# "CAPACITY BUILDING FOR STATISTICAL ACTIVITIES" GUAM DEPARTMENT OF EDUCATION



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Į	FEDERAL ASSISTANCE	CANTS		TION		Year month day
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1	a. Applicant Name : Guam Departm	ent of Edu	ıcation			10 on 10 on 2
Ì	b. Organization Unit :			6.	UMBER	113 0 9 2 2
١	c. Street/P.O. Box 1787	7		PRO-		city Building fo
1	4. city : Agana	e. County :				.l Activities in
	t. State : Guam	g. ZIP Code:	96910			ational Agencies
١	h. Contact Person (Name Dr. Jeff Shafe	ar 472-	-8532	SE,	ice ranc	actoner ngenero-
ا إ				B. TYPE OF APP	LICANT/RECI	PIENT
	7. TITLE AND DESCRIPTION OF APPLICANT'S PE "Capacity Building For Stati	istical Acti	vities"	A-State B-interstate	I- HICALI ES	y Action Alancy Judetional Institution
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ì	sonnel and the provision of	timely, re	eliable, consis-	F-School District G-Special Purpose	Sau	ler appropriate letter A
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•	l and designing st	atictical re	enorts, desidit	9. TYPE OF ASS	C-insurance	•
<u>_</u>	ing input forms and training	g key dep	artment decisio	INB-Supplemental Gra	nt E-Other	Enter appro-
2	makers and staffs on the ne	<u>ew system</u>		12 TYPE OF AF		
ä	10. AREA OF PROJECT IMPACT (Names of cities States, etc.)	, counties.	SER OF PERSONS	Men C-Resi	ision E—	lugmentation
			BENEFITING	B-Renewal 0-Con	tinuation En	ter appropriate letter A
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TION IV-	REMARKS (Please reference the pro	per item numbe:	r from Section	#8 1 <b>,</b> 11 <b>07 1</b> 1	1, if applica	D16/		
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3.

PROJECT APPROVAL INFORMATION									
ITEM 2.  Does this assistance request require State, or local advisory, educational or health clearances?	□N∘	Name of Agency or Board							
ITEM 10. Is there other related assistance on this project previous, pending, or anticipated?	₩мо	See instructions for additional information to be provided.							

#### PART III - BUDGET INFORMATION

GRANT PROGRAM, FUNCTION		FCY	MATER	IOBLIGATED FI	INDS			1519 - 4 5	
OR	FEDERAL CATALOG NO.							NON-FEDERAL	
ACTIVITY (a)	(ь)		FEDERAL (c)		NON-FEDERAL		FEDERAL (a)		TOTAL
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TOTALS		s		s		s			\$
				B - BUDGET					
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	(1) 101 31	aciacits	(2)		(3)		(4)		(5)
e. PERSONNEL	5		s		5		\$		2
5. FRINGE BENEFITS									
c. TRAVEL	12	6							126
4. EQUIPMENT									.20
. SUPPLIES	1,20	0							1,200
I. CONTRACTUAL	5,20								
g. CONSTRUCTION .							-		5,200
h. OTHER	31,000	)							21 000
I. TOTAL DIRECT CHARGES	37,520								31,000
j. INDIRECT CHARGES						`			37,526
k. TOTALS	s		s		s		5		\$
PROGRAM INCOME	8		\$				-		

		CTION C - KON-FEDER	AL RESOURCES		
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1.					
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4 HOH-FEDERAL					
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	SECTION E - BUDGET ESTIMATE	S OF FEDERAL FUND	S HEEDED FOR BALAN	CE OF THE PROJECT	
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· ·		\$	\$ 1	s	s
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21. DIRECT CHARGES:

22 MOIRECT CHARGES:

29. REMARKS:

PART IV - FEOGRAM MARRATIVE (attach see fastroctions)

#### PROGRAM NARRATIVE

Capacity Building For Statistical Activities
In The Guam State
Department of Education

Department of Education Katherine B. Aguon Director of Education

### Table of Contents

8	Page
1. Current Statistical Activities	1
II. Description of Proposed Project	6 <sup>.</sup>
III. Work Plan	10
IV. Management Plan	11
V. Proposed Project Staff	22
VI. Long Term Effort of Proposed Activities	23
Appendix A - Guam Educational Management Information Concept Paper	24
Appendix B - Board of Education Resolution 80-2	25
Appendix C - Data Processing Needs and Design of MIS Data Files and Definitions	26
Appendix D - Report Processing System	27
Appendix E - Vitas, Resumes, Job Descriptions	28
Appendix F - Budget	29
Assurances	. 30

#### 1. Current Statistical Activities

The Guam Department of Education, while small by U.S. Mainland Standards, nevertheless, must collect, process, analyze and report on the same types of statistical information as larger state Departments of Education (SEA's). In addition to fulfilling the SEA function the Department also functions as a local education agency (LEA) for certain purposes. This dual role often creates considerable burden for Department Staff in meeting local, state and federal information requirements. Most current statistical reporting requirements are fulfilled manually. The Department firmly believes it has an obligation to the Guam Legislature (State), federal government, Board of Education and Division Heads to provide any information they may require. However, there are times when the burden of collecting and presenting statistical information in meaningful report formats is so great that by the time the information is aggregated it is often too late to aid in the decision-making process. More often than not decisions are crisis oriented.

Current data collection efforts and activities are accomplished by manual methods that focus mainly on the following:

- Monthly attendance/absence accounting, ADA, ADM
- 2. Monthly enrollments broken down by:

  Sex Ethnic background

  Grade Attendance areas

  Age
- 3. P.L. 81-874 Impact Aid Survey
- Instructional and administrative staffing patterns
- 5. Personnel data
- 6. NCES Common Core of Data Survey
- 7. ESEA Title | Low Income Survey

- 8. Withdrawals, dropouts, entries, re-entries
- Budget expenditures, appropriations, projections

This information is collected by a data collection plan developed in the early 1960's and uses little or no automatic data processing.

During 1978 a data systems consultant was hired to develop a conceptual plan for an educational management information system (MIS). (See Appendix A) After two years of study and planning the Board of Education adopted Resolution 80-2 in support of establishing a Research, Planning and Evaluation Office under which a management information system function would play a key role. A concept, of timely and accurate information for improving decision making was the key theme of this resolution. A copy of the resolution may be viewed in Appendix B.

The MIS conceptual plan recommended the establishment of five linked data bases which would include Student, Personnel, Facilities, Finance and Instructional Programs. The plan further recommended that an in depth study be undertaken to determine the exact information needs of decision-makers and that data elements be defined and codes developed consistent with USOE handbooks. Local appropriations were used to conduct this study. The study was completed on July 31, 1980. The Department now has a standardized list of data elements, codes and an implementation plan for data processing. Funds for leasing a computer system have been budgeted locally and is scheduled for delivery in November 1980. A copy of the complete needs study, data element handbooks and codes as well as an implementation plan may be viewed in Appendix C.

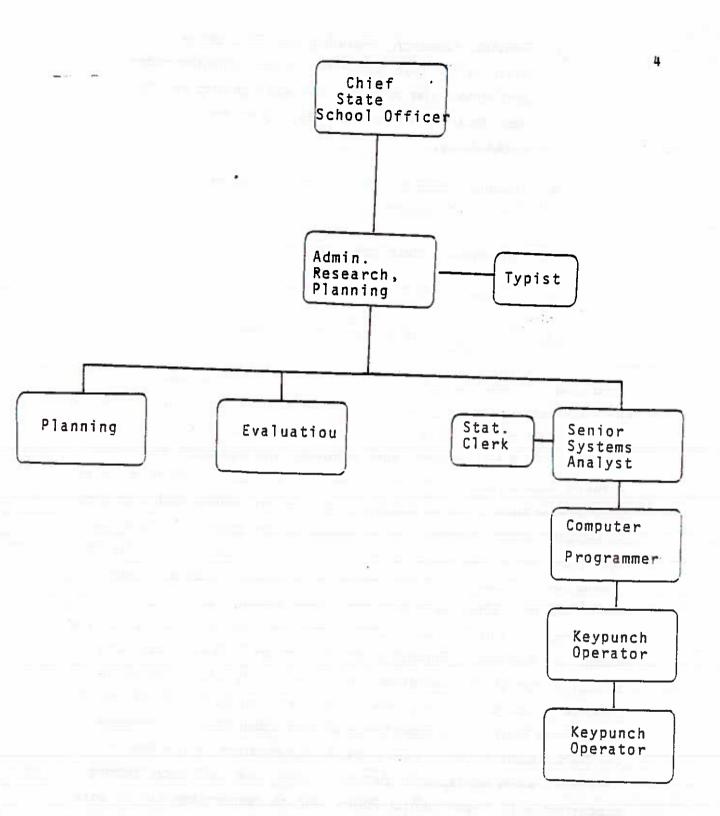
The study completed on July 31 also identified other needs crucial to the implementation of a management information system. There is a need to:

- 1. Study, organize and design statistical reports
- 2. Design input forms

- Provide Research, Planning and Evaluation
   Staff, other DOE Divisions, school administrators and school clerks with inservice training on the new data element directories, codes and procedures.
- Develop/acquire computer programs for statistical reports
- implement a data base system
- 6. Implement applications
- 7. Have access to a document scanner

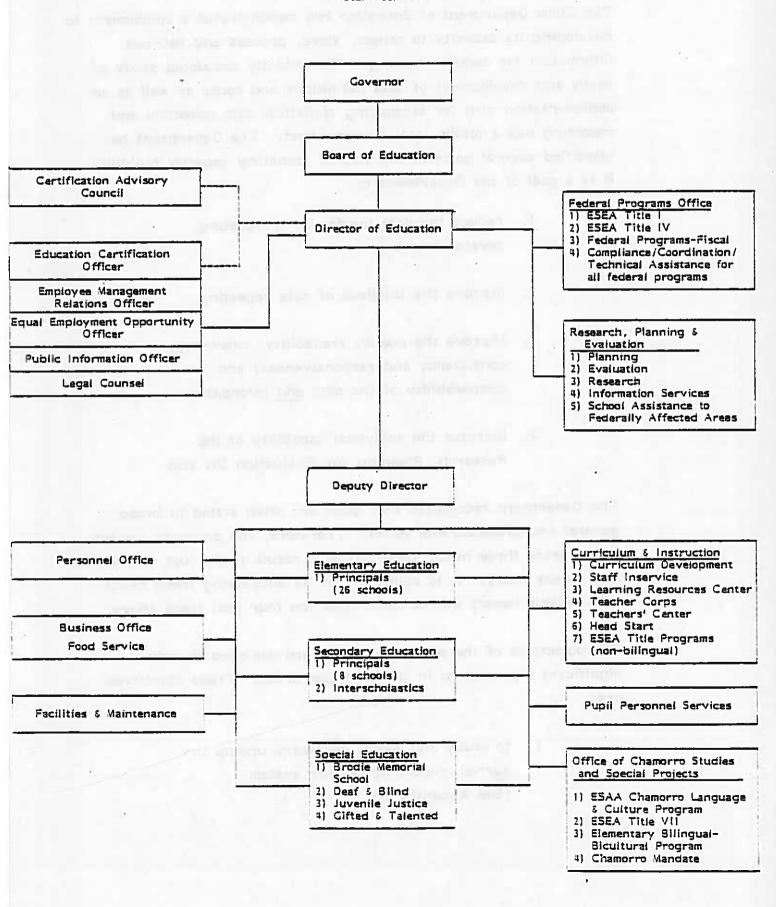
Fortunately, Guam's Chief State School Officer saw a need to create a top level data processing advisory committee whose function would be to recommend data processing policy and serve as a top level screening committee for forms design, data requests and computer hardware/ software acquisition. This committee was actively involved in several major areas during the development of the MIS conceptual plan and subsequent study carried out on behalf of the plan. To date the committee has served as a review panel for the data definitions and development of codes and has provided valuable input on preliminary forms design. They have also lent their support to the acquisition of a computer and complete staffing for the data processing function within the Research, Planning and Evaluation Office. This first official action of the committee, which ultimately led to Board of Education Resolution 80-2, was wholehearted endorsement of the MIS Conceptual Plan. The importance of this committee will increase as the Department moves towards the implementation of the MIS plan. The role, while advisory in nature at this time, will soon become concerned with Departmental Policy and be responsible for all data processing policy.

A copy of the Research, Planning and Evaluation, organizational structure may be viewed on the next page.



Research, Planning and Evaluation Organization

# DEPARTMENT OF EDUCATION Organizational Chart Fiscal Year '80



#### II. Description of the Proposal Project

The Guam Department of Education has demonstrated a commitment to developing its capacity to collect, store, process and retrieve information for decision-making. The recently completed study of needs and development of data definitions and codes as well as an implementation plan for automating statistical data collection and reporting was a totally local funded effort. The Department has identified several goals in the area of statistical capacity building. It is a goal of the Department to:

- reduce the data burden by integrating several data bases
- 2. improve the timelines of data reporting
- improve the quality (reliability, relevancy, consistency and responsiveness) and comparability of the data and information
- increase the analytical capability of the Research, Planning and Evaluation Division

The Department recognizes that goals are often stated in broad, general and unmeasurable terms. Therefore, the proposed project will address three needs identified as a result of the just completed data needs study. It is believed that by addressing these needs considerable impact will be made upon the four goal areas above.

