

U.S. Department of Education

Washington, D.C. 20202-5335



APPLICATION FOR GRANTS UNDER THE

STATEWIDE LONGITUDINAL DATA SYSTEMS

CFDA # 84.372A

PR/Award # R372A070010

Grants.gov Tracking#: GRANT00233145

Closing Date: MAR 15, 2007

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Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission: <input type="radio"/> Preapplication <input checked="" type="radio"/> Application <input type="radio"/> Changed/Corrected Application	* 2. Type of Application: <input checked="" type="radio"/> New <input type="radio"/> Continuation <input type="radio"/> Revision	* If Revision, select appropriate letter(s): _____ * Other (Specify) _____
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* 3. Date Received: 03/14/2007	4. Applicant Identifier: _____
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5a. Federal Entity Identifier: _____	* 5b. Federal Award Identifier: _____
---	--

State Use Only:

6. Date Received by State: _____	7. State Application Identifier: _____
-------------------------------------	---

8. APPLICANT INFORMATION:

* a. Legal Name: Nevada Department of Education

* b. Employer/Taxpayer Identification Number (EIN/TIN): 886000022	* c. Organizational DUNS: 809887722
--	--

d. Address:

* Street1:	700 E. Fifth St.
Street2:	_____
* City:	Carson City
County:	_____
* State:	NV: Nevada
Province:	_____
* Country:	USA: UNITED STATES
* Zip / Postal Code:	89701

e. Organizational Unit:

Department Name: _____	Division Name: APAC
---------------------------	------------------------

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Ms.	* First Name: Bette
Middle Name: _____	
* Last Name: Hartnett	
Suffix: _____	

Title: Fed/Related Programs Consultant-Grant Writer

Organizational Affiliation:
Nevada Department of Education

* Telephone Number: 775-687-9222	Fax Number: 775-687-9113
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* Email: bhartnett@doe.nv.gov

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

U.S. Department of Education

11. Catalog of Federal Domestic Assistance Number:

84.372

CFDA Title:

Statewide Data Systems

*** 12. Funding Opportunity Number:**

ED-GRANTS-121806-001

* Title:

Statewide Longitudinal Data Systems CFDA 84.372A

13. Competition Identification Number:

84-372A2007-1

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Statewide, 17 school districts, 3 charter schools

*** 15. Descriptive Title of Applicant's Project:**

Nevada Longitudinal Data System

Attach supporting documents as specified in agency instructions.

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="2,543,213.00"/>
* b. Applicant	<input type="text" value="(b)(4)"/>
* c. State	<input type="text"/>
* d. Local	<input type="text"/>
* e. Other	<input type="text"/>
* f. Program Income	<input type="text"/>
* g. TOTAL	<input type="text"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- a. This application was made available to the State under the Executive Order 12372 Process for review on .
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

- Yes
- No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

**** I AGREE**

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:
Middle Name:
* Last Name:
Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

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Standard Form 424 (Revised 10/2005)
Prescribed by OMB Circular A-102

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

Attachments

AdditionalCongressionalDistricts

File Name

Mime Type

AdditionalProjectTitle

File Name

Mime Type



U.S. DEPARTMENT OF EDUCATION
BUDGET INFORMATION
NON-CONSTRUCTION PROGRAMS

OMB Control Number: 1890-0004

Expiration Date: 06/30/2005

Name of Institution/Organization:
 Nevada Department of Education

Applicants requesting funding for only one year should complete the column under "Project Year 1." Applicants requesting funding for multi-year grants should complete all applicable columns. Please read all instructions before completing form.

SECTION A - BUDGET SUMMARY
U.S. DEPARTMENT OF EDUCATION FUNDS

Budget Categories	Project Year 1 (a)	Project Year 2 (b)	Project Year 3 (c)	Project Year 4 (d)	Project Year 5 (e)	Total (f)
1. Personnel	S 496,604	S 530,009	S 555,177	S 0	S 0	S 1,581,790
2. Fringe Benefits	S 168,845	S 180,203	S 188,760	S 0	S 0	S 537,808
3. Travel	S 28,844	S 36,451	S 28,844	S 0	S 0	S 94,139
4. Equipment	S 950,000	S 200,000	S 200,000	S 0	S 0	S 1,350,000
5. Supplies	S 34,900	S 28,000	S 28,000	S 0	S 0	S 90,900
6. Contractual	S 422,200	S 422,200	S 422,200	S 0	S 0	S 1,266,600
7. Construction	S 0	S 0	S 0	S 0	S 0	S 0
8. Other	S 55,700	S 55,800	S 56,300	S 0	S 0	S 167,800
9. Total Direct Costs (lines 1-8)	S 2,157,093	S 1,452,663	S 1,479,281	S 0	S 0	S 5,089,037
10. Indirect Costs*	S 386,120	S 260,027	S 264,791	S 0	S 0	S 910,938
11. Training Stipends	S 0	S 0	S 0	S 0	S 0	S 0
12. Total Costs (lines 9-11)	S 2,543,213	S 1,712,690	S 1,744,072	S 0	S 0	S 5,999,975

***Indirect Cost Information (To Be Completed by Your Business Office):**

If you are requesting reimbursement for indirect costs on line 10, please answer the following questions:

(1) Do you have an Indirect Cost Rate Agreement approved by the Federal government? Yes No

(2) If yes, please provide the following information:

Period Covered by the Indirect Cost Rate Agreement: From: 7/1/2006 To: 6/30/2007 (mm/dd/yyyy)

Approving Federal agency: ED Other (please specify): _____

(3) For Restricted Rate Programs (check one) -- Are you using a restricted indirect cost rate that:

Is included in your approved Indirect Cost Rate Agreement? or, Complies with 34 CFR 76.564(e)(2)?



U.S. DEPARTMENT OF EDUCATION
BUDGET INFORMATION
NON-CONSTRUCTION PROGRAMS

OMB Control Number: 1890-0004

Expiration Date: 06/30/2005

Name of Institution/Organization:
 Nevada Department of Education

Applicants requesting funding for only one year should complete the column under "Project Year 1." Applicants requesting funding for multi-year grants should complete all applicable columns. Please read all instructions before completing form.

SECTION B - BUDGET SUMMARY
NON-FEDERAL FUNDS

Budget Categories	Project Year 1 (a)	Project Year 2 (b)	Project Year 3 (c)	Project Year 4 (d)	Project Year 5 (e)	Total (f)
1. Personnel	(b)(4)					
2. Fringe Benefits	(b)(4)					
3. Travel	(b)(4)					
4. Equipment	(b)(4)					
5. Supplies	(b)(4)					
6. Contractual	(b)(4)					
7. Construction	(b)(4)					
8. Other	(b)(4)					
9. Total Direct Costs (lines 1-8)	(b)(4)					
10. Indirect Costs	(b)(4)					
11. Training Stipends	(b)(4)					
12. Total Costs (lines 9-11)	(b)(4)					

ASSURANCES - NON-CONSTRUCTION PROGRAMS

OMB Approval No. 4040-0007
Expiration Date 04/30/2008

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

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Prescribed by OMB Circular A-102

9. Will comply, as applicable, with the provisions of the Davis- Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327- 333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93- 205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

<p>* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL Bette Hartnett</p>	<p>* TITLE Fed/Related Programs Consultant-Grant Writer</p>
<p>* APPLICANT ORGANIZATION Nevada Department of Education</p>	<p>* DATE SUBMITTED 03-14-2007</p>

Standard Form 424B (Rev. 7-97) Back

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

Approved by OMB

0348-0046

<p>1. * Type of Federal Action:</p> <p><input type="checkbox"/> a. contract</p> <p><input checked="" type="checkbox"/> b. grant</p> <p><input type="checkbox"/> c. cooperative agreement</p> <p><input type="checkbox"/> d. loan</p> <p><input type="checkbox"/> e. loan guarantee</p> <p><input type="checkbox"/> f. loan insurance</p>	<p>2. * Status of Federal Action:</p> <p><input type="checkbox"/> a. bid/offer/application</p> <p><input checked="" type="checkbox"/> b. initial award</p> <p><input type="checkbox"/> c. post-award</p>	<p>3. * Report Type:</p> <p><input checked="" type="checkbox"/> a. initial filing</p> <p><input type="checkbox"/> b. material change</p> <p>For Material Change Only:</p> <p>year quarter</p> <p>date of last report</p>	
<p>4. Name and Address of Reporting Entity:</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee Tier if known:</p> <p>* Name: Nevada Department of Education</p> <p>* Address: 700 E. Fifth St. Carson City NV: Nevada 89701</p> <p>Congressional District, if known:</p>	<p>5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:</p>		
<p>6. * Federal Department/Agency:</p> <p>U.S. Department of Education-IES</p>	<p>7. * Federal Program Name/Description: Statewide Data Systems</p> <p>CFDA Number, if applicable: 84.372</p>		
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p>		
<p>10. a. Name and Address of Lobbying Registrant (if individual, complete name):</p> <p>* Name: N/A</p> <p>N/A</p> <p>* Address: N/A</p> <p>N/A</p>	<p>b. Individual Performing Services (including address if different from No. 10a):</p> <p>* Name: N/A</p> <p>N/A</p> <p>* Address: N/A</p> <p>N/A</p>		
<p>11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>			<p>* Signature: Bette Hartnett</p> <p>* Name: Ms. Bette Hartnett</p>

	Title: Fed/Related Programs Consultant-Grant Writer Telephone No.: 775-687-9222 Date: 03-14-2007
Federal Use Only:	Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

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CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

* APPLICANT'S ORGANIZATION Nevada Department of Education	
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE Prefix: Ms. * First Name: Bette Middle Name: * Last Name: Hartnett Suffix: * Title: Fed/Related Programs Consultant-Grant Writer	
* SIGNATURE: Bette Hartnett	* DATE: 03/14/2007

SUPPLEMENTAL INFORMATION REQUIRED FOR DEPARTMENT OF EDUCATION GRANTS

1. Project Director

*** Name:**

Mr.

Shawn

Franklin

*** Address:**

700 E. Fifth St.

Carson City

NV: Nevada

89701

USA: UNITED STATES

*** Phone Number:**

775-687-9126

Fax Number:

775-687-9118

Email:

sfranklin@doe.nv.gov

2. Applicant Experience:

Yes No Not applicable to this program

3. Human Subjects Research

Are any research activities involving human subjects planned at any time during the proposed project Period?

Yes No

Are ALL the research activities proposed designated to be exempt from the regulations?

Yes Provide Exemption(s) #:

No Provide Assurance #, if available:

Please attach an explanation Narrative:

FileName

MimeType

Project Narrative

Abstract Narrative

Attachment 1:

Title: Pages: Uploaded File: 9953-84.372A.NV_SLDS.Abstract.pdf

ABSTRACT

Agency Nevada Department of Education

Project Title *Nevada Statewide Longitudinal Data System*

CFDA 84.372A U.S. Department of Education, National Center for Education Statistics, Institute of Education Sciences

Request \$5,999,975, 3 years, August 1, 2007 through June 30, 2010

Purpose Aligned to the grant purpose: To design, develop, and implement Nevada's statewide longitudinal data system to efficiently and accurately manage, analyze, disaggregate, and use individual student data, consistent with the Elementary and Secondary Education Act of 1965. The long-term goal is to enhance and expand the current Nevada system to generate and use accurate and timely data to meet reporting requirements (e.g., EDEN); support decision-making at the state, district, school, and classroom levels; and facilitate research needed to eliminate achievement gaps and improve learning of all students.

Description The System of Accountability Information in Nevada (SAIN) is a statewide longitudinal data system that consists of nightly data collections from Nevada's 20 Local Education Agencies (LEAs). The LEAs are Nevada's 17 school districts and three state sponsored charter schools. The SAIN system tracks student demographics, attendance, courses, course grades, program participation, disciplinary actions, and state administered assessment results. Students are tracked on a daily basis, providing Nevada with the capacity to produce state required reports that support Adequate Yearly Progress (AYP), compliance with *The No Child Left Behind Act* (NCLB), accountability reporting, and state and federal mandated reporting requirements, such as the federal Education Data Exchange Network (EDEN) reporting and the *Nevada Annual Report of Accountability* (ARC). Objectives one through seven will be achieved with grant funds that will supplement existing state operational funding to improve and expand the Nevada longitudinal data system in the following areas of the Nevada SAIN:

1. Creation of a federal EDEN reporting system
2. Addition of new data elements (e.g., teacher unique identification)
3. Inclusion of a teacher unique identification system
4. Integration of teacher licensure data
5. Incorporation of fiscal data
6. Training
7. Building an interface

Project Narrative

Project Narrative

Attachment 1:

Title: Pages: Uploaded File: 9189-Mandatory_84.372A.NV_SLDS.Narrative.pdf

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Nevada Longitudinal Data System

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1. PROJECT NEED

The System of Accountability Information in Nevada (SAIN) is a statewide longitudinal data system that consists of nightly data collections from Nevada's 20 Local Education Agencies (LEAs). The LEAs are Nevada's 17 school districts and three state sponsored charter schools. The SAIN system tracks student demographics, attendance, courses, course grades, program participation, disciplinary actions, and state administered assessment results. Students are tracked on a daily basis, providing Nevada with the capacity to produce state required reports that support Adequate Yearly Progress (AYP), compliance with *The No Child Left Behind Act* (NCLB), accountability reporting, and state and federal mandated reporting requirements, such as the federal Education Data Exchange Network (EDEN) reporting and the Nevada Annual Report of Accountability (ARC), also known as the *Nevada Report Card*. The Nevada Department of Education (NDE) request is for \$5,999,975 over three years. The NDE in-kind contribution is projected at approximately \$5,500,734 over three years. Objectives one through seven will be achieved with grant funds to supplement existing state operational funding to improve and expand the Nevada longitudinal data system in specific areas of the Nevada SAIN:

1. Creation of a federal EDEN reporting system
2. Addition of new data elements (e.g., teacher unique identification)
3. Inclusion of a teacher unique identification system
4. Integration of teacher licensure data
5. Incorporation of fiscal data
6. Training
7. Building an interface

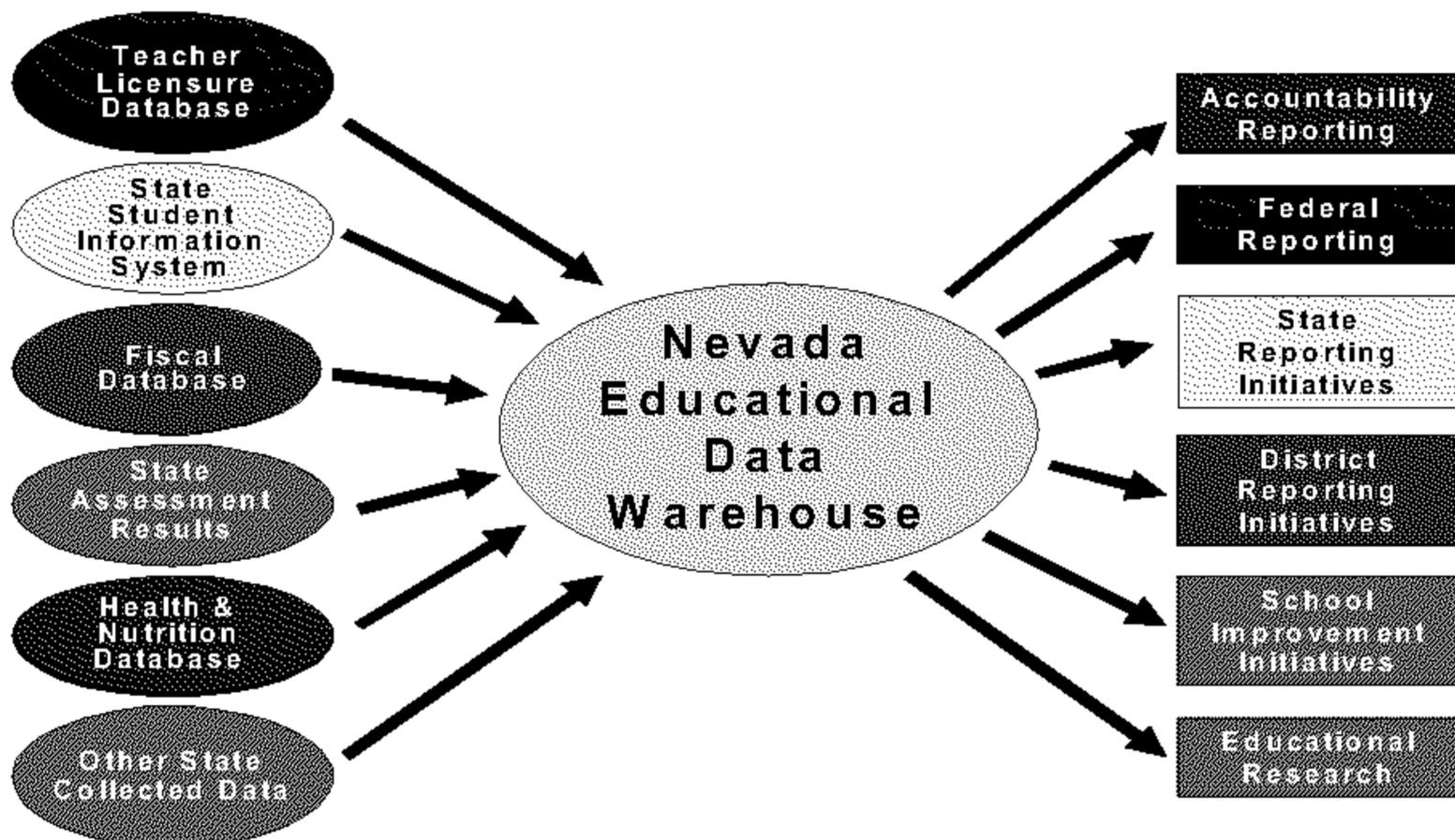


Figure 1. Goal for Nevada Statewide Longitudinal Data System

SAIN overview document: System of accountability information for Nevada. (2005, January 3). OtisEd.

Stakeholders

Decision-making that directly impacts student achievement and success in K-12 schooling and post-secondary education and career choices is most effective when based on valid and reliable data. Stakeholders who have access to quality data are able to address student needs efficiently and cost-effectively. Stakeholders in this grant include students, parents, teachers, school leaders, a steering committee composed of one representative from each NDE office, two Nevada legislators (one Senate, one Assembly), the Nevada System of Higher Education (NSHE), and the NDE SAIN management team headed by grant Project Director Mr. Shawn Franklin. The SAIN advisory committee was established by the 2003 Nevada Legislature with oversight responsibility for implementation of the SAIN system. It is comprised of 17 LEA decision-makers and SAIN points-of-contact assigned by LEA superintendents who meet once per week. The NDE Data Stewards committee is comprised of a representative from each of the eight NDE offices. The Data Stewards committee is a working group of NDE personnel responsible for systems decision-making who meet once per week. All NDE personnel are committed to comply with the grant requirements and achieve objectives.

