QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identification Number	3. DUNS Number
Department of Commerce, National Telecommunications and Information Administration	NT10BIX5570140	965088057

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)	6. Is this the last Report of the Award Period?
03-31-2012	○ Yes ◉ No

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	7c. Telephone (area code, number and extension)
Yaa-Yin Fong	X
	7d. Email Address
	yaayin@hawaii.edu

7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):
Submitted Electronically	05-18-2012

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).

Construction continues for the project. Engineering and joint pole applications are proceeding and have been tracking expected turn around times. 79 joint pole applications have been submitted and 55 have been approved by the end of this quarter. Fiber has been pulled to 27 new sites. Those sites have not yet been connected to the optical network due to the layout of the network topology. All interisland circuits have been completed and are in service. Additional sites that had existing fiber have been activated. The Ke Ala 'Ike BTOP CCI project was funded solely for network implementation so does not include project-specific community outreach efforts. These outreach efforts are included in a separate companion BTOP PCC project, Access for All, which is placing well over 600 new public computers in over 60 of our Ke Ala 'Ike sites (community college and public libraries) on 6 islands. 24 jobs were created as part of Oceanic's construction activities this quarter. Major expenditures were $3.3M for network equipment, UPSes and DWDM equipment.

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	38	An additional 27 sites have had fiber built to them this quarter. None of the sites however have had their optical paths lit yet due to the network topology. Project is still behind the baseline due to the delay in beginning construction. Overall flow of the project is progressing and timely responses from HawaiianTel Joint Pole apps are working in the projects' favor. 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 not all equipment may be deployed or work completed in 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	98	Almost all equipment has been purchased for the project and is in the process of being received and inventoried. Equipment procurement percentage reflects quantities of equipment, not dollar value. Procurement is less than the Baseline since it is not practical to order the final equipment items until most of the installations are complete.
2h.	Network Build (all components - owned, leased, IRU, etc)	36	Sites that have existing fiber have been upgraded or installed as the network topology allows. Key hub sites have been upgraded and put into service as the network topology allows. 27 sites have had fiber installed this quarter but the optical paths have not yet been built so they have not been counted in the network build but are reflected in the overall project percentage. The network build percentage is below baseline due to initial delays from late receipt of the FONSI. Project timelines have been adversely affected by the additional time it took to process the FONSI approvals. Project participants have been working on improving production rates over the last quarter. Based on projected build rates, the project is estimating that it should reach baseline numbers towards the later quarters of Year 3
2i.	Equipment Deployment	60	Equipment continues to be deployed to sites across the state by HSPLS, DOE and UH staff but deployment is below the baseline. Staffing issues are contributing to the delay of installing of equipment but the deployment delays have not impacted the overall project progress. The project is expecting to reach baseline numbers towards the early quarters of Year 3.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2j.	Network Testing	36	Network testing is in sync with Network Build percentage. As sites are built or upgraded, fiber connections or upgraded paths are tested and then put into production.Project timelines have been adversely affected by the additional time it took to process the FONSI approvals. Project participants have been working on improving production rates over the last quarter. Based on projected build rates, the project is estimating that it should reach baseline numbers towards the later quarters of Year 3
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).

Previous quarter's coordination issues between all parties have been worked out and the weekly construction calls are occurring. These communications paths have streamlined the process of surveys, approvals and actual construction so that multiple sites are able to be built in a week. During this quarter 27 sites were built. At the end this quarter the DOE staff member who was in charge of the network deployment side of the BTOP project left and his roles and responsibilities have been assigned to others within the DOE. While the project does not expect significant delays due to this personnel change, there may be short term impacts. No assistance from the BTOP program is requested or required at this time.

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	13	Additional miles were built to 27 sites but are not counted as they have not yet been activated. No change from last quarter for lateral miles as all sites installed are on the backbone and do not have any lateral miles. The number of miles will remain below the baseline for the next few quarters as the project catches up from earlier delays in construction startup.
New network miles leased	0	n/a
Existing network miles upgraded	284	31 miles of backbone fiber were upgraded this quarter for a total of 284 miles upgraded. This number is still below baseline due to previous quarters' construction delays.
Existing network miles leased	0	n/a
Number of miles of new fiber (aerial or underground)	13	Additional miles were built to 27 sites but are not counted as they have not yet been activated. This is below the baseline due to the previous quarters' delays.
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**	49	11 CAIs were given new or improved access this quarter. This is well below the baseline due to delays from the previous quarters from the late receipt of the FONSI. Project timelines have been adversely affected by the additional time it took to process the FONSI approvals. Project participants have been working on improving production rates over the last quarter. Based on projected build rates, the project is estimating that it should reach baseline numbers towards the later quarters of Year 3
	Subscribers receiving new access	18	4 CAIs were given new access this quarter for a cumulative total of 18. This is less than the baseline due to the delayed start of construction as well as the network topology limitations.Project timelines have been adversely affected by the additional time it took to process the FONSI approvals. Project participants have been working on improving production rates over the last quarter. Based on projected build rates, the project is estimating that it should reach baseline numbers towards the later quarters of Year 3
	Subscribers receiving improved access	31	7 CAIs were given improved access this quarter for a cumulative total of 31. This is less than the baseline due to the delayed start of construction as well as the limitations of the network topology. Project timelines have been adversely affected by the additional time it took to process the FONSI approvals. Project participants have been working on improving production rates over the last quarter. Based on projected build rates, the project is estimating that it should reach baseline numbers towards the later quarters of Year 3
	Please identify the speed tiers that are available and the number or subscribers for each	2	There are two speed tiers - 10Gbps and 1Gbps. 1 of the new sites are at 10Gbps and 2 improved sites are at 10Gbps. All others were at 1Gbps.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
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).