The objectives of the proposed project are designed to make significant improvement in the four goal areas. These objectives are:

 to study and where necessary update the current report processing system (See Appendix D)

- to design data collection input forms consistent with identified information needs and recently developed codes
- to provide the Research, Planning and Evaluation staff, other Department decision-makers, division heads, school administrators and clerical staff with insevice training on the new data definitions, codes and procedures.

It is anticipated the activities associated with these objectives will directly benefit the Guam Department of Education in several manners. They will:

- Improve the timelines of data reporting by outlining an up-to-date system of report processing and distribution
- Improve the quality and comparability of the data by providing standardized input forms designed for computer processing from which data can be transformed into information for decision-making
- 3. Reduce the data burden by eliminating redundant data requests
- 4. Provide much needed training for key decision makers and their staffs on the use of the data definitions, codes and procedures.

One must keep in mind that Guam is a relatively isolated island in the Western Pacific. Data processing has only recently been recognized as a useful management tool in education. The dual SEA/LEA function and the relatively small size of the system creates a ripe climate for the

introduction of sound data processing techniques into the system. For the first time in the Department's history it will become possible to provide timely, reliable, consistent and responsive management information for the Department's internal and external publics.

The isolated situation of Guam also makes it extremely difficult to attract data processing personnel. Those that do work on the island are, for the most part, employed by the Government of Guam's Data Processing Center or in private, service oriented business. Some progress has been made. The Community College currently operates a computer science associate degree program. Several staff members of the Department of Education's Research, Planning and Evaluation Division are in the process of receiving training at the College in anticipation of the November 1980 installation of the Department's computer system. However, it is doubtful these individuals will be able to perform the necessary systems analysis, programming and software maintenance for the system without additional training and experience.

This project proposes to use a portion of the grant money to contract an individual from off-island with experience in both data processing and education in order to assist in the study, organization and design of input forms and statistical reports. This individual will also be responsible for developing and implementing a training plan.

It is proposed that a nucleus of local educators representative of school administrators and Department of Education Central Office Personnel be trained on the new forms and procedures. These individuals will in turn be responsible for a certain number of schools and will hold cadre meetings of key staff members. These meetings will accomplish two things. First the meetings will serve to familiarize and orient staff members to the new system codes and procedures. Second, follow up meetings will be conducted to pinpoint problems with the System and to provide evaluative data to project management and the Chief State School Officer. Through these training and evaluation procedures it is anticipated key staff members will become more aware of their own information needs as well as the importance of providing the input data for the system in a timely and accurate manner.

The Government of Guam recently implemented a computerized Financial Management System (FMS). Several activities associated with the three objectives will be conducted. First, the FMS system appears to be fairly comprehensive in so far as financial management information. However, computer codes used to report and aggregate data are not consistent with Guam Department of Education computer codes, nor are they compatible with financial accounting codes of the U.S.O.E. Handbook II. The Guam Department of Education information needs go beyond the reporting needs of the Government of Guam. Therefore, it is proposed to develop a "crosswalk" Software program to convert the Department's program oriented budget codes into FMS coding structures. It is anticipated the Systems analysts and programmers for the Government of Guam computer division will be able to assist in this effort and the efforts of the contracted employee in this area will consist of developing the coding system for the Department's program structure using USOE Handbook II. Naturally input forms will be reviewed and where necessary developed, adapted or acquired to serve this function. Training efforts will also need to be directed towards users as well as program people in both the FMS and Department program oriented budget system.

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#### III. Work Plan

A cursory review of the report processing system contained in Appendix D represents a preliminary effort by the principal investigator named in the application to characterize current information reporting efforts of the Department. This system of reporting would benefit from further study, organization and design that would take into consideration the automatic data processing plans recently developed. In other words, study and organization of this system would provide the necessary impetus to tie several loose ends together. Several outputs from this effort would be evident. Namely the creation of:

- an organized, updated statistical reporting plan or summary
- specification of the required data elements needed to produce each report

Once the study, organization and design of the statistical reports has been completed it will be possible to design the necessary input forms using the specified data elements. At this point it is not possible to specify the exact kind of input forms that would be developed. However, given the nature of education it is possible to speculate that forms having to do with registration of students, pupil accounting, personnel, budget, textbooks and equipment inventory, etc. would be the first to be designed. Fortunately, the Data Processing Advisory Committee has already been given the responsibility for forms control and screening as well as major responsibility for data collection authorization.

Concommitment with these major activities would be the development of a training plan to provide inservice training to Research, Planning and Evaluation staff, other Department of Education division heads, school administrators and key clerical staff on the newly developed data definitions, codes and procedures. The implementation of the training plan could actually begin before input forms were designed since a knowledge of the forms is not necessary in order to become familiar with the definitions and codes.

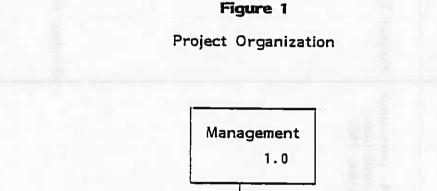
#### IV. Management Plan

Statistical

Report Design

2.0

For ease of management the project has been divided into several components. Overall responsibility for managing the project has been delegated to the Administrator, Research, Planning and Evaluation (See Appendix E for Vita). Figure 1 depicts the project organization. Basically the organization reflects the three major objectives of the project.



Input Forms

Design

Staff Development/

Training

4.0

Table ! depicts the management plan expressed in terms of outcomes and activities. Table !! presents the major milestone chart.

3.0

It is the goal of the management component to provide coordination and document and evaluate processes and procedures of the project

1. 0	ıtput		2, Activities	3. Resources	Date	Staff	Evaluation
1.1	Management plans for each component	1.1.1	Develop a management plan for studying and updating statistical reporting requirements	State Dept. personnel Federal Regulations, Gov. of Guam FMS personnel	August 1980	Admin. RPE	
		1.1.2	Develop a management plan for designing input forms		1		
		1.1.3	Develop a management plan for staff develop- ment and training				
						- 5-1	
1.2	Hire Personnel	1.2.1	Conduct search for personnel		October 1980	Admin. RPE, Assoc. Supt Personnel	
			90 U			Q1	12

#### MANAGEMENT MATRIX

Component: Reporting Design 2.0

To study, organize and design statistical reports

1. Output	2, Activities		3. Resources	Date	Staff	Evaluation
2.1 Update information reporting needs of department	2.1.1	Conduct survey of management personnel on current reporting system	Central office staff, Legislative, Principals	Dec. 1980 .	Consultant, Admin. RPE	
	2.1.2	Assess information needs of management personnel				
	2.1.3	Assess information needs of Guam Legislature				
Sales in the second of the sec	2.1.4	Develop reporting time lines	beiliness market of respections market of respectives		Harata	
		D/D/Company	Phinas discussion and the			
2.2 Design output reporting forms	2.2.1	Determine reports that can be generated from the planned data bases	Data Processing Needs Assessemnt, Data Definitions, Codes,	Jan. 1980	Admin. RPE, Consultant, Division	
	2.2.2	Specify required data elements needed to produce reports	File structures		Associates Supt.'s, Systems Analyst	ū
mig spilipment		and and and and	THE RESERVED			

Goal	Statement		

#### MANAGEMENT MATRIX

Component:	

1. Output		2, Activities		3. Resources	Date	Staff	Evaluation
2.3	Updated report processing Summary Charts	2.3.1	Determine reporting dates requirements	Reporting/Information needs of department internal and external publics	March 1981	Admin RPE	:= 3
		2,3,2	Schedule distribution of reports			•	9-
		8.1				ø	
		6) 					
	Addiscontrol (1975)						
2.4	Program oriented coding structure	2.4.1	Develop a DOE program structure	USOE Handbook II FMS Personnel DOE Business Office	May 1981	Consultant, Division Heads	
		2.4.2	Develop codes consistent to USOE Handbook II.	Personnel, Bureau of Budget Mgt. Research		Conșultant	14
		2,4,3	Develop "crosswalk" software to relate	emiesture z stati	1 cm-4mi	Consultant, Computer Programmen	

Goal Statement	MANAGE	MANAGEMENT MATRIX			
1. Output	2, Activities	3. Resources	Date	Staff	Evaluation
	DOE accounting codes to Gov. Guam FMS system.				
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#### MANAGEMENT MATRIX

Component: Input Forms 3.0 Design

To develo	p input forms	for	
computer	processing		

1. Output	2, Activities	3. Resources	Date	Staff	Evaluation		
3.1 Forms Design	3.1.1 Develop forms design guidelines	DOE forms now in use, Data Processing Advisroy Committee	Feb. 1981	Consultant			
	3.1.2 Collect and review all current forms used	information reporting requirements from 2.1	Feb. 1981	Admin, RPE			
	3.1.3 Using information reporting requirements and data bases design, determine data elements needed on forms		April 1981	Consultant, Admin. RPE, Systems Analyst	19		
	3.1.4 Develop forms for printing complete with computer codes	# # # # # # # # # # # # # # # # # # #	July 1981	Consultant	•		
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MANAGEMENT MATRIX	Component:	
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. Output	2,	Activities	3. Resources	Date	Staff	Evaluation
3.2 Forms Contro! Function/Centralize forms design function established	3.2.2 A	stablish forms review riteria ssign responsibility or forms control to ata processing dvisory committee	List of current forms and Data elements	Dec. 1980 Sept. 1980	Data Processing Committee  Director of Eduction	
	3.2.4 De	esign forms review chedule evelop formal rocedures and informal vision heads, other ersonnel			Data Processing Committee	
K F (ISING) LINE	ror	velop procedures periodic review forms		14300° 5280	Admin. RPE, Consyltant	
(produce		arrounes.	a manara	TIPLE 1	time	
						17

#### Goal Statement

#### MANAGEMENT MATRIX

Component: Training 4.0

To provide RPE, Division heads, principals and clerical staff with training on the new forms, definitions, codes and procedures

1. Output	2, Activities	3. Resources	Date	Staff	Evaluation
4.1 Training Plan	4.1.1 Identify exact target groups to undergo training		Nov. 1980	Admin. RPE	
Ė	4.1.2 Fix training needs of target groups		Dec. 1980	Admin. RPE	
	4.1.3 Schedule training sessions on data definitions, codes, forms and procedures		Dec. 1980		
	4.1.4 Identify codes of trainers and train them on system		Dec. 1980	Trainers	
	4.1.5 Develop measurable training objectives		Dec. 1980	Admin. RPE/Cons.	
4.2 Training packets and materials	4.2.1 Using objectives from 4.1.5 develop training packets for each target group with input from trainers	Xerox paper, typing, copying services	April 1980	RPE Staff	<b>=</b>
				4 =	

Goal Statement	MANAGEA	MENT MATRIX	Componen		(6)							
. Output 2, Activities 3. Resources Date Staff Evaluation												
	Z, Activities	5. Nesources	Date	Stall	Cvaluation							
4.3 Implement Training Plan	Conduct training as called for in schedule	Schedule of training	June - Sept. 1981	Trainers								
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Major Activity	Α	S	0	N	D	J	F	М	Α	М	J	J_	A	S	Estimated Staff Days
. Complete Management plans for all components and make modifications as needed	8			$\triangle$				ő es			88				5
. Hire data processing / education consultant		1	1	is III								!		857	ц
. Update information reporting needs of department internal and external publics	d		1		<b>√30</b>				÷						60
. Design output reporting formats		)));	1			<u> </u>								r III	80
. Update report processing summary chart		w.		1							2,1	1		÷	20
Develop program coding structure	come.	he n	1		n ei	<u> 31</u>	j.		1) 00				10 10	110000	60
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#### V. Proposed Project Staff

Overall responsibility for directing the project has been delegated to the Administrator of Research Planning and Evaluation. No project funds will be obligated to compensate this individual for directing the project or the activities carried out on behalf of project objectives. It is anticipated the Administrator will devote 10% of his time to project management and coordination activities.

The consultant will devote 100% of his time on 225 person days to project activities. The Departments Senior Systems Management analyst will devote approximately 25% or 56 man days to the effort. The Computer Systems Analyst IV(programmer) will devote 25% of his time or 54 man days to developing testing and inplementing the "crosswalk" system.

Copies of position descriptions for the Senior Systems/Management Analyst, Computer Systems Analyst and Administrator Research, Planning and Evaluation may be viewed in Appendix E along with the resume of Dr. Shafer.

#### VI. Long-Term Effort of Proposed Activities

The successful implementation of this project will result in a system that will be "up" for the coming years. Any revision of the system will be accomplished through routine maintenance functions normally associated with computer software and hardware. Beyond evaluating the entire system of reporting management information for decision-making, there will be the yearly assessment of the responsiveness of the system to use needs with modifications coming only as a result of use feedback or new information needs of the internal and external publics. As long as the system continues to provide accurate and timely information to decision-makers the system will be maintained by the Department.