Nevada's Unprecedented Growth

According to *Nevada Education QuickFACTS* (2007, January), in the last eight years Nevada has recorded unprecedented growth in student population, ballooning from 296,536 to 426,400 or an increase of 30.4% (p. 28). Nevada leads the nation in student growth rate, increasing by nearly 130,000 students in eight years, and 13,453 students from FY 2006 to 2007. The Nevada Department of Education, Office of Child Nutrition and School Health, shows the number of students living in poverty in 2006-2007 has increased statewide to 159,102 or 38.3%, based on Free and Reduced Lunch (FRL) eligibility. This figure represents more than a 100% increase in the last decade.

Of the 17 Nevada school districts designated by county name, Clark (Las Vegas area) with an enrollment of 293,801 students in 326 schools is the largest in Nevada and fifth largest in the United States. Washoe (Reno area) is the second largest in Nevada with 64,200 students in 99 schools. Conversely, rural school districts Esmeralda with 86 students and Eureka with 224 students in three schools in each district rank among the smallest in the nation. Carson City, Clark, Douglas, Lyon, and Washoe are classified as urban; the remaining 12 counties are designated as rural. The majority of the rural areas in Nevada are located between 2 and 10 hours driving time from an urban population center.

Economic Need

One of the major weaknesses in the achievement of goals to expand and refine the Nevada statewide longitudinal data system is a fluctuating economy with limited state funding. Nevada's economy is dependent on unpredictable revenues from mining, gaming, and tourism. Post-9/11, all Nevada school districts were required to reduce their budgets to accommodate a dramatic decrease in gaming and tourism revenue. Since 2001, state revenues have not increased in proportion to the increase in overall state population. There has not been a significant increase in NDE and LEA budgets, the student population continues to significantly outpace the nation in growth (most notably in Clark and Washoe counties), and the Legislature establishes priorities for existing and sustained funding to address the needs of students, teachers, and schools. The small NDE staff cannot be allocated full-time to focus solely on the statewide longitudinal data system project because the NDE is currently understaffed, and funds for improvement of the statewide longitudinal data system are not forthcoming as a legislative funding priority. The

grant funds will purchase hardware, software, licensing, technical contracts with the State of Nevada Department of Information Technology (DoIT), and fund an expert project team whose sole purpose is to ensure the quality and successful implementation of the project. With supplemental grant funding, Nevada will no longer lag behind other states in expansion and improvement of its statewide longitudinal data system. The NDE has requested funding for sustainability from the 2007 Nevada Legislature and will approach the legislature again in 2009 with anticipated documentation of the success of the grant project to evidence and underscore the need for state support for sustainability. The request will be supported by documented efficacy, stakeholder use and feedback, compliance with federal reporting requirements (EDEN), and cost/benefit of the system.

Technical

Grant funds will permit the NDE to “. . . design, develop, and implement the various components of a well-designed, comprehensive statewide longitudinal data system with the capacity to follow individual students’ performance over time, to transmit student information both within and between States, and to provide educators and education researchers with the data needed to improve outcomes for students.”

Unique, Permanent Student Identifier

The SAIN uses a student Unique Identifier (UID) that has been in place since 2004. The UID tracks all students who enroll in a Nevada K-12 public or charter schools and uses a complicated matching algorithm based on eight demographic characteristics. If the match rate is 90% or higher, the student is assigned the correct UID. If the match rate is less than 90%, LEAs have an interface that can “solve” any problems to ensure the longitudinal tracking is as accurate as possible. The Nevada UID system currently automatically matches over 97% of the enrollment events in the state.

Enterprise-wide Data Architecture

The Nevada SAIN enterprise-wide data architecture *is based upon analysis of information needs at classroom, school, district, State, and Federal levels.* The SAIN was created to gather data to support stakeholders in student improvement. The advisory committee is comprised of all stakeholders and meets a minimum of one time each quarter. The advisory committee was involved in all phases of the SAIN to ensure that the system meets the needs of Nevada’s stakeholders. Currently, the system is used to determine AYP, federal and state mandated accountability reporting, and to provide data for LEAs and state and outside agencies (e.g., NSHE). These grant funds will support Nevada’s capacity to provide classroom level longitudinal data analysis to stakeholders. This will be accomplished through reporting, data analysis tools, and business intelligence tools that are accessible to all stakeholders, comply with federal mandates on reporting (EDEN), and include additional data elements and sources to increase the breadth of Nevada’s longitudinal reporting and analysis. Additional data elements and sources include, but are not limited to, the teacher unique identification, numbers of homeless students, and discipline reports for special needs populations at the student level.

The Nevada SAIN *will include, at a minimum, all data elements required for reporting under the Elementary and Secondary Education Act of 1965, including all data elements required for the ED Facts reporting system.* The current system collects student level data on a daily basis on enrollment, attendance, courses, course grades, program participation, disciplinary actions, and state administered assessment results. With this grant, Nevada will be able to add the

elements that are required to fulfill reporting requirements including, but not limited to, EDEN, the teacher unique identification, Title III, technology, and eighth grade literacy.

Nevada's use of the UID system *allows for longitudinal analysis of student achievement growth and program evaluations*. The system permits stakeholders to analyze numbers of data elements, including state administered assessment results, average daily attendance, and other SAIN data elements. The more extensive the data on which to base decision-making at the classroom, school, and district levels, the more feasible is improvement to directly address specific student needs. When student needs are met, student outcomes improve, such as academic achievement, assessment, graduation from high school, and successful transition to post-secondary education or careers.

The SAIN *is relational and links records across information systems*, using several unique keys to relate information across data systems, which include fiscal, teacher licensure, occupational reporting system (ORS), and special education. These keys range from identification of schools across the various data systems to identification of a student who remains at one particular school or who moves from school to school. The grant funds will provide Nevada with the support to be able to add a unique teacher identification system similar to the student UID. Further longitudinal data studies around teacher specific groups can be conducted, providing information that will expand stakeholder capacity to evaluate Nevada's educational system.

The SAIN *specifies a data model, data dictionary, business rules, and quality assurance procedures*. The system has explicit data dictionaries, business rules, and mapping rules on the existing data elements. Quality assurance procedures are in place on a subset of data elements that are used heavily in accountability reporting and analysis. Data quality reports are run automatically on key data elements on a daily basis to provide feedback on data quality to stakeholders. Grant funds will be used to expand the data dictionaries, business rules, and mapping rules for the data elements that will be added. Quality assurance procedures will be expanded to cover all data elements.

Procedures for Protecting the Security, Confidentiality, and Integrity of Data

To ensure that individually identifiable information about staff and students, and their history and families remains confidential in accordance with the Family Educational Rights and Privacy Act (FERPA) and other relevant legislation, SAIN Program Manager and grant Project Director, Mr. Shawn Franklin, is the FERPA officer. An Information Security Officer and information technology (IT) professional, Ms. Cindy Lou Little, is on-site at NDE and works directly with the State of Nevada Office of Information Security (OIS). The SAIN was designed with the assistance of each of these officers and the OIS to comply or exceed the requirements of FERPA and State legislation. The OIS audits, advises, and assists State agencies with security related tasks. The OIS is comprised of information security specialists who support the development and administration of Information Security Programs throughout State government. This support includes:

- Security assessments and accreditation
- Security awareness and training
- Disaster recovery planning and incident management
- Technical security administration

Automated Reporting

The SAIN collects student data automatically on a daily basis. This allows great flexibility in reporting. Grant funds will ensure that all required data elements will be included in the system and that all deadlines can be met. Grant funds will enable Nevada to ensure that all data elements that are required will be included in the system and that all deadlines will be met. The Nevada Accountability Report Card (ARC) is an online accountability report that is in full compliance with NCLB accountability reporting requirements. The ARC is part of the SAIN; ARC data are pulled from the SAIN operational data store (ODS). Three components comprise the ARC, 1) database, 2) website, and 3) data submission application (DSA). Grant funds will add functionality to the ARC website to allow users to download ARC data from the site. It will also streamline the ARC DSA functions to allow LEA and school users to more easily submit data to the ARC.

Data Warehouse

The NDE data warehouse is in the SAIN. The data warehouse allows for longitudinal reporting and is built for longitudinal research. Grant funds will support the addition of data elements for mandated federal reporting (EDEN) and educational research purposes. The NDE is solicited daily by researchers who request data. The data warehouse will expedite the dissemination of data to such researchers. The funds will support expansion of the system to allow access to data by school officials, teachers, researchers, and all other users.

Capacity to Exchange Student Data

Nevada currently does not have the capacity to share data with other states, which may be a goal that grant funds can support. Nevada is now exchanging data with the NSHE. An *Interlocal Agreement Between Nevada Department of Education and Nevada System of Higher Education for the Improvement of Instruction and the Administration of Programs of Financial Aid* was signed in 2006. The NDE and NSHE agreement authorizes the disclosure of educational data to organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of improving instruction or administering financial aid programs. The NDE and NSHE entered into the agreement to exchange data with regard to research, instructional programs, the educational status of pupils of NDE and NSHE, and the NDE employment status of teacher education graduates of the NSHE, all for the purpose of improving instruction or the administration of financial aid programs. In December 2006, the first transfer of data occurred from NDE to the NSHE. Within FERPA regulations, secure exchange of quality data will be completed by 2009, expanding the statewide longitudinal data capacity.

Secure-access Data Marts

Nevada currently has a SSL encrypted portal which serves as a secure access for LEA and State Education Agency (SEA) staff to exchange data. This portal contains the necessary data for assessment, AYP processing, and other Nevada data needs. Currently, LEAs use this portal to access documentation, data (through established reports), and program communication around assessment, AYP, and Nevada specific communication. LEAs are able to access data that are necessary to perform daily and ongoing operations. Grant funds will provide the needed support for Nevada to build a secure interface to allow access to longitudinal data to a wide, diverse group of users. This group will include, but not be limited to, LEA administrators and the public. This access will be role-based and limit access to data based on the user's educational right to have access to student level data. This interface will allow the user to perform ad hoc

queries when studying longitudinal data, both on the student level data warehouse reporting and public level aggregate data through ARC custom search features. Under current and future FERPA regulations, the feasibility of data exchange with other states will be incorporated into the strategic planning phase of the grant project.

Ability to Support Analyses and Research

Nevada's ARC system allows researchers to perform ad hoc queries on the ARC database on almost all elements within the database. Grant funds will increase the functionality of this feature by expanding the ARC elements accessed by ad hoc queries. Nevada's data warehouse includes the following STUDENT data elements:

- Assessment results (state administered assessments)
- Attendance
- Courses and grades
- Discipline events
- Student program participation

Grant funds will facilitate inclusion of additional data elements into the NDE data warehouse:

- Fiscal data
- Teacher licensure data
- All data required for EDEN

Governance Structure

State and local stakeholders will comprise the key governance structure during and beyond the grant project as the system is sustained. The current NDE staff (see Section 3, Project Personnel) comprises the long-term, core governance group for the Nevada longitudinal data system. These experts are full-time and part-time NDE employees who will continue beyond the grant period to guide, facilitate, and maintain data system expansion, enhancement, and training.

The grant project team hired specifically for the implementation of the grant is comprised of temporary consultants hired for the grant period. Beyond the grant period, 2.0 FTE positions may be eliminated (one DBA, Budget Analyst, Technical Report Writer, and Program Evaluator). The remaining members of the original project team will be responsible for ongoing system design, maintenance, training, upgrades, and expansion of the system.

The SAIN advisory committee (see Section 1, Project Need, Stakeholders) is established by legislation, Nevada Revised Statute (NRS) 386.650 and mandated to meet once each quarter. The committee will remain the key steering group for oversight and evaluation of the functionality and success of the expanded system.

Nevada maintains State SAIN point-of-contacts assigned by each LEA superintendent, who meet with the NDE on a weekly basis. These SAIN contacts are involved with daily operations and operation-based functions, while the SAIN advisory committee is involved with direction and policy.

Communication Infrastructure

Nevada currently uses the "Bighorn Portal" for all communication and documentation needs. The site is designed to provide Nevada school district staff with the ability to interact with their school/district data. The site is secured by a user name and password and SSL 128 bit encryption. In addition, this site will provide new reports published by NDE that will provide a valuable data driven decision-making resource for Nevada school districts.

The SAIN contacts meet weekly via a conference call. The agenda of each meeting varies widely based on current needs. The SAIN advisory committee meets each quarter regarding project and program agenda items. For the grant project, the SAIN advisory committee will meet at minimum once each month while in the strategic planning, design, and initial implementation phases. The LEA points-of-contact will continue to meet once each week. A minimum of twice per year reports will be delivered to the NDE on grant project progress and modifications, budget expenditures, and achievement of goals and objectives. The project Administrative Assistant will keep accurate and complete minutes of all meetings, as well as ensure transcripts of conference calls are available in a timely manner. The project Technical Report Writer will be responsible for maintaining records of the information from each group to organize for the project documentation. Meeting agendas and minutes, conference call transcripts, email and other written exchanges, feedback from trainings and stakeholders, and other communication will be clearly and cohesively compiled into a record that will be a component of grant project documentation, as well as dissemination to key stakeholders on a regular and “per request” basis.

The Project Manager and one DBA will attend the grant conference in Washington, D.C. each year to network, collaborate, and exchange information with other grantees and IES personnel. A representative from NSHE will be invited to accompany the NDE team. The NDE personnel will share accomplishments, problems encountered, and solutions or improvements, as well as examine other states’ models and applicability to Nevada.

The Project Manager and one DBA will travel a minimum of once per year to each of Nevada’s 17 school districts to conduct meetings for input from the LEA point of contacts, survey facilities, equipment, and documentation systems, and provide on-site technical assistance. The project team will conduct meetings with stakeholders in each district to solicit input regarding project goals, objectives, and suggested changes.

The Project Manager and one DBA will travel to three states that have implemented successful statewide longitudinal data systems grants. The team will examine those three state models in relation to applicability to Nevada.

Facilitation of Rigorous Analyses and Research

Nevada has established a Data Stewards committee that is charged with analyzing, defining, and establishing data requests and access for key stakeholders. Dr. Paul La Marca heads the committee, which includes a representative of each NDE office. The committee is a working group of decision-makers who determine the procedures, documentation, and dissemination of information. The NDE FERPA officer is an active member of this group.

Training

Currently, NDE conducts training on an “as needed” basis. No long-term plan is in place at this time for regularly scheduled trainings. The development of a plan and regular schedule is a priority objective in the grant project. One of the responsibilities of the NDE staff, project team, and DoIT consultants will be to establish priorities for addressing the training needs of stakeholders. Training in the following areas will include, but is not limited to, appropriate use of data, technical skills in system use, data analysis and application to improve student outcomes, classroom through district strategic planning based on data driven decision-making, research capabilities and applications, security and integrity of data, and individual stakeholder needs. There will be three major training components:

District Data Stewards: Training will focus on empowering key district staff in the ongoing development of key district reports, management of the user profiles, and a clear understanding of the system. Each Data Steward will be able to provide training to stakeholders in the district.

Power Users: The focus will be on a select group of “power users” in each district. They will be fully enabled in areas of report development, ad-hoc analysis, data export, and advanced query concepts.

End Users: Training will be provided in two ways, 1) district personnel who have completed the District Data Steward training can act as on-site trainers and provide hands-on training, and 2) the NDE will develop online training tools for self-service training. This will include hosted web training events, and self-paced computer-based training modules.

Ongoing Formative and Summative Evaluation Procedures

In order to evaluate the efficacy of the deployed solutions, NDE will develop a cost/benefit analysis model. The model will be developed as a component of the grant project and will be available to other SEAs for comparison purposes. The continuous feedback analysis model will provide NDE with information to support system sustainability and effectiveness. The model will be based on the following factors:

Benefits for stakeholders: The NDE will develop a series of surveys to measure the effectiveness of the system and the daily impact in the work of education.

Cost savings benefit analysis: The NDE will develop a model to measure the overall cost savings benefit of the system. This will include the observation of reduced workload due to systemization, increased productivity due to enhanced information access, and the success in obtaining state and federal funds that are realized by the data system implementation.

Overall education performance: The NDE will analyze district/ school/teacher/student performance as impacted by the implementation of the longitudinal data system. This will include, but not be limited to, observations related to enhanced analysis access by educators and the measurement of observed remediation based on this information.

Sustainability

The Nevada Legislature convenes every two years; the 2007 session began in February. The NDE requested \$360,000 and five IT positions for the SAIN operation and management. At the time of grant submission, the final outcome of the request is unknown; however, sustainability is feasible beyond the grant period through potential state allocations and federal and other grant funds. In 2009, it is anticipated that the NDE will again request funding to ensure sustainability of the system. This request will be supported by documentation of the projected success, cost/benefits, and efficacy of the grant project.

The NDE has been able to deploy the current system with a minimal data analysis and IT staff. Sustainability of the system will require more personnel support as the deployment base grows. In order to support ongoing sustainability, the NDE will focus on training, centralization of services, and staff augmentation. In addition, the NDE will continue to develop this system on standards based technologies. The NDE will employ a continuous improvement process to engage stakeholders to ensure the solutions are meeting the needs of the end user. Dr. Rheault and Ms. Dopf will continue to request from the State Legislature allocations for sustainability.

2. PROJECT DESIGN

Plans for Development and Implementation

The initial phases of this project have provided the implementation of a data collection architecture that has increased the quality and efficacy of accountability reporting and analysis. The architecture was developed with limited resources and personnel with a focus to accomplish enhancement and expansion of the operational requirements of a data collection and reporting platform. The *Decision Support Architecture (DSAC) Report* prepared by the Counsel of Chief State School Officers (2004, June) noted the limitation of resources at the NDE to support the full implementation of the SAIN. This limitation prompted a focus on the development of the vertical integration and operational data store (ODS) architecture.

The framework provides the NDE with the foundation for a powerful longitudinal data analysis architecture. The project design goal is to expand, upgrade, and maximize this foundational system. Expansion of the user base who can access data contained in this system, expansion of the data sources which this system will integrate, and expansion of the reporting and analysis tools provided by the system will inform educational decision-making at the classroom through state level.

System Components

1. Functionality of the ARC website custom search (ad hoc querying) feature to increase access to aggregate assessment data will be expanded.
2. ARC Data Submission Application (DSA). The ARC DSA will be enhanced to increase ease and expand capabilities in data collection from LEAs and schools.
3. Develop EDEN gathering, storing, formatting, and reporting system (EDEN-RS).
4. Develop a Teacher Unique identification system.
5. Develop integration of teacher licensure data.
6. Develop integration of fiscal data.
7. Improve the data validation process.
8. Develop a data warehouse reporting portal, which will include ad hoc reporting, data mining, and analysis (intelligent business solution).
9. Integrate user/role based security model.
10. Update Esmeralda and Lander County School Districts' student information systems.
11. Improve the current test system.
12. Develop an Electronic Records Transfer (ERT) system.
13. Study best practices in other states for reporting/analysis interfaces and ERT.