n/a

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
Lanai High & Elementary School	**Lanai City**	**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.**
Lanai Ed Center	**Lanai City**	**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.**
Kailua High School	**Kailua**	**K-12**	**no**	**BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.**
Kalani High School	**Honolulu**	**K-12**	**no**	**BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.**

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
Kalanimoku Building	Honolulu	Other Government Facility	no	BTOP Connectivity provides 1 or 10Gbps to University of Hawaii Higher Education Sites to the UH Network for student and staff use.
Leeward Community College - Waianae	Waianae	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.
Liliuokalani Building	Honolulu	K-12	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Kaiser High School	Honolulu	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.
Niu Valley Middle School	Honolulu	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.
Waianae Intermediate School	Waianae	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.
Waimanalo Elementary and Intermediate	Waimanalo	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.

Project Indicators (Next Quarter)

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

Newly built sites are scheduled to be added to the network so that optical paths can be built. We should be able to add a significant number of new sites to the network.

Projected Forecasts:
New Network Miles: 62 New backbone and lateral miles
Total CAIs Connected: 15 CAIs improved, 32 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	52	Overall completion is still behind the Baseline due to the late receipt of FONSI and resulting construction delays in previous quarters. The process for pole approvals has improved so significant progress in fiber construction is expected over the next quarter. Overall project percent completion will not directly correspond to percentage expended since equipment may not be deployed in the same quarter as paid and siginifcant construction work completed near the end of the quarter may not be paid until the following quarter.
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	98	Almost all equipment will have been received and paid by the end of this quarter. Procurement will be slightly less than the Baseline until construction progresses to the point where final equipment is needed and procured.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2h.	**Network Build (all components - owned, leased, IRU, etc.)**	38	All interisland links have been completed and significant progress will be made with new or improved CAIs as the fiber construction progresses. The network build percentage is still below the Baseline due to the previous quarters' delays in the EA process and the resulting construction delays. The project is expecting to reach baseline numbers towards the later quarters of Year 3.
2i.	**Equipment Deployment**	71	Installation of equipment will continue on all islands but deployment is not expected to catch up to the Baseline projections this quarter. UH continues to work with DOE and HSPLS to complete the installs on Oahu and begin the installation of the equipment on the neighbor islands over the next quarters. The project is expecting to reach baseline numbers towards the later quarters of Year 3.
2j.	**Network Testing**	38	Network testing will track network build and will continue to be behind the Baseline until the project catches up on installations. As sites are connected, the links will be fully tested and put into production.The project is expecting to reach baseline numbers towards the later quarters of Year 3.
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).

Previous quarters' delays continue to impact the reported progress of the project. As construction progresses, the project will track closer to the projected baseline. Project completion percentages include fully completed sites as well as sites that have just fiber installed, but are not connected to the network yet. Approved pole use applications are coming in at a steady rate. Construction is averaging 4 - 5 sites per week for Oahu. Construction will start on the neighbor islands this quarter. Network activations should increase as the key hub sites around the ring are built and spliced in. Equipment deployment continues on all islands. Regular coordination and planning meetings with DOE, HSPLS, UH and Oceanic has proven to be successful over the last two quarters and will continue to occur to streamline the construction and site activation across the network. No assistance from the BTOP program is requested or required at this time.

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.

Cost Classification	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		
	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	$110,978	$0	$110,978	$110,978	$0	$110,978
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	$758,769	$214,516	$544,253	$877,769	$254,516	$623,253
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	$3,374,715	$919,397	$2,455,318	$4,610,715	$1,337,397	$3,273,318
j. Equipment	$14,663,000	$823,200	$13,839,800	$10,354,813	$671,917	$9,682,896	$10,531,813	$703,917	$9,827,896
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	$14,599,275	$1,805,830	$12,793,445	$16,131,275	$2,295,830	$13,835,445
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	$14,599,275	$1,805,830	$12,793,445	$16,131,275	$2,295,830	$13,835,445

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