Appendix A

### GUAM FDUCATIONAL MANAGEMENT INFORMATION SYSTEM CONCEPT PAPER (G.E.M.I.S.)

PREPARED BY

DR. JEFFREY E. SHAFER

DECEMBER 1979



RESEARCH PLANNING & EVALUATION

MARY ELAINE CADIGAN, DIRECTOR OF EDUCATION

# Guam Educational Management Information System (GEMIS) Concept Paper

Part I - Context, Scope and Issues

Part II - Needs, Alternatives, Development and Implementation

November - December 1979

Dr. Jeffrey E. Shafer Research, Planning & Evaluation

## TABLE OF CONTENTS

		PAGE
Intro	eduction	1
PART	I - Context Scope and Issues of a Management Information System	4
I.	PRELIMINARY CONCEPTS .	
	Committment Data Processing Advisory Council Interagency Cooperation Objectives of An Information System	4 5 6 8
II.	RESEARCH PLANNING AND EVALUATION	
	Planning Evaluation	12 14
III.	OFFICE OF RESEARCH PLANNING AND EVALUATION	13
	Department Planning School Accreditation Monitoring Program Evaluation Research Services Statistical Services/Information Services School Building Computer Services Data Control Data Collection Forms Design Systems Analysis - Programming U. S. O. E. Reporting	18 19 20 20 23 24 24 25
IV.	INFORMATION SYSTEM CONCEPT	
	PHASE II - Information Collection Concepts PHASE III - Data Base Storage and Maintainance PHASE IV - Information Reporting Principles PHASE V - Evaluation	29 30 31 32
ν.	INTEGRATION PRINCIPLES	
	Implementation	33

VI.	THE CONCEPTUAL DESIGN	PAGE
	Data Collection Data Entry File Building and Maintenance Information Retrieval and Reporting Organization of Data Files Applications	35 37 38 39 39
VII.	TECHNICAL SUMMARY	41
PART :	II - NEEDS, ALTERNATIVES AND PLANS FOR A MANAGEMENT INFORMATION SYSTEM	
	Data Processing Needs of the Guam DOE	42
	Students	43
	Personnel	51
	Finances	52
	Instructional Programs	52
	Facilities	53
	Guam DOE Data Processing - MIS Alternatives	56
9	Plan for Development and Implementation of Guam Department of Education MIS System	61
APPEN	DIX	
	Beneri Brossesine Summary Charts	80

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#### INTRODUCTION

The purpose of this paper is to describe the process the Department of Education should follow to accomplish the implementation of a comprehensive educational management information system.

The paper is presented in two parts. Part I presents the Context, Scope and Issues facing the decision to develop an integrated Management Information System. Part II, which is based on a needs assessment conducted by Dr. Ralph Van Dusseldorp of WEO Systems, Incorporated of Portland, Oregon, presents Needs of the Department of Education, MIS Alternatives and Plans for Development and Implementation of the MIS programs. Portions of this paper were founded by ESEA Title IV-C. The opinions expressed in this report do not necessarily reflect the position or policy of the U.S. Office of Education.

Today's educational decision-makers have many more activities to consider, more outside influences to cope with and a greatly increased tempo of operation than at any time in the past. Federal regulations, guidelines and laws have greatly increased the necessity of developing, maintaining and generating reports from data bases. The quality of educational decision-making is only as good as the information brought to bear upon the decision.

It has been observed that real power in the computer age will go to those who control the information: information influences people and events, hence information is power.

Information systems have one important by product of providing data for research which ultimately leads to formulating new alternatives for the decision-makers.

An educational information system should:

- 1. Collect all relevant data in the easiest manner, and only when necessary.
- 2. Assemble, correlate and compute relationships, with a minimum of human effort and a maximum of machine processing within economic limits.
- 3. Store information in machine sensible formats to enable efficient and economical access for practical needs of educators.
- 4. Disseminate such collected and computerized information in meaningful, timely reports, as defined by the educator or information system user.

Certain benefits attach to the implementation of an information system which should not be minimized. An information system could:

- 1. Minimize the administrative workload in order to allow these professionals more time to devote to the subjective, and professional aspects of educational programs.
- 2. Minimize the administrative workload of Department of Education personnel in the preparation, compilation and computation of data for administrative decisions and control.
- 3. Provide a data base that may be used for educational research to determine currently unknown relationships between educational achievement and other factors, and to provide solid statistical validity to assumed cause and effect relationships.
- 4. Provide data upon which more accurate and detailed projections of educational trends can be made.
- 5. Provide data upon which the various planning and evaluation functions of the Department may be based.

6. Provide the necessary data used in the processing of local, federal and internal reporting requirements. The system should also be responsive to a broad category of administrative needs and be based upon the documented needs of these individual administrative and policy makers.

It is emphasized that this paper represents a preliminary attempt to conceptualize a system. It is firmly believed that an information system can assist in planning, evaluation reporting and the overall operation of the educational system of Guam.

PART I - Context, Scope and Issues of a Management Information System

#### I. PRELIMINARY CONCEPTS

#### A. Commitment

The commitment to an educational data/information system must come from all branches of the Government of Guam in order to assure adequate funding as well as documented input for the needs of the computerized system. This commitment must come from within the Department as well as external agencies including, but not limited to, the Territorial Board of Education, the Legislature, and the Governor's Office.

It is recommended the Director of Education first seek to secure the commitment of the Territorial Board of Education in the form of a resolution to support the preliminary conceptual design presented in this paper. Once this commitment is made then it becomes of paramount importance for the Board to communicate this commitment to the Legislature and the Governor's Office. Lack of commitment from either of these branches will have the overall effect of negating other commitments obtained since the level of funding required to plan and implement an educational data/information system is considerable.

Past attempts at developing a responsive educational data/ information system have been hampered by several conditions:

- 1. Lack of DCE computer system necessitating total reliance on the Department of Administration's computing system. As a result of this total reliance, DCE has traditionally been assigned a low priority at the DCA Computer Center.
- Lack of qualified staff to implement and maintain software support.

- 3. Tremendous expense associated with contracting outside service bureaus for development, key entry services and maintenance of programs.
- 4. Less than adequate commitment of funds within DOE to support and maintain such a system.
- 5. Less than adequate Federal support for Guam to plan and implement reporting systems mandated by enactment of Federal laws, regulations and rules. A part of the agreement states make when they accept federal funds is to provide periodic information to the funding source. Guam needs to assess the impact of these requirements on local efforts and budget accordingly. This should be a line item in the budget to cover costs of designing information systems associated with the grant award. This could be done in three manners: 1) as a line item under local budget contractual services, 2) as a budgeted item in the proposal for federal assistance, or 3) through the application of indirect costs.

This preliminary conceptual design will attempt to only specify the various subsystems and the obvious data elements of each subsystem based upon past and present information needs. The conceptual design will allow for implementation of each subsystem on an incremental basis, so that funding can be spread out over a three to five year period. It is anticipated as future information needs are determined by subsequent detailed systems analysis techniques the system itself will evolve into a fairly stable set of data elements within each subsystem.

## 3. Data Processing Advisory Council

It is recommended that Data Processing Advisory Council be appointed by the Director to include three building principals, the Associate Superintendents and a planner.

It is also recommended that at least one management type representative from the Department of Administration's computer center serve on this committee as a technical advisor as well as one representative from the Community College and one from the University of Guam. The Director should seek to legitimize this committee by having these appointments agreed to by the Board of Education, the Governor, the Chairperson of the Legislative Committee on Education and the boards of the University of Guam and the Guam Community College.

#### C. Interagency Cooperation

In a day of rising costs it would behoove the three major institutions on Guam reponsible for education to share resources and responsibilities with respect to data processing, planning, research and evaluation. It comes to mind that both the University and the Community College operate computing systems as autonomous agencies. The feasibility of pooling these resources along with the DOE's to create a centralized data processing network for education should be studied.

Aside from the needs of management for current, timely and accurate information for decision—making there will no doubt be needs identified for instructional programs in the field of information and computer sciences. While these needs are important and should be considered in the design of a computing system, suffice it to say that these needs should be planted for only in as much as the actual computer

<sup>\*</sup>A Data Processing Committee was formed in November 1979. Sans DOE. UOG. and GCC representation.

hardware should be such that it would support a minimum of instructional activities in the schools. The minimum should include some "hands-on" operation of terminals, machine operation and services related to learning various programming languages (BASIC, FORTRAN IV, COBOL, etc.) at the introductory level. It is, after all, from these student populations that Guam can expect to be able to hire future computer center personnel including center managers, analysts, programmers, and data entry personnel. The computer age is no longer something we can assign responsibility for to future generations.\* We are now living in the computer age and to ignore these instructional needs would be tantamount to being remiss in our mission of providing relevant educational programs for our student populations. A close look should also be given to interactive instructional packages in the disciplines as well as computer based guidance/ counseling systems. The advent of microcomputers could, in the future, reduce the need for centralized instructional computers.

Any conceptual model of an information system should be designed to provide as efficiently, effectively and economically as possible what decision-makers need to know. In addition, this particular model seeks to also incorporate limited interactive instructional functions designed to

<sup>\*</sup>A 1979 Study conducted by NWREL indicates that by 1982, 96% of all school districts in Alaska, Easti, Idaho, Montana, Oregon and Washington will be using a computer for either administration, instruction or both.

eventually provide individual students with information needed to; 1) make decisions about careers and 2) upgrade basic mathematics and communication skills.

## D. Objectives of an Information System

An information system is the total complex in which data is generated, processed and refined to produce the information needed at all levels of the Department of Education for decision-making purposes; planning, evaluation, coordinating, directing and controlling.

Essential elements of such a system include:

- 1. Definition and establishment of over-all department objectives.
- Determination of the necessary information needed to measure achievement in light of these objectives.
- 3. Availability and dedication of highly skilled, competent and experienced personnel or the provision for the training of these personnel.
- 4. Application, development, installation and maintenance of an effective operating hardware and software system.
  - 5. Continuing review and appraisal of the adequacy of the system as the basis for decision-making.

The objectives of an educational management information system cannot be separated from the objectives of the Department of Education. At this point it should become crystal clear that the Department of Education, before planning for the information system functions should first of all complete a mission/function/goal analysis of its organizational structure. Fortunately, while in the process of reorganization, the Director of Education saw the

importance of this task and began this analysis. Once the DOE's missions, functions, and goals are outlined, it will become the task of each administrator to outline critical worker activities. It is under these activities that specific departmental objectives must be developed or identified. From these objectives, the various information needs will be identified to measure attainment of these objectives. Fortunately, previous documents aimed at producing systems manuals for the management of the Department already exist. The initial phase of identifying objectives becomes one of updating existing documents and creating objectives in a few new areas of responsibility as well as adjusting critical worker activities in view of the new organizational structure.

Overall the objectives of the Guam Educational Management/
Information System (GEMIS) are to:

- a. complete the mission/function/goal analysis of the various DOE top, middle and lower management functions to include statements of objectives
- b. provide, in view of these objectives and functions, more nearly automated information handling and processing consistent with the changing needs of the DOE existing technology
- c. evolve an integrated information system based on present and continuing applications, some re-written applications and development of new applications within the fire basic educational information categories of facilities, Finance, Instructional Programs, Personnel and Pupil Accounting by:
  - beginning development of a detailed system design based on the concepts illustrated in this plan as soon as funds and/or professional time will permit

- 2. utilizing any applicable integrated system techniques presently operational or under development in other states and state agencies
- 3. maximizing the ability to cross reference and associate data elements on basic common denominators such as school, instructional personnel, instructional programs and costs
  - 4. minimize the number of times data elements are captured, stored and updated by centralizing the control of the development of the data determination, systems design, programming, forms design, data collection and information requests
  - d. Improve the educational management/information system's responsiveness to the changing needs of the Department of Education staif, schools, the U.S. Office of Education, other Government of Guam agencies, the Legislature, Governor's Office and research projects by:
    - establishing a Research, Planning and Evaluation section under which GEMIS functions can be administered
    - establishing a Data Processing Advisory Council
    - 3. continual evaluation, selection, procurement and adoption of currently available pre-programmed software packages to minimize development costs and time necessary to yield effective output.
    - 4. developing, publishing and disseminating to all users, information regarding the current data base, and advanced plans for modification and organization of that data base.
  - e. Enhance the acceptance and support of the objectives of the continued development of the GEMIS by:
    - 1. becoming reponsive to a broad class of information users
    - 2. requiring top-level involvement in the establishment of policies, goals and expected results of the system

- 3. providing for continuous education for all users and practical expectations in terms of time and cost of desired applications
- 4. securing the necessary funding for such a system within the designated priority areas of the Director of Education

Since it is proposed that the information system be administered under an organizational structure which also addresses research, planning and evaluation functions of the Department of Education the next section of this paper will address these functions as they relate to an information system.

# II. RESEARCE, PLANNING AND EVALUATION FUNCTIONS

In the classical definition of evaluation, Stufflebeam points out that evaluation is, in fact, the provision of timely and relevant information for decision-making. One can not separate planning from evaluation, hence one can not separate information from these two functions.

Research, on the other hand, is generally concerned with discovering new knowledge, testing hypotheses, or identifying relationships which will provide decision-makers with the new alternatives for accomplishing identified missions and goals of the Department.

## A. Planning

The entire concept of an information system is predicated upon the identification of measurable objectives both at the administrative and program level. These objectives, in order to be reponsive to the needs of users, must be based upon accepted needs assessment procedures. A number of planning models are available for use (Phi Delta Kappa, Morthwest Regional Educational Laboratory, and a model being developed specifically for Guam DOE). All models, however, recognize the cyclical nature of the planning, implementation, evaluation and feed back functions. Evaluation then becomes a means whereby improvements are introduced based upon the collection of relevant and timely information. Planning then becomes an activity which is executed continuously on a number of problems concurrently. It is no longer viewed as a part time or single problem oriented function. If educational planning is to meet today's needs effectively, it

must assume new and added dimensions. It must become system wide rather than limited to isolated aspects of the educational program; long range rather than immediate and both comprehensive and coordinated rather than perceived and compartmentalized. The Department's planning function as now executed is based on a crisis orientation. In part, this orientation to management can be traced to the lack of accurate and timely information upon which decisions can be based. This orientation is viewed as both ineffective as well as wasteful: wasteful of both fiscal and human resources. Comprehensive planning is the process through which longterm goals or objectives are established, present activities are analyzed, alternative means are identified to maximize goal attainment and procedures are documented and subsequently scheduled to ensure progress toward the desired goals.