Products and Their Usefulness

1. **Product:** Improve - ARC custom search and ad hoc querying. To facilitate this objective, the ARC database must be expanded and the ARC website must be altered to include this functionality.

Usefulness: Current functionality of the ARC website custom search feature will increase access to aggregate assessment data. This will provide researchers with expanded capacity to download aggregate assessment data for all assessments included in the Nevada Proficiency Examination Program (NPEP) from the ARC website with adherence to FERPA standards.

2. **Product:** Improve - ARC data submission.

Usefulness: ARC Spanish narrative data collection screens will be moved to the English narrative data collection screens so that Spanish translators can more effectively and easily translate narratives. Narrative data collection tools will be added to include formatting options, such as bold, underline, italics, and bulleting.

3. **Product:** Develop - EDEN gathering, storing, formatting, and reporting system (EDEN-RS). Nevada has a three year plan to implement and comply with EDEN regulations by 2009. To accomplish this goal, Nevada must develop the EDEN reporting system (EDEN-RS). EDEN-RS will be modeled after the ARC system, comprised of a database and an online data collection tool similar to the ARC DSA.

Usefulness: The EDEN-RS DSA will allow contributing entities to submit data to the EDEN database and will collect EDEN data that are not already contained in existing Nevada databases.

4. **Product:** Develop - A Teacher Unique ID and integrate teacher licensure data.

Usefulness: Nevada will be able to match teachers across schools and districts longitudinally. Teacher licensure data will become relational and be incorporated into the SAIN system for longitudinal reporting purposes.

5. **Product:** Develop - Incorporate fiscal data into the SAIN system.

Usefulness: Access to fiscal data will allow for longitudinal studies to be conducted which deal with fiscal data related to school accountability reporting.

6. **Product:** Add - A server, staff, and automatic processes to be in place to validate data.

Usefulness: A higher level of reliability in all Nevada data will increase the integrity of the entire system. All data included in the SAIN system will be subjected to multiple validation benchmarks.

7. **Product:** Develop - Data warehouse reporting portal, which includes ad hoc reporting, data mining, and analysis (intelligent business solution).

Usefulness: Nevada teachers, district administrators, and state staff will be able to use data to inform decision-making about improvement in instruction to directly and specifically address student needs. For the first time, Nevada educators will be able to look at data longitudinally to base curricular and instructional decisions on individual student needs. Users will be able to access aggregate data across the state and student level data regarding their own students. This will be accomplished with a role-based security model.

8. **Product:** Add - Many data elements to comply with the EDEN initiative.

Usefulness: Two Nevada LEAs use a student information system (SIS) that is antiquated and difficult to incorporate into the state system. The SIS are very limiting and do not provide a means for Nevada to add additional data elements. This upgrade to a SIS that is widely used in Nevada will greatly improve LEA ability to comply with State goals.

9. **Product:** Develop/Expand - Electronic Records Transfer (ERT).

Usefulness: The NDE and LEAs will be able to exchange student level records with other agencies, in accordance with FERPA requirements. The foundation for ERT has already been established in Nevada with the SAIN system. Establishing a common format and mechanism to transfer data while meeting FERPA requirements is the goal for this product.

Product Integration into Envisioned Nevada Longitudinal Data System

The current data gathering and collecting system (SAIN) is a strong foundation for the described products (see Section 2, Products and Their Usefulness). The SAIN daily gathers data which affords Nevada broad flexibility in the use of the data. With the addition of the listed products, Nevada will be able to provide educators and decision-making stakeholders with longitudinal data to inform planning, development, and implementation of curricula and services that ultimately improve student outcomes and achievement gains.

The grant project team will develop a series of reporting and analysis tools that will provide differentiated access to key stakeholders including local educators, state educators, researchers, policy analysts and the general public. The NDE will develop a series of data analysis interfaces that are fully integrated with the current NDE ODS and Data Warehouse. These data analysis interfaces will be designed to provide user level access to student performance data, as well as provide the delivery platform for fully disaggregated longitudinal data. NDE will implement tools that can be accessed at the teacher level across the state. These tools will be based on Microsoft technologies and provide online analytical processing capabilities, ad-hoc reporting and analysis, and report publishing. Where available based on security, NDE will provide student level reporting and analysis components. The security model will provide differentiated access and comply with FERPA and State privacy regulations.

Data Granularity					
	Student	Class	School	District	State
Teacher	x	x	x		
Principal	x	x	x		
District	x	x	x	x	
NDE	x	x	x	x	x
Legislature			x	x	x

NDE will utilize a professional development model that will roll out these classroom analysis tools in conjunction with training and professional enhancement focused on data analysis and data informed decision making. NDE will implement district specific data marts that will house only the district data and provide secure student level data access to district educators. NDE will distribute the systems administration by training key district staff to manage user access for each data analysis interface.

Each analysis interface will be updated on a nightly basis by the State ODS. The district data analysis interface will be designed to store student level data, teacher level data, building level data, district assessment data, and programmatic data. The district data analysis interface will be accessed via the Bighorn Portal. The portal will provide the end user with access to canned reports, class roster interfaces, and analysis components in the form of analysis cubes and pivot tables. The NDE will provide access for key district and school staff to ad-hoc query and analysis tools.

The architecture will be developed with the use of subject area data marts that will be updated from the data warehouse. The data mart architecture will be designed for optimum user performance and functionality.

Core Elements Completed

1. Analysis of the business needs (multiple reporting and decision support needs) of key stakeholders, including Nevada, districts, school boards, schools, teachers, parents, students, the public, and other constituents. The SAIN advisory committee, SAIN contacts, and NDE SAIN management groups cover all of the above groups.
2. Cataloging current and planned local data collection methods and data structures. Documentation on the current data collection through SAIN has been completed and is available to all users through the Bighorn Portal. These data collection processes have been in production since 2004.
3. Design of statewide longitudinal data systems architecture, as required by the business needs of key stakeholders, who participate as data providers and users, and whose needs should determine the data types and items to be maintained in the system, years of data maintained, and data quality achieved (all of which define the breadth and depth of subsequent possible analyses). The SAIN advisory committee was heavily involved in the initial planning and information gathering, and requirements specifications stages of SAIN. All groups continue to have continual input into maintenance and planning of the SAIN system.
4. The data dictionary, with well-defined content and common definitions for data elements, to assure the same definitions, codes, and periodicity across all schools in the State at data entry points. The data dictionary is continually modified. The current data dictionary is available on the Bighorn Portal.
5. Business rules for data format, acceptable values, missing data options, and logical comparisons to prior data. Current collected data is well-documented and defined. Nevada has three different SIS and each have clearly defined business rules with all associated metadata. Metadata expand the system capacity to speed up and augment searching for resources, provide additional information to users of the data it describes, and sort with reliability and consistency useful information from the mass of information available.
6. Development of an effective, statewide data model that defines and describes the logical and physical relationships between data items and systems, and system structure that allows efficient data maintenance and retrieval (containing relevant and linked current and historical data). It was the decision by the SAIN advisory, SAIN contacts, and NDE management to structure the SAIN in its current state. SAIN has the ability report data as of any date since SAIN has been operational. The system was built with the foresight that changes would occur in the future; therefore, maximum flexibility was the goal.
7. Assurance of secure access to data and formal reports to protect the confidentiality of individuals, in compliance with FERPA and the statistical reliability of results. As stated above, security of student level data involves an ongoing evaluation process. All requests regarding student level data are brought to the security group. The group analyzes all data requests and data systems. The group is made up of the NDE Information Security Officer, NDE FERPA officer, and the State of Nevada Office of Information Security, DoIT Security Department.
8. The database is structured to enable efficient data extraction for time-based analyses. Data is uploaded daily to the SAIN system.

9. Allowing modifications and enhancements to the system's data and architecture, including system expansion over time. The SAIN was built around Microsoft.NET framework. This easily facilitates additions and modifications while not locking the NDE into a particular vendor's "off the shelf" solution.
10. Creating, assigning, and tracking a permanent, unique student identifier (UID) assigned at the state level. Nevada utilizes a unique student UID system.
11. Allowing the matching of individual student records across databases and years for every student enrolled in preK-12 state education system (using an automatic system creation of IDs or an individual creation through direct online interaction with ID system). SAIN uses the Nevada student UID, which automatically matches students to the UID the entire time a student has been enrolled in a Nevada school.
12. Allowing for program evaluation (including potential capacity to track students past the 12th grade). All programs are tracked through the SAIN. Specific data elements follow the student to post-secondary choices of education or career (e.g., remediation classes taken in higher education in a NSHE institution).
13. From districts and/or schools so that the SEA can incorporate data in the system for all students, classrooms, and schools under SEA jurisdiction. All state controlled entities are included in the SAIN system.
14. Provisions for the needs of districts that have limited ability to participate in technology systems. Esmeralda and Lander School Districts are absolute priorities for system upgrades. A system of accountability is legislatively mandated (NRS 386.650) for all state controlled preK-12 grade entities.
15. Conducting cost/benefit and sustainability analyses of dynamic vs. static data extraction systems (data entered directly by school personnel into the statewide system, with instantaneous error feedback vs. data files imported from districts on a periodic basis). Nevada pulls data directly from LEA student information systems. This permits the least possible amount of human interaction. The NDE relies on local student information for immediate feedback. Through the Bighorn Portal LEAs run reports that flag incorrect and/or invalid data.
16. Development of the system according to the designed architecture. The system has been designed according to specifications that were governed by the stakeholder groups listed above.
17. Testing of the system, which is in production.
18. Engaging in longitudinal education research to inform policy and decision-making. Some research is now occurring. The NSHE data transfer is for seniors who graduated in the past year (2006). NSHE plans on matching these students and conducting research projects.

Core Elements In Process of Completion

Development of collaboration among all parties within the SEA and between the SEA and school districts in data collection, reporting, and dissemination. The Data Stewards committee has been formed and is in the initial stages of establishing their charter and revisiting much of the documentation that is available at this point.

Core Elements Plans for the Future: Grant Period

1. Establish business rules for data format, acceptable values, missing data options, and logical comparisons to prior data. This will be completed as part of the grant cycle for the added data elements. Current validation will be enhanced to significantly improve this process.
2. Design systems and procedures to assure correct utilization of data by users and providers.
3. Assure data security and confidentiality, including addressing potential concerns of stakeholders about student privacy in automated systems. The SAIN system is designed to assure secure access to data and formal reports to protect the confidentiality of individuals, in compliance with FERPA and the statistical reliability of results. Continuation of the current processes surrounding the security of student level data will proceed as the system develops.
4. Allow for student record transfers among States when students move across state borders (requiring inter-state agreements and compliant with FERPA regulations). Nevada is in full compliance with FERPA requirements, which do not permit inter-state transfer of student level data at this time. Grant support will enable Nevada to be poised to exchange student records among states if, and/or when, FERPA requirements permit it.
5. Go live with the data warehouse and backup of the warehouse by October, 2009.
6. Design, use, and maintain business intelligence tools (analytical & reporting).
7. Set a target date of 2009 to streamline reporting capabilities to local, state, and federal agencies, using pre-defined, automated reports (e.g., EDEN, NCLB, NCES, and the public)
8. Ensure multiple reporting and analyses needs of different stakeholders will be efficient and broad as training begins in November 2009.
9. Conduct high-level longitudinal analyses, required for data driven decision-making by policymakers, educators, and members of the public.
10. Provide for timely, accurate, and user-friendly dissemination of the needed data, reports, and analyses results.
11. Report and analyze available to parents/guardians and students, teachers, school district administrators, State officials and administrators, universities/colleges, business community, and the public.
12. Engage in longitudinal education research to inform policy and decision-making in conjunction with NSHE.
13. Lead the State, LEAs, and teachers in the development and use of innovative analytical tools and reports to inform policy and decision-making.

Core Elements Plans for the Future: Beyond the Grant Period.

Training

Regularly scheduled training beyond the grant period will continue for key stakeholders on a variety of collection, analysis, and reporting tools. There will be three major training components:

District Data Stewards: Training will focus on empowering key district staff in the ongoing development of key district reports, management of the user profiles, and a clear understanding of the system. This training will identify LEA technology leaders who will be able to provide ongoing training to teachers and other local stakeholders.

Power Users: The focus will be on a select group of “power users” in each district. They will be fully enabled in areas of report development, ad-hoc analysis, data export, and advanced query concepts.

End Users (stakeholders): Training will be provided in two ways, 1) district personnel who have completed the District Data Steward training can act as on-site trainers and provide hands-on training, and 2) the NDE will develop online training tools for self-service training. This will include hosted web training events, and self-paced computer-based training modules.

Documentation

The NDE will provide extensive documentation of the developed system that will include technical specifications, functional specifications, user manuals, and continually revised data dictionaries. The documentation will be disseminated via the NDE Bighorn Portal to authorized users, as well as the U.S. Department of Education and other states.

Hardware

In order to meet the user demand that can be placed on the system, the NDE will propose a web farm and data mart infrastructure. This will require additional hardware resources; Dr. Rheault and Ms. Dopf will request sustained funding from the State, as well as continue to research and apply for grant funds. All hardware components will be purchased from Dell Corporation. The NDE will work with Dell on hardware optimization.

Personnel and Data Architecture

With documented efficacy of the grant project, Dr. Rheault and Ms. Dopf will request personnel who can ensure for all stakeholders the capability to manage, maintain, and use the system effectively and to full capacity. To shorten reporting time and increase the accuracy of student assessment data (e.g., through technology-based assessments), the NDE is ready to enter the next phase of planning and implementation of the longitudinal data system. In 2004, in cooperation with the NDE, OtisEd designed, developed, and deployed the ODS. This database will serve as the enterprise data warehouse platform for NDE. All data will be stored in this database and the ODS will serve as the primary source for state level data reporting, as well as the data source for district/school data analysis applications. In addition, the ODS serves as the data source for the *Nevada Report Card*. For clarification purposes, the originating source of all data in SAIN ranges from large-scale test data files to data entered into district SIS. The data will continue to be sourced from these systems, and the data warehouse will be loaded on a scheduled basis from these systems in order to provide the single record of reference and final source for statewide data reporting and analysis. While the data warehouse framework has been implemented, Nevada is poised to leverage this powerful data source to the desktop and

implement a reporting and analysis layer that can be deployed to a broader user base of stakeholders.

The data architecture which includes specific data elements, business rules, metadata interfaces, and database models are based on the *Nevada Education Database Data Elements and Definitions* guide. This document is based on the required data elements from the following sources: (1) the *No Child Left Behind Act of 2001*, (2) State legislative requirements, (3) federal reporting requirements, (4) non-fiscal survey of the common core data, (5) the Nevada data dictionary, and (6) discussions with State and district staff members. The NDE enterprise data model contains a series of subject areas and fact tables. The database allows a “virtual snapshot” query capability to allow audit and other reports to reflect information based on the database content on a particular day. The database, while dimensionally modeled, is not specifically designed for analytical reporting. Although many of the dimension and fact tables are essentially query ready, this is a byproduct of use of the dimensional design techniques. A true reporting and analysis decision support environment can be easily derived from this database. The data model design was created with input from NDE by OtisEd. This design is based on standard SEA data requirements and could be utilized effectively by other SEAs across the nation. This data model can be accessed by other SEAs as a baseline data model for enterprise education data storage.

Since 2004, accountability and data have been validated by all 17 school districts and the schools in each district. This process serves the business needs of key stakeholders, who participate as data providers and users, and whose needs should determine the data types and items to be maintained in the system, years of data maintained, and data quality achieved (all of which define the breadth and depth of subsequent possible analyses).

The NDE has developed a “living” data dictionary that is continually updated and expanded, with well-defined content and common definitions for data elements, to assure the same definitions, codes, and periodicity across all schools in the state at data entry points.

The ODS is structured to enable efficient data extraction for time-based analyses. The NDE system is unique in its ability and flexibility to automatically upload data each day from each Nevada school district, with no end user intervention. The NDE has completed the process of planning and implementing data collection for the existing system. Data quality reports and accountability checks are automatically run on a daily basis. The validation process includes quality checks six times per process, a minimum of 12 times per year.

The NDE has developed an effective, statewide data model that defines and describes the logical and physical relationships between data items and systems, and system structure that allows efficient data maintenance and retrieval (containing relevant and linked current and historical data). The transactional database is geared toward “as of” and “cut-off” dates. The ODS is extremely flexible and ready to expand as a longitudinal system for enhanced and expanded use by stakeholders.

The longitudinal data warehouse is designed for reporting and analyses by all users. Grant funds will enable the NDE to roll out the data warehouse at the classroom level with appropriate security measures in place to comply with FERPA requirements and State statutes, while expanding accessibility and research potential for end users.

The Nevada longitudinal data system currently provides access to disaggregated data at the state, district, and school level for all stakeholders. One of the priorities for this grant project is to expand the system so that more data elements and data elements at the student level are added in order to better inform decision-making by all stakeholders, as well as increase the potential for research.

A priority of the grant project is to establish logistical capacity to create and maintain a statewide longitudinal data system that permits large numbers of stakeholders to access the system at any given time. The NDE must increase capacity through the purchase of enough hardware, software, licensing, and technical support to serve the needs of the NDE, as well as all stakeholders.

The NDE has developed efficient administrative processes, infrastructure components, and policy commitments for effectively implementing the maintenance of the statewide longitudinal data system. The SAIN advisory and Data Stewards committees regularly meet to ensure the system is operational at a level appropriate for basic needs. The NDE administrative staff meets weekly with Dr. Paul La Marca and Mr. Shawn Franklin to discuss administrative processes, technical issues, and policy commitments.

To ensure continued data collection, quality, and continued dissemination of data and analyses results, Mr. Andrew Swann provides network and technical support for data movement of the SAIN project. His priority is to research, compile, and analyze information and recommend a solution. Mr. Roger Sliva corrects technical issues and Mr. Rick Novak oversees the technical aspects of the *Nevada Report Card*.

Grant funds are necessary if the NDE is to move to the next level in design, implementation, expansion, and sustainability of the longitudinal data system. The Nevada Legislature convenes every two years; the 2007 session began in February. Dr. Rheault and Ms. Dopf requested \$360,000 and five IT positions for the SAIN system operation and management. Sustainability of the system is the NDE priority. At the time of grant submission, the final outcome of the request is unknown; however, sustainability is feasible beyond the grant period through potential state allocations, and federal and other grant funds. In 2009, it is anticipated that the NDE will again request funding to ensure sustainability of the system. This request will be supported by documentation of the projected success, cost/benefits, and efficacy of the grant project. Grant funds are necessary to upgrade the system and provide evidence for the expansion of staff to oversee the system. The NDE anticipates that the efficacy of the grant project will document necessary increased capacity, expanded use by all stakeholders, data-based decision-making to positively impact student achievement, and need for technical personnel. Stakeholders have all been on board, i.e., the administrative “buy-in”. With the documented efficacy of the grant project, it is anticipated that when sustained funding is requested from the Nevada Legislature in 2009, they will be open to consideration of the Nevada system for priority funding.

