

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570140	3. DUNS Number 965088057
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4. Recipient Organization University of Hawaii Systems 2530 Dole Street, SAK D-200, Honolulu, HI 96822-2309

5. Current Reporting Period End Date (MM/DD/YYYY) 09-30-2011	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No
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7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.

7a. Typed or Printed Name and Title of Certifying Official Yaa-Yin Fong	7c. Telephone (area code, number and extension) X
	7d. Email Address yaayin@hawaii.edu

7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 11-29-2011
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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 Construction contract with Oceanic Time Warner Cable has been fully executed and construction activities have begun. Engineering and joint pole applications for CAI locations are being done and submitted. We expect to average approximately 24 joint pole applications per month. As joint pole applications are approved for sites, fiber construction will commence for approved sites. The first two interisland 10G wavelengths to Molokai and Lanai were completed this quarter. A CAI on Molokai received upgraded access on the new interisland 10G circuit. Four CAIs that had existing fiber was brought online and a number of sites received upgraded access. Equipment deployment to sites continue, as does activation of sites that already have fiber installed. Distance learning equipment has been fully deployed and is in full production at University of Hawaii sites.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	18	Project is behind the baseline, primarily due to the lengthy EA process and delayed FONSI which delayed construction and equipment deployment. Overall project percentage is based on actual completion of the project - i.e. deploying fiber, equipment and activation of services and may not directly correspond to the percentage expended since equipment may not be deployed and work may not be completed in exactly the same quarter as expenditures are recorded.
2b.	Environmental Assessment	100	Completed per baseline
2c.	Network Design	100	Completed per baseline
2d.	Rights of Way	0	n/a
2e.	Construction Permits and Other Approvals	0	n/a
2f.	Site Preparation	100	Completed per baseline.
2g.	Equipment Procurement	45	All equipment on initial order received. Equipment procurement percentage reflects quantities of equipment, not dollar value. HSPLS has purchased their equipment (as part of their matching) but not all their equipment has been received. Baseline showed 100% of the equipment as received but due to the late EA process, it was not practical to order all of the equipment until construction actually started in this quarter.
2h.	Network Build (all components - owned, leased, IRU, etc)	12	Almost all UH sites have been upgraded with new equipment and certain fiber segments have been upgraded with new capacity. Interisland connections to Molokai and Lanai were completed and Molokai is currently in service. Sites that have existing fiber are in the process of being upgraded as the network allows. This percentage is below baseline due to the delays in the EA process and associated staffing issues.
2i.	Equipment Deployment	15	Equipment deployment is still in progress. Percentage is less than baseline since the staff of the DOE and Libraries have had to concentrate on other projects during this quarter. Almost all UH sites have been deployed.
2j.	Network Testing	12	Network testing is in sync with the Network Build percentage - as sites are built or upgraded, the fiber connections or upgraded paths are tested and the put into production.
2k.	Other (please specify):	0	n/a

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).
 The Oceanic Time Warner construction contract for fiber connections to six Hawaiian islands was fully executed this quarter and the process of fiber deployment has finally begun. Equipment deployment is moving slowly at the DOE and HSPLS sites due to staffing

and other projects in progress. UH sites however have been completely upgraded and almost all sites are finished. UH staff will be assisting the DOE and HSPLS staff install equipment and prepare the sites for fiber installs. The DOE and HSPLS have also committed to concentrate on the BTOP project going forward.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	3	Construction just started this quarter after receipt of the FONSI at the end of last quarter so completion total is much lower than the Baseline. Two new backbone miles and a total of 1 mile of lateral fiber have been activated.
New network miles leased	0	n/a
Existing network miles upgraded	159	159 miles of backbone fiber have been upgraded with new capacity. This is less than the Baseline as equipment deployment and staffing delays have delayed site upgrades.
Existing network miles leased	0	n/a
Number of miles of new fiber (aerial or underground)	3	Total of 3 new miles (including backbone and lateral) have been activated. This is far less than the Baseline since construction just started this quarter but is expected to significantly increase in the following quarters.
Number of new wireless links	0	n/a
Number of new towers	0	n/a
Number of new and/or upgraded interconnection points	0	n/a

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	0
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	0
Average term of signed agreements (in quarters)	0

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:

n/a

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

n/a

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this this third party operates (600 words or less).

n/a

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	n/a
	Providers with signed agreements receiving improved access	0	n/a
	Providers with signed agreements receiving access to dark fiber	0	n/a
	Please identify the speed tiers that are available and the number of subscribers for each	0	n/a
Community Anchor Institutions (including Government institutions)	Total subscribers served	23	A total of 23 CAIs have been given upgraded access or new access to date. That is well below the Baseline since construction was just recently started due to the late receipt of the FONSI.
	Subscribers receiving new access	6	4 CAIs were given new access this quarter for a total of 6. This is less than the Baseline since construction was just recently started due to the late receipt of the FONSI.
	Subscribers receiving improved access	17	6 CAIs were given improved access this quarter for a total of 17. This is less than the Baseline because deployment of new equipment to the sites was delayed by equipment delivery and installation delays.
	Please identify the speed tiers that are available and the number or subscribers for each	2	There are two speed tiers - 10Gbps and 1Gbps. 2 sites have received upgraded circuits at 10Gbps, All other sites (90) are at 1Gbps, including the two sites that received new access.
Residential / Households	Entities passed	0	n/a
	Total subscribers served	0	n/a
	Subscribers receiving new access	0	n/a
	Subscribers receiving improved access	0	n/a
	Please identify the speed tiers that are available and the number of subscribers for each	0	n/a
Businesses	Entities passed	0	n/a
	Total subscribers served	0	n/a
	Subscribers receiving new access	0	n/a
	Subscribers receiving improved access	0	n/a
	Please identify the speed tiers that are available and the number of subscribers for each	0	n/a

