

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, Honolulu, HI 96822-2309
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5. Current Reporting Period End Date (MM/DD/YYYY) 09-30-2013	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 Director	7c. Telephone (area code, number and extension) (808) 956-7800
	7d. Email Address yaayin@hawaii.edu

7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 11-19-2013
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Project Indicators (This Quarter)

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

The project has completed all sites except those that were identified in the approved no-cost 6 month extension. 96% of the original sites were completed by end the of the original grant, 8/31/2013.

Two CAIs were connected via leased circuits from HawaiianTel as the Oceanic Time Warner Cable fiber could not reach these sites due to easements or other limitations.

The grant is now in the no-cost extension period.

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	95	Overall project percentage reported is based on funds expended (total funds including match) but the actual progress, based on the fiber construction, equipment installation and site activation is 96% complete. Overall project percentage is now tracking actual progress as the primary contractor has caught up with their billing.
2b.	Environmental Assessment	100	Completed
2c.	Network Design	100	Completed
2d.	Rights of Way	0	n/a
2e.	Construction Permits and Other Approvals	0	n/a
2f.	Site Preparation	100	Completed
2g.	Equipment Procurement	98	Almost all equipment has been purchased for the project. 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)	96	As sites are spliced into the INET rings they are being activated where the network topology allows. The network build is less than the baseline due to delays encountered at the beginning of the project.
2i.	Equipment Deployment	95	Equipment deployment continues across the State by the DOE, HSPLS, and UH Staff.
2j.	Network Testing	96	Network testing is tracking the network build.
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 project completed 96% of the fiber builds that were originally planned at the start of the grant. The project team and its contractors were able to complete all but 14 sites of the original 381. Those 14 sites will be completed during the 6 month no cost extension that was granted to the project.

No assistance from the BTOP project is requested 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	394	A total of 85 new miles and 9 lateral miles of fiber were built for a total 94 new miles this quarter. The revised new network miles deployed will be 409 miles as stated on the previous quarter's PPR due to the inability for the project to build fiber to Hana and Haleakala.
New network miles leased	0	n/a
Existing network miles upgraded	759	4 miles of backbone fiber were upgraded this quarter for a cumulative total of 759 miles. The remaining 11 miles will be upgraded when the sites on the no cost extension are completed.
Existing network miles leased	0	n/a
Number of miles of new fiber (aerial or underground)	394	A total of 394 new network miles of fiber have been built to date. This number is lower than baseline as the project was unable to build the Hana and Haleakala runs.
Number of new wireless links	1	One Wireless line between Waimalu Elementary and Pearlridge Elementary was installed due to the inability to get fiber into the Pearlridge Elementary campus.
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	374	A total of 30 CAIs were given new or upgraded access this quarter. The number of CAIs is less than baseline as the project was not able to complete 14 CAIs. Those 14 are in the no cost extension that the project was granted.
	Subscribers receiving new access	301	26 CAIs were given new access this quarter for a total of 301 CAIs with new access. The remaining 14 sites are in the no cost extension that the project was granted.
	Subscribers receiving improved access	73	4 CAIs were given improved access this quarter. This matches the baseline of 73 sites that would have received improved access.
	Please identify the speed tiers that are available and the number or subscribers for each	2	There are two speed tiers - 10Gbps and 1Gbps. 24 are 10Gbps and the remaining 350 are at 1Gbps.
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
Hale Pokahu	Hilo	Higher Ed	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Honaunau Elementary	Captian Cook	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Hookena Elementary	Captain Cook	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Ka Umeke Kaeo PCS	Hilo	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Volcano School Art/Sci PCS	Volcano	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Hana School	Hana	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Hana Ed Center	Hana	Community College	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Hana Library	Hana	Library	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Gold Bond Building	Honolulu	Higher Ed	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Haleiwa Elementary	Haleiwa	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Heeia Elementary	Kaneohe	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Kahala Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Kalihi-Palama Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Koko Head Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Lanakila Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Lyon Arboretum	Honolulu	Higher Ed	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Nimitz Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Pearl Harbor Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Pearl Harbor Kai Elementary	Honolulu	K-12 School	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
Salt Lake Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Shafter Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Solomon Elementary	Wahiawa	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Waialae EI PCS	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Waialea Livestock Experiment Station	Haleiwa	Higher Ed	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Wilson Elementary	Honolulu	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Puu Nia Niau	Makawao	Other Gov Facilities	yes	BTOP connectivity provides 1Gpbs bandwidth to the University of Hawaii for staff and student use.
Kahe Point Cable Station	Kahe	Other Gov Facilities	yes	BTOP connectivity provides 10Gpbs bandwidth to the University of Hawaii for staff and student use.
Haleakala	Makawao	Higher Ed	yes	BTOP connectivity provides 10Gpbs bandwidth to the University of Hawaii for staff and student use.
Pearlridge Elementary	Aiea	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education network for student and staff use.
Ke Ana Laahana	Hilo	K-12 School	no	BTOP connectivity provides 1Gpbs bandwidth to the State of Hawaii Department of Education 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).
 The project has completed over 96% of the sites on the build list. It is quite an achievement considering that the project only had two full years to build due to the delay in obtaining the Environmental Assessment. Of the 14 sites left to build, the project is confident that it will complete most if not all of these sites during the 6 month no cost extension that was granted.