The NDE currently employs a small, highly qualified staff and contracts with DoIT for additional technical support. The NDE staff conducts training and attends conferences to continually upgrade their information and skills. Other resources are dedicated to the State’s administrative technology over the long-term to ensure the system’s continued effectiveness (including the commitment and ability of staff to implement, use, and continually develop the data system).

Each school district has participated by providing NDE with direct access to their SIS. This access allows NDE to develop customized extraction interfaces with each district. NDE extracts data on a nightly basis and transmits those data to a centralized NDE server. The data are then processed and analyzed via a series of data validation reports. These reports provide the district with reports that specify data that may be in error, out of range, or in conflict with other data fields. Because districts have collaborated on the development of these validation reports, the overall quality of information contained within district SIS has been improved. All data remediation occurs in the actual district SIS by district or school staff. The data transmitted to the state is eventually loaded into the State ODS. This database provides a powerful database platform allowing NDE to query, extract, and report information to the student level.

The NDE has involved and supported stakeholders by establishing and facilitating the existence of key policymakers, data provider and collection, and data user groups, the SAIN advisory and Data Stewards committees. Based on the input from the key stakeholder groups, the NDE plan is to integrate student data with teacher, fiscal, and educational program data to better understand the interaction effects among all components of the educational system. The grant project will enable the NDE to expand the user base who can access data contained in the system, expand the data sources, and expand the reporting and analysis tools provided by the system to inform educational decision-making. Users will be able to more easily access and utilize educational data. As the importance and efficacy of the system and the key personnel designated solely for system design, implementation, and utilization are documented during the grant project, the NDE anticipates potential state and other grant funds will sustain the system beyond the grant period.

3. PROJECT PERSONNEL – Management Plan

Full-time NDE Consultants (TBD) – Grant Project Period

Project Manager (b)(4)

The Project Manager (Information Technology Manager 3) will have experience and expertise in strategic planning, project management, quality assurance, and computer operations, systems administration, network and database administration, applications analysis and development, and information security. The Project Manager will act as the technology and data collection liaison between the NDE and the Institute of Education Sciences (IES), Nevada DoIT, LEAs, and other stakeholders. This person will provide research project coordination, oversight, and evaluation. Included in these duties are functional requirements and needs assessment; analysis; system development (design, programming and construction); and implementation and maintenance of the information system platform for the research project. Additional requirements of the position include expertise in functional requirements, architectural design, application analysis, design, development, maintenance and update support for NDE project applications. Areas of responsibility include management of the grant process and contracts, system and functional requirements, system development, change control, version control, testing, and quality assurance. Duties include development of NDE software architecture; setting up change control processes; defining and implementing tools to support development processes; system development; program management of the NDE project, including oversight of data collection and analysis, and technical report development.

Database Administrators (DBA) (b)(4)

The DBAs (Database Administrator IV) will provide information system functional requirements and needs assessment; analysis; system development (design, programming and construction); and implementation and maintenance for various platforms of information systems related to data collection in the NDE SAIN, EDEN, and school district data systems. The DBAs will be expected to resolve design conflicts and perform comparative analyses on the costs/benefits of various implementation alternatives with minimal technical supervision. They will manage database systems, develop and implement standards and procedures to convert, transfer, and interface data within and between databases, and provide technical expertise in application development within various database environments.

DBAs manage production/development/test database environments that provide sharing and control of system-wide information. They will resolve problems with the database management system and associated software to ensure availability of all data, monitor database utility executions and backup processing, and implement and maintain database security to protect data and applications. The DBAs will analyze and develop guidelines and standards to support application data sharing, research new data elements to prevent duplicate representation of data, and develop programs to generate customized reports. They will define, allocate, and load physical databases, develop procedures and standards for database administration, develop and implement backup and recovery procedures to support database integrity, and respond to technical inquiries concerning database and related technology. Working with the FERPA and Information Security Officers, the DBAs will develop and maintain security procedures and functions/uses of database software.

DBAs will evaluate new database software and determine applicability. They will monitor database management systems to anticipate and prevent potential problems, control and execute system utilities to create and modify database structures, back up and restore databases, regenerate updates, and produce system reports. They plan, coordinate, and oversee the installation of new software releases to update the capabilities of the database management system and associated management software to attain optimal performance, and develop procedures to interface databases with other software systems.

- Two DBAs will be assigned the responsibility of maintaining and improving the SAIN system.
- One DBA will be assigned responsibilities in the position of Federal Reporting Consultant. The primary responsibility of the Federal Reporting Consultant is to move the SAIN implementation forward. This DBA will organize offices within the NDE and Nevada school districts to ensure that data collected are accurate and in compliance with EDEN and other federal data collection initiatives. The consultant will enable the NDE to remove barriers to full compliance with EDEN requirements without undue delay. The anticipated outcomes will be 1) the ability to comply with EDEN requirements, 2) oversight of data quality control procedures and checkpoints, 3) technical assistance provided statewide to personnel at NDE and 17 school districts, and 4) timely and reliable production of task order deliverables and federally mandated reports.

Data Analysts (b)(4)

The Data Analysts (Data Analyst 2) will analyze, evaluate, and deconstruct the aggregated data. The analysts will analyze disparate data sources to develop aggregation models for inclusion into the data warehouse; design and develop individual data marts for mining and information retrieval applications which support information needs; design and develop the ETL

processes for cleansing and loading data into the warehouse; assist with resolving data anomalies and data quality issues; perform advanced tuning of applications and software processes, including customization, problem analysis, and resolution; and assist with writing and maintaining project documentation.

- One Data Analyst will be assigned the responsibility of data validation with LEAs and state sources of data, and be assigned the responsibility to analyze and prepare requirements, communicate local, state, federal, and other data requests, and technical assistance “HELP line”.
- One Data Analyst will be assigned the responsibility to analyze federal reporting requirements, which includes EDEN. This position will support the DBA who is assigned the responsibility for EDEN.

Administrative Assistant (b)(4)

The Administrative Assistant (Administrative Assistant 4) performs a variety of research project clerical, secretarial, and administrative support duties, such as maintaining records and files; composing and editing correspondence; data entry; office management; and budget monitoring. The person will act as the office manager for the project team, including filling a front desk position. The Administrative Assistant will be responsible for assisting and supporting the project team and key personnel, including scheduling and facilitating meetings and trainings, preliminary contract preparation and management, preparation of meeting agendas and minutes, and assisting with travel arrangements as needed. The person will organize, oversee, and be responsible for maintaining all project documents.

Part-time NDE Consultants (TBD) – Grant Project Period

Budget Analyst (b)(4)

The Budget Analyst (Budget Analyst 2) will prepare and implement the research project budget; develop expenditure projections, narrative justification of programs, detailed spending plans, and analyze budget requests and adjustments. The analyst will work under the direction of, and report to, Project Director, Mr. Shawn Franklin; Deputy Superintendent Ms. Gloria Dopf; and Deputy Superintendent of Administrative and Fiscal Services Mr. James Wells.

Technical Report Writer (b)(4)

The Technical Report Writer will manage research project documentation, from initial planning through writing and editing, reviewing and revising, and creating graphics, through final printing and production. The position includes review and editing of information submitted for inclusion in reports, including proper use of terminology, style, direction, content, grammar, punctuation, and clarity. The writer will have a working knowledge of research methods and data interpretation; grant document production; and federal and state education policy, rules, and regulations to ensure document conformity with grant requirements. The writer will draw/create and/or select graphic charts, working drawings, and illustrations to clarify and visually explain the project data and conclusions. The Technical Report Writer must have a background in research methods, data interpretation, and grant document production.

Nevada Department of Education – NDE In-kind Contribution

Dr. Keith Rheault, Nevada Superintendent of Public Instruction, (b)(4): Oversight of all aspects of project, evaluation of personnel, legislative liaison.

Ms. Gloria Dopf, Deputy Superintendent of Instructional, Research, and Evaluative Services, (b)(4): Oversight of all aspects of project, evaluation of personnel, legislative liaison.

Mr. James Wells, Deputy Superintendent of Administrative & Fiscal Services, (b)(4): Oversight of project fiscal accountability, legislative liaison.

Dr. Paul La Marca, Assistant Deputy Superintendent of Assessment, Program Accountability, & Curriculum (APAC), (b)(4): Oversight and direction of assessment, data analysis, evaluation of project and personnel.

Mr. Shawn Franklin, Program Manager, System of Accountability Information for Nevada (SAIN), (b)(4): The SAIN Program Manager, grant Project Director, and the FERPA officer.

Dr. Kimberly Vidoni, Program Manager, Accountability Report Card (ARC) Consultant, (b)(4): Technical support and management of ARC.

Mr. Julian Montoya, Evaluation Consultant (EDEN), (b)(4): State coordination of EDEN reporting.

Dr. Kulwadee Axtell, Academic Faculty (EDEN), University of Nevada, Reno, (b)(4): Assistant Coordinator of EDEN reporting.

Ms. Cindy Lou Little, Information Technology Professional III, (b)(4): The Information Security Officer and information technology (IT) professional will act as liaison with the State of Nevada Office of Information Security (OIS). Manage all NDE systems, including but not limited to, servers, connectivity, security, and updates.

Mr. Larry Soga, Information Technology Professional II, (b)(4): Manage all NDE systems, including but not limited to, servers, connectivity, security, and updates.

Mr. Andrew Swann, Agency Program Specialist II, (SAIN), (b)(4): Provide network and technical support for data movement of the SAIN project. Research, compile, and analyze information and recommend a solution.

Nevada Department of Information Technology (DoIT) Technical Support

Mr. Roger Sliva, Database Manager/Programmer, (SAIN), (b)(4): Technical support for infrastructure components; system documentation, and data collection, validation, and correction. The only DBA to provide technical support for the SAIN system.

Mr. Rick Novak, Database Manager/Programmer, (ARC), (b)(4): Technical support for ARC. The only DBA to provide technical support for the ARC.

Ms. Sheila Lisenby, Programmer, (SAIN), (b)(4): Programming, maintenance, and updating for the AYP process.

4. RESOURCES

Facilities

The NDE contracts with Nevada DoIT to house the system hardware. Current NDE personnel are housed at the main office in Carson City. Grant project personnel will be housed in facilities outside of the NDE main office.

Equipment

The NDE currently has six Dell Blade servers with appropriate RAID array and two standard Dell servers. The NDE Bighorn Portal has been designed as the single point of communication for the SAIN project. The portal provides access to all project communication, documentation, and SAIN data analysis reports and applications.

Staff

Current NDE staff who work directly with the SAIN system full-time are Mr. Shawn Franklin and Mr. Andrew Swann. Other NDE personnel whose time is directly involved with the SAIN include:

Dr. Paul La Marca, (b)(4)

Dr. Kim Vidoni, (b)(4)

Ms. Cindy Lou Little and Mr. Larry Soga, (b)(4)

Ms. Carol Crothers and Mr. Selcuk Oxdemir, Planning, Research, and Evaluation Consultants,
(b)(4)

Funding

Current / Timeline

Nevada currently allocates \$200,000 per year for operation and maintenance of the SAIN system. Federal assessment funds account for \$2.2 million over three years.

Pending / Timeline

Dr. Rheault and Ms. Dopf requested \$360,000 and five IT positions from the 2007 Nevada Legislature for the SAIN system operation and management. Sustainability of the system is the NDE priority. At the time of grant submission, the final outcome of the request is unknown; however, sustainability is feasible beyond the grant period through potential state allocations, and federal and other grant funds. A legislative decision is anticipated by May 2007.

Planned / Timeline

In 2009, it is anticipated that the NDE will again request funding to ensure sustainability of the system. This request will be supported by documentation of the cost/benefit and efficacy of the grant project. Grant funds are necessary to upgrade the system and provide evidence for the expansion of staff to oversee the system. The NDE anticipates that the efficacy of the grant project will document necessary increased capacity, expanded use by all stakeholders, data-based decision-making to positively impact student achievement, and need for technical personnel. With the documented efficacy of the grant project, it is anticipated that when sustained funding is requested from the Nevada Legislature in 2009, they will be open to consideration of the Nevada system for priority funding.

5. MANAGEMENT PLAN

In collaboration with current NDE personnel, the grant project team (TBD) will oversee and conduct the project. Dr. Rheault, Ms. Dopf, Mr. Wells, Dr. La Marca, and Mr. Franklin will provide project oversight. The Timeline dates indicate grant project times.

Objective 1 Creation of a federal EDEN reporting system

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate January 2008, complete September 2009.

Milestone: Complete for the 2009-2010 school year. 100% compliance with EDEN reporting requirements.

Fiscal Accountability: Project will be completed within grant budget and federal assessment funds allocated to EDEN.

Objective 2 Addition of new data elements (e.g., teacher unique identification)

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate April 2008, complete July 2009.

Milestone: Establish and validate new data elements for the 2009-2010 school year. Roll out to end users.

Fiscal Accountability: Project will be completed within grant budget.

Objective 3 Inclusion of a teacher unique identification system

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate December 2007, complete September 2008.

Milestone: 100% of Nevada teachers will be identified by a unique identification number and will be tracked longitudinally.

Fiscal Accountability: Project will be completed within grant budget.

Objective 4 Integration of teacher licensure data

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate December 2007, complete January 2009. Roll out to end users.

Milestone: 100% of teacher licensure information will be accessible, including Highly Qualified Teacher status and progress. 100% compliance with EDEN reporting requirements.

Fiscal Accountability: Project will be completed within grant budget.

Objective 5 Incorporation of fiscal data

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate June 2009, complete December 2009.

Milestone: 100% compliance with EDEN reporting requirements. Roll out to end users.

Fiscal Accountability: Project will be completed within grant budget.

Objective 6 Training

Responsible Person(s): Project Manager, Data Analyst, Budget Analyst.

Timeline: Initiate November 2009, ongoing during and beyond grant period.

Milestone: First cohort of stakeholders will be trained in November 2009. 100% of LEA technical leaders will be trained by May 2010.

Fiscal Accountability: Project will be completed within grant budget.

Objective 7 Building an interface

Responsible Person(s): Project Manager, Database Administrator, Budget Analyst.

Timeline: Initiate January 2009, complete January 2010.

Milestone: 100% complete.

Fiscal Accountability: Project will be completed within grant budget.

Procedures to Ensure Feedback and Continuous Improvement in Quality and Operation

Two high school student leaders will be added to the SAIN advisory committee. The grant project team will create a series of qualitative and quantitative evaluation tools to survey stakeholders on the accessibility, quality, and use of the system.

How Collaborating Parties Will Use Resulting Longitudinal Data and Analyses for Research, Decision-making, and Improvement of Student Achievement

Parents will have access to more extensive data about school districts, schools, and teachers. Parents can utilize the information for a number of purposes, including the decision to move into a community based on school quality and appropriate fit for their childrens' needs.

Teachers will be able to utilize student level data to inform decision-making about the impact of curricula and instructional delivery to address the needs of students. Teachers, schools, and districts will utilize data for research and in-depth information to inform decision-making about school improvement plans and policies, short-term and long-term planning, student needs, and to ensure that children are not left behind from one grade to the next, or school-to-school, district-to-district.

Nevada will utilize the data at the state level to inform policy decisions, program and funds allocation decisions, and to maximize support for schools in need of improvement and student special populations. Researchers and universities will use the data to conduct longitudinal studies of student needs, achievement progress, and movement from school-to-school, and district-to-district. The Nevada System of Higher Education will be able to use the data to inform decision-making about courses, remediation, and student support needs. Nevada will be able to fully comply with EDEN reporting requirements, which informs decision and policymaking at the federal level.

The business community will be able to utilize extensive data to assess the impact of school quality on the community, which directly impacts the success of businesses. The number and achievement of students in specialized programs, such as career and technical education, will inform business leaders about the quality of students who are potential employees. Businesses will be able to make decisions on the quality of schools in relation to long-term business success. The public will have access to extensive data for diverse purposes. The public includes the media, authors, researchers, and other interested parties.

Evaluation of System Effectiveness in Improving Teaching and Student Achievement

To evaluate the efficacy of the grant project, the project team will develop a model that will be based on, but not limited to, stakeholder use and satisfaction, cost/benefit analysis, and overall education performance. The project team will develop a series of surveys to measure the effectiveness of the system and the daily impact in the work of education. The project team will develop a model to measure the overall cost savings benefit of the system. This will include the observation of reduced workload due to systemization, increased productivity due to enhanced information access, and the capture of state and federal dollars that are made possible due to the

system implementation. The project team will analyze and correlate district, school, and student performance, as well as teacher effectiveness as impacted by the implementation of the system. This will include, but not be limited to, observations related to enhanced analysis access by educators and the measurement of observed remediation based on this information access. The evaluation model will be developed as a part of the grant project and will be available to other states for comparison purposes. The continuous feedback model will provide the NDE with the information to support system sustainability and effectiveness.

Plans for Requiring/Collaborating with Districts and/or Schools to Collect and Clean Data for the Statewide System

The process to satisfy this criterion is in place.

Collaborations and Agreements Established to Achieve Objectives

The NDE enters into Service Level Agreements (SLAs) with the Nevada DoIT for collaboration of NDE and other State expert technical personnel. An “Interlocal Agreement Between Nevada Department of Education and Nevada System of Higher Education for the Improvement of Instruction and the Administration of Programs of Financial Aid” was signed in 2006. The NDE and NSHE agreement authorizes the disclosure of educational data to organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of improving instruction or administering financial aid programs. The NDE and NSHE entered into the agreement to exchange data with regard to research, instructional programs, the educational status of pupils of NDE and NSHE, and the NDE employment status of teacher education graduates of the NSHE, all for the purpose of improving instruction or the administration of financial aid programs. The SAIN advisory and Data Stewards committees are collaborators who are ready to ensure success of the project.

End of Narrative

BIOSKETCHES / RÈSUMÈS OF KEY NDE PERSONNEL

Dr. Keith Rheault, Nevada Superintendent of Public Instruction

Dr. Keith W. Rheault was appointed as Nevada's Superintendent of Public Instruction in March, 2004, and continues to serve the state in that capacity. Prior to his appointment as Superintendent of Public Instruction, Dr. Rheault had been employed with the Nevada Department of Education since 1986. During his tenure with the Department of Education, he has served as the Agriculture Education Consultant and State FFA Advisor for five years, Assistant Director and Director of the Office of Occupational and Continuing Education for four years, and as Deputy Superintendent for Instructional, Research, and Evaluative Services for nine years.

