 | Mobilization/Demobilization | \$ 500,000.00 | \$ 244,228.00 | \$ 234,187.10 | \$ 213,673.61 | \$ 286,326.39 | 12131OP |
| 13 | Survey | \$ 112,000.00 | \$ 38,000.00 | \$ 33,174.00 | \$ 29,856.60 | \$ 82,143.40 | |
| 14 | Road Work | \$ 39,900.00 | \$ 124,450.00 | \$ 63,502.64 | \$ 57,152.38 | \$ (17,252.38) | |
| 15 | Concrete Structure | \$ 23,132.00 | \$ 15,550.00 | \$ 13,481.00 | \$ 12,132.90 | \$ 10,999.10 | |
| 16 | Traffic Induction Loop Repair | \$ 9,500.00 | \$ 100,000.00 | | \$ - | \$ 9,500.00 | |
| 17 | Substation Switchyard | \$ 38,276.00 | \$ - | \$ 2,923.90 | \$ 2,631.51 | \$ 35,644.49 | |
| 18 | 34.5 kV Manhole | \$ 530,180.00 | \$ 421,350.00 | \$ 299,623.69 | \$ 269,661.32 | \$ 260,518.68 | |
| 19 | Conduit/Raceway for 34.5 kV System | \$ 775,406.00 | \$ 1,566,250.00 | \$ 1,374,349.19 | \$ 1,236,914.27 | \$ (461,508.27) | |
| 20 | 4" Conduit | \$ 246,121.00 | \$ 128,620.00 | \$ 111,473.23 | \$ 100,325.91 | \$ 145,795.09 | |
| 21 | Power Cable Installation | \$ 215,000.00 | \$ 31,634.00 | \$ 25,765.89 | \$ 23,189.30 | \$ 191,810.70 | |
| 22 | Underground Cable Splicing | \$ 65,500.00 | \$ 46,141.00 | \$ 34,605.75 | \$ 31,145.18 | \$ 34,354.83 | |
| 23 | Riser Termination 34.5 kV | \$ 45,018.00 | \$ 3,491.48 | \$ 2,000.00 | \$ 1,800.00 | \$ 43,218.00 | |
| 24 | Cable Testing | \$ 44,675.00 | \$ 6,568.00 | \$ 3,284.00 | \$ 2,955.60 | \$ 41,719.40 | |
| 25 | Line/Hardware Removal | \$ 130,589.00 | \$ 37,264.00 | | \$ - | \$ 130,589.00 | |
| | Total Construction | \$ 2,775,297.00 | \$ 2,763,546.48 | \$ 2,198,370.39 | \$ 1,981,438.57 | \$ 576,926.61 | |
| | Summary | | | | | | |
| 25 | Design | \$ 102,000.00 | \$ 101,893.51 | \$ 101,893.51 | \$ 101,893.51 | \$ 106.49 | |
| 26 | Equipment/Materials | \$ 674,200.00 | \$ 688,211.52 | \$ 683,941.68 | \$ 615,547.51 | \$ 58,652.49 | |
| 27 | Construction Management | \$ 119,300.00 | \$ 112,968.00 | \$ 67,393.91 | \$ 67,393.91 | \$ 51,906.09 | |
| 28 | Construction | \$ 2,775,297.00 | \$ 2,763,546.48 | \$ 2,198,370.39 | \$ 1,981,438.57 | \$ 793,858.43 | |
| 29 | Total Cost | \$ 3,670,797.00 | \$ 3,666,619.51 | \$ 3,051,599.49 | \$ 2,766,273.50 | \$ 904,523.50 | |

MONTHLY PROGRESS REPORT

Report Date: 10/15/09

Project: Marbo to Pagat 34.5 kV Line

Business Unit: 100025

Funding Source: Bond Funds

Project Description: Installation of new underground 34.5 kV transmission line from Marbo Substation via Latte Heights to Pagat Substation to loop feed the Pagat Substation. The Marbo to Radio Barrigada transmission line will be intercepted in the Latte Heights area and routed to Pagat Substation and thence from Pagat to Radio Barrigada Substation. The project includes the upgrade of existing X-62, X-64, X-65, X-66, X-67 34.5 kV breakers. Additionally, installation of grounding transformer at Pagat Substation to limit fault currents is also included.