Planning per se is not data processing, a communication network; or an information system; it is not coordination, control, management research or reporting; nor is it the advocacy or publication of a plan. Planning involves all of these components.

The active, conscious selection of goals is as much an integral and primary step in educational planning as are statement and acceptance of these goals, their analysis into components and the determination of the most efficient and effective means of attaining them.

The type of planning being called for in this paper is not possible at a favorable cost/benefit level using current, crisis oriented management techniques. The Research, Planning

and Evaluation division will have to rely heavily on technological tools and techniques for intensive and extensive attacks on information problems that relate to planning. These technological tools and techniques make possible the application of a systematic approach to the collection, storing, processing, analysis, retrieval and dissemination of educational information. This information should:

- 1. facilitate the estimating of future enrollments and future needs of individual schools
- 2. improve the focus of educational research
- facilitate the making of decisions about curriculum development and change
- 4. aid in the assembling of information for comparative purposes
- 5. improve the accuracy and timelines of summaries of educational information
- 6. include provisions for relating costs to program elements

Once identified and analyzed, the goals and objectives should form the basis for developing educational plans. In most school districts, and Guam is no exception, the goals probably already exist, however, the existing goals usually require validation. Once validated, performance indicators can be developed to assess a system's progress toward neeting its objectives and goals.

## 3. Evaluation

It is often pointed out that any well written objective contains the means for evaluating the outcome or attainment

of the objective. In the past, the general public was satisfied with evaluation that focused on the processes which served to direct an activity. However, since the advent of the seventies, the public has been demanding evaluation related to outcomes or results achieved through the activity. The seventies saw an increase in legislative activity related to accountability mandates, the prescription of minimum competencies, performance contracting, and other laws enacted in an attempt to improve the educational outcomes of our school systems. While there is currently widespread disagreement as to the merits of these mandated actions, few would disagree that educators need to evaluate and assess their progress toward meeting the educational goals of their respective communities. In the absence of clearly defined measurable objectives, it is doubtful meaningful evaluation can be accomplished. An objective of any planning activity should be to ensure that a means for evaluating programs are specified.

As a result of a commitment to pursue comprehensive planning and evaluation some very desirable outcomes will accrue. Planning provides a means where by those most affected by the plan can have input into the planning effort. A result of this is the formation of a group of individuals who have commitment to the plan. Chances of implementing a successful plan increases as support for the plan increases. The planning process may also serve as an in-service training device. By assembling task forces, the members of the task force become intimately familiar with one phase of the department.

Today, there is an increased demand by the public as well as by funding agencies for both higher quality education and evidence of a relationship between educational investments and educational outcomes. The educational system of Guam is simply not equipped to respond in a credible manner to such requests at the present time.

Planning and Evaluation, when coupled with an adequate information system, should provide for better educational programs.

At this point, it may be pertinent to point out that good progress in the past was made with respect to planning, evaluation and information systems. One may be tempted ask "what happened?" No easy answer to this question is readily apparent. Perhaps the time was not right. Perhaps educators on Guam in their zeal to anticipate public demands for program accountability moved too swiftly without the benefit of commitments from a broad cross-section of the general public and elected officials.

The Department of Education could expect the following outcomes as a result of a commitment to research, planning and evaluation:

- 1. Management information system responsive to a wide range of users
- Strategies to meet special problems or for implementing programs
- Istablishment of priorities for department operation
- 4. Establishment of priorities for the allocation of resources

This is by no means an exhaustive list. In the next section of this paper, general activities for which the Division of Research, Planning and Evaluation should be responsible will be discussed.

#### III. OFFICE OF RESEARCE, PLANNING AND EVALUATION

The Office of Research, Planning and Evaluation should be under the control of the Director of Education. The Research, Planning and Evaluation Office, should be responsible for the activities discussed in the following sections.

#### A. Departmental Planning

Departmental planning should be a working arm of the Director of Education. This office should be responsible for working with all areas within the department to promote sound planning. The planning function should supply valuable educational information to various agencies within the Government of Guam in order to support the total plan for the Territory as well. With a departmental planning function for developing state plans, divisional plans, and supporting these plans with information from the Statistical Services Unit within the Research, Planning and Evaluation office accountability will be greatly enhanced.

## 3. School Accreditation Monitoring

School accreditation monitoring is placed in the Research, Planning and Evaluation Division. In order to accomplish school accreditation, information is needed from both research and evaluation. This function would develop an accreditation information data plan so the department would be assured that schools are maintaining the requirements for school accreditation. School administrators realize the importance of school accreditation. With the adoption of the district plan for accreditation, the department needs to develop the capability

to monitor the implementation of the accreditation team's recommendations. If the department believes in accreditation, it should do the following:

- Develop a follow-up system for periodic monitoring.
- 2. Develop an Information System that will compile information for schools prior to visitation.

It is felt that since schools will be monitored by Western Association on a yearly basis an objective assessment by Department of Education evaluators is needed prior to the visitation. This assessment would take the form of a process review where recommendations of the previous site visit of Western Association are reviewed for progress, problems encountered and alternative solutions. Objectives outlining person(s) responsible, timelines and methods of evaluation would be an important outcome of this process.

## C. Program Evaluation

The program evaluation function should be involved in evaluating programs that have been approved by the Board of Education. The main objective would be to evaluate programs to ascertain if schools are meeting the goals and objectives developed by the various curriculum committees and as stated in the curriculum guides. This method would give the department an evaluation capability as well as a process for curriculum renewal and needs assessment that would "feed" the planning functions. Program evaluation should be responsible for developing evaluation designs of both an internal and external nature as well as giving technical assistance to various federally funded programs and projects. It is

recommended that the Department seek to "localize" evaluation of federally funded programs by pooling evaluation line item budgets in order to staff and train a core of local evaluation personnel. Indirect costs should be vigorously pursued.

#### D. Research Services

This function should have a staff that can accomplish research on a department-wide basis and develop research projects for individual schools on demand. Research services should be very helpful to other state agencies as well as legislators and others concerned with educational research. If a territory-wide competency based education program becomes a reality, the research personnel should be responsible for the design of the assessment system.

## E. Statistical Services/Information Services

Information systems will be interwoven, throughout the entire department organization and the information this unit maintains will be important for effective administration of the department. It is imperative that the Statistical Services Unit be a part of the Office of Research, Planning and Evaluation. Information is the life blood of educational organizations and one of its tangible products. Without timely information, attempts to progress are made blindly and inadequately. With appropriate data, progress can be made according to the predetermined plan of attack (objectives). The information within an organization is created and then used in a wide variety of areas. In essence, there must be a constant stream of information. The purpose of an information system is to determine, collect and maintain as

effeciently, effectively and economically as possible the information necessary for educational decision-making. The unit should monitor the total complex in which data is generated, processed and refined to produce the information needed at all levels of the Department for administrative purposes, planning, directing, evaluating, coordinating and controlling.

This unit should collect information in each of the five classical educational areas of Finance, Personnel, Pupils, Facilities and Instructional Programs.

It is important that the Department of Iducation recognize this unit as a very important area within their organizational structure along with the Research, Planning and Evaluation Office. The value of the Statistical Services Unit should be measured not in terms of what it is today but rather in terms of what it can do tomorrow.

# 1. Financial Information Services\*

It is imperative that this activity of the Statistical Services Unit have open communication between all divisions of the department and with the Business Office. If this function is accepted by the department, all financial data, both internal and external, can be recorded, tabulated and massaged into meaningful reports. Most of these financially derived reports can be obtained from the existing FMS files for previous fiscal years. Much of the information in the FMS files can be used by the Department.

<sup>\*</sup>Please note that a Government wide system for financial accounting is being implemented by the Department of Administration. DOE is advised to give total support to this effort.

It is recommended that the Department request the Department of Administration to save the files as of the close of business on June 30 (Sept. 30 in the new fiscal year) for each year.

This function should be responsible for communicating with people in the department to ensure correct input to the system and help develop reports needed to make sound decisions. The FMS, as designed, would provide this type of information to decision-makers. A strong commitment from the DOE should be given to the FMS section of DOA. The Department of Administration (FMS) should also be encouraged to provide individual school administrators financial reports from financial data they return to the department. Many administrators need to know their current status with respect to budget expenditures. If these individuals were provided with useful and timely information, it is anticipated they would help the rest of the Department accept the system more readily.

## 2. Personnel Information Services

Personnel information would involve collecting a significant amount of data on all Department employees. The information collected would provide information to the teacher certification office and assist in the placement of teachers throughout the school system as well as placement of other employees. Other divisions would also have access to teacher information.

## 3. Pupil Information Services

If the department decides to collect individual pupil data or summary data, this function is necessary. More and more, pupil statistics are being requested by the U.S. Office of Education (NCES Common Core of Data Survey and other funding requests). Then, too, there is a critical need to develop a reliable means for providing former students with transcripts. A pupil accounting system is a necessity in today's society.

As the system low stands, former students are often unable to secure verification that they even attended a Guam school.

This condition serves to further undermine DOE's credibility in the eye of the public. (While a transcript system would not necessarily be computer dependent, it is considered here as a part of information retrieval.)

### 4. Facilities

A facilities system would provide information about school physical plants for a variety of uses including program evaluation, projected needs, school district redistricting, accreditation and appraisal of the condition and status of school buildings for preventive maintenance scheduling.

### 5. Instructional Programs

The instructional programs would provide in-depth information about curriculum in general. The information retained in this file would enable Department personnel to make curriculum and/or program comparisons from school to school. Information from this system would also be used to respond to the Mational Center for Education Statistics. At present, NCES is collecting curriculum data from schools throughout the United States and its Territories. The instructional programs system would also provide information for student scheduling, grade reporting and transcript requests.

## F. School Building Computer Services

The Department used to prepare student scheduling for some of the Secondary Schools. Administrators and counselors have recently voiced concern over the termination of this service. If the department plans on expanding this service, additional personnel will be needed. This service should be reinstated and if possible extended to more schools. Additional school services could include:

- 1. Grade reporting with honor and failure lists
- 2. CAI (Computer Assisted listruction
- 3. Computer science instructional modules via terminals

### 4. Registration-Preregistration

### G. Data Control

Data control personnel must work closely with the systems analyst and programming personnel to develop the control that is necessary to make a data processing system successful. Some of the responsibilities would be:

- 1. Manual editing
- 2. Batching
- 3. User communications
- 4. Computer scheduling
- 5. Data return
- 6. Assurance of DP accuracy (controls)
- 7. Preparation of output for delivery

At least one person would be needed in the beginning to address this function.

## E. Data Collection Forms Design

Unless this responsibility is centralized, it is extremely difficult to develop standardized information retrieval.

There is probably more "re-inventing of the wheel" done in the forms design area than any other area in data processing.

Obviously, "new information" for one individual is not necessarily new information for the entire department, therefore, all data collection forms should be approved by a central source to determine:

- If the information is already available from the data bank.
- If the collection form fits the data collection criteria stipulated by this section.

 If the collection of this data is unnecessary or redundant.

There is tremendous initial need to review and standardize the forms that are presently being used. All DP related forms would automatically fall under the scrutiny of this section as well as forms used at the school for registration, cumulative records and the like.

# I. Systems Analysis - Programming

In this function, the basic tasks are the following:

- 1. Defining what the information system should accomplish.
- 2. Describing the existing requirements.
- Documenting existing systems.
- 4. Recommending methods for problem solution.
- 5. Writing and maintaining the computer programs necessary for the information requirements.

In this function, various alternatives are explored, and a functional description of the information data base required for information systems implementation is documented. It is essential that the educational administrator be involved in order to determine the requirements of the system on a functional basis. Unless this phase is done thoroughly and completely and meets with the approval of the ultimate users, the remaining steps will contain a large amount of waste, needless iterations and extended elapsed time. It is imperative that the department have at least one experienced systems analyst. The programming phase requires the completed production of the programming specifications. It consists

primarily of coding, testing and using the computer to create and maintain the files and reports according to the specifications.

The Research, Planning and Evaluation administrator's role in this area may be minimal, as the primary requirements must be met by the technical staff of the Statistical Services Unit. The main facet of interest to the administrator is the estimate of predicted expenses and personnel requirement. It is very beneficial, however, to have an administrator that understands the problems and intricacies of systems analysis and programming.