Dr. Rheault received his Bachelor of Science and Master of Science degrees in Agricultural Education from North Dakota State University in 1976 and 1980, respectively. He earned his Doctorate from Iowa State University in Agricultural Education in 1985. While completing his Doctorate at Iowa State University, Dr. Rheault worked as an Adjunct Professor in the Agricultural Engineering Department teaching a variety of agriculture mechanics courses.

Ms. Gloria Dopf, Deputy Superintendent of Instructional, Research, and Evaluative Services

Ms. Dopf was appointed Deputy Superintendent of Instructional, Research and Evaluative Services for the Nevada Department of Education March, 2003. She has been an employee of the Nevada Department Education since January, 1977. Prior to that she was an administrator for the Bureau of Speech Improvement of the New York City Board of Education. She received her degrees from the City University of New York and was present for the first implementation of the "new federal special education law – PL 94-142". Ms. Dopf served as the Assistant Deputy Superintendent for the Department, coordinating the implementation of the No Child Left Behind Act (NCLB) in the state. At this time she was also appointed as Federal Liaison Representative to the Council of Chief State School Officers to link to national and other state initiatives implementing the complexities of NCLB. She also served as Director of the Office of Special Education, Elementary and Secondary Education, and School Improvement Programs overseeing state and federal programs providing educational opportunities for students with diverse learning needs. In this capacity she was an active member of the National Association of State Directors of Special Education (NASDSE).

Dr. Paul LaMarca, Assistant Deputy Superintendent, NDE-APAC

Dr. LaMarca received his Ph.D. in Social Psychology from the University of Nevada, Reno in 1995, and his B.A. in Psychology in 1988. Prior to his move to the NDE in 2000, Dr. LaMarca held a faculty position as a Social Psychologist with the Senator Alan Bible Center for Applied Research. Job duties included grant writing and administration, project management, article/report writing, methodological consultation, statistical consultation, and other administrative duties. From 2000 to the present, he performs as an adjunct faculty member in the Social Psychology graduate program at University of Nevada, Reno. Dr. La Marca's initial tenure with the NDE was Director of APAC, which involved oversight and management of state K-12 large-scale assessment, accountability systems, standards/curricula implementation, and supervision of professional and non-professional staff; in 2004, he moved to his current position.

**Mr. Shawn Franklin, System of Accountability Information for Nevada (SAIN)
Information Technology Project Manager**

Mr. Franklin has been involved with student management systems for the past 9 years. He is experienced with organization, design, and implementation of data systems at the following levels: site/school, district, state, and program. He has experience with large-scale software development and deployment. Mr. Franklin has had formal training in technology project management and has managed several large-scale technology implementations. He is familiar with the Nevada state reporting program and is a past member of the SAIN advisory board. Mr. Franklin held a seat on the Commission on Educational Technology, established by legislation; all district state technology funding passes through this group. He wrote/managed all technology grants for Lyon County School District and implemented new SIS and state reporting programs in Lyon County School District.

Dr. Kimberly Vidoni, Accountability Consultant

Dr. Vidoni first joined the NDE as a graduate assistant while working on her Ph.D. in Information Technology in Education. In October 2004, she joined the NDE full-time in her current position. Her main project is the Nevada Report Card (<http://nevadareportcard.com>) that has received recognition from federal auditors as one of the most comprehensive accountability reports in the country. Prior to her work at the NDE, Dr. Vidoni worked on several federally supported grants, including School-to-Careers and Preparing Tomorrow's Teachers to Use Technology (PT3) grants.

Mr. Julian Montoya, Evaluation Consultant, NDE-APAC

Mr. Montoya first joined the NDE in March of 2006. He was employed by the state of Nevada as a Licensed Marriage and Family Therapist for the past four years. Prior to this position Mr. Montoya worked as a Nevada School Counselor in the rural districts. He received his Masters in Education in 1998. In his current position, Mr. Montoya is the primary consultant who manages the Norm-Reference Testing Program for the state. He oversees testing for grades 4, 7, and 10.

Dr. Kulwadee Axtell, Academic Faculty, University of Nevada, Reno

Dr. Kongrith received her Ph.D. in May 2006 at the University of Nevada (UNR), Reno in Counseling and Educational Psychology, with an emphasis in Information Technology in Education. She is currently teaching two intensive English courses, two undergraduate courses at UNR, and an undergraduate course at Truckee Meadows Community College. While she was pursuing her doctorate degree, she was Assistant Editor of Computers in the Schools for two years as her assistantship. She also taught a technology course in a summer session at Truckee Meadows Community College for the teacher education program. In 2001, she taught reading/listening classes for non-native English speakers at Sierra Community College.

End of NDE Personnel Biosketches

KEITH W. RHEAULT

ACADEMIC PREPARATION

Iowa State University Ames, Iowa 1985

Doctor of Philosophy - Major in Agricultural Education

Dissertation Topic: A Profile of Effective Vocational Agriculture Instructors from Twelve North Central States.

North Dakota State University Fargo, North Dakota 1980

Master of Science Degree - Major in Agricultural Education, Minor in Vocational Education. Thesis Topic: North Dakota Agribusiness Employment Opportunities and Training Needs Within Five Selected Agribusiness Industries.

North Dakota State University Fargo, North Dakota 1976

Bachelor of Science Degree - Major in Agricultural Education, Minor in Composite Science

PREVIOUS PROFESSIONAL EXPERIENCE

NEVADA DEPARTMENT OF EDUCATION, Carson City, Nevada

March 1, 2004 to Present – Superintendent of Public Instruction

February, 1995 to February 2004 - Deputy Superintendent, Instructional, Research and Evaluative Services; Major Duties: Supervise and oversee Department activities in all educational areas except fiscal accountability; Direct Department legislative activities including testimony on education related bills on behalf of the State Superintendent and State Board of Education; Serve as Department staff and liaison to the Commission on Professional Standards in Education and the Council to Establish Academic Standards in Education; Participate in monthly meetings of the School District Superintendents and State Board of Education meetings; Oversee development of program regulations and policies; and, serve as primary Department contact for information requests and constituent complaints/referrals.

August, 1994 to January, 1995 - Interim Deputy Superintendent, Instructional, Research and Evaluative Services

March, 1992 to July, 1994 - Director, Occupational and Continuing Education

July, 1990 to February, 1992 - Assistant Director, Occupational and Continuing Education

March, 1986 to June, 1990 - Education Consultant, Agricultural Education, Occupational and Continuing Education

KEITH W. RHEULT
NEVADA DEPARTMENT OF EDUCATION

IOWA STATE UNIVERSITY, Ames Iowa

August, 1983 to February, 1986 - Adjunct Instructor, Agricultural Engineering Department

July, 1982 to July, 1983 - Graduate Research Assistant, Agricultural Education Department

SOUTHEAST MULTIDISTRICT VOCATIONAL CENTER, Oakes, North Dakota

July, 1980 to June 1982 - Vocational Agriculture Instructor

NORTH DAKOTA STATE UNIVERSITY, Fargo, North Dakota

July, 1978 to June 1980 - Graduate Research Assistant, Agricultural Education Department

LARIMORE PUBLIC HIGH SCHOOL, Larimore, North Dakota

August, 1976 to June, 1978 - Vocational Agriculture Instructor

MILITARY EXPERIENCE

Commissioned 2nd Lieutenant, Army, 1976; Served eight years in the Minnesota and Iowa Army National Guard in various Mechanized Infantry and Quartermaster assignments. Last assignment was Company Commander of the Supply and Service Company, Camp Dodge, Iowa.

(b)(6)

PUBLICATIONS AND REPORTS

Numerous Department of Education Publications/Reports to include reports on occupational education funding, middle school reform, occupational courses of study, alternative education, class-size reduction, teacher licensure, distance education, academic standards, and secondary school improvement.

PAUL M. LA MARCA
Nevada Department of Education

EDUCATION

Ph.D 1995 Social Psychology, University of Nevada, Reno
Emphasis: Child development, infancy through adolescence

B.A. 1988 Psychology, California State University, Fresno

PROFESSIONAL EXPERIENCE

2004 to present – Assistant Deputy Superintendent. Direction and oversight for the Office of Assessments, Accountability, and Curriculum and for the Office of Innovative Programs and Information Technology.

2000 to 2004 - Director of the Office of Assessments, Accountability, and Curriculum, Nevada Department of Education. Job duties include oversight and management of state K-12 large-scale assessment, accountability systems, standards/curricula implementation, and supervision of professional and non-professional staff.

2000 to Present - Adjunct Faculty, Social Psychology Graduate Program, University of Nevada, Reno.

1995 to 1998 - Faculty position as a Social Psychologist with the Senator Alan Bible Center for Applied Research. Job duties included grant writing and administration, project management, article/report writing, methodological consultation, statistical consultation, and other administrative duties.

PUBLICATIONS and PRESENTATIONS

Erpenbach, W. J. & La Marca, P. M. (2002). Chapter I: Introduction. In W. J. Erpenbach, D. Carlson, P. M. La Marca, & P. C. Winter (Eds.), *Incorporating multiple measures of student performance into state accountability systems*. Washington, D.C.: Council of Chief State School Officers.

Erpenbach, W. J., Carlson, D., La Marca, P. M., & Winter, P. C. (Eds.). (2002). *Incorporating multiple measures of student performance into state accountability systems*. Washington, D.C.: Council of Chief State School Officers.

La Marca, P. M., Redfield, D., & Winter, P. C. (2000). *State standards and state assessment systems: A guide to alignment*. Washington, D.C.: Council of Chief State School Officers.

La Marca, P. M. (2001). Alignment of standards and assessments as an accountability criterion. *Practical Assessment, Research & Evaluation*, 7(21).

La Marca, P. M. (2002). Chapter II: Critical questions and related major considerations in building state accountability systems: An overview and discussion. In W. J. Erpenbach, D. Carlson, P. M. La Marca, & P. C. Winter (Eds.), *Incorporating multiple measures of student performance into state accountability systems*. Washington, D.C.: Council of Chief State School Officers.

PAUL M. LA MARCA
NEVADA DEPARTMENT OF EDUCATION

- La Marca, P. M. (2004, June 21). *Complexities of state assessment systems: The need for and challenge of quality control*. Presented at the Annual National Conference on Large-Scale Assessment, Boston, MA.
- La Marca, P. M. (2004, June 21). *Test item release in Nevada*. Presented at the Annual National Conference on Large-Scale Assessment, Boston, MA.
- La Marca, P. M. (2004, June 22). *Interpreting AYP classifications: The obligatory search for validity evidence*. Presented at the Annual National Conference on Large-Scale Assessment, Boston, MA.
- La Marca, P. M. (2004, June 23). *Can NAEP be part of the Nevada state assessment system?* Presented at the Annual National Conference on Large-Scale Assessment, Boston, MA.

GRANT EXPERIENCE

- Calder, J. & La Marca, P.M. (1995, September 29). *A study of resilience to substance abuse among high school dropouts and other high-risk youth*. Grant proposal submitted to Nevada AES. Received notification of approved funding June 7, 1996.
- La Marca, P. M. (1994). Project Manager. For J. Calder, *State demand and needs assessment studies: Alcohol and other drugs*. Grant proposal submitted to the Center for Substance Abuse and Treatment (3-year project, grant amount \$603,000).
- La Marca, P. M. (1997). Methodological and statistical plan. For J. Calder & P. M. La Marca, *A proposal to conduct a program evaluation of the family to family connection program (FTFCP)*. Grant proposal submitted to the State of Nevada, Department of Human Resources. Approved for funding, January 1998.
- La Marca, P. M. (1997). Statistical plan and methods planning. For E.L. Essa, *Who's minding the children? The impact of child caregivers on preschooler's social/emotional development and behavior*. Grant proposal submitted to the U.S. Department of Education for field initiated grants.
- La Marca, P. M. (2001). Project Manager. For Nevada Department of Education, *Nevada Reading Excellence Act*. Grant proposal submitted to the United States Department of Education (3-year project, grant amount \$26,189,248).

SHAWN C. FRANKLIN
Nevada Department of Education

EDUCATION

B.S. 1992 Black Hills State University - Spearfish, SD

Major: Secondary Education/Business-Computers

Certified: Nevada certified 7-12 Teacher in Business, Computer Applications, and Computer Programming

B.S. 1988 Black Hills State University - Spearfish, SD

Major: Business Administration Minor: Associate Degree - Computer Programming

PROFESSIONAL SUMMARY

Mr. Franklin has been involved with student management systems for the past 9 years. He is experienced with organization, design, and implementation of data systems at the following levels: site/school, district, state, and program. He is familiar with the Nevada state reporting program and past member of the SAIN advisory board. Mr. Franklin held a seat on the Commission on Educational Technology, established by legislation; all district state technology funding passes through this group. He wrote/managed all technology grants for Lyon County School District and implemented new SIS and state reporting program in Lyon County School District.

EMPLOYMENT

2005 - current System of Accountability Information for Nevada (SAIN) Information Technology Project Manager, Nevada Department of Education, Carson City, NV

Manage staff to fulfill the state reporting requirements of NCLB and the Nevada State Legislature. Work heavily with independent contractor on SAIN project setting up large data repository and reporting vehicles.

2003 - 2005 Sr. Engineering Analyst, PowerSchool (division of Apple Computer), Folsom, CA

Analyst for Sustained Engineering team. The SE team is responsible for all maintenance releases of PowerSchool Pro and Premier (4D and Sybase databases). Analyzed issues in PowerSchool Pro and Premier and prepared product specification documents for team. Responsible for the collection, compilation, and analysis of functional/performance data.

2002 - 2003 Sr. Technical Support Engineer, PowerSchool, Folsom, CA

Managed issues/bugs that needed development and management team resources regarding data and software changes. Worked with the development/management teams on setting goals for future releases and enhancements. Responsible for supporting/training team of 25+ technical support engineers and 6 senior tech support engineers. Project manager for all activities dealing with prioritization of issues for future maintenance releases. Trainer at PowerSchool University (1 week boot camp for customers).

SHAWN C. FRANKLIN
NEVADA DEPARTMENT OF EDUCATION

1998 - 2002 MIS Director, Lyon County School District, Yerington, NV

Responsible for supervising the entire Information Services (IS) department, including 4 full-time and 16 part time staff members. Planned, installed, implemented and maintained PowerSchool student information system (all setup, custom page programming, and training for teachers, administrative staff and parents). Responsible for Nevada SAIN (previously SMART) state reporting for Lyon County School District. Sat on the SAIN advisory board for the state and the Commission on Education Technology.

Installed, maintained, and provided troubleshooting for WAN, LAN, and all associated hardware. Responsible for all district servers, including PowerSchool, Windows NT, Windows 2000, Appleshare, IIS, Exchange, DNS, data, web content filtering, and various file and print. Experienced in network design and installation, including cat 5/5e/6, BNC, Fiber Optic, wireless and leased lines. Developed RFP's for various state and federal technology grants. Managed all technology budgets, including grants, district, and state.

1992 - 1998 Teacher/Tech, Lyon County School District, Smith Valley High School, Smith, NV

Taught various subjects including; Accounting I & II, Computer Applications I, II, III, Graphics, Computer Aided Drafting I & II, Keyboarding, Word Processing and Economics. Provided services as a Macintosh Techie for all Macintosh computers in the school. Responsible for complete maintenance and repair of all machines. Planned and implemented staff development and training sessions. Involved with the original Technology Plan for Lyon County School District. Held the position of Head Coach for football and track.

KIMBERLY L. VIDONI, Ph.D.
Program Manager, Accountability Report Card (ARC) Consultant
Nevada Department of Education

EDUCATION

Ph.D. in Educational Psychology, University of Nevada, Reno, 2004

Major Field: Information Technology in Education

Dissertation: *Small and Smaller: Educational Technology Resources in Rural and Frontier Nevada Schools*

Masters of Arts, Teaching English as a Second Language, University of Nevada, Reno, 1999

Bachelor of Arts, Psychology, Trinity College, Washington, DC, 1991

PUBLICATIONS AND PAPERS

Luft, V. & Vidoni, K. (2003). Results of participation by rural and urban educators in an externship program. In L. Lyne (Eds.), *A cross section of educational research: Journal articles for discussion and evaluation* (pp. 165-168). Los Angeles, CA: Pyrczak Publishing. (Reprinted from *The Educator*, 122 (4), 706-714).

Vidoni, K. (2003). Evaluation of central Nevada educational technology consortium, final report – year one. Available at <http://www.unr.edu/cnetc>

Vidoni, K. (2002). CNETC needs assessment report. Available at <http://www.unr.edu/cnetc/data/needsassesscnetc.doc>

Vidoni, K. & Maddux, C. (2002). WebQuests: Can they be used to improve thinking skills in students? *Computers in the Schools*, 19 (1/2), 101-119.

Luft, V. & Vidoni, K. (2002). Results of a School-to-Careers preservice teacher internship program. *The Educator*, 122 (4), 706-714.

Luft, V. & Vidoni, K. (2001) Results of participation by rural and urban educators in an externship program. *The Rural Educator*, 23 (2), 27-31.

Luft, V. & Vidoni, K. (2000) Educator externships: How classroom teachers can acquire business and industry experience. *The Clearing House*, 74 (2), 81-83.

Luft, V. & Vidoni, K. (1999). A look at School-to-Careers: Modules for pre-service teacher education students. (Available from the Nevada School-to-Careers Web site at <http://www.nevada.edu/stc/STCModules.pdf>)

Luft, V. & Vidoni, K. (1999). Educator externship manual. (Available from the Nevada School-to-Careers Web site at <http://www.nevada.edu/stc/Extern%20Manual.htm>)

KIMBERLY L. VIDONI
NEVADA DEPARTMENT OF EDUCATION

PROFESSIONAL PRESENTATIONS

November, 2004. Small and Smaller: Information Technology Resource Differences in Rural and Frontier Nevada Schools. Presentation for E-Learn 2004, Washington, DC

March, 2003. Faculty Development in Higher Education: Graduate Assistants Helping Education Faculty With Technology Integration. Presentation for the 14th International Conference of the Society for Information Technology in Teacher Education, Albuquerque, NM

October, 2002. WebQuests in the SLA Classroom, Presentation for the Southwest Association for Language Learning Technology Fall Conference, Reno, NV

July, 2002. WebQuests for Course Delivery and Integration. Presentation for the University of Nevada, Reno Summer Institute for Teachers

March, 2002. WebQuests for Course Delivery and Integration Training. Presentation for the 13th International Conference of the Society for Information Technology in Teacher Education, Nashville, TN

October, 2001. WebQuests in Use. Presentation for the University of Nevada, Reno Technology Symposium: Uniting Technology and Education. Reno, NV

TEACHING EXPERIENCE

Summer 2002. Instructor, Truckee Meadows Community College, Reno, NV
Low-Advanced ESL to adult, non-native English speakers

Summer 2002. Instructor, Truckee Meadows Community College, Reno, NV
ESL Computer Literacy to adult, non-native English speakers

Fall 2001. Instructor, University of Nevada, Reno
Graduate-level course, CEP 613: Telecommunications in Education

Fall 1995 - Spring 1996. Teacher Assistant, Covington Middle School, Vancouver, WA
Assisted with the instruction of 9th grade agriscience students

Fall 1992 - Spring 1997. Literacy Teacher, Portland Community College, Portland, OR
English literacy to adult ESL and developmentally challenged students

NON-TEACHING PROFESSIONAL EXPERIENCE

2004 - Present. Accountability Consultant, Nevada Department of Education
Coordinate Nevada Report Card Project (<http://www.nevadareportcard.com>) and conduct research on the effects of Federal No Child Left Behind legislation on dropout rates.