Design: GPA Engineering

Contract Amount: \$ 103,975.36 Fiber Optics (TRANSPAC)
\$ 1,105.44 RTU/HMI (TRANSPAC)

Administrative Activities:

- GPA is currently revising plans and specifications to reflect routing of line via Latte Heights to Pagat Substation.
- Completed Design
 - Routing plan
 - Construction Details
 - Manhole Schedule
 - AC/DC Schematics
- Pending Design Completion
 - Marbo Substation One-line
 - Marbo Substation Protection Devices
- PUC approval of re-scoping work is pending.
- Design review of plans and specifications is in progress.

Construction Activities:

- Pending design plans and specifications.

Project Schedule: Design Planned Finish: November 27, 2006
Design Actual Finish:

Planned Start Construction: February 20, 2007
Actual Start Construction:
Planned Finish:
Actual Finish:

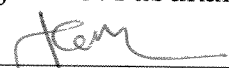
Completed to Date: 96% (Design)

Prepared By:



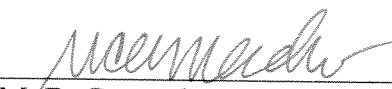
John U. Pabunan

Reviewed By:



J. G. Acosta, P.E.

Approved By:



M. R. Camacho , P.E.

**Marbo To Pagat 34.5 kV Line
Quarterly Compliance Report
July - September 2009**

| | COST CATEGORY | APPROVED BUDGET | LATEST ENG. ESTIMATE | COMMITMENT TO DATE | ACTUAL EXPENSED | BALANCE OF APPR'D BUDGET | REMARKS (STATUS OF ACTIVITY) |
|----|--|------------------------|-----------------------------|---------------------------|------------------------|---------------------------------|-------------------------------------|
| | DESIGN | | | | | | |
| 1 | In-House Design Development | \$ 50,000.00 | \$ 69,066.94 | \$ 69,066.94 | \$ 69,066.94 | \$ (19,066.94) | |
| | TOTAL FOR DESIGN | \$ 50,000.00 | \$ 69,066.94 | \$ 69,066.94 | \$ 69,066.94 | \$ (19,066.94) | |
| | OWNER FURNISHED EQUIPMENT | | | | | | |
| 2 | 35 kV Underground Power Cable | \$ 236,386.00 | \$ 236,386.00 | | | \$ 236,386.00 | |
| 3 | 35 kV Circuit Breaker | \$ 200,000.00 | \$ 200,000.00 | | | \$ 200,000.00 | |
| 4 | 35 kV Disconnect Switches | \$ 120,000.00 | \$ 120,000.00 | | | \$ 120,000.00 | |
| 5 | Relay/Control Panel | \$ 100,000.00 | \$ 100,000.00 | | | \$ 100,000.00 | |
| 6 | Counterpoise, Grounding | \$ 53,594.00 | \$ 53,594.00 | | | \$ 53,594.00 | |
| 7 | Splices | \$ 79,200.00 | \$ 79,200.00 | | | \$ 79,200.00 | |
| 8 | Fiber Optics Communications | \$ 103,975.00 | \$ 103,975.36 | \$ 103,975.36 | \$ 103,975.36 | \$ (0.36) | 6038OP |
| 9 | RTU/HMI | \$ 50,000.00 | \$ 50,000.00 | \$ 1,105.44 | \$ 1,105.44 | \$ 48,894.56 | TRANSPAC |
| | TOTAL FOR OFE | \$ 943,155.00 | \$ 943,155.36 | \$ 105,080.80 | \$ 105,080.80 | \$ 838,074.20 | |
| | CONSTRUCTION MANAGEMENT/ T&D OUTAGES AND WORK | | | | | | |
| 10 | Construction Engineering | \$ 40,000 | \$ 40,000 | | | \$ 40,000.00 | |
| 11 | On-Site Construction Inspection | \$ 45,000.00 | \$ 45,000.00 | | | \$ 45,000.00 | |
| 12 | T&D Labor | \$ 60,000.00 | \$ 60,000.00 | | | \$ 60,000.00 | |
| | TOTAL FOR CM | \$ 105,000.00 | \$ 145,000.00 | \$ - | \$ - | \$ 105,000.00 | |
| | CONSTRUCTION | | | | | | |
| 13 | Mobilization/Demobilization | \$150,000.00 | \$275,000.00 | | | \$ 150,000.00 | |
| 14 | Survey | \$60,000.00 | \$60,000.00 | | | \$ 60,000.00 | |
| 15 | Excavation/Road Repair | \$39,398.00 | \$39,398.00 | | | \$ 39,398.00 | |
| 16 | 35 kV Circuit Breaker Installation | \$44,000.00 | \$44,000.00 | | | \$ 44,000.00 | |
| 17 | 35 kV Disconnect Switches | \$36,000.00 | \$36,000.00 | | | \$ 36,000.00 | |
| 18 | Relay/Control Panel Installation | \$15,000.00 | \$15,000.00 | | | \$ 15,000.00 | |
| 19 | Control Cable Installation | \$15,000.00 | \$15,000.00 | | | \$ 15,000.00 | |
| 20 | Substation Switchyard/Building Work | \$40,539.00 | \$40,539.00 | | | \$ 40,539.00 | |
| 21 | 34.5 kV Riser Structure Termination | \$15,000.00 | \$15,000.00 | | | \$ 15,000.00 | |
| 22 | 34.5 kV Manhole | \$400,000.00 | \$602,336.00 | | | \$ 400,000.00 | |
| 23 | 6" Conduit | \$807,378.00 | \$896,296.00 | | | \$ 807,378.00 | |
| 24 | 4" Conduit | \$157,591.00 | \$157,591.00 | | | \$ 157,591.00 | |
| 25 | 35 kV Power Cable Installation | \$180,422.00 | \$180,422.00 | | | \$ 180,422.00 | |
| 26 | Underground Cable Splicing | \$104,517.00 | \$104,517.00 | | | \$ 104,517.00 | |
| 27 | Cable Testing | \$40,000.00 | \$40,000.00 | | | \$ 40,000.00 | |
| 28 | Substation Equipment Removal | \$20,000.00 | \$20,000.00 | | | \$ 20,000.00 | |
| 29 | Line/Hardware Removal | \$2,000.00 | \$2,000.00 | | | \$ 2,000.00 | |
| | TOTAL FOR CONSTRUCTION | \$ 2,126,845.00 | \$ 2,543,099.00 | \$ - | \$ - | \$ 2,126,845.00 | |
| | SUMMARY | | | | | | |
| 30 | DESIGN | \$ 50,000.00 | \$ 69,066.94 | \$ 69,066.94 | \$ 69,066.94 | \$ (19,066.94) | |
| 31 | OWNER FURNISHED EQUIPMENT | \$ 943,155.00 | \$ 943,155.36 | \$ 105,080.80 | \$ 105,080.80 | \$ 838,074.20 | |
| 32 | CONSTRUCTION MANAGEMENT | \$ 105,000.00 | \$ 145,000.00 | \$ - | \$ - | \$ 105,000.00 | |
| 33 | CONSTRUCTION | \$ 2,126,845.00 | \$ 2,543,099.00 | \$ - | \$ - | \$ 2,126,845.00 | |
| 34 | TOTAL COST | \$ 3,225,000.00 | \$ 3,700,321.30 | \$ 174,147.74 | \$ 174,147.74 | \$ 3,050,852.26 | |

