

EHB 2662

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

THE STATE SENATE
Thursday, March 23, 2000

ENGROSSED
House Bill No. 2662
As Amended

ENGROSSED HOUSE BILL NO. 2662 - By: DEUTSCHENDORF, BENSON, BRADDOCK,
PERRY and NANCE of the House and ROBINSON and WILLIAMS of the
Senate.

(telecommunications - amending Sections 2, 3, 4, 5
and 6, Chapter 225, O.S.L. 1999 (70 O.S. Supp. 1999,
Sections 1210.722, 1210.723, 1210.724, 1210.725 and
1210.726) - Virtual Internet School in Oklahoma
Network (VISION) Act -emergency)

SECTION 1. AMENDATORY Section 2, Chapter 225, O.S.L.

1999 (70 O.S. Supp. 1999, Section 1210.722), is amended to read as
follows:

Section 1210.722 The Oklahoma Legislature, recognizing the
advancements of technology in education, hereby establishes, if
funds are made available, the Virtual Internet School in Oklahoma
Network (VISION) Pilot Program for the development of a virtual
internet school in the state. The purpose of the Pilot Program
shall be to provide verifiable information on the advantages of web-
based instructional programs. The Pilot Program shall concentrate
on the development of web-based instructional programs in
mathematics for all grades, beginning with the third grade. The
Pilot Program shall also enable development and testing of

(Bold face denotes Committee Amendments)

1 procedures and standards so that implementation of a virtual
2 internet school network statewide will progress smoothly.

3 For purposes of the Pilot Program, the virtual internet school
4 shall consist of web-based instructional programs delivered via
5 standard internet connections at any one of four levels. The Pilot
6 Program shall begin implementation at level one and shall phase in
7 each successive level as the features are developed and can be
8 supported. Level one consists of traditional online instruction
9 featuring textual and graphic data. Level two consists of level one
10 features along with audio and chat support. Level three consists of
11 level one and two features along with one-way video support. Level
12 four consists of level one, two, and three features along with two-
13 way video conferencing support.

14 SECTION 2. AMENDATORY Section 3, Chapter 225, O.S.L.
15 1999 (70 O.S. Supp. 1999, Section 1210.723), is amended to read as
16 follows:

17 Section 1210.723 The State Department of Education shall be the
18 coordinating agency for the Virtual Internet School in Oklahoma
19 Network (VISION) Pilot Program. ~~The Oklahoma Educational Television~~
20 ~~Authority (OETA) shall be the collaborative agency responsible for~~
21 ~~the delivery of instructional content.~~ The Department and OETA
22 shall work with the school districts participating in the Pilot
23 Program and acquire any resources and equipment necessary for the

1 implementation and support of the Pilot Program. All resources and
2 equipment acquired for the Pilot Program shall comply with
3 recommendations and meet procedures and standards established by the
4 Virtual Internet School Pilot Program Coordinating Committee created
5 in Section ~~5~~ 1210.725 of this ~~act~~ title. ~~OETA shall be responsible~~
6 ~~for housing and maintenance of the equipment housed at and~~
7 ~~maintained by OETA.~~ The Department and ~~OETA~~ shall not acquire any
8 resources or equipment for the Pilot Program unless the Committee
9 has recommended the acquisition.

10 SECTION 3. AMENDATORY Section 4, Chapter 225, O.S.L.
11 1999 (70 O.S. Supp. 1999, Section 1210.724), is amended to read as
12 follows:

13 Section 1210.724 A. Nine public school districts shall be
14 selected to participate in the Virtual Internet School in Oklahoma
15 Network (VISION) Pilot Program. Each of the nine school districts
16 shall represent different areas of the state. The Superintendent of
17 Public Instruction, the Chancellor of Higher Education and the
18 Cabinet Secretary for Science and Technology, upon agreement of at
19 least two of the three shall select the school districts for
20 participation in the Pilot Program.