KIMBERLY L. VIDONI
NEVADA DEPARTMENT OF EDUCATION

2003 - 2004. Research Assistant, Nevada Department of Education
Assisted with the Nevada Report Card Project

2002 - 2003. Program Evaluator, Central Nevada Educational Technology Consortium, Nevada
Evaluated technology consortium's professional development activities in six central Nevada
school districts

2000 - 2003. Research Assistant, Project Learning Links, University of Nevada, Reno, NV
Worked individually with faculty members on technology integration projects

1998 - 1999. Consultant, Washoe County School District, Reno, NV
Coordinated School-to-Careers professional development experiences for K-16 educators

1997 - 2000. Research Assistant, University of Nevada, Reno, NV
Conducted research on School-to-Careers grant activities

RESEARCH INTERESTS

The effects of school culture on student dropout rates

The use of educational technologies to facilitate language acquisition among and between native
and non-native English speakers

Rural and frontier education, language, and technology issues

SERVICE

2003 Grant Review Committee Member, Nevada Department of Education No Child Left
Behind Educational Technology Grant Review Committee

2003 Grant Review Committee Member, Utah State Office of Education No Child Left Behind
Competitive Educational Technology Grant Review Committee

End of NDE Personnel Rèsùmès

APPENDIX A – TIMELINE

Anticipated award date: August 1, 2007
 Anticipated project end date: June 30, 2010

	2007	
	Initiate	Complete
Project Start-up		
Required grant meeting in Washington, D.C.	dates TBA	
Anticipated award announcement	Aug.	
Grant approval by NV Legislature	Aug.	Sept.
Develop project plan & project management meeting schedule	Aug.	Sept.
Ongoing task tracking	Ongoing	
Status Reports	Ongoing	
Recruit project team	Aug.	Oct.
Train project team	Nov.	Nov.
Preliminary project planning	Aug.	Dec.
Equipment, hardware, software, supplies purchase	Sept.	Nov.
Project status report to NDE (deliverables schedule TBD)	Dec.	Dec.
Travel to 3 model states	Dec.	Dec.
Objective 3 – Inclusion of a teacher unique identification system	Dec.	(Sept. 2008)
Objective 4 – Integration of teacher licensure data	Dec.	(Jan. 2009)
	2008	
	Initiate	Complete
Required grant meeting in Washington, D.C.	dates TBA	
Objective 1 – Creation of a federal EDEN reporting system	Jan.	(Sept. 2009)
Full project planning modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.
EDEN System Development		
Analysis solutions outline/design	March	May
Data discovery	March	May
Data mapping (discovery documentation)	March	May
Data access security management	March	May
Installation of system	March	May
Objective 2 – Addition of new data elements	April	(July 2009)
Operating data system	April	Sept.
System documentation	April	Ongoing
Implementation of EDEN System		
Quality assurance/testing process	April	Sept.
ARC enhancements	April	Sept.
Data collection	April	Sept.
EDEN data preparation and submission begins	Sept.	Ongoing
Development of training plan	April	Sept.
Training classes	Sept.	Dec.
Online training	Sept.	Dec.

	2008, cont.	
	Initiate	Complete
Data Enhancements		
Full project planning: modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.
Data Enhancements Data Discovery		
Data source analysis	March	May
Data discovery session	March	May
Data mapping (discovery documentation)	March	May
Data mart ETL load design	March	May
Data audit	March	May
Data Enhancements Data Integration Development		
Data discovery	June	Sept.
Metadata tuning	June	Sept.
ODS/DW ETL development	June	Sept.
System documentation	June	Sept.
Knowledge transfer	June	Sept.
Data Enhancements Implementation		
Training plan	Oct.	Dec.
Implementation planning	Oct.	Dec.
QA/Testing process	Oct.	Dec.
2009		
	Initiate	Complete
Full project planning: modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.
Required grant meeting in Washington, D.C.	dates TBA	
Prepare and present sustainability report for Nevada Legislature	Jan.	June
Objective 7 – Building an Interface	Jan.	(Jan. 2010)
Teacher Licensure/Fiscal Data Integration		
Full project planning: modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.
Teacher Licensure/Fiscal Data Integration Design		
Interface design	March	May
Interface workflow	March	May
Data mapping (discovery documentation)	March	May
Database design	March	May
Teacher Licensure/Fiscal Data Integration Development		
Web development	Sept.	Dec.
Database development	Jan.	TBD

	2009, cont.	
	Initiate	Complete
System Documentation	June	Sept.
Knowledge Transfer	June	Sept.
Objective 5 – Incorporation of fiscal data Teacher Licensure/Fiscal Data Integration Implementation	June	Dec.
Training	Oct.	Dec.
Implementation Planning	Oct.	Dec.
QA/Testing Process	Oct.	Dec.
Objective 6 – Training	Nov.	(May 2010)
Business Integration Tools and Analysis		
Full project planning: modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.
Business Integration Tools and Analysis Design & Development		
Analysis solutions outline/design	March	May
Data discovery	March	May
Data mapping (discovery documentation)	March	May
Data mart ETL load design	March	May
Data audit	March	May
Analytical tool design	March	May
Data discovery	March	May
Analysis platform tuning	March	May
Metadata tuning	March	May
Data access security management	March	May
Installation	March	May
Operating data system/data warehouse ETL development	April	Sept.
System documentation	April	Ongoing
Knowledge transfer	April	Sept.
Implementation of Business Integration Tools and Analysis		
Quality assurance/testing process	April	Sept.
Development of Training Plan	April	Sept.
Training classes	Sept.	Dec.
Online training	Sept.	Dec.
	2010	
	Initiate	Complete
Full project planning: modifications, management, data analysis design & development, meetings, report preparation, travel scheduling, ongoing task tracking, deployment & training planning	Jan.	Feb.

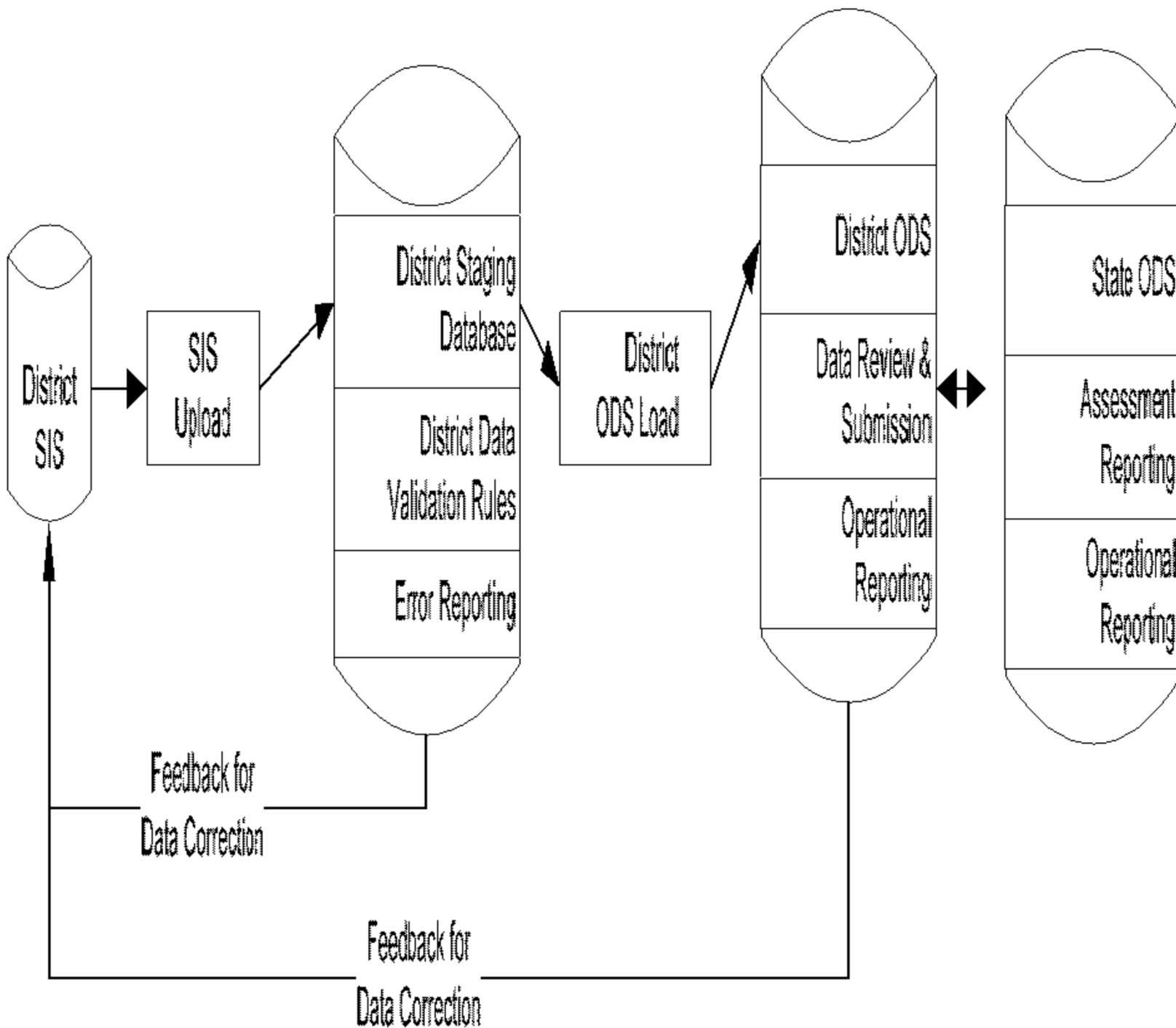
End of Appendix A - Timeline

APPENDIX B

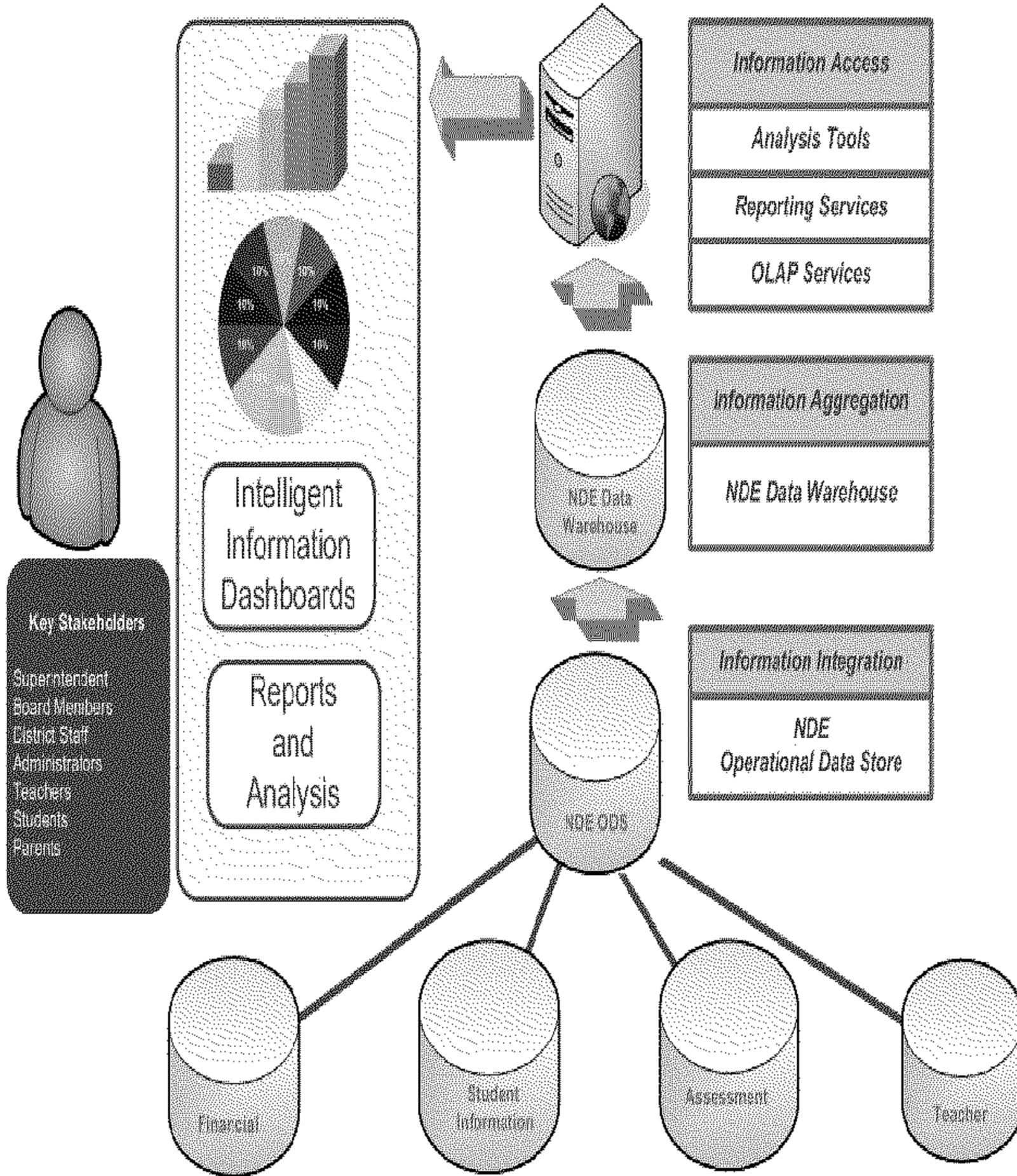
Appendix B-1. System of Accountability Information for Nevada (SAIN)

Vertical Integration of Local and State Data: SAIN provides vertical data integration from the school districts to the state. This is accomplished via a secure VPN connection hosted by the Nevada Department of Information Technology. Each district generates extracts nightly via a process designed to export and package a mirror copy of the Student Information System (SIS) database. This mirror copy is zipped, encrypted, and password protected automatically, followed by FTP transmission to the state data collection server. The FTP connection is established over a secure Virtual Private Network. After the data have been transferred to the state, a process initiates and the data begins to follow a data extraction, validation, and loading process.

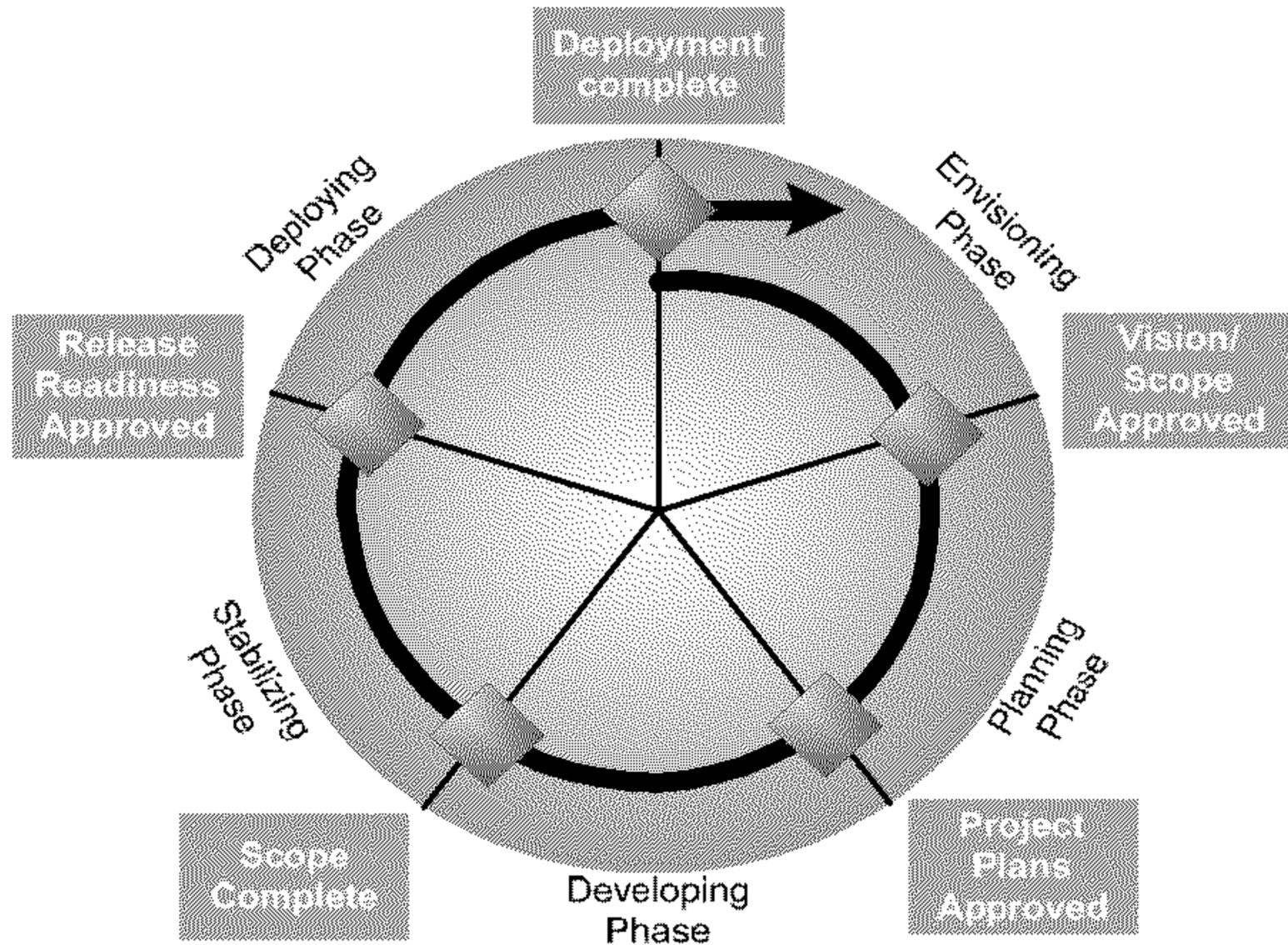
SAIN System



Appendix B-2. Overall functional architecture of the planned analysis framework.