MONTHLY PROGRESS REPORT

Report Date: 10/15/09

Project: San Vitores (X260) to Macheche (X130) Underground Line Conversion

Business Unit: 100057

Funding Source: FEMA Funds (66%)
GPA Excess Bond Funds (34%)

Project Description: Underground conversion of existing overhead 34.5 kV transmission line from Harmon Substation (X097) to Tumon Substation (X227). This project involves trenching, installation of a conduit system encased in concrete, as well as installation of underground cables and terminations. This is funded in part by FEMA through the Hazard Mitigation Grant Program.

| | | |
|-------------------|----------------|-------------------------|
| Contracts: | \$197,100.00 | 9441OP Winzler & Kelly |
| | \$4,330,365.00 | 12125OP J&B Modern Tech |
| | \$1,364,700.00 | 12126OP Core Tech Int'l |

Administrative Activities:

- The purchase order for project design was issued to Winzler and Kelly on March 8, 2005.
- Design was completed on December 12, 2005.
- The need for construction services was advertised on 12/23/05. Bid opening was held on February 2, 2006.
- GPA notified GRO of increased project costs and revised BCA on March 06, 2006.
- GPA notified GRO on March 07, 2006 that construction cost was significantly lower via HDD conduit installation when compared to open trench and applied for approval to proceed with the project utilizing HDD.
- Project was placed on hold on April 27, 2006 pending FEMA approval of a revised Benefit-Cost Analysis.
- Notice was given to GPA by GRO to proceed with the project on June 12, 2007 as FEMA has approved the new BCA.