21 B. 1. To qualify to be selected to participate in the VISION
22 Pilot Program, school districts shall have installed or commit to
23 install the following:

- 1 a. a minimum of a single compressed video T-1 digital
2 circuit that is connected to a OneNet DS3 hub site,
3 b. a LAN/WAN connection that supports Fast Ethernet
4 backbones or greater with 100Mbps service to the
5 desktop,
6 c. desktops capable of authenticating to a server
7 operating system that natively supports a multiple
8 processor Kernel, server clustering, and a web browser
9 capable of supporting server side multicast
10 technologies with 128 bit encryption. Servers as
11 receivers of content from VISION distribution points
12 shall support the selected server operating system and
13 be capable of delivering and storing fifty (50) hours
14 of media, and
15 d. access servers and associated telecommunications
16 circuits that allow ~~private~~ remote access to the
17 school district's LAN/WAN.

18 2. Preference shall be given to qualified school districts that
19 commit to invest in any of the following:

- 20 a. are connected or will connect to one of the thirty-two
21 OneNet DS3 upgrade sites,
22 b. have deployed or committed to deploy ~~edge~~ routers that
23 have the capability of servicing multiple T-1 digital

1 circuit interfaces and support load balancing across
2 the additional T-1 circuits,
3 c. have or acquire ~~edge~~ routers that support 10BaseT,
4 Fast Ethernet, Gigabit Ethernet, or ATM and the
5 upcoming IP V.6 (Internet II) implementation, or
6 d. have or commit to install 100Mbps dedicated services
7 to the desktops by phase 2 of the implementation of
8 the Pilot Program with desktops that have a minimum of
9 PII 266 MHz equivalent or greater processor speeds if
10 supporting desktops that are non-Intel architecture
11 based and support CODEC software/hardware which is
12 capable of receiving and delivering video as defined
13 under the H.323 standards and be multiconferencing
14 enabled.

15 C. The Committee may choose additional school districts to
16 participate in the Pilot Program if the Committee determines the
17 additional school districts would enhance the Pilot Program. The
18 Committee shall have the authority to establish rules, policies,
19 standards and sanctions that participating school districts shall
20 comply with while participating in the Pilot Program.

21 D. Selection of participating school districts shall be made ~~by~~
22 August 1, 1999 within thirty (30) days after the effective date of
23 this act.

1 SECTION 4. AMENDATORY Section 5, Chapter 225, O.S.L.
2 1999 (70 O.S. Supp. 1999, Section 1210.725), is amended to read as
3 follows:

4 Section 1210.725 A. There is hereby created the Virtual
5 Internet School Pilot Program Coordinating Committee. The Committee
6 shall consist of nine (9) members who shall be selected by the
7 Superintendent of Public Instruction, the Chancellor of Higher
8 Education, and the Cabinet Secretary for Science and Technology,
9 upon agreement of at least two of the three.

10 B. Each public school district selected to participate in the
11 Pilot Program shall be represented by one member on the Committee.
12 The members shall be proficient in technology tools or applications
13 and shall be either administrators, teachers, curriculum
14 specialists, or other individuals who are residents of the school
15 district that member represents.

16 C. The following shall serve as ex officio, nonvoting members
17 of the Committee:

18 1. The State Superintendent of Public Instruction or a
19 designee;

20 2. The Executive Director of the Oklahoma Educational
21 Television Authority or a designee;

22 3. The Director of the State Department of Vocational and
23 Technical Education or a designee;

- 1 4. The Chancellor of Higher Education or a designee;
2 5. The Secretary of Education or a designee;
3 6. The Secretary of Science and Technology or a designee; and
4 7. The Director of the Department of Rehabilitation Services or
5 a designee.

6 D. Appointment of members of the Committee shall be made ~~by~~
7 ~~August 2, 1999~~ within thirty (30) days after the effective date of
8 this act.

9 E. The State Superintendent of Public Instruction shall call
10 the first meeting of the Committee ~~on or before August 15, 1999~~
11 within forty-five (45) days after the effective date of this act.

12 The Committee shall select the Chair and the Vice Chair of the
13 Committee from among their respective appointments at the first
14 meeting. Subsequent meetings of the Committee shall be held at the
15 call of the Chair or by a quorum of the members. The Committee
16 shall meet at such times as is necessary. A quorum shall consist of
17 a majority of the voting members of the Committee.