Appendix B-3. The Microsoft Solutions Framework Process Model - Process Model Phases



The planning phase is when the bulk of the planning for the project is completed. During this phase the team prepares the functional specification, works through the design process, prepares work plans, cost estimates and schedules for the various deliverables. Early in the planning phase, the team analyzes and documents requirements in a list or tool. Requirements fall into four broad categories: business requirements, user requirements, operational requirements and system requirements (those of the solution itself). As the team moves on to design the solution and create the functional specifications, it is important to maintain *traceability* between requirements and features. Traceability does not have to be on a one to one basis, in fact it often isn't. Maintaining traceability serves as one way to check the correctness of design; that the design meets the goals and requirements of the solution.

The design process gives the team a systematic way to work from abstract concepts down to specific technical detail. This begins with a systematic analysis of *user profiles* (also referred to as "personas"), which describe various types of users and their job functions (operations staff are users too). Much of this is often done during the envisioning phase. These are broken into a

series of *usage scenarios*, where a particular type of user is attempting to complete a type of activity, such as front desk registration in a hotel or administering user passwords for a system administrator. Finally, each usage scenario is broken into a specific sequence of tasks, known as *use cases*, which the user goes through to complete that activity. This is referred to as storyboarding.

There are three levels in the design process, starting with conceptual design, then logical design and then physical design. Each is completed and baselined in a staggered sequence. The results of the design process are documented in the *functional specification(s)*. The functional specification describes in detail how each feature is to look and behave. It also describes the architecture and the design for all the features.

The functional specification serves multiple purposes, such as:

- Instructions to developers on what to build.
- Basis for estimating work.
- Agreement with customer on exactly what will be built.
- Point of synchronization for the whole team.

KEITH W RHEAULT
Superintendent of Public Instruction

GLORIA P. DOPF
Deputy Superintendent
Instructional, Research and Evaluative
Services

JAMES R. WELLS
Deputy Superintendent
Administrative and Fiscal Services

STATE OF NEVADA



SOUTHERN NEVADA OFFICE
1820 E. Sahara, Suite 205
Las Vegas, Nevada 89104-3746
(702) 486-6455
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MOODY STREET OFFICE
1749 Moody Street, Suite 40
Carson City, Nevada 89706-2543

DEPARTMENT OF EDUCATION
700 E. Fifth Street
Carson City, Nevada 89701-5096
(775) 687 - 9200 • Fax: (775) 687 - 9101

February 01, 2007

TO: U.S. Department of Education, Institute of Education Sciences
RE: Nevada Department of Education, CFDA 84.372A, Statewide Longitudinal Data Systems
Grant Proposal, *Letter of Support*

This letter of support is submitted as my commitment to the Statewide Longitudinal Data Systems grant project. My role in the project will be Program Manager of the data warehouse and data movement into and through the Nevada Department of Education. I fully support the data warehouse and its uses for the public, LEAs, the NDE, state reporting, and federal reporting.

Respectfully,

Shawn Franklin

An Equal Opportunity Agency



Jane A. Nichols
Vice Chancellor for Academic & Student Affairs
Nevada System of Higher Education

System Administration 5550 West Flamingo Road, Suite C-1 Las Vegas, NV 89103-0137
System Administration 2601 Enterprise Road, Reno, NV 89512-1666 Phone: 702-889-8426
Phone: 775-784-4901 Fax: 702-889-8492 Fax: 775-784-1127

March 9, 2007

Bette Hartnett
Federal & Related Programs Consultant - Grant Writer
Nevada Department of Education
1749 Moody St. #40
Carson City, NV 89706

Dear Ms. Hartnett:

Re: Project Title: Nevada Statewide Longitudinal Data Systems
CFDA 84.372A U.S. Department of Education, National Center for Education
Statistics, Institute of Education Sciences

This letter is in support of the expansion and enhancement of the Nevada Department of Education longitudinal data system. The system will enable the Nevada System of Higher Education (NSHE) to exchange student level data with the NDE in order to inform decision-making regarding courses and support services to best serve the needs of entering students.

In 2006, the NSHE signed an Interlocal Agreement with the NDE to exchange student data. In December 2006, an initial transfer of data occurred from the NDE to NSHE. The importance of data-based decision-making and policy considerations is important not only to NSHE, but also to students, parents, and the greater community.

Sincerely,

A handwritten signature in cursive script that reads "Jane A. Nichols".

Jane A. Nichols
Vice Chancellor for Academic and Student Affairs
JAN/tc

KEITH W RHEAULT
Superintendent of Public Instruction

GLORIA P. DOPF
Deputy Superintendent
Instructional, Research and Evaluative
Services

JAMES R. WELLS
Deputy Superintendent
Administrative and Fiscal Services

STATE OF NEVADA



DEPARTMENT OF EDUCATION
700 E. Fifth Street
Carson City, Nevada 89701-5096
(775) 687 - 9200 • Fax: (775) 687 - 9101

SOUTHERN NEVADA OFFICE
1820 E. Sahara, Suite 205
Las Vegas, Nevada 89104-3746
(702) 486-6455
Fax: (702) 486-6450

MOODY STREET OFFICE
1749 Moody Street, Suite 40
Carson City, Nevada 89706-2543

February 24, 2007

TO: U.S. Department of Education, Institute of Education Sciences
RE: Nevada Department of Education, CFDA 84.372A, Statewide Longitudinal Data Systems
Grant Proposal, *Letter of Support*

This letter of support is submitted as my commitment to the Nevada Longitudinal Data Systems grant project. My role in the project will be the dedicated EDEN Coordinator for Nevada. A priority of this grant is that the NDE will reach full compliance with the federally mandated EDEN submission date of 2009. Grant funds will allow us to coordinate, manage, and submit our data in the required timeframe to ensure the federal government receives valid, accurate, and quality reports. I am currently providing my expertise and time to report as much information as possible; resources provided by grant funds will enable me to maximize the information submitted.

If this project is funded, I will assure you that I will be committed to providing my full energy and expertise to ensure project success.

Respectfully,

A handwritten signature in cursive script that reads "Julian M. Montoya".

Julian M. Montoya
EDEN Coordinator

An Equal Opportunity Agency

KEITH W RHEAULT
Superintendent of Public Instruction

GLORIA P. DOPF
Deputy Superintendent
Instructional, Research and Evaluative
Services

JAMES R. WELLS
Deputy Superintendent
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MOODY STREET OFFICE
1749 Moody Street, Suite 40
Carson City, Nevada 89706-2543

March 6, 2007

TO: U.S. Department of Education, Institute of Education Sciences
RE: Nevada Department of Education, CFDA 84.372A, Statewide Longitudinal Data Systems
Grant Proposal, *Letter of Support*

This letter of support is submitted as my commitment to the Nevada Longitudinal Data Systems grant project. My role in the project will be EDEN (Education Data Exchange Network) Assistant Coordinator. If the project proposal is funded, I will assure you that my responsibility is committed to work closely with the EDEN Coordinator and to have EDEN data files submitted successfully so that EDEN data files can be accessible to stakeholders by 2009.

Respectfully,

Kulwadee Axtell

Kulwadee Axtell

An Equal Opportunity Agency

Project Narrative

Other Narrative

Attachment 1:

Title: Pages: Uploaded File: **7215-Mandatory_84.372A.NV_SDLS.Budget.USDE.Sect.A.B.spreadsheet.pdf**

Nevada Longitudinal Data System - CFDA 84.372A, Section A - Budget Summary USDE Federal

1. PERSONNEL	YEAR 1	YEAR 2	YEAR 3	TOTAL
1.1. Project Manager - Information Technology Manager 3 (b)(4)	76,211	79,789	83,533	239,533
1.2. Database Administrators (3) - Information Systems Specialist 3 (b)(4)	69,576	72,842	76,212	218,630
	69,576	72,842	76,212	218,630
	69,576	72,842	76,212	218,630
1.3. Data Analysts (2) (b)(4)	50,898	53,186	55,599	159,683
	50,898	53,186	55,599	159,683
1.4. Administrative Assistant 4 (b)(4)	39,354	40,997	42,786	123,137
1.5. Budget Analyst 2 (b)(4)	30,389	31,783	33,249	95,421
1.6. Technical Report Writer (b)(4)	30,389	31,783	33,249	95,421
SUBTOTAL	486,867	509,250	532,651	1,528,768
2008-10 State COLA (cumulative)	9,737	20,759	22,526	53,022
1. PERSONNEL TOTAL	496,604	530,009	555,177	1,581,790
2. FRINGE BENEFITS 34%	168,845	180,203	188,760	537,809
TOTAL PERSONNEL + FRINGE BENEFITS	665,449	710,212	743,937	2,119,599
3. TRAVEL				
3.1. Required Grant Conference - Washington, DC 1 trip/yr./2 people/3 yrs. RT 3 days Reno to Washington, DC				
Car rental 3 days/yr. \$50/day	450	450	450	1,350
Mileage est. 100 mi./yr. \$0.485/mi.	49	49	49	147
Airfare RT est. \$700/person/2 people/trip	1,400	1,400	1,400	4,200
Per diem \$26/day/3 days/2 people	156	156	156	468
Per diem \$14/day in excess of state reimbursement rate	84	84	84	252
Lodging 2 days/2 people \$58/day/person	232	232	232	696
Lodging in excess of state reimbursement rate \$42/day/person	168	168	168	504
3.2. Training - Project Manager & one DBA to each of 17 school districts min. 1x/yr./3 yrs.				
Mileage to/in 5 urban/12 rural districts est. 5,000 mi./yr. \$0.485/mi.	2,425	2,425	2,425	7,275
Airfare RT to 12 rural districts est. \$500/person/2 people/district/yr.	12,000	12,000	12,000	36,000
Car rental 12 districts/yr./2 people/3 days est. \$50/day	1,800	1,800	1,800	5,400
Per diem \$26/day/2 people/12 districts/3 days/district	1,872	1,872	1,872	5,616
Per diem \$14/day in excess of state reimbursement rate	1,008	1,008	1,008	3,024
Lodging 3 days/2 people/12 districts \$58/day/person	4,176	4,176	4,176	12,528
Lodging in excess of state reimbursement rate \$42/day/person	3,024	3,024	3,024	9,072
3.3. Examine 3 state systems - Project Manager & one DBA				
Car rental 3 days/yr. \$50/day		450		450
Mileage est. 900 mi. \$0.485/mi.		437		437
Airfare RT Reno to model states est. \$700/person/2 people/trip		4,200		4,200
Per diem 2 people/9 days \$26/day		468		468
Per diem \$14/day in excess of state reimbursement rate		252		252
Lodging/2 people/9 days \$58/day		1,044		1,044
Lodging \$42/day in excess of state reimbursement rate		756		756
3. TRAVEL TOTAL	28,844	36,451	28,844	94,139

4. EQUIPMENT \$5,000 or more per item				
4.1. Web Servers 6/\$25,000 ea. Dell 2950 PowerEdge Servers 2 - Quad Core 2.6 GHz Processors 32 GB RAM 4 – 160 GB SATA, 7.2 K RPM Hard Drives Perc 5, Integrated Controller Card 2 - 1 GB NIC Cards	130,000			130,000
4.2. Application Servers: 6/\$45,000 ea. Dell 6850 PowerEdge Servers Quad Dual Core 3.4 GHz Processors 64 GB RAM 4 – 300 GB ULTRA 320 SCSI Hard Drives RAID 5 SCSI Backplane, Hot Plug 2 - 1 GB NIC Cards Microsoft Server 2003 Operating System	270,000			270,000
4.3. Database Servers: 4/\$50,000 ea. Dell 6950 PowerEdge Servers Quad Dual Core 2.8 GHz Processors 32 GB RAM 5 - 300 GB, 10K RPM Hard Drives Raid 5 Controller Configuration 2 - 1 GB NIC Cards Microsoft Server 2003 Operating System Microsoft SQL Enterprise Server 2005	200,000			200,000
4.4. Software: data analysis tools; end user, database, server licensing	350,000	200,000	200,000	750,000
4. EQUIPMENT TOTAL	950,000	200,000	200,000	1,350,000
5. SUPPLIES incl. equipment < \$5,000/item				
5.1. Workstations: 9/\$3,000 ea. Dell Optiplex 745 4 GB RAM Dual Core 2.66 GHz Processor 128 ATI Radeon Video 2 - 20in. UltraSharp Flat Screen Monitor 160 GB SATA, 3.0 Gb/s Hard Drive Microsoft Vista Operating System	27,000	27,000	27,000	81,000
5.2. Dell Precision M90 Notebook Computers: 2/\$1700 (Customized for project team members in field) Processor: 64-bit dual-core Intel® Core™ 2 Duo processor Up to T7600 (2.33GHz, 4MB L2 Cache, 667MHz FSB) Operating System: Genuine Windows Vista™ Ultimate Graphics: NVIDIA Quadro® FX 3500M 512MB Memory: 4GB 2 dual-channel 3 DDR2 SDRAM Storage: 120GB 4 capacity internal hard drive Screen: 17" anti-glare WXGA+display	3,400			3,400
5.3. Dell Laser Printer 5310n (network)	3,500			3,500
5.4 Toner cartridges, paper, office supplies	1,000	1,000	1,000	3,000
5. SUPPLIES TOTAL	34,900	28,000	28,000	90,900

6. CONTRACTUAL

6.1. DOIT Service Level Agreements \$109/hr./1000 hr./yr.	109,000	109,000	109,000	327,000
6.2. Full Hosting DOIT 27 servers/\$300/server/mon.	97,200	97,200	97,200	291,600
6.3. External Resources, State master service agreements \$130/hr./800 hr./yr.	104,000	104,000	104,000	312,000
6.4. Systems Design Engineering DOIT \$112/hr./1000 hr./yr.	112,000	112,000	112,000	336,000
6. CONTRACTUAL TOTAL	422,200	422,200	422,200	1,266,600

7. CONSTRUCTION - N/A**8. OTHER**

8.1 Project team office facilities	40,000	40,000	40,000	120,000
8.2 Training	10,000	10,000	10,000	30,000
8.3 Printing	700	800	800	2,300
8.4 Postage	500	500	500	1,500
8.5 Copy	4,500	4,500	5,000	14,000
8. OTHER TOTAL	55,700	55,800	56,300	167,800

9. TOTAL DIRECT #1-8	2,157,093	1,452,663	1,479,281	5,089,038
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10. INDIRECT 17.9%	386,120	260,027	264,791	910,938
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11. TRAINING STIPENDS - N/A

12. TOTAL COSTS #9-11	2,543,213	1,712,690	1,744,073	5,999,975
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COLA calculations - cumulative year to year	486,867	509,250	532,651	
Year 1 = 2%	*.02	9,737	9,737	
Year 2 = 4%	9,737	518,987	20,759	
Year 3 = est. 4%		*.04	563,147	
		20,759	*.04	
			22,526	

Nevada Longitudinal Data System - CFDA 84.372A, Section B - Budget Summary Non-Federal

YEAR 1 YEAR 2 YEAR 3 TOTAL

1. PERSONNEL

1.1. NDE in-kind, personnel est. salaries

1. PERSONNEL TOTAL

2. FINGE BENEFITS 34%

3. TRAVEL

3.1. NDE estimated per yr. related to SAIN

3.2. Grant (NGA Honor States)

3. TRAVEL TOTAL

4. EQUIPMENT

5. SUPPLIES

5.1. Paper

5.2. Copier supplies

5.3. Office supplies, binders

5. SUPPLIES TOTAL

6. CONTRACTUAL

Projected 10% increase each years 2, 3

6.1. NV DOIT SLA 7/1/06-7/1/07

technical support of hosted systems

6.2. NV DOIT SLA 7/1/06-6/30/07

database administration, SAIN 1560 hrs./yr.

6.3. NV DOIT SLA 7/12/06-6/30/07

Bighorn Portal Phase III project

management support 227 hrs./yr.

6.4. NV DOIT SLA 11/1/06-6/30/07

application design & development

SAIN/ARC & AYP systems 1000 hrs./yr.

6.5 Consultant - grant (NGA Honor States)

6. CONTRACTUAL TOTAL

7. CONSTRUCTION - N/A

8. OTHER

8.1. Assessment funds \$2.2 million/3 yr.

**8.2 Grant (NGA Honor States), NDE
training/meeting expenses**

(b)(4)

(b)(4)

8.3 Printing, postage, copy

8.4 Research protocol, online modules -
grant (NGA Honor States)

8.5 Analysis reports, support materials -
grant (NGA Honor States)

8. OTHER TOTAL

9. TOTAL DIRECT COSTS #1-8

10. INDIRECT COSTS 17.9%

11. TRAINING STIPENDS - N/A

12. TOTAL COSTS #9-11

(b)(4)

Budget Narrative

Budget Narrative

Attachment 1:

Title: Pages: Uploaded File: **2845-Mandatory_84.372A.NV_SLDS.Budget_Narrative.pdf**

BUDGET NARRATIVE – SECTION A USDE FEDERAL FUNDS

1. PERSONNEL

\$ 1,581,790

NDE Consultants (TBD) – Grant funds

PERSONNEL	FTE %	YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
Project Manager	(b)(4)	76,211	79,789	83,533	239,533
Database Administrators (3)		208,728	218,526	228,636	655,890
Data Analysts (2)		101,796	106,372	111,198	319,366
Administrative Assistant		39,354	40,997	42,786	123,137
Budget Analyst		30,389	31,783	33,249	95,421
Technical Report Writer		30,389	31,783	33,249	95,421
2008-10 State COLA		9,737	20,759	22,526	53,022
TOTAL		496,604	530,009	555,177	1,581,790

According to figures projected for 2008-09, the State at this time is considering a 2% COLA for FY 2008 and 4% for FY 2009. Based on these projections, an increase of 4% for FY 2010 is included for project Year 3.

Project Manager (b)(4) Anticipated Hiring Grade/Step 43-06

The Project Manager (Information Technology Manager 3) will have experience and expertise in strategic planning, project management, quality assurance, and computer operations, systems administration, network and database administration, applications analysis and development, and information security. The Project Manager will act as the technology and data collection liaison between the NDE and IES, Nevada DoIT, LEAs, and other stakeholders. The Project Manager will provide research project coordination, oversight, and evaluation. Included in these duties are functional requirements and needs assessment; analysis; system development (design, programming and construction); and implementation and maintenance of the information system platform for the research project. Additional requirements of the position include expertise in functional requirements, architectural design, application analysis, design, development, maintenance and update support for NDE project applications. Areas of responsibility include management of the grant process and contracts, system and functional requirements, system development, change control, version control, testing, and quality assurance. Duties include development of NDE software architecture; setting up change control processes; defining and implementing tools to support development processes; system development; program management of the NDE project including oversight of data collection and analysis, and technical report development.

Database Administrators (DBA) (b)(4) Anticipated Hiring Grade/Step 41-06

The DBAs (Database Administrator IV) will provide information system functional requirements and needs assessment; analysis; system development (design, programming and construction); and implementation and maintenance for various platforms of information systems related to data collection in the NDE SAIN, EDEN, and school district data systems.