Construction Activities:

- Civil construction contract was awarded to J&B

San Vitores to Macheche 34.5kV Underground Lines Conversion
Engineering Department
Substation/Transmission

Quarterly Status Report
July - September 2009

Modern Tech on March 4, 2008. Electrical contract was awarded to Core Tech International also on the same date.

- Completed construction is as follows (99.5% completed):
 - 28 manholes fabricated
 - 28 manholes installed
 - Trenching/backfilling completed
 - 100% of cable splices purchased and received
 - 100% of U/G cables purchased and received
 - 100% of cables installed
 - 100% of cable splices installed
 - Harmon to San Vitores 34.5 kV Line energized on June 6, 2009
 - Macheche to Harmon 34.5 kV Line energized on August 29, 2009.
 - Overhead lines from old Macheche to San Vitores 34.5 kV lines have been removed.
 - Anticipated project completion is October 30, 2009.

Project Schedule:

| | |
|------------------------------|--------------------|
| Design Planned Start: | January 3, 2005 |
| Design Actual Start: | March 10, 2005 |
| Design Planned Finish: | September 30, 2005 |
| Design Actual Finish: | December 12, 2005 |
| Construction Planned Start: | March 2008 |
| Construction Actual Start: | March 4, 2008 |
| Construction Planned Finish: | March 3, 2009 |
| Const. Anticipated Finish: | October 30, 2009 |
| Construction Actual Finish: | |


Completed to Date:

| | |
|------------------------|-----------------|
| 100% Design | Winzler & Kelly |
| 99.5% Civil Const. | J&B Modern Tech |
| 100% Electrical Const. | Core Tech Int'l |

Progress Payment:

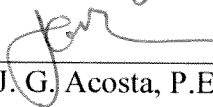
| | |
|-----------------|-----------------|
| \$ 197,100.00 | Winzler & Kelly |
| \$ 3,814,991.31 | J&B Modern Tech |
| \$ 1,195,768.03 | Core Tech Int'l |

Prepared By:



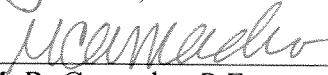
I. B. Loyola, P.E.

Reviewed By:



J. G. Acosta, P.E.

Approved By:



M. R. Camacho, P.E.

**San Vitores (X260) to Macheche (X130) 34.5 kV Underground Line Conversion
Quarterly Compliance Report
July - September 2009**