#### J. U.S.O.E. Reporting

For many years the federal government has required summary statistical data from states. The statistical information at the federal level has its obvious origin from the summation of the educational units throughout the nation. In our democratic society, aggregate information on the educational attainments of the population is essential. As the workings of a democracy are dependent on an enlightened citizenry, it is important that educational statistics be available. More recently in our federation of states, the increased mobility of society and the continuance of technological revolution require additional information. federal government has felt that its function is to see that the individual states and territoris which have disparate resources be provided with both carrots and sticks to minimize the differential in educational achievements among the various areas. One of the outgrowths of the educational

information provided the federal government has been the recognition that not all states, counties, districts or territories have the resources or the desire to provide their citizens with equal educational opportunities. unlikely, therefore, that without an education information system, the information required to "sell" Grants-In-Aid or federal assistance would have been available. The NCES Common Core of Data Surveys are instruments the USOE is promoting to collect data from individual states and territories. Statistical Services Unit should be responsible for supplying Guam data to USOE. Various Commissioners of USOE have made it clear to all that the completion of USOE reports are part of the program administration that a state and territory accepts when it requests to participate in various federal programs. If the Department of Education in Guam is going to participate in federal programs, the department must satisfy federal reporting requirements.

#### IV. INFORMATION SYSTEM CONCEPT

Throughout the preceeding sections of this paper, the author has taken the liberty of making some assumptions with respect to the readers. First, it was assumed that readers, before being totally immersed into what a management information system means, would prefer to receive an overall view of objectives and functions of research, planning and evaluation as they relate to information systems. It was also assumed that unless a rationale for planning and evaluating was presented, any information system would be viewed as an end in itself. Management information is not viewed as an end but as a means whereby the quality of decisions educational managers make are improved. In this case, the end is really improvement of education. The means are viewed as total system for decision-making based on valid, reliable and timely information that research, planning, evaluation and feedback provides.

The development of an information system as a resource for decision-making is not new. Man has always been preoccupied with gathering, ordering and operating on the basis of information. Only the techniques of analysis have changed. In this modern technological age it is only natural that modern methods be used where possible to help with the handling of information. Certain information lends itself more readily to manual systems while other information, because of volume or kind, is most efficiently handled through automated procedures. In other instances, cost consideration will dictate whether the system is manual or automated. It would not be cost effective, for example, to manually register 2500 students into mixed periods of classes. It would not be cost

effective to use a computer to score test papers of only 20 students.

Different persons use different kinds of information for their various jobs. A teacher needs information on students along with class information and perhaps information on particular students where there are special considerations. It is important to realize these differences when developing an information system. The information collected must be such that it can be put together and taken apart in numerous ways to satisfy all those who will make use of the information. An information system is viewed as a series of processes beginning with the determination of who needs what information and when. These requirements, as specified for the Department, will then be used to guide the development of the system. Information, if viewed as a series of processes which culminate in better decision-making to improve educational efforts is really made up of several components or phases. Phase I becomes the specification phase; Phase II becomes the collection phase; Phase III becomes the storeage phase; Phase IV becomes the retrieval/reporting phase and Phase V becomes the evaluation of the responsiveness to user needs phase. Later in this paper, steps will be described which will assist DOE personnel in defining their information needs. A discussion of these phases will therefore begin with Phase II.

#### A. Phase II - Information Collection Concepts

Because of the quantity of information being collected across the several subsystems of the planned system, the Department of Education management information system should establish some guiding principles, procedures and priorities

concerning information collection. At a minimum the following items should be considered:

- 1) As it is financially inappropriate to collect and process all the information that all people in the department might desire, an agreement on the information to be collected must be reached.
- 2) Information collected from various sources and used by many people within the system must have common meaning. This involves the identification of elements of information and the consistent definition of data items which are placed into appropriate categories. It is imperative that efforts be directed towards standardization of data definitions.
- 3) Information, once recorded in machine sensible format, should not be re-recorded at other stages in the information stream if possible.
- 4) An item of information becomes useful only when the segment of data is related to another segment of data. Single pieces of data are seldom meaningful.
  - 5) Information need not be recorded in a manner appropriate to or directed by a single use. Information should be defined in advance so that it is acceptable and meaningful to many users.

# B. Phase III - Data Base Storeage and Maintenance

The following principles are pertinent to any information system but are particularly critical in the use of the integrated data base proposed:

- Editing of the information, once collected, should be done at two levels:
  - a. A gross manual edit for completeness, appropriateness and accuracy. This function should be handled by specialists who are familiar with the educational areas involved.

- b. Once data are encoded (keypunch, diskette, etc.) then the computer program itself can perform other validity checking to ensure that the information falls within certain parameters.
- 2) Data base updating does not differ substantially from other data processing applications. some will probably be sequential, it is advisable to batch the input data and provide the manually derived controls for the batch when the update takes place. However, it could be that, given new developments in computer hardware (distributive processing) and software a truely interactive system will be developed and updating of files on certain data bases will be done daily from a CRT or terminal. (Certainly this could apply to student, inventory, financial and registration procedures. In these cases, this concept represents an ideal and the feasibility of using these methods will be determined by the system design phase).
- 3) An integrated data base is particularly dynamic in that many types of information are flowing in the various data files (subsystems)

  Cut-off dates must be established for all major information update functions. It is particularly important to adhere to strict cut-off dates such as monthly, quarterly, year-end, etc. to ensure that reports being derived from information from more than one source are truly comparable.

## C. Phase IV - Information Reporting Principles

The system concept described herein differs significantly in the information reporting function. Because of the extensive interrelationships and linkages between files, it is not necessary to report information in the same form it was collected. It is thus entirely possible for a system to assist in answering questions that were not conceived at the time of design. For this reason, Phase I - Specification Phase - is seen only as a preliminary mechanism for design.

A system designer seldom can rely soley on the user's specified

report requirements at the time of design. For this reason a flexible, general purpose set of retrieval systems should be planned. This generalized reporting concept should minimize system specification changes, reduce programming efforts, and enhance responsiveness to user requirements. Several packages for producing reports (SPSS, RPG, etc.) are now available on the Data Processing Division's computer.

# D. Phase V - Evaluation

It is extremely important that once the various subsystems are implemented a plan for evaluating responsiveness to users be developed. Careful records of types of information requests, costs, peak times, etc. should be maintained in order to provide feedback to the systems analysts. Information of this kind is important from the standpoint it will enable the Department to exercise control over its own reporting requirements as well as new user needs for information, federal and local reporting requirements and maintenance, modification of the existing system.

#### V. INTEGRATION PRINCIPLES

The information system as proposed consists of five subsystems of Pupil, Finance, Personnel, Facilities/Property, Instructional Programs. These subsystems can be used as standalone applications or the subsystems can be integrated. This integration can be accomplished via the linkage concept. Linkages are common data elements residing in two or more files allowing cross referencing. The most common example of linkage items is the county-district-school data items most school districts maintain. On Guam, these linkage items could be structured in a similar manner using region-level-school designations. In addition, subject area codes in the instructional programs file and teaching assignment codes in the personnel files could be used to link personnel to program's files. Other linkages would have to be developed as the design of the system progressed.

#### Implementation

Before the task of implementing the various subsystems is undertaken it is necessary to gain a thorough understanding of the nature of implementation, its objectives, and its relationship to existing operations. Most importantly, the amount (money) and kinds (human) of resources available for implementation must be carefully considered. The Department of Administration, Data Processing Division at this time is unable to provide the necessary technical assistance in this area due to commitments to other system priorities. No doubt a portion of the design and programming will have to be contracted for off-island. Local personnel within the existing DOE organizational structure will have to be identified and/or hired in order to undergo training on the system. Local

personnel will have to be identified to maintain the system once installed. This may involve the reallocation of functions among organizational units and personnel within DOE divisions.

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#### VI. THE CONCEPTUAL DESIGN

GEMIS is designed to integrate five data bases while preserving applications that are considered ancillary. The total system may be viewed as consisting of the following:

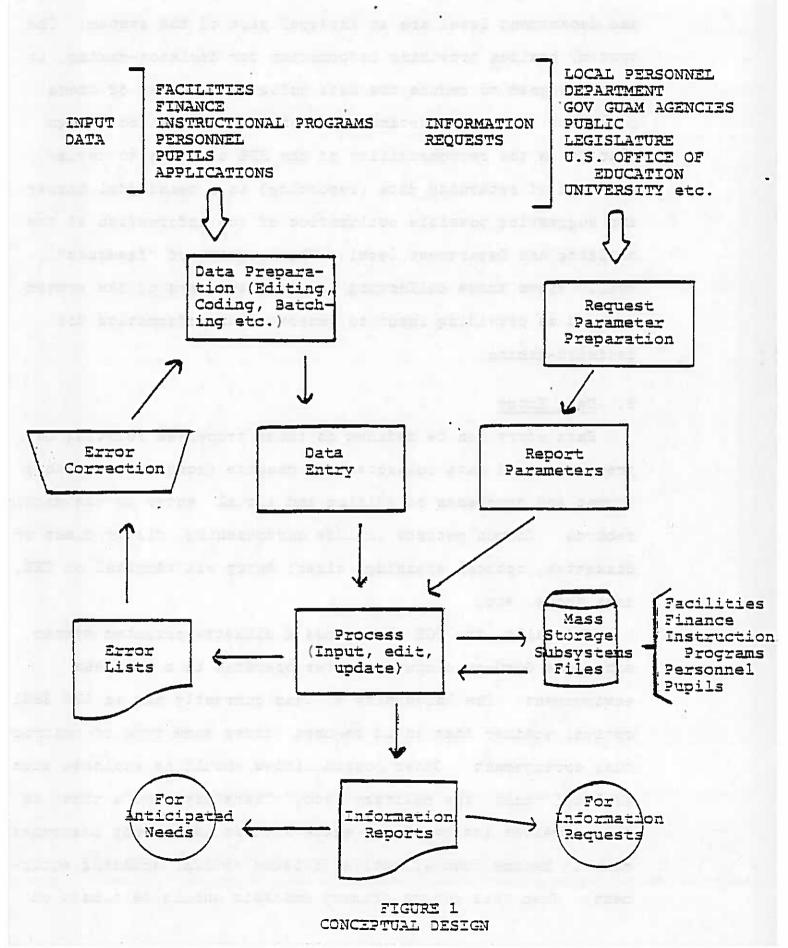
- 1. mechanisms for data collection
- 2. data entry
- 3. file building
- 4. information retrieval
- 5. information reporting

The conceptual design may be viewed in Figure 1. This approach will allow modular implementation based on the Departments priorities and the use of existing software whenever possible. The system as conceptualized should be quite amenable to modifications within the constraints of the concepts under which it has been designed. Primary emphasis has been placed on ensuring that the system can be implemented with DOE resources or minimum additions to these resources.

## A. Data Collection

The tendency to overlook data collection when considering a management information system will cause difficulty at a later date. The types of data that Guam desires are those which exist at the school building and Department (Central Office) level.

This implies that, in most cases, principals and division heads will gather for submission to the Research, Planning and Evaluation Office of the Department. This aspect of the system presents the major obstacle in the path of accurate and timely data collection. The overriding principle that must



be kept in mind at all times is that personnel at the building and department level are at integral part of the system. The system, besides providing information for decision-making, is also designed to reduce the data collection burden of these personnel. It is important and cannot be emphasized enough that it is the responsibility of the RPE division to devise a method of returning data (reporting) in a meaningful manner and suggesting possible utilization of the information at the building and Department level. This concept of "feedback" really views those collecting the data as users of the system as much as providing input to generate the information for decision-making.

#### B. <u>Data Entry</u>

Data entry can be defined as those processes relating to preparation of data collected for machine (computer) readable format and processes of editing and actual entry to the machine records. Common methods include cardpunching, floppy disks or diskettes, optical scanning, direct entry via terminal or CRT, data phone, etc.

Initially, the DOE should use a diskette oriented system since the GovGuam computer center operates in a cardless environment. The University of Guam currently has an IBM 3881 optical scanner that could be used under some type of contractual arrangement. Other possibilities should be explored such as local banks, the military, etc. There may come a time, as Guam develops its own large scale student assessment instrument when it become cost/effective to lease optical scanning equipment. When this occurs primary emphasis should be placed on

using this method for data entry.

Guam currently engages in much data transcription for easy keypunching. In fact, close to 75% of the keypunch personnel's time is spent in the transcription process.

As more and more data is collected, the work load will increase. Therefore, it is recommended that this practice be eliminated when possible. This can be promoted by careful design of the collection forms so that keystroke data entry can be accomplished directly from the input forms or scanned optically.

Terminals have been used quite successfully for data entry in large, high volume systems in recent years. This method would eliminate the work backlog that sometimes occurs with keystroke entry, however, careful study of the use of terminals should be undertaken in order to insure that this i is a cost-effective manner.

#### C. File Building and Maintenance

File building and maintenance consists of initial file creation and maintenance functions of adding, deleting and modifying data items of each of the five subsystems or data bases. These processes will be carried out separately for each of the five subsystems.

It is in these processes that logical editing can be performed to begin to ensure accuracy of the files. A method of exception reporting can be instituted to inform department personnel and building principals of possible errors and/or discrepancies in the data that have been collected. Each subsystem file will be maintained as a separate entity.

#### D. Information Retrieval and Reporting

Information retrieval and reporting are the prime considerations for the system. The files will be designed so that reporting can be accomplished on an individual file basis or through cross-referral among the files on a multi-file basis. This type of linkage capability qualifies the proposed structure as an integrated system.

Cross referencing of files could be provided via the regionlevel-school data items in each file. In addition, some of the files have other linkage capabilities such as assignment codes in the personnel file and subject codes in the instructional programs file.

#### E. Organization of the Data Files

The exact organization of each of the five files and record sizes to be maintained should be decided at design time and would involve coordination with the forms design/control function of RPE as well as the information needs assessment. However, some general principals can be defined at this time.