The project is projecting that 11 CAI's will be completed over the next quarter.

New Lateral Miles: 6 Miles

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	97	Overall project completion percentage is based on funds expended (total funds including match). The actual construction completion percentage is estimated at 98% as the project continues to work on the extension sites.
2b.	Environmental Assessment	100	completed
2c.	Network Design	100	completed
2d.	Rights of Way	0	n/a
2e.	Construction Permits and Other Approvals	0	n/a

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2f.	Site Preparation	100	completed
2g.	Equipment Procurement	99	Almost all equipment will have been purchased by the next quarter. Previous quarter estimation was that all equipment was to be purchased. Due to the extension, some equipment purchases were delayed to wait for fiber build completion of the extension sites.
2h.	Network Build (all components - owned, leased, IRU, etc.)	98	Network build will be almost all completed - we are expecting the last few extension sites to still be in construction by the end of next quarter per the extension project plan.
2i.	Equipment Deployment	98	Almost all equipment will have been deployed to the sites and will be awaiting the fiber build. Previous quarter estimation was that all equipment was to be purchased. Due to the extension, some equipment installations were delayed to wait for fiber build completion of the extension sites.
2j.	Network Testing	98	Network testing tracks the network build.
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 project has completed over 96% of the sites that were originally planned for. The remaining 4% (14 total sites) will be completed during the 6 month no cost extension that was granted.

The project team has come up with a project plan that estimated the builds over the next 6 months. At this time we are expecting that about 10 of the sites will be completed by the end of the next quarter. There are a number that require a single pole replacement that may extend into the next quarter - or possibly beyond that. Should the site not be able to be completed by the end of the no cost extension ending on February 28, 2014, the DOE will ensure that funds are available for the completion of the work.

No assistance from the BTOP program is requested 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.

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	\$111,008	\$0	\$111,008	\$111,008	\$0	\$111,008
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	\$2,200,000	\$608,554	\$1,591,446	\$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	\$24,154,901	\$6,604,559	\$17,550,342	\$24,891,388	\$6,829,559	\$18,061,829
j. Equipment	\$14,663,000	\$823,200	\$13,839,800	\$13,804,444	\$849,776	\$12,954,668	\$13,967,050	\$849,776	\$13,117,274
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	\$40,270,353	\$8,062,889	\$32,207,464	\$41,169,446	\$8,287,889	\$32,881,557
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	\$40,270,353	\$8,062,889	\$32,207,464	\$41,169,446	\$8,287,889	\$32,881,557

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
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