18 F. Members of the Committee shall receive no compensation for
19 serving on the Committee, but shall receive travel reimbursement as
20 follows:

21 1. State agency employees who are members of the Committee
22 shall be reimbursed for travel expenses incurred in the performance

1 of their duties by their respective agencies in accordance with the
2 State Travel Reimbursement Act; and

3 2. All other Committee members shall be reimbursed by the State
4 Board of Education for travel expenses incurred in performance of
5 their duties on the Committee, in accordance with the State Travel
6 Reimbursement Act.

7 SECTION 5. AMENDATORY Section 6, Chapter 225, O.S.L.
8 1999 (70 O.S. Supp. 1999, Section 1210.726), is amended to read as
9 follows:

10 Section 1210.726 A. The first objectives of the Committee
11 shall be to:

12 1. ~~Establish standards and procedures for acquiring resources~~
13 ~~and equipment for the Pilot Program;~~

14 2. ~~Make recommendations on the construction and deployment of a~~
15 ~~statewide server array with the necessary storage to support the~~
16 ~~storage and retrieval of curriculum content for a statewide virtual~~
17 ~~internet school. For purposes of this act, "server array" shall~~
18 ~~mean a centralist repository for streaming resources for the Pilot~~
19 ~~Program;~~

20 3. ~~Make recommendations on additional hardware equipment and~~
21 ~~internet connectivity for each school district participating in the~~
22 ~~Pilot Program;~~

1 4- Develop and implement a highly secure and locally controlled
2 web-based software system for schools which utilizes an Open
3 Database Connectivity (ODBC) compliant object-oriented database
4 management system which is capable of delivery of internet-based
5 video in accordance with established standards. The management
6 system will function to create an integrated system that provides
7 relationships between school data on ~~student testing and assessment,~~
8 accreditation, teacher certification, curriculum validation and
9 alignment, financial reporting modules, and any further data deemed
10 necessary. The software system will include a mechanism to deliver
11 the integrated data in specialized content mediums, including, but
12 not limited to text, graphics, audio, video, and multiple media
13 integration with associated web-based content profiling
14 capabilities. The software system shall be developed not later than
15 August 31, 2001. Development of the software system shall be
16 contingent upon the securing of private matching funds; and

17 5- 2. Develop content, standards for distribution, and
18 procedures for deployment onto the networks of web-based curriculum
19 ~~content; and~~

20 6- programs in mathematics for all grade levels beginning with
21 the third grade. The web-based curriculum content for mathematics
22 shall be developed not later than August 31, 2001.

23 B. The Committee shall also:

1 1. Establish standards and procedures for acquiring resources
2 and equipment for the Pilot Program;

3 2. Make recommendations on the construction and deployment of a
4 statewide server array with the necessary storage to support the
5 storage and retrieval of curriculum content for a statewide virtual
6 internet school. For purposes of this act, "server array" shall
7 mean a centralist repository for streaming resources for the Pilot
8 Program;

9 3. Make recommendations on additional hardware equipment and
10 internet connectivity for each school district participating in the
11 Pilot Program; and

12 4. Develop and implement site training for teachers and
13 administrators on web-based instruction and management.

14 ~~B.~~ C. As necessary to carry out its charge, the Committee may
15 seek technical assistance from specialists in applicable areas. The
16 Committee may establish working groups composed of specialists and
17 other individuals to assist the Committee in accomplishing its work.

18 ~~C.~~ D. The Committee shall make recommendations to the State
19 Board of Education ~~and OETA~~ of persons to be employed by the Board
20 ~~or OETA~~ to work on the Pilot Program project. No person shall be
21 employed unless the Committee has made a recommendation concerning
22 the position.

1 SECTION 6. It being immediately necessary for the preservation
2 of the public peace, health and safety, an emergency is hereby
3 declared to exist, by reason whereof this act shall take effect and
4 be in full force from and after its passage and approval.

5 COMMITTEE REPORT BY: COMMITTEE ON EDUCATION, dated 3-20-00 - DO
6 PASS, As Amended and Coauthored.