Enough excess space should be incorporated in all records to permit the addition of new data items in the future. All records in each file should be the same size, if possible, and would allow the development of a header-trailer record concept. This would enable the utilization of standard IBM sort-merge software.

Careful consideration should also be given to the types of reports needed. The Department's Revised Report Processing System (Shafer, 1979) should be consulted and where possible

the local and federal forms required to complete these reports studied so that in the collection phase attention can be directed at designing output formats that will lend themselves to completing these reports. This would also enable all possible sort keys to be maintained in all subsystem subfiles.

## F. Applications

The Guam Department of Education utilizes very little data processing support in its day to day operations. Programs that used to exist at the Department of Administration central computer were destroyed when the current IBM 370 system was installed. The DOE should explore leasing several packaged data base management tools (\$788, \$48, etc.). Other applications will have to be developed or purchased from IBM or other vendors. Applications in the area of school related services (grade reporting, registration, attendance) will have to be coordinated very closely with building personnel.

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#### VII. TECHNICAL SURMARY

The Guam Educational Management Information System (GEMIS) has been designed in an integrated system framework of five commonly accepted subsystems of pupil, personnel, financial, facilities and instructional programs. The relationship of the GEMIS to the functions of research, planning evaluation and statistical services has been outlined and where necessary functions expanded based on accepted principles of planning and evaluation.

The conceptual design presented was arrived at with a great deal of consideration given to a combination of factors. Of paramount importance was the initial needs of management for timely and accurate information for decision-making. Conceptual designs of other state departments, most noteably Florida, Minnesota and Wyoming, were reviewed and formed a large portion of the present paper. A report processing system, first developed by the DOE in 1972-73 was also used to guide the design as well as anticipated needs of potential system users. (See Appendix A).

Guam is fortunate in that it currently enjoys a relatively small teacher and pupil population. This situation offers some significant advantages of a technical nature for a comprehensive management information system. Problems of data gathering, equipment needed, number of personnel and financial resources required are greatly reduced.

# PART II NEEDS, ALTERNATIVES AND PLANS FOR A MANAGEMENT INFORMATION SYSTEM

Data Processing Needs of the Guam DOE

Currently Guam DOE makes little use of computer processing. Guam DOA provides financial accounting and payroll through its FMS system. In addition a few statistical reports are run using the S P S S program through DOA.

Since Guam DOE operates as both a local school district and a state educational agency it has data processing needs both associated with the operation of schools (scheduling, grade reporting, etc.) and associated with its state functions (teacher certification, statistical reports to USOE, etc.).

For both its local school operation and its state agency operations, Guam DOE needs both data processing for operations (e.g. certification of teachers, student scheduling and grade reporting) and information for reporting, planning and decision-making (e.g. teacher characteristics, student characteristics, enrollment projections, etc.), thus an overall information system needs to be developed that will provide for operational processing and, in most cases using the data captured for operations, provide information for reporting, planning and decision-making.

It is common to categorize educational information into five areas:

- 1. Students
- 2. Personnel
- 3. Finances
- 4. Instructional Programs
- 5. Facilities

In order to determine the precise DOE data processing needs, an in-depth analysis should be made. However, preliminary investigation has revealed the needs listed below. Along with each need, an indication of the data storage requirements and the priority for that need are given.

#### Students

Application: Student records

Priority: Medium

Description: Computer storage and processing of

basic records on all Guam public

school students. Information stored

would include data normally found in

permanent records of students including,

but not limited to:

-Personal Identification

Name

Student Number

Sex

Racial/ethnic identification

Date of Birth

-Family and Residence

Parents' Names

Address

Phone

-Health

-Test Results

-Enrollment

Grade

School

Entry, Reentry, Withdrawal Attendance

-Courses Taken

Grades

-Special Program Eligibility & Participation

Special Education

Title I

Bilingual/Bicultural

Federal Impact (P.L. 81-874)

Storage requirements: One record for each of the 28,000 students with each record containing about 400 characters of information for a total of about 11,000,000 characters on current students. In addition, historic records would need to be kept on students who have left the system. On-line disk storage would be most convenient but tape storage would suffice, if disk storage is not available. The records should be updated quite frequently, at least once a week, preferably every day.

Processing requirements: Files would be updated

whenever a new student enters the system, leaves the system, transfers within the system or data on that student changed. At least annually, current information stored on each student would be printed and distributed to the schools. Each semester, course and grade information would be entered. Lists and summaries to be run would include such things as names of students in special categories, statistical analysis of courses, grades, test scores, etc., transcripts on request, residence analysis for redistricting, racial/ethnic counts for federal reporting, etc.

Application: Secondary school scheduling

Priority: Eigh

Description: Computer storage of courses offered, teachers, rooms and student course requests. Then, scheduling of classes and assignment of students to classes, rescheduling as necessary, and production of student schedules and class lists.

Storage requirements: For each secondary student to be scheduled, name, grade and courses. Also, names of courses offered and teacher names and room identification for each student.

In all, a total of about 50 characters of data for each student plus about 4,000 for each school would be required. Thus, if all secondary schools, with a total of 10,000 students, were scheduled, the storage requirements would be about 500,000 characters. Tape storage would be satisfactory unless on-line registration is used that would require disk storage.

Processing requirements: Processing would include entry of course, teacher, classroom data and student course requests, processing to build master schedules and to schedule students into classes, then adjustments and reruns as necessary. Once scheduling is done, student schedules and class lists would be printed. At the beginning of the school year, and the beginning of the second semester, updating would be done to take care of students who have moved, new students, and changes. This process would be done twice a year with registration and scheduling in the spring and major changes at the beginning of the school year and at the beginning of second semester.

Application: Grade reporting

Priority: Medium - High

Description: Course grades provided by teachers would be merged with student records and report cards printed.

Storage requirements: Data for each student would include name, grade, courses, grades and attendance.

This is a total of about 1,400,000 characters. However, this is a duplication of the data described above in the student record system. If the student record system were implemented no additional storage would be needed for grade reporting data.

Processing requirements: Once each quarter, class lists
for teachers would be printed. Teachers
would work grades on those lists and the
grades input into the computer, preferably
through a document scanner. The computer
would merge courses and grades by student,
then would print report cards (for 28,000
students) and update the student records.

Application: Special education student records

Priority: Medium

<u>Description</u>: Computer storage and processing of records of special education students.

Storage requirements: If a computer record were kept on each Guam student as described above, storage requirements would be reduced

because part of needed data would already
be stored in the general student files.
In addition, about 2,800 characters per
student would be needed (for a system
that includes instructional management
such as the Pupil Based Information System
PBIS). Thus for 3,000(?) special education
students storage of 8,400,000 characters
would be required. Tape storage could be
used but disk storage would be preferred.

Processing requirements: First to build files on each of 3,000(?) special education students.

Then to update as students enter and with-draw, progress through programs, and as new data is generated. Updating needs to be done at least weekly. Status reports on all students need to be produced every three weeks. In addition, various statistical reports (number of students served by handicap, teacher, grade, school, etc.) need to be run as required.

Application: Attendance accounting

Priority: Medium-digh

Description: Daily recording of absence, printing of absence lists and recording attendance in student records.

Storage requirements: In addition to basic student records, 180 characters (1 for each school day/for each student), for a total of 5,000,000 characters.

Processing requirements: Daily recording of absences, listing of absent student.

<u>Application</u>: Special records of students in other federal programs

Priority: Medium

Description: Computer storage and processing of records of students in other federally funded programs.

Storage requirements: In addition to the data kept on all students, a few additional characters for each student in each federal program.

Processing requirements: Building initial files.

Periodic update. Producing various lists
and statistical reports.

Application: Title I student records

Priority: Medium

Description: Computer storage and processing of records on Title I students.

Storage requirements: In addition to the data kept on all students, about 100 characters on each of about 5,000(?) students would be kept for a total of 500,000 characters.

Processing requirements: Building initial files. Periodic

update. Producing various lists and statistical reports.

Application: Test scoring

Priority: Low

Description: Scoring of standardized tests and listing of results. Also possible scoring of teacher-made tests and, perhaps, scoring of GUAM competency based or functional adult competency tests.

Storage requirements: If computer student records are kept, results would be stored in those files. Additional storage would involve keys and norms which would require minimal space.

Processing requirements: A scanner would be required for input. About 23,000 standardized tests would be scored a year, results translated to norms and results printed. Also, either gummed labels produced or results entered into computer student records.

<u>Application</u>: Statistical reports

Priority: Medium

Description: Although the applications described above result directly in some statistical reports, once the student files are built they will be used to generate a number of additional reports of information results.

and for reporting to the USOE. From the student files, for example, reports on enrollment, attendance, P.L. 874 eligibility, Title I participation etc. will be generated. Also the data will be used for enrollment projections, assistance in redistricting, etc.

Storage requirements: No additional required.

Processing requirements: Reports generated on an as needed basis, mostly through SPSS or RPG.

#### Personnel

Application: Personnel records

Priority: High

Description: Storage and processing of data on employed personnel, including basic employee data (name, sex, date of birth, etc.), qualifications, certification, employment history assignment, salary, etc. Includes production of Guam teacher certificates.

Storage requirements: Current data on all 3,000(?) DOE
employees, about 400 characters on each
employee, for a total of 1,200,000 characters. Also historic records on past
employees. Tape storage satisfactory.

Processing requirements: Building of initial files.

Updating regularly, at least once a week,

as employees enter, leave or change. Out-

lists\_of teachers with particular qualifications, and miscellaneous reports. NOTE: DOA plans to do part of this through its personnel system.

## Finances

Financial accounting and payroll is currently provided through the DOA FMS system. No additional needs are identified at this time. However, DOE should be certain that data is coded in such a way that the financial and payroll files can be related to the other four MIS files.

## Instructional Programs

Application: Record of subjects and courses

Priority: Medium - High

Description: A file of subjects and courses including names, identification codes and descriptions.

Storage requirements: About 10,000 characters total.

Processing requirements: Build original file and update annually as additions, deletions or changes are made. The primary use of this file is a table lookup for courses coded in student records, for scheduling and grade reporting, and printing lists of course offerings and descriptions.

Facilities (including buildings, equipment, supplies materials, texts, media)

Application: Building inventory

Priority: Medium

Description: A file of information on each educational

building.

Storage requirements: Data on each building to include such items as name, cost, location, date built, additions, and rooms for each room, the area, purpose, student capacity, coded identification, etc. Total of about 40,000 characters.

Processing requirements: Initial entry, then updating as changes occur, and various lists and analyses.

Application: Building maintenance

Priority: Medium

Description: A record of the maintenance of each
building including cleaning, painting,
repair, improvements, modifications and
costs.

Storage requirements: Records by building and rooms.

Total of about 100,000 characters.

Processing requirements: Initial building of files with updating at least once a month. Output to include projections of maintenance needs and analysis of maintenance costs.

Application: Equipment inventory and maintenance

Priority: Medium

Description: File of data on equipment and equipment

maintenance used to keep track of equip-

ment and equipment maintenance, and to

project both replacement and maintenance

needs and costs.

Storage requirements: About 2,000,000 characters.

Processing requirements: Establish initial file. Update

once a month. Periodic lists of equipment

and analysis of costs, maintenance, pro-

jections of replacement needs, etc.

Application: Media control

Priority: Medium

Description: Scheduling and keeping track of films and

materials distributed from the media center.

Also producing catalogs.

Storage requirements: About 180 characters for each of

12,000 films and materials for a total of

about 2,000,000 characters. An on-line

system with disk storage would be prefera-

ble. Tape storage and batch processing

could be used but would not completely

serve needs.

Processing requirements: Building initial files. Changes

on a regular basis. Scheduling on a daily

basis. Daily printing of delivery lists.

Annual printing of catalogs. Statistical analysis as needed

Application: Supply ordering

Priority: High

Storage requirements: About 2,000(?) supply items, 100 characters per item, for a total of 200,000 characters.

Processing requirements: Building initial files. Annual updating. Annual list (catalog) of supplies, Entry of school orders. Combining of school orders. Preparation of order and delivery lists.

Application: Power Monitoring

Prority: Medium

Description: Matching meter numbers, which appear on the bills, with schools and computing use per school. Also producing statistics on usage, increases and decreases in usage, etc.

Storage requirements: 36 schools, about 60 meters, curren and past use data, for a total of about 5,00 characters.

Processing requirements: Matching meters with schools, calculating use per school, producing current usage and studies.

#### Guam DOE Data Processing - MIS Alternatives

Guam DOE needs to provide for both processing of school data and DOE data since it acts as both a local and state educational agency. It needs to provide processing for applications such as student scheduling and teacher certification while at the same time providing reports and analysis for management decision making. One approach to providing for these needs would be on an application by application basis. Using this approach, separate applications would be established for each application. There are some advantages to this approach. It avoids the need for overall planning and makes it possible to implement individual applications quickly. However, this approach would result in unnecessary duplication of data entry and storage and would not provide the linkages between data files needed to provide the most useful management reports.

Another approach would be to separate the school and DOE functions and to develop separate processing systems for the schools and the DOE. That is the approach used in most states, and is perhaps the best approach for most states since the schools (except in Hawaii) are in separate districts. The volume of data is very large in many states, and many people are sensitive about storing data on individual students in a state agency. However, Guam is relatively small so it is entirely feasible to store and process all data centrally. Also, the Guam DOE has the responsibility for both local school operations and state operations. In addition, most of the data needed by Guam DOE, acting as a state agency, is generated by the schools, thus the most appropriate approach for Guam is to build a combined system to provide for both local school and state operations.