| | DESCRIPTION | APPROVED BUDGET | Latest Eng'g Estimate | Commitment To Date | Actual Expenditure | BALANCE OF APPR'D BUDGET | Remarks |
|----|--------------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|---------|
| | Design | | | | | | |
| 1 | Advertise/Bid/Award Design | \$ - | \$ - | \$ - | \$ - | \$ - | |
| 2 | Design Engineering | \$ 6,460.47 | \$ 6,460.47 | \$ 6,460.47 | \$ 6,460.47 | \$ - | |
| 3 | A/E Design Development | \$ 197,100.00 | \$ 197,100.00 | \$ 197,100.00 | \$ 197,100.00 | \$ - | 9441 OP |
| 4 | Advertise/Bid/Award Construction | \$ - | \$ - | \$ - | \$ - | \$ - | |
| | Total Design | \$ 203,560.47 | \$ 203,560.47 | \$ 203,560.47 | \$ 203,560.47 | \$ - | |
| | Equipment/Materials | | | | | | |
| 5 | 35 kV Underground Power Cable | \$853,706.00 | \$ 850,008.02 | \$ 850,008.02 | \$ 765,007.22 | \$ 88,698.78 | 12126OP |
| 6 | Counterpoise, Grounding | \$96,840.00 | \$ 93,935.00 | \$ 93,935.00 | \$ 84,541.50 | \$ 12,298.50 | 12125OP |
| 7 | Steel Poles | \$134,519.00 | \$ 134,172.66 | \$ 134,172.66 | \$ 120,755.39 | \$ 13,763.61 | 12126OP |
| 8 | Splices | \$70,538.00 | \$ 70,356.02 | \$ 70,356.02 | \$ 63,320.42 | \$ 7,217.58 | 12126OP |
| | Total Equipment/Materials | \$ 1,155,603.00 | \$ 1,148,471.70 | \$ 1,148,471.70 | \$ 1,033,624.53 | \$ 121,978.47 | |
| | Construction Management | | | | | | |
| 9 | Construction Engineering | \$ 37,660.33 | \$ 37,660.33 | \$ 22,791.77 | \$ 22,791.77 | \$ 14,868.56 | |
| 10 | On-Site Construction Inspection | \$ 61,131.79 | \$ 61,131.79 | \$ 91,955.25 | \$ 91,955.25 | \$ (30,823.46) | |
| 11 | T&D Labor | \$ 61,156.41 | \$ 61,156.41 | \$ 16,617.63 | \$ 16,617.63 | \$ 44,538.78 | |
| | Total Construction Management | \$ 159,948.53 | \$ 159,948.53 | \$ 131,364.64 | \$ 131,364.64 | \$ 28,583.89 | |
| | Construction | | | | | | |
| 12 | Mobilization/Demobilization | \$162,451.00 | \$290,112.00 | \$ 216,334.00 | \$ 194,700.60 | \$ (32,249.60) | 12125OP |
| 13 | Survey | \$63,400.00 | \$61,498.00 | \$ 58,423.10 | \$ 52,580.79 | \$ 10,819.21 | |
| 14 | Excavation Work/Road Repair | \$162,000.00 | \$157,140.00 | \$ 156,441.60 | \$ 140,797.44 | \$ 21,202.56 | |
| 15 | Traffic Induction Loop Repair | \$112,950.00 | \$109,561.00 | \$ 93,126.85 | \$ 83,814.17 | \$ 29,135.84 | |
| 16 | Substation Switchyard | \$4,686.00 | \$5,000.00 | \$ 4,875.00 | \$ 4,387.50 | \$ 298.50 | |
| 17 | 34.5 kV Riser Structure Termination | \$80,405.00 | \$80,733.06 | \$ 80,733.06 | \$ 72,659.75 | \$ 7,745.25 | |
| 18 | 34.5 kV Manhole | \$595,000.00 | \$577,150.00 | \$ 577,150.00 | \$ 519,435.00 | \$ 75,565.00 | |
| 19 | 6" Conduit | \$2,452,725.00 | \$2,379,143.00 | \$ 2,379,143.00 | \$ 2,141,228.70 | \$ 311,496.30 | |
| 20 | 4" Conduit | \$687,450.00 | \$666,826.00 | \$ 666,826.00 | \$ 600,143.40 | \$ 87,306.60 | |
| 21 | 35 kV Power Cable Installation | \$103,386.00 | \$103,924.19 | \$ 103,924.19 | \$ 93,531.77 | \$ 9,854.23 | |
| 22 | Steel Pole Installation | \$13,064.00 | \$13,030.36 | \$ 13,030.36 | \$ 11,727.32 | \$ 1,336.68 | |
| 23 | Underground Cable Splicing | \$21,847.00 | \$21,960.73 | \$ 21,960.73 | \$ 19,764.66 | \$ 2,082.34 | |
| 24 | Cable Testing | \$6,167.00 | \$6,199.10 | \$ 6,199.10 | \$ 5,579.19 | \$ 587.81 | |
| 25 | Line/Hardware Removal | \$73,931.00 | \$74,315.86 | \$ 43,845.73 | \$ 39,461.16 | \$ 34,469.84 | |
| | Total Construction | \$ 4,539,462.00 | \$ 4,546,593.30 | \$ 4,422,012.72 | \$ 3,979,811.45 | \$ 559,650.55 | |
| | Summary | | | | | | |
| 26 | Design | \$ 203,560.47 | \$ 203,560.47 | \$ 203,560.47 | \$ 203,560.47 | \$ - | |
| 27 | Owner-Furnished Equipment | \$ 1,155,603.00 | \$ 1,148,471.70 | \$ 1,148,471.70 | \$ 1,033,624.53 | \$ 121,978.47 | |
| 28 | Construction Management | \$ 159,948.53 | \$ 159,948.53 | \$ 131,364.64 | \$ 131,364.64 | \$ 28,583.89 | |
| 29 | Construction | \$ 4,539,462.00 | \$ 4,546,593.30 | \$ 4,422,012.72 | \$ 3,979,811.45 | \$ 559,650.55 | |
| 30 | Total Cost | \$ 6,058,574.00 | \$ 6,058,574.00 | \$ 5,905,409.53 | \$ 5,348,361.09 | \$ 710,212.91 | |