The DBAs will be expected to resolve design conflicts and perform comparative analyses on the costs/benefits of various implementation alternatives with minimal technical supervision. They will manage database systems, develop and implement standards and procedures to convert, transfer, and interface data within and between databases, and provide technical expertise in application development within various database environments.

DBAs manage production/development/test database environments that provide sharing and control of system-wide information. They will resolve problems with the database management system and associated software to ensure availability of all data, monitor database utility executions and backup processing, and implement and maintain database security to protect data and applications. The DBAs will analyze and develop guidelines and standards to support application data sharing, research new data elements to prevent duplicate representation of data, and develop programs to generate customized reports. They will define, allocate, and load physical databases, develop procedures and standards for database administration, develop and implement backup and recovery procedures to support database integrity, and respond to technical inquiries concerning database and related technology. Working with the FERPA and Information Security Officers, the DBAs will develop and maintain security procedures and functions/uses of database software.

DBAs will evaluate new database software and determine applicability. They will monitor database management systems to anticipate and prevent potential problems, control and execute system utilities to create and modify database structures, back up and restore databases, regenerate updates, and produce system reports. They plan, coordinate, and oversee the installation of new software releases to update the capabilities of the database management system and associated management software to attain optimal performance, and develop procedures to interface databases with other software systems.

- Two DBAs will be assigned the responsibility of maintaining and improving the SAIN system.
- One DBA will be assigned responsibilities in the position of Federal Reporting Consultant. The primary responsibility of the Federal Reporting Consultant is to move the SAIN implementation forward. This DBA will organize offices within the NDE and Nevada school districts to ensure that data collected are accurate and in compliance with EDEN and other federal data collection initiatives. The consultant will enable the NDE to remove barriers to full compliance with EDEN requirements without undue delay. The anticipated outcomes will be 1) the ability to comply with EDEN requirements, 2) oversight of data quality control procedures and checkpoints, 3) technical assistance provided statewide to personnel at NDE and 17 school districts, and 4) timely and reliable production of task order deliverables and federally mandated reports.

Data Analysts (b)(4) Anticipated Hiring Grade/Step 34-06

The Data Analysts (Data Analyst 2) will analyze, evaluate, and deconstruct the aggregated data. The analysts will analyze disparate data sources to develop aggregation models for inclusion into the data warehouse; design and develop individual data marts for mining and information retrieval applications which support information needs; design and develop the ETL processes for cleansing and loading data into the warehouse; assist with resolving data anomalies and data quality issues; perform advanced tuning of applications and software processes, including customization, problem analysis, and resolution; and assist with writing and maintaining project documentation.

- One Data Analyst will be assigned the responsibility of data validation with LEAs and state sources of data, and be assigned the responsibility to analyze and prepare requirements, communicate local, state, federal, and other data requests, and technical assistance “HELP line”.
- One Data Analyst will be assigned the responsibility to analyze federal reporting requirements, which includes EDEN. This position will support the DBA who is assigned the responsibility for EDEN.

Administrative Assistant (b)(4) Anticipated Hiring Grade/Step 29-05

The Administrative Assistant (Administrative Assistant 4) performs a variety of research project clerical, secretarial, and administrative support duties, such as maintaining records and files; composing and editing correspondence; data entry; office management; and budget monitoring. The person will act as the office manager for the project team, including filling a front desk position. The Administrative Assistant will be responsible for assisting and supporting the project team and key personnel, including scheduling and facilitating meetings and trainings, preliminary contract preparation and management, preparation of meeting agendas and minutes, and assisting with travel arrangements as needed. The person will organize, oversee, and be responsible for maintaining all project documents.

Budget Analyst (b)(4) Anticipated Hiring Grade/Step 36-08
 [\$44,871 to \$66,753 Full-time]

The Budget Analyst (Budget Analyst 2) will prepare and implement the research project budget; develop expenditure projections, narrative justification of programs, detailed spending plans, and analyze budget requests and adjustments. The analyst will work under the direction of, and report to, Project Director, Mr. Shawn Franklin; Deputy Superintendent Ms. Gloria Dopf; and Deputy Superintendent of Administrative and Fiscal Services Mr. James Wells.

Technical Report Writer (b)(4) Anticipated Hiring Grade/Step 36-08
 [\$44,871 to \$66,753 Full-time]

The Technical Report Writer will manage research project documentation, from initial planning through writing and editing, reviewing and revising, and creating graphics, through final printing and production. The position includes review and editing of information submitted for inclusion in reports, including proper use of terminology, style, direction, content, grammar, punctuation, and clarity. The writer will have a working knowledge of research methods and data interpretation; grant document production; and federal and state education policy, rules, and regulations to ensure document conformity with grant requirements. The writer will draw/create and/or select graphic charts, working drawings, and illustrations to clarify and visually explain the project data and conclusions. The Technical Report Writer must have a background in research methods, data interpretation, and grant document production.

2. FRINGE BENEFITS **\$ 537,809**

Personnel are paid fringe benefits at 34% of base salary. The NDE employee fringe benefit cost is calculated at the state rate and includes health plan costs.

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
168,845	180,203	188,760	537,809

BUDGET NARRATIVE

March 2007

4 of 11

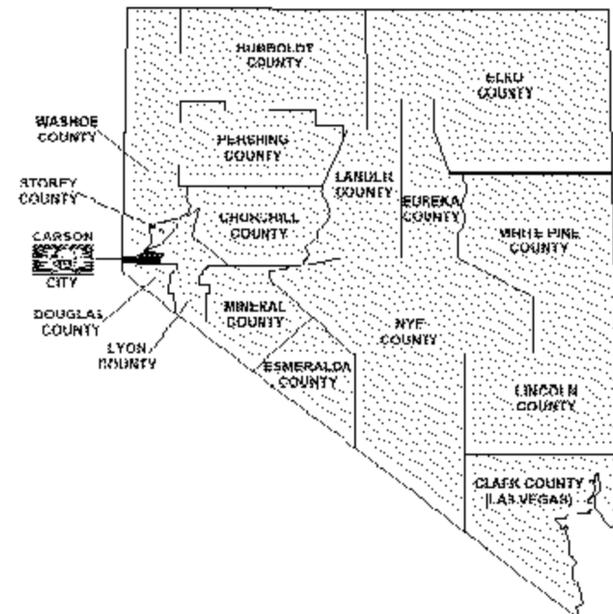
3. TRAVEL

\$ 94,139

FY 2007 State of Nevada Expense Reimbursement Rates

Airfare	Mileage	Car Rental	Lodging	Per Diem
No limit	48.5¢ per mile	No limit	\$58 / day	\$26 / day
YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$	
28,844	36,451	28,844	94,139	

Round Trip Mileage (example)			
Carson City	↔	Reno Airport	65
Reno	↔	Las Vegas	970
Reno	↔	Elko	600
From Reno or Las Vegas to locations not served by commercial airlines, ground transportation will be used.			



YEAR 1	YEAR 2	YEAR 3	TOTAL
\$	\$	\$	\$

3.1. Required Grant Conference - Washington, DC
1 trip/yr./2 people/3 yrs.

RT 3 days Reno to Washington, DC				
Car rental 3 days/yr. \$50/day	450	450	450	1,350
Mileage est. 100 mi./yr. \$0.485/mi.	49	49	49	147
Airfare RT est. \$700/person/2 people/trip	1,400	1,400	1,400	4,200
Per diem \$26/day/3 days/2 people	156	156	156	468
Per diem \$14/day in excess of state reimbursement rate	84	84	84	252
Lodging 2days/2 people \$58/day/person	232	232	232	696
Lodging in excess of state reimbursement rate \$42/day/person	168	168	168	504

3.2. Training - Project Manager & one Database Administrator to 17 school districts min. 1x/yr./3 yrs.

Mileage to/in 5 urban/12 rural districts est. 5,000 mi./yr. \$0.485/mi.	2,425	2,425	2,425	7,275
Airfare RT to 12 rural districts est. \$500 person/2 people/district/yr.	12,000	12,000	12,000	36,000
Car rental 12 districts/yr./2 people/3 days est. \$50/day	1,800	1,800	1,800	5,400
Per diem \$26/day/2 people/12 districts/3 days/district	1,872	1,872	1,872	5,616

Per diem \$14/day in excess of state reimbursement rate	1,008	1,008	1,008	3,024
Lodging 3 days/2 people/12 districts \$58/day/person	4,176	4,176	4,176	12,528
Lodging in excess of state reimbursement rate \$42/day/person	3,024	3,024	3,024	9,072

3.3. Examine 3 state systems - Project Manager & one Database Administrator

Car rental 3 days/yr. \$50/day	450	450	
Mileage est. 900 mi. \$0.485/mi.	437	437	
Airfare RT Reno to model states est. \$700/person/2 people/trip	4,200	4,200	
Per diem 2 people/9 days \$26/day	468	468	
Per diem \$14/day in excess of state reimbursement rate	252	252	
Lodging/2 people/9 days \$58/day	1,044	1,044	
Lodging \$42/day in excess of state reimbursement rate	756	756	

4. EQUIPMENT \$5,000 or more per item \$ 1,350,000

Hardware costs are based on the purchase of a web server farm environment to support user capacity, additional database servers to host analytical data marts, and a storage area network to serve as a centralized storage platform. The purchase of additional dedicated servers is designed to better manage current implementation and to effectively manage the anticipated quantity of data collected. In order to meet the demand that will be placed on the SAIN, the NDE will propose a web farm and data mart infrastructure which will require additional hardware resources. All hardware components will be purchased from Dell Corporation. NDE will work with Dell Corporation on hardware optimization. Software costs are based on purchase of data analysis tools and licensing (end-user, database, server).

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
950,000	200,000	200,000	1,350,000

	YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
4.1. Web Servers 6 @ \$25,000 ea.	130,000			130,000
Dell 2950 PowerEdge Servers				
2 - Quad Core 2.6 GHz Processors				
32 GB RAM				
4 - 160 GB SATA, 7.2 K RPM Hard Drives				
Perc 5, Integrated Controller Card				
2 - 1 GB NIC Cards				

<p>4.2. Application Servers 6 @ \$45,000 ea. Dell 6850 PowerEdge Servers Quad Dual Core 3.4 GHz Processors 64 GB RAM 4 – 300 GB ULTRA 320 SCSI Hard Drives RAID 5 SCSI Backplane, Hot Plug 2 - 1 GB NIC Cards Microsoft Server 2003 Operating System</p>	<p>270,000</p>	<p>270,000</p>
<p>4.3. Database Servers 4 @ \$50,000 ea. Dell 6950 PowerEdge Servers Quad Dual Core 2.8 GHz Processors 32 GB RAM 5 - 300 GB, 10K RPM Hard Drives Raid 5 Controller Configuration 2 - 1 GB NIC Cards Microsoft Server 2003 Operating System Microsoft SQL Enterprise Server 2005</p>	<p>200,000</p>	<p>200,000</p>
<p>4.4. Software: data analysis tools; end user, database, server licensing</p>	<p>350,000</p>	<p>200,000 200,000 750,000</p>

5. SUPPLIES incl. equipment less than \$5,000/item \$ 90,900

Workstations for the project team will be designated solely for use in the grant project. The computers and peripherals will be used to establish and maintain databases, analyze and evaluate data, train stakeholders, prepare deliverables, and conduct all other business related to the grant project. All hardware components will be purchased from Dell Corporation. NDE will work with Dell Corporation on hardware optimization and purchase additional software required by the project team.

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
34,900	28,000	28,000	90,900

<p>5.1. Workstations: 9 @ \$3,000 ea. Dell Optiplex 745 4 GB RAM Dual Core 2.66 GHz Processor 128 ATI Radeon Video 2 - 20in. UltraSharp Flat Screen Monitor 160 GB SATA, 3.0 Gb/s Hard Drive Microsoft Vista Operating System</p>	<p>27,000</p>	<p>27,000</p>	<p>27,000</p>	<p>81,000</p>
<p>5.2. Dell Precision M90 Notebook Computers 2 @ \$1700 (Customized for project team members in field) Processor: 64-bit dual-core Intel® Core™ 2 Duo processor To T7600 (2.33GHz, 4MB L2 Cache, 667MHz FSB Operating System: Genuine Windows Vista™ Ultimate</p>	<p>3,400</p>	<p></p>	<p></p>	<p>3,400</p>

Graphics: NVIDIA Quadro® FX 3500M 512MB
 Memory: 4GB2 dual-channel3 DDR2 SDRAM
 Storage: 120GB4 capacity internal hard drive
 Screen: 17" anti-glare WXGA+display

5.3. Dell Laser Printer 5310n (network)	3,500			3,500
5.4 Toner cartridges, paper, office supplies	1,000	1,000	1,000	3,000

6. CONTRACTUAL **\$ 1,266,600**

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
422,200	422,200	422,200	1,266,600

6.1. NV DoIT Service Level Agreements
 \$109/hr./1000 hrs./yr. 109,000 109,000 109,000 327,000

The Nevada DoIT support may include, but not be limited to:
 Determination of components of project management requirements
 Assistance in building fully integrated project plans
 Assistance in identification and review of deliverables
 Assistance in development and presentation of deliverables
 Expertise as requested or required throughout the duration of the project
 Assist the Project Manager in reduction of project risk, rework, and exposure to risk
 Provides early warning to address jeopardy issues
 Provides processes and templates for project deliverables
 Provides technical and specialized knowledge and skills as appropriate

6.2. Full Hosting Nevada DoIT 27 servers
 \$300/server/mon. 97,200 97,200 97,200 291,600

The Nevada DoIT technical support of hosted systems includes, but is not limited to:
 Incident management service
 Basic server hosting
 Basic server hosting, non-server disc
 Managed hosting
 Full hosting
 Email hosting

6.3. External Resources, State master service agreements \$130/hr./800 hrs./yr. 104,000 104,000 104,000 312,000

External resources may include, but not be limited to:
 Technical support for maintenance, upgrades, and additions to SAIN
 Assistance with reporting and analysis related to SAIN
 Documentation review
 Testing and integration of software enhancements

6.4. Systems Design Engineering, NV DoIT

\$112/hr./1000 hrs./yr. 112,000 112,000 112,000 336,000

The Nevada DoIT systems design engineering may include, but not be limited to:
 Assistance with application design and development
 Assistance troubleshooting, maintaining, and upgrading data collection and analysis systems
 Data warehouse and report enhancement design
 Problem resolution
 Design/monitoring of data transmission for data transfers from peripheral data sources and sites
 Security system integration design and engineering
 Testing and integration of software enhancements

7. CONSTRUCTION – N/A

8. OTHER **\$ 167,800**

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
55,700	55,800	56,300	167,800

8.1 Project team office facilities rental unit	40,000	40,000	40,000	120,000
8.2 Training of stakeholders, TBD	10,000	10,000	10,000	30,000
8.3 Printing of documents for NDE, deliverables, & dissemination	700	800	800	2,300
8.4 Postage	500	500	500	1,500
8.5 Copy costs	4,500	4,500	4,500	14,000

9. TOTAL DIRECT COSTS #1-8 **\$ 5,089,038**

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
2,157,093	1,452,663	1,479,281	5,089,038

10. INDIRECT COSTS **\$ 910,938**

The U.S. Department of Education negotiated rate is 17.9% pursuant to the authority cited in Attachment A of OMB Circular A-87, fixed federal program without supplement-not-supplant provisions, effective for the period from July 1, 2006 to June 30, 2007.

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
386,120	260,027	264,791	910,938

11. TRAINING STIPENDS – N/A

12. TOTAL COSTS #9-11 **\$ 5,999,975**

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
2,543,213	1,712,690	1,744,073	5,999,975

End Section A – USDE Federal Funds

**BUDGET NARRATIVE – SECTION B NON-FEDERAL FUNDS
 NDE IN-KIND CONTRIBUTION**

1. PERSONNEL - NDE

(b)(4)

YEAR 1	\$	YEAR 2	\$	YEAR 3	\$	TOTAL	\$
(b)(4)							

The NDE staff will provide oversight and expertise for project management, organization, development, implementation, fiscal accountability, data system management, data collection and analysis, and personnel and project evaluation. Key personnel will act as liaisons to the Nevada Legislature. Projected total salary costs are based on estimates of current salaries with COLA and anticipated time contributed to the grant project. Actual time and costs may vary from estimates.

2. FRINGE BENEFITS

(b)(4)

Personnel are paid fringe benefits at (b)(4) of base salary. The NDE employee fringe benefit cost is calculated at the state rate and includes health plan costs.

YEAR 1	\$	YEAR 2	\$	YEAR 3	\$	TOTAL	\$
(b)(4)							

3. TRAVEL

(b)(4)

FY 2007 State of Nevada Expense Reimbursement Rates

Airfare	Mileage	Car Rental	Lodging	Per Diem
(b)(4)				

YEAR 1	\$	YEAR 2	\$	YEAR 3	\$	TOTAL	\$
(b)(4)							

3.1. NDE estimated per yr. re: SAIN

3.2. Grant (NGA Honor States)

(b)(4)

4. EQUIPMENT

5. SUPPLIES

YEAR 1	\$	YEAR 2	\$	YEAR 3	\$	TOTAL	\$
(b)(4)							

5.1. Paper

5.2. Copier supplies

5.3 Office supplies, binders

(b)(4)

6. CONTRACTUAL

(b)(4)

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
(b)(4)			

Projected 10% increase each years 2, 3

6.1. NV DOIT SLA 7/1/06-7/1/07
 technical support of hosted systems

6.2. NV DOIT SLA 7/1/06-6/30/07
 database administration, SAIN 1560 hrs./yr.

6.3. NV DOIT SLA 7/12/06-6/30/07
 Bighorn Portal Phase III project
 management support 227 hrs./yr.

6.4. NV DOIT SLA 11/1/06-6/30/07
 application design & development
 SAIN/ARC & AYP systems 1000 hrs./yr.

6.5 Consultant - grant (NGA Honor States)

(b)(4)

7. CONSTRUCTION – N/A

8. OTHER

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
(b)(4)			

8.1. Assessment funds (b)(4)

8.2 Grant (NGA Honor States), NDE training &
 meeting expenses

8.3 Printing, postage, copy

8.4 Research protocol, online modules -
 grant (NGA Honor States)

8.5 Analysis reports, support materials -
 grant (NGA Honor States)

(b)(4)

9. TOTAL DIRECT COSTS

(b)(4)

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
(b)(4)			

10. INDIRECT COSTS

(b)(4)

The U.S. Department of Education negotiated rate of 17.9% pursuant to the authority cited in Attachment A of OMB Circular A-87, fixed federal program without supplement-not-supplant provisions, effective for the period from July 1, 2006 to June 30, 2007.

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
(b)(4)			

11. TRAINING STIPENDS – N/A

12. TOTAL COSTS

(b)(4)

YEAR 1 \$	YEAR 2 \$	YEAR 3 \$	TOTAL \$
(b)(4)			

End Section B – Non-Federal Funds