The most effective and efficient data processing system for Guam would be a data base oriented system which combines both the local school and state functions. That is the system recommended.

There are three approaches that Guam DOE can take in securing computer hardware. First, DOE could secure its own computing equipment and operate independently. The primary advantage would be that the DOE could secure equipment specifically for its own needs and could completely control the processing. However, equipment would be expensive (estimated to be about \$200,000 to fulfill all DOE needs) and it may not be feasible to operate independently of DOA, both for legal reasons and since DOA already provides financial accounting and payroll for DOE through its FMS system and plans to provide personnel accounting in the near future.

A second approach would be to use the DOE computer for all data storage and processing. DOA has a newly installed IBM 370/138 with both excess data storage space and processing capability as well as useful general software such as SPSS and data base management. DOA, however, is not in a position to provide data entry and is very limited in the technical assistance that can be provided, thus DOE can use data storage and processing provided by DOA but would have to provide its own technical personnel, application software, and data input. Using the DOA computer would have the additional advantage of making it possible to correlate other data with the financial, payroll and personnel data already stored by DOA. A disadvantage would be that DOA serves a number of clients and DOE may not get the priority it needs for processing on DOA equipment.

A third approach would be through distributive processing. In this approach DOE would obtain a small computer which would provide for independent processing and also serve as input to and output from the DOE 370/138. This would require a computer such as the IBM system 3 or 34, costing about \$70,000, at DOE. That system would be used for independent processing when appropriate and would be used to provide input to and output from the 370/138 when processing on that computer is needed. This would have the advantage of providing processing controlled by DOE on its own computer while at the same time providing access to the more powerful DOA computer.

The first approach (completely independent operation) is eliminated because of cost and Guam Laws involved in establishing an independent operation when there is space and time available on the DOA computer.

It is difficult to choose between the second (complete dependance on DOA) and third (distributive processing) alternatives. In either cases, the system will require terminals at various locations in DOE, and perhaps in the schools. Because of the advantage of being able to process independently of DOA, the third alternative is recommended. Specifically, it is recommended that the IBM System 3 currently at Guam Community College and soon to become available be acquired on a lease basis and used on an interim basis. An IBM 34 should be ordered immediately and should replace the System 3 when delivered. It is estimated that delivery time for the 34 is 18 months. The 34 is about the same price as the System 3 but provides more capacity and flexibility, and can be configured to more precisely meet the needs of DOE.

It is recommended that IBM equipment be used for three reasons. First, IBM equipment is serviced in Guam. Second, DOA has IBM equipment. Third, both Guam Community College and the University of Guam train their students on IBM equipment and those institutions will be the main suppliers of technicians for DOE.

A decision needs to be made as to whether the DOE information system should be oriented toward batch or on-line processing. The essence of this decision is whether to use on-line (disk) or off-line (tape) storage of data. There are many advantages of on-line storage in terms of convenience for updating records and immediate access to data. The total DOE information system should require no more than 50,000,000 bytes of storage. That amount of disk storage is not very expensive. Thus, an on-line system with direct access to data stored on disks is recommended.

Software for various applications will need to be developed or acquired. DOA already has available compilers, data base management and SPSS. Those should be used. In addition, appli-The cost of development of cation programs will be needed. software is very high. There are a number of software packages available from computer vendors, software vendors, school districts state education agencies and other agencies. It is recommended that whenever possible, software should be obtained from other sources rather than developed locally. It is much less expensive to obtain software from other sources, and there is a scarcity of technicians who could develop software in Guam. Also, the development of software takes considerable time. Applications can be implemented much more rapidly if developed software is obtained from outside sources. Some software is available for lease or purchase from vendors while some is available at little or no cost

from other educational agencies. Cost of the software, however, should not be the only consideration. The quality of the software including documentation should also be considered as well as the cost of implementing software obtained elsewhere on Guam DOE's equipment.

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Plan for Development and Implementation of Guam Department of Education MIS System

Following are recommended steps to be taken in the development and implementation of a MIS system for Guam DOE. Taken as a whole, the steps represent a plan for MIS development and implementation. This should be viewed as a preliminary plan, based on a general study of Guam MIS needs as well as a study of staff and facilities available. It should be noted that early steps in the plan involve an in-depth study of Guam MIS needs. As a result of that study, this plan should be modified appropriately. Even though this plan includes some details involved in development and implementation, the general principle and assumption on which this plan is based are, at this point, more important than the specific details. This plan is, in general, based on the following principles and assumptions:

- 1. The MIS system will be data based oriented with five primary files - students, personnel, instructional programs, finance and facilities.
- 2. The data files will be used for both local school and DOE applications and reporting needs.
- 3. Distributive processing will be used, with a small computer at DOE which will be used independently and also serve as input to and output from the large DOA computer.

- 4. Technical staffing (system analysts, programmers, etc.) will be the responsibility of DOE.
  - 5. Developing or securing application software will be the responsibility of DOE.
  - 6. Most application software will be obtained from outside sources rather than developed by DOE.

It is recommended that the following steps be taken in the development and implementation of a Guam DOE MIS system.

AREA

#### · STEPS

TARGET DATES

General

Assign responsibility for development of MIS system.

Completed

Jeff Shafer, Director of Research, Planning and Evaluation has been assigned this responsibility.

- 2. Appoint MIS steering committee. This has been accomplished. The committee met for the first time-and the second time 12/11/79.
- Development of Guam MIS concepts, preliminary study of needs, and development of preliminary plan. This has been accomplished and is documented in the documents Guam Education Management Information System (GEMIS) Concept Paper, Data Processing Needs of Guam DOE, Guam DOE Data Processing-MIS Alternatives and this document Plan for Development and Implementation of Guam DOE MIS System.

Completed

Area		Steps	Target Dates
*	4.	Study revision and approval of MIS plans by the steering.	12/17/80- 1/10/80
	5.	Study revision and approval of MIS plans by the Guam Director of Education.	1/11/80- 1/31/80
	6.	Presentation of needs and plans to DOA.	2/5/80
	7.	Detailed needs study, design of data bases, detailed planning. An intense study of study of needs, specific design of data bases including elements, codes, definitions and field sizes, and specific plans for development and implementation.	2/1/80- 3/31/80
21	8	Approval of detailed needs study and design by MIS steering committee.	4/1/80- 4/15/80
	9,	Approval of detailed needs study and design by Director of Guam DOE.	4/16/80- 4/30/80
	10.	Continued operation of MIS steering committee. The steering committee will continue to meet on a regular basis.	Continual
	11-14.	Annual evaluation and revision of plans. Annually, the MIS system will be evaluated and plans will be revised as appropriate.	11/1/80-2/1/81 11/1/81-2/1/82 11/1/82-2/1/83 11/1/83/2/1/84
Student Subsyst	<del>e</del> m		
Data B	<u>ase</u> 13.	Design of student data base. This is part of step 7 above.	2/1/80- 3/31/80
Schedul	<u>ins</u> 16.	Secure software for school scheduling.	

Area		Steps	Target Dates
	17.	Develop forms and procedures for school scheduling.	3/1/80- 3/31/80
	18.	Pilot test of school scheduling. One high school and one junior high.	4/1/80- 2/1/81
	19.	Evaluation and revision of school scheduling.	5/1/80- 2/15/81
	20.	Complete implementation of school scheduling. Scheduling of all Guam secondary schools.	4/1/81 2/1/82
	21.	Continued operation of school scheduling.	4/1/81- on
Grade Reporting	22.	Develop forms and procedures for grade reporting.	5/1/80- 8/1/80
	23.	Secure software for grade reporting.	5/1/80- 8/1/80
	24.	Pilot test of grade reporting. Test in an elementary school, a junior high and a high school. Use the same junior high and high school that tested scheduling	9/1/80- 6/15/80
	25.	Evaluation and revision of grade reporting.	10/1/80- 8/1/81
	26.	Complete implementation of grade reporting. Run grade reporting for all schools.	9/1/81- 6/15/82
4000	27.	Continued operation of grade reporting.	9/1/82- on
Student Records	28.	Develop forms and procedures for complete student record system.	1/1/81- 8/1/81
	29.	Secure software for complete student record system.	2/1/81- 8/1/81
	30.	Pilot test of student record system. Test in one elementary, one junior high and one high school. Use the same schools that tested grade reporting.	9/1/81- 6/15/82

Area	_	Steps	Target Dates
	31.	Evaluation and revision of student record system.	9/1/81- 8/1/82
	32.	Complete implementation of student record system. All Guam students part of the student record system.	9/1/82- 6/15/83
	33.	Continued operation of the student record system.	9/1/83 on
Attendance	34.	Design forms and procedures for student attendance system.	2/1/82- 8/1/82
	35.	Secure software for student attendance system.	3/1/82- 8/1/82
	36.	Pilot test of student attendance system. Test in one elementary, one junior high and one high school.	9/1/82- 6/15/83
	37.	Evaluation and revision of student attendance system.	10/1/82- 8/1/83
	38.	Complete implementation of student attendance system. All Guam students included in the attendance system.	9/1/83- 6/15/84
Special		Market Street	
Education	39.	Design forms and procedures for special education system.	2/1/81- 8/1/81
	40.	Secure software for special education system.	3/1/81- 8/1/81
	41.	Pilot test of special education system. Test in one school.	9/1/81- 5/15/82
a descrip	42.	Evaluation and revision of special education system.	10/1/31- 3/1/32
	43.	Complete implementation of special education system.	9/1/82- 6/15/83
	ব্ব .	Complete implementation of special education system. All Guam special education students included in the system.	9/1/83- 6/15/84

Area		Steps	Target Dates
Title I	45.	Design forms and procedures for special education system.	2/1/81- 8/1/81
	46.	Secure software for special education system.	3/1/31- 8/1/31
	47.	Pilot test of special education system. Test in one school.	9/1/81- 6/15/82
	48.	Evaluation and revision of special education system.	10/1/81- 8/1/82
	49.	Complete implementation of special education system.	9/1/82- 6/15/83
	50.	Complete implementation of special education system. All Guam special education students included in the system.	9/1/83- 6/15/84
Other Federal Programs	51.	Design forms and procedures for special education system.	2/1/81- 8/1/81
P10g1 ams	52.	Secure software for special education system.	3/1/81- 8/1/81
	53.	Pilot test of special education system. Test in one school.	9/1/81- 6/15/83
	54.	Evaluation and revision of special education system.	10/1/81- 8/1/82
	55.	Complete implementation of special education system.	9/1/82+ 6/15/83
	56.	Complete implementation of special education system. All Guam special education students included in the system.	9/1/83- 6/15/84
Testing	57.	Design forms and procedures for testing.	2/1/82 8/1/82
	58.	Secure software for testing.	3/1/82- 8/1/82
	59.	Pilot test of testing system.	9/1/82- 6/15/83
	60.	Evaluation and revision of testing system.	10/1/82 3/1/83

Area		Steps	Target Dates
	61.	Complete implementation of testing system.	9/1/83- 6/15/34
Personnel Subsystem	62.	Personnel data base design. This is part of step 7 above.	2/1/80- 3/31/80
	63.	DOA implementation of state personnel system.	6/1/80- 6/1/81
	64.	Designs of forms and procedures for parts of personnel system not included in DOA system.	1/1/31- 8/1/81
	65.	Secure software for personnel system.	2/1/81- 8/1/81
	66.	Pilot test of personnel system.	9/1/81- 7/1/82
	67.	Evaluation implementation of personnel system.	10/1/81- 9/1/82
	63.	Complete operation of personnel system.	9/1/82 <b>-</b> 6/30/83
	69.	Continued operation of personne system.	7/1/83- on
Instructio- nal Programs Subsystem	70.	Data base design. Part of steps 7 above.	2/1/80- 3/31/80
<u>Junaya cem</u>	71.	Design of forms and procedures for instructional programs subsytem.	4/1/80- 8/1/80
	72,	Secure software for instructio- nal programs system.	5/1/30- 8/1/80
	73.	Pilot test of instructional programs system.	9/1/80-
	74.	Evaluation and revision of instructional programs system.	10/1/80- 8/1/81
	75.	Complete implementation of instructional programs system.	9/1/81- 6/15/82
	76.	Continued operation of instructional program system.	9/1/82- 6/15/83
Finance	77.	Implementation of DOA FMS	thru

Area		Steps	Target Dates
	78.	Identification of additional financial accounting needs.	4/1/80-
	79.	Design of forms and procedures for additional financial accounting.	1/1/81- 8/1/81
44	80.	Secure software for additional financial accounting.	2/1/81- 8/1/81
	81.	Pilot test of financial system.	10/1/81- 9/30/82
	82.	Evaluation and revision of financial system.	11/1/81- 9/30/82
	83.	Complete implementation of financial system.	10/1/82- 9/30/83
	84.	Continued operation of DOE financial system.	11/1/83- on
	85.	Continued operation of DOA financial system.	10/1/80- on
Facilities Subsystem	86.	Design of data base for facilities subsystem.	2/1/80- 3/31/80
Supplies	87.	Design of forms and procedures for supply ordering system.	12/15/79- 2/15/80
	88.	Secure software for supply ordering system.	1/1/80- 2/28/80
	89.	Pilot test of supplies system.	4/1/80- 8/1/80
	90.	Evaluation and revision of supplies system.	5/1/80- 8/31/80
	91.	Complete implementation of supplies system.	9/1/80- 8/31/81
	92.	Continued operation of supplies ordering system.	9/1/81- on
Buildings	93.	Design of forms and procedures for building record system.	5/1/81- 3/1/81
	93a.	Secure software for building record system.	6/1/81- 8/1/81