MONTHLY PROGRESS REPORT

Report Date: 10/15/09

Project: System Stability and Relay Coordination

Business Unit: 100049

Funding Source: GPA Revenue Funds

Project Description: In 2004, GPA engaged Electric Power Systems, Inc. to conduct a study to examine the robustness of GPA's power system against certain generator outages as well as faults on generators and transmission lines. This project will implement a portion of the recommendations from the System Stability and Relay Coordination Study Report to enhance system reliability and improve protection of GPA assets. Implementation includes the following:

- Replacement of electromechanical relays with SEL electronic type relays
- Development of revised and new relay settings
- Installation of GPS clocks for time synchronization of event reporting
- Installation of Trip Coil Monitoring devices to eliminate nuisance trips.

Contractor: EPS, Inc. A/E - Study

Contract Amount: \$249,302 EPS, Inc. 8432 OP

Administrative Activities:

- System stability and relay coordination study was completed on August 2005.
- Implementation of study recommendations is in progress.

Construction Activities:

- GPS Clocks have been installed in 28 (out of 28) locations: San Vitores, Pagat, Pulantat, GAA, and Agana 115 kV and 34.5 kV, Anigua, Tamuning, Yigo, Apra, Cabras 1&2, Barrigada, Umatac, Macheche, Andersen, Dededo Dsl, Dededo CT, GIAT, Marbo, Rad Barrigada, Talofof, Cabras 3&4, Orote, Temes CT, Tumon, Tenjo Sub, Tenjo Plant and Tanguisson

- 78 of 120 Trip Coil Monitors have been installed.
- 22 existing SEL communication processors have been programmed to communicate with existing relays at various substations.
- Development of revised and new relay settings has been completed on 66 out of 80 (83%) relays.
- 46 out of 58 (79%) relays requiring replacement have been completed.

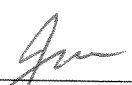
Project Schedule:

| | |
|--------------------------------|------------------|
| Planned Start Design: | August 1, 2004 |
| Actual Start Design: | August 1, 2004 |
| Planned Finish Design: | December 8, 2004 |
| Actual Finish Design: | August 23, 2005 |
| Planned Start Implementation: | January 2006 |
| Actual Start Implementation: | June 1, 2006 |
| Planned Finish Implementation: | March 25, 2009 |
| Actual Finish Implementation: | |


Completed to Date:

| | |
|---------|-------------------------|
| 100% | Study/Recommendations |
| 63.00% | <u>Implementation:</u> |
| 65.00% | Trip Coil Monitor |
| 100.00% | GPS Clock Installation |
| 62.5% | Relay Replacements |
| 83.00% | Relay Settings Revision |

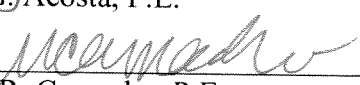
Progress Payment: \$249,302 Design - EPS

Prepared By: 

 Irwin B. Loyola, P.E.

Reviewed By: 

 J. G. Acosta, P.E.

Approved By: 

