



State of South Dakota

Bureau of
Information &
Telecommunications

October 21, 2008

To: Senator Orville Schmidt,
REED Appropriations Subcommittee Chairman

From: Otto Doll, BIT Commissioner

RE: BIT REED Project Update

Please find attached a report on the current status of the Research,
Education, and Economic Development Network (REED).

Cc: Senator Maher
Representative Burg
Representative Davis
Representative Dennert
Annie Mehlaflaff, LRC

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I. Research Usage

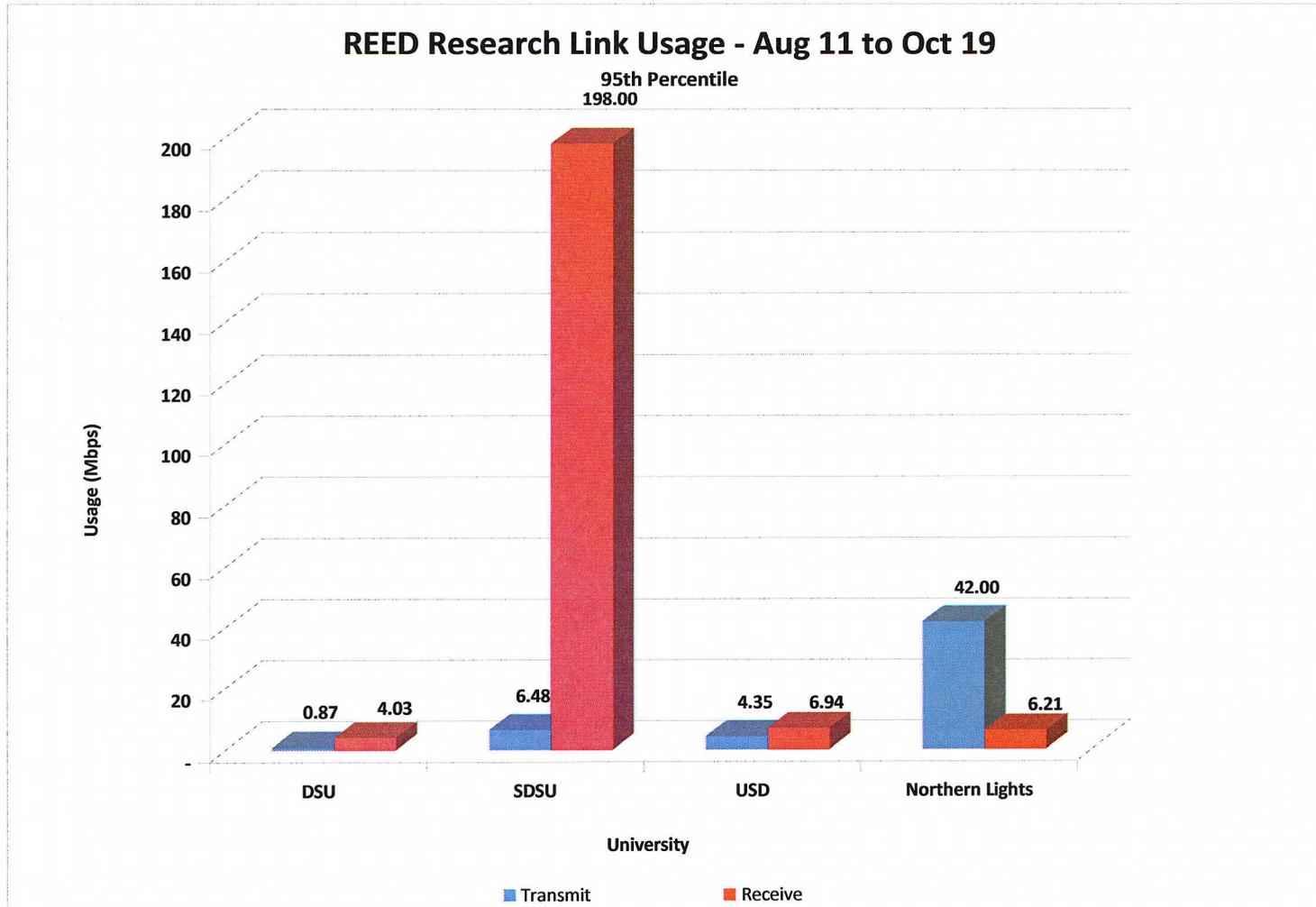
July summary:

Site	Current Capacity (Mbps)	Minutes above 50% usage since 4/2007	%age of time over 50% utilization since 4/2007	Capacity Increase via REED
Northern Tier (Mpls)	155	676	.1%	6,452%
BHSU	5			200,000%
EROS	1,000	0	0%	1,000%
DSU	10			100,000%
NSU	10			100,000%
SDSMT	12			83,333%
SDSU	1,000	0	0%	1,000%
USD	17			58,824%
USDSU	9			111,111%

The above reporting period is approximately 620,000 minutes (from April 2007 to July 2008).

October Status:

The individual REED links have a capacity of 10 Gbps. The highest usage peak thus far reached 1.98% with a SDSU receiving information. All of the links have significant capacity available to them.





II. Network

July summary:

Fiber optics & optical equipment installation completed. Edge & campus equipment standards established.

Out of state connections to Wyoming & North Dakota being reviewed.

October status:

Phase 1 sites operational

Sioux Falls Eastern Hub, DSU, SDSU, USD & DDN connections completed
1st week of August.

EROS connected in early September.

Kansas City link operational in late September.

Phase 2 fiber optics and optical equipment installation completed. Rapid City Western Hub, BHSU, NSU, Pierre & SDSMT scheduled for early – mid November installations.

Phase 3 preparations on schedule for Sioux Falls University Center (mid-December) and Sanford Laboratory (January 2009).

Out-of-State connections:

Held 2 meetings with representatives of North Dakota to discuss connectivity options. Currently waiting for their response.

III. Budget

July summary:

Equipment costs higher than projected but network savings make up for those additional costs.

October Status:

Project costs continue to be under budget.

Project Budget: \$14,070,557

Year to Date Expenses: \$7,954,167

Projected FY09 Expenses: \$13,668,508

Projected Difference: \$402,049

IV. Data Center

July summary:

Researcher Survey distributed. Data Center location being discussed between Sioux Falls and Madison.

October Status:

Draft of recommendations from Data Center group was just received in early October. Discussions forthcoming regarding a centralized high performance computing cluster (HPCC), upgrading existing clusters on campus and out-sourcing computer time. The original FY09 REED budget includes \$1.4M for Data Center related activities.

V. Campus Networks

July summary:

All campus networking hardware, firewalls, intrusion detection systems and security information management systems has been ordered.

October status:

All BoR campuses (other than the University Center in Sioux Falls) have installed their hardware and the equipment is operational.

VI. Miscellaneous

- SDN Contract

July summary:

Contract completed.

October status:

Not applicable. Completed.

- Memorandum of Understanding (MOU)

July summary:

Contract with SDN took precedent over MOU. MOU progress stalled.

October status:

Draft of MOU has been exchanged and meeting with the Board of Regents to discuss is being scheduled.

- Non-REED sites

July summary:

Design for sites such as Sioux Falls Medical School, School for Deaf, Rapid City Medical School, Rapid City Nursing, etc. is in progress.

October status:

Design finalized and circuits ordered. Installations planned for starting in late October.