7. Please describe any special offerings you may provide (600 words or less).

none

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).

n/a

9. Community Anchor Institutions:

Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Hilo High School	Hilo	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use. Prior to BTOP the site had a 6Mbps cable modem access.
Hilo Intermediate	Hilo	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use. Prior to BTOP the site had a 6Mbps cable modem access.
Baldwin High School	Wailuku	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use. Prior to BTOP the site had a 6Mbps cable modem access.
King Kekaulike High School	Makawao	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use. Prior to BTOP the site had a 6Mbps cable modem access.
Hawaii Community College	Hilo	Higher Ed	yes	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.
University of Hawaii at Hilo	Hilo	Higher Ed	yes	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.
Maui High School	Kahului	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use. Prior to BTOP the site had a 6Mbps cable modem access.
Maui Research and Technology Center	Kihei	Higher Ed	yes	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.
Molokai Education Center	Kaunakakai	Higher Ed	yes	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.
Institute for Astronomy	Honolulu	Higher Ed	yes	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).

Activation of the 10Gbps interisland circuit to Lanai should be completed in the next quarter. Other interisland links should also be activated during the next quarter. Oceanic expects to be able to start pulling fiber to the CAIs starting in the next quarter and the corresponding sites will be added to the fiber network. We also expect to complete the procurement of the remaining equipment (DWDM, UPS and CPE) and begin installation of the equipment on the neighbor islands. Project should see significant progress in completion percentages over the next quarter with a corresponding increase in matching funds as construction progresses.

Projected Forecasts

New Network Miles: 48 New backbone and lateral miles

Total CAIs connected: 51 CAIs Improved, 38 CAIs New Access

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	37	Previous delays have caused the project to fall behind the baseline. However recent installations and the start of construction is allowing the project to slowly catch up to the baseline numbers. Project should see significant progress in completion percentages over the next quarter with a corresponding increase in matching funds as construction progresses. Although closely related, overall project percent completion will not directly correspond to percentage expended and is not expected to do so for this project for a number of reasons including: equipment may be received but not installed in exactly the same quarter, equipment may be received and installed but not paid for or drawn down within the same quarter, work may be done but not yet paid for and drawn down in the same quarter and specific item costs might vary slightly (up or down) from budgeted amounts.
2b.	Environmental Assessment	100	completed per baseline
2c.	Network Design	100	completed per baseline
2d.	Rights of Way	0	n/a
2e.	Construction Permits and Other Approvals	0	n/a
2f.	Site Preparation	100	completed per baseline
2g.	Equipment Procurement	95	Almost all equipment in the network design will have been purchased by the end of the quarter. Procurement will be slightly less than the Baseline until construction can progress to the point where the additional equipment will be needed and procured.
2h.	Network Build (all components - owned, leased, IRU, etc.)	24	Previous delays have caused the project to fall behind baseline. All interisland links should be completed by this quarter and more CAIs will be connected to the network.
2i.	Equipment Deployment	50	Although over the next quarter the DOE and HSPLS will be making a push to complete the installs on Oahu and begin the installation of the equipment on the neighbor islands, deployment is not expected to catch up to the Baseline projections during this quarter.
2j.	Network Testing	24	Network testing will track Network Build and will continue to be behind the Baseline until the project catches up with installations. As sites are connected, the links will be fully tested and then put into production.
2k.	Other (please specify):	0	n/a

3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

The EA and FONSI delay is still impacting the progress of the project. We are working towards catching up with the baseline as much as possible. We will continue to look for ways to streamline equipment deployment among the project partners such as the Libraries and Oceanic and increase efficiencies to speed up deployment to the sites. We expect that additional assistance we are giving to the Libraries to install their equipment will help us to meet the milestone in future quarters.

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$75,000	\$0	\$75,000	\$110,948	\$0	\$110,948	\$110,948	\$0	\$110,948
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$2,200,000	\$608,554	\$1,591,446	\$200,000	\$58,000	\$142,000	\$2,200,000	\$608,554	\$1,591,446
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$25,528,000	\$7,061,446	\$18,466,554	\$2,600,000	\$754,000	\$1,846,000	\$5,717,000	\$1,285,000	\$4,432,000
j. Equipment	\$14,663,000	\$823,200	\$13,839,800	\$4,537,453	\$229,767	\$4,307,686	\$13,808,000	\$660,000	\$13,148,000
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
l. SUBTOTAL (add a through k)	\$42,466,000	\$8,493,200	\$33,972,800	\$7,448,401	\$1,041,767	\$6,406,634	\$21,835,948	\$2,553,554	\$19,282,394
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of l and m)	\$42,466,000	\$8,493,200	\$33,972,800	\$7,448,401	\$1,041,767	\$6,406,634	\$21,835,948	\$2,553,554	\$19,282,394

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0

b. Program Income to Date: \$0