 M. R. Camacho, P.E.

**System Stability and Relay Coordination
Quarterly Compliance Report
July - September 2009**

| | DESCRIPTION OF WORK | Approved Budget | Latest Eng. Estimate | Commitment To Date | Actual Expenditure | Balance of Approved Budget | Remarks (Status of Activity) |
|--|-----------------------------|-----------------------|-----------------------|---------------------|---------------------|----------------------------|------------------------------|
| System Stability and Relay Coordination Study | | | | | | | |
| 1 | Consultant | \$249,302.00 | \$249,302.00 | \$249,302.00 | \$249,302.00 | \$0.00 | 8432OP |
| 2 | Dynamic System Recorders | \$52,920.00 | \$52,920.00 | \$29,920.00 | \$29,920.00 | \$23,000.00 | 9503OP |
| 3 | Engineering Management | \$9,884.00 | \$9,884.00 | \$9,883.26 | \$9,883.26 | \$0.74 | |
| | TOTAL FOR STUDY | \$312,106.00 | \$312,106.00 | \$289,105.26 | \$289,105.26 | \$23,000.74 | |
| Trip Coil Monitor | | | | | | | |
| 4 | RAW Trip Coil Monitor | \$25,800.00 | \$25,800.00 | \$15,818.00 | \$15,818.00 | \$9,982.00 | 13918OP |
| 5 | Materials | \$20,000.00 | \$20,000.00 | | | \$20,000.00 | |
| 6 | T&D Labor | \$42,500.00 | \$42,500.00 | \$25,000.00 | \$25,000.00 | \$17,500.00 | |
| 7 | Engineering Management | \$5,000.00 | \$5,000.00 | \$278.36 | \$278.36 | \$4,721.64 | |
| | TOTAL FOR TCM | \$93,300.00 | \$93,300.00 | \$41,096.36 | \$41,096.36 | \$52,203.64 | |
| Primary & Backup Relay Installation | | | | | | | |
| 8 | SEL-311C Relay | \$66,300.00 | \$66,300.00 | \$60,733.00 | \$60,733.00 | \$5,567.00 | 13879 OP |
| 9 | SEL-387-5 Relay | \$93,200.00 | \$93,200.00 | \$53,813.00 | \$53,813.00 | \$39,387.00 | 13878 OP |
| 10 | SEL-421 Relay | \$25,900.00 | \$25,900.00 | \$17,162.00 | \$17,162.00 | \$8,738.00 | 12631 OP |
| 11 | SEL-587 Relay | \$11,200.00 | \$11,200.00 | \$4,160.00 | \$4,160.00 | \$7,040.00 | 13879 OP |
| 12 | SEL-501 Relay | \$13,100.00 | \$13,100.00 | \$5,100.00 | \$5,100.00 | \$8,000.00 | |
| 13 | SEL-311A Relay | \$2,650.00 | \$2,650.00 | | | \$2,650.00 | |
| 14 | SEL-351 | \$21,000.00 | \$8,589.00 | \$15,289.00 | \$15,289.00 | \$5,711.00 | 13879 OP |
| 15 | SEL-2030 Relay | \$56,000.00 | \$56,000.00 | \$49,214.00 | \$49,214.00 | \$6,786.00 | 13879 OP |
| 16 | Materials | \$100,000.00 | \$100,000.00 | \$11,802.03 | \$11,802.03 | \$88,197.97 | 12628 OP |
| 17 | T&D Labor | \$252,000.00 | \$252,000.00 | \$191,632.74 | \$191,632.74 | \$60,367.26 | |
| 18 | Engineering Support | \$40,000.00 | \$40,000.00 | \$9,158.81 | \$9,158.81 | \$30,841.19 | |
| | TOTAL FOR RELAYS | \$681,350.00 | \$668,939.00 | \$418,064.58 | \$418,064.58 | \$263,285.42 | |
| GPS Clock | | | | | | | |
| 18 | SEL-2401 GPS Clock | \$16,100.00 | \$14,830.00 | \$14,830.00 | \$14,830.00 | \$1,270.00 | 11497 OP |
| 19 | SEL-9321 Power Supply | \$6,440.00 | \$5,210.00 | \$5,210.00 | \$5,210.00 | \$1,230.00 | |
| 20 | Cables and Accessories | \$12,800.00 | \$12,649.86 | \$12,649.86 | \$12,649.86 | \$150.14 | 11500 OP |
| 21 | Materials | \$7,279.00 | \$7,265.35 | \$7,265.35 | \$7,265.35 | \$13.65 | |
| 22 | T&D Labor | \$13,000.00 | \$13,000.00 | \$13,000.00 | \$13,000.00 | \$0.00 | |
| 23 | Engineering Support | \$2,000.00 | \$2,000.00 | \$2,000.00 | \$2,000.00 | \$0.00 | |
| | TOTAL FOR GPS CLOCKS | \$57,619.00 | \$54,955.21 | \$54,955.21 | \$54,955.21 | \$2,663.79 | |
| SUMMARY | | | | | | | |
| 24 | TOTAL FOR STUDY | \$312,106.00 | \$312,106.00 | \$289,105.26 | \$289,105.26 | \$23,000.74 | |
| 25 | TOTAL FOR TCM | \$93,300.00 | \$93,300.00 | \$41,096.36 | \$41,096.36 | \$52,203.64 | |
| 26 | TOTAL FOR RELAYS | \$681,350.00 | \$668,939.00 | \$418,064.58 | \$418,064.58 | \$263,285.42 | |
| 27 | TOTAL FOR GPS CLOCKS | \$57,619.00 | \$54,955.21 | \$54,955.21 | \$54,955.21 | \$2,663.79 | |
| 28 | TOTAL COST | \$1,144,375.00 | \$1,129,300.21 | \$803,221.41 | \$803,221.41 | \$341,153.59 | |