Area		Steps	Target Dates
	94.	Pilot test of building record system.	9/1/81- 8/31/82
	95.	Evaluation and revision of building record system.	10/1/81- 8/31/82
	96.	Complete implementation of building record system.	9/1/82- 8/31/83
	97.	Continued operation of building record system.	9/1/83 on
Building Maintenance	98.	Design of forms and procedures for building maintenance system.	5/1/82 <b>-</b> 8/31/82
	99.	Secure software for building maintenance system.	6/1/82- 9/30/82
	100.	Pilot test of building maintenance system.	10/1/82- 9/30/83
*	101.	Evaluation and revision of building maintenance system.	11/1/82- 9/30/83
2	·101a.	Complete implementation of building maintenance system.	10/1/83- 9/30/84
Equipment Inventory and Maintenance	102.	Design forms and procedures for equipment inventory and maintenance.	2/1/83-· 8/31/83
	103.	Secure software for equipment inventory and maintenance system.	3/1/83- 9/30/83
	104.	Pilot test of equipment inventory and maintenance system.	10/1/83- 9/30/84
Media_	105.	Design forms and prodedures for media system. To include inventory printing catalogs, and distribution control.	3/1/81- 7/31/81
	106.	Secure software for media system.	4/1/81- 8/31/31
	107.	Pilot test of media system.	9/1/81- 6/15/32

Area		Steps	Target Dates
	108.	Evaluate and revise media system.	10/1/81- 7/31/82
	109.	Complete implementation of media distribution system.	9/1/82- 8/30/83
Computer Equipment	110.	Use DOA computer.	Continuous
<u> = darbmenc</u>	111.	Install System 3	by 3/1/80
	112.	Use System 3	3/1/80- 10/1/81
	113.	Order IBM System 34	1/30/80
	114.	Install IBM System 34	10/1/81
	115.	Installation of additional computing equipment(terminals, scanner, etc.)	as needed
Staffing	<u>Curre</u> <u>Plann</u>	nt: Director of Research, ing and Evaluation	
	Add:	Systems Analyst	2/1/80
		Programmer	4/1/80
		Operator	3/1/80
		Programmer	9/1/80
		Computer Director	3/1/81
		User Consultant	9/1/81
Training	and pr admini	ng will be provided for both clofessional staff, including strators, at each steps involving testing and implementation.	

Cos

October 1, 1980 - September 30,	1981
DOE computing equipment DOA computing time	\$ 30,000
Software purchase and lease Personnel	18,000 70,000
Consultants	15,000
Forms, supplies, etc.	10,000
TOTAL	\$ 143,000
October 1, 1981 - September 30,	1982
DOE computing equipment	\$ 30,000
DOA computing time Software purchase and lease	25,000
Personnel	102,000
Consultants Forms, supplies, etc.	18,000 12,000
TOTAL	S 187,000
October 1 1982 - September 30	1983
October 1. 1982 - September 30,	*
DOE computing equipment	1983 \$ 30,000
DOE computing equipment DOA computing time Software purchase and lease	\$ 30,000 20,000
DOE computing equipment DOA computing time Software purchase and lease Personnel	\$ 30,000 20,000 102,000
DOE computing equipment DOA computing time Software purchase and lease	\$ 30,000 20,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants	\$ 30,000 20,000 102,000 15,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.	\$ 30,000 20,000 102,000 15,000 15,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.	\$ 30,000 20,000 102,000 15,000 15,000 \$ 182,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.  TOTAL  October 1, 1983 - September 30, DOE computing equipment	\$ 30,000 20,000 102,000 15,000 15,000 \$ 182,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.  TOTAL  October 1, 1983 - September 30,	\$ 30,000 20,000 102,000 15,000 5 182,000 1984 \$ 30,000 18,000
DOE computing equipment EOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.  TOTAL  October 1, 1983 - September 30,  DOE computing equipment DOA computing time Software purchase and lease Personnel	\$ 30,000 20,000 102,000 15,000 5 182,000 \$ 182,000 1984 \$ 30,000 102,000
DOE computing equipment EOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.  TOTAL  October 1, 1983 - September 30,  DOE computing equipment DOA computing time Software purchase and lease	\$ 30,000 20,000 102,000 15,000 5 182,000 1984 \$ 30,000 18,000
DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants Forms, supplies, etc.  TOTAL  October 1, 1983 - September 30,  DOE computing equipment DOA computing time Software purchase and lease Personnel Consultants	\$ 30,000 20,000 102,000 15,000 15,000 \$ 182,000 1984 \$ 30,000 102,000 12,000

Appendix B

#### TERRITORY OF GUAM AGANA, GUAM

Resolution No. 30-2

introduced by:

# GUAM EDUCATIONAL MANAGEMENT INFORMATION SYSTEM

WHEREAS, educational decision-makers have many more outside influence to cope with and a greatly increased tempo of operation that at any time in the past, and

WHEREAS, Federal regulations, guidelines and laws have greatly increased the necessity of developing, maintaining and generating reports from data bases, and

WHEREAS, the implementation of an Information System could:

- Minimize the administrative workload in order to allow these professional aspects of aducational programs,
- Minimize the administrative workload of Department of Education personnel in the preparation, compilation and computation of data for administrative decisions and control.
- 3. Provide a data base that may be used for educational research to determine currently unknown relationships between educational achievement and other factors, and to provide solid statistical validity to assumed cause and effect relationships.
- Provide data upon which more accurate and detailed projections
  of educational trends can be πade,
- 5. Provide data upon which the various planning and avaluation functions of the Department may be based, and
- 5. Provide the necessary dataTused in the processing of local, federal and internal reporting requirements. The system should also be responsive to a broad category of administrative needs and be based ucon the documented needs of these individual administrative and policy makers.

MHEREAS, an Information System can assist in clanning, evaluating and reporting the overall operation of the educational system on Guam.

MOW, THEREFORE, 3E IT RESOLVED that the Board of Education supports the concept of the Guam Educational Management Information System which provides for the research, planning and evaluation function as well as the automation of the Department's information collection, storage and retrieval needs. Se it further resolved that the Director of Education create the Office of Planning, Evaluation and Research and proceed to utilize funds already appropriated for Fiscal Year 1980 and thereafter request additional funding for the operation of the Office of Planning, Evaluation and Research which will provide for the computarization of a management information system for the management of the Department of Education.

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DETAD	this	7 th	_ day of	March	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

GLORIA MELSON Chairman, Soard of Esucation

ATTEST:

KATHERINE 3. AGUCLY, Ph.D. Director of Education, Acting

Appendix C

# ANALYSIS OF THE GUAM DEPARTMENT OF EDUCATION DATA PROCESSING NEEDS AND DESIGN OF MANAGEMENT INFORMATION

DATA FILES, CODES AND DEFINITIONS

Prepared for Guam Department of Education

By:

Ralph Van Dusseldorp, Ph.D. WEO Systems, Inc. 4816 S.W. Shattuk Road Portland, OR 97221 This document was prepared for the Guam Department of Education by Ralph Van Dusseldorp, WEO Systems, in fulfillment of Contract Number C-O-1900-022.

# TABLE OF CONTENTS

Section	Page				
Introduction					
Limitations					
Comments on Guam DOE Data Processing Needs					
Overview of the Guam Management Information System					
Data Base Items					
Student Data	20				
Personnel Data	31				
Instructional Program Data	38				
Property Data	47				
Codes	63				
Data Files					
Students	99				
Personnel	103				
Instructional Programs	104				
Property	105				
Data Flows					
Student					
Personnel	110				
Instructional Program	111				
Property	112				
Input Documents					
Future Considerations					
Appendix					
A. Interview Notes Taken By Ralph Van Dusseldorp	123				
B. Interview Notes Taken By Jeff Shafer	154				
C. Part II, Needs, Alternatives and Plans For A Management Information System	169				

#### INTRODUCTION

This document was prepared as the product of a study conducted for the Guam Department of Education (DOE) by Ralph Van Dusseldorp, WEO Systems. A preliminary needs assessment had been made for the Guam DOE by Ralph Van Dusseldorp in December, 1979. The current study was conducted from May through July, 1980.

The approach taken in this study was toward the development of an integrated data base. It was felt that the key to an effective and efficient management information system is a well defined data base. Thus, major effort went to selecting, defining and coding data base elements.

Financial accounting for the DOE is already pretty well taken care of by the Department of Administration (DOA) FMS System which runs on the DOA IBM 370/138 computer. Thus, little of this document is devoted to financial data. Complete documentation of the FMS System is available from DOA.

The Guam DOE has ordered an IBM System 34 computer which is scheduled for delivery in the fall of 1980. The DOE has also ordered the IBM student accounting software which will store student records and run scheduling, grade reporting and attendance. Complete documentation of that software, including input and output forms, is included in IBM manuals and is not duplicated in this document.

This document consists of the following sections:

Limitations. The limitations of this document are described.

- Comments on Guam DOE Data Processing Needs. This section includes a brief description of the procedures for this study and describes the various data processing needs of DOE.
- Overview of the Guam Management Information System. This section presents an overview of the planned management information system.

- <u>Data Base Items</u>. This is the most important section of the entire document. Presented are items to be included in the data base and, when appropriate, definitions and codes for those items.
- <u>Codes</u>. This section presents the coding systems to be used for the data base items.
- Data Files. Included here are file formats for the data base.
- <u>Data Flows</u>. System flow charts for computer applications are presented.
- Input Documents. Input documents for the data base system are briefly described and illustrated.
- Future Considerations. Considerations for continued development of the Guam DOE MIS System are discussed.
- Appendix. Included in the appendix are interview notes taken by Jeff Shafer of the Guam DOE and Ralph Van Dusseldorp of WEO Systems as well as a revised copy of the document Part II, Needs, Alternatives and Plans for a Management Information System.

#### LIMITATIONS

This document is subject to the following limitations:

- 1. Little reference is made in this document to financial accounting data. Financial accounting is provided by the Guam Department of Administration through the FMS System. FMS appears to be an excellent system with the potential for fulfilling the financial information needs of the DOE. Complete documentation of that system, including data elements, definitions and file structures, is available from the Department of Administration.
- 2. DOE plans to use an IBM System 34 computer to operate its management information system. The file structures presented in this document are based on sound, data base principles but do not completely take into account unique features of the System 34.
- 3. DOE plans to use the IBM software for student accounting, including basic student records, scheduling, grade reporting and attendance accounting. Complete information on that software was not available to the author of this document at the time this study was made. Thus, some modifications of the data base presented in this document may have to be made in order to make it compatible with the IBM student accounting software. Complete documentation of that software is available from IBM.
- 4. DOE may use a document scanner for computer input for some applications. If so, revisions will need to be made in a number of input documents so they can be scanned.
- 5. The data base presented in this document includes the most essential data elements and files. Temporary work files are not included nor are data elements or files that will be used for specific unique applications but will not have general use.

- 6. This document is based on information gathered through interviews as well as examination of documents. Preliminary drafts of some sections were reviewed by selected DOE personnel and the data processing advisory committee. It is assumed that the interviewees and reviewers reflected the needs and wishes of DOE.
- The definitions and coding systems presented in 7. this document reflect those currently used by the various DOE departments and schools. In some cases definitions and coding systems varied among the departments and schools. When that was the case, an attempt was made to provide for uniformity. However, some of the definitions and coding systems still need to be studied and revised by DOE personnel. An example of needed revision is the list of courses in the instructional program accounting system. list is a combination of the courses offered by individual schools. It appears that the same course is being offered in different schools under different names. That list needs revision to eliminate duplication and inconsistency.

#### COMMENTS ON GUAM DOE DATA PROCESSING NEEDS

A preliminary investigation of Guam DOE data processing needs was conducted during December, 1979. The results of that investigation were reported in the document Part II Needs, Alternatives and Plans For a Management Information System. During May, 1980 a more intensive study of Guam DOE data processing needs was conducted. That study involved interviews with personnel from the following areas:

Director of Education Deputy Superintendent Research, Planning & Evaluation Elementary Education Secondary Education Special Education Personnel Federal Programs Financial Affairs Curriculum & Instruction Pupil Personnel Buildings and Grounds Learning Resources Center George Washington High School John F. Kennedy High School Dededo Junior High A. Johnston Junior High F.B. Leon Guerrero Elementary Yigo Elementary DOA FMS System

In addition a number of forms, reports and other documents were examined.

The needs study conducted in May revealed needs for specific applications and data base items. However, the general needs revealed through the intensive study in May varied little from the needs revealed through the preliminary study in December. There are two exceptions, however.

First, it appears that the attendance accounting application is of a higher priority than was indicated in the original study. In the original study, attendance accounting was given a low priority. As a result of the latest study, it appears that attendance accounting should be a medium priority. Second, a need for computer use to monitor power usage in schools was revealed through the second study. That application should have medium priority.

Notes from the May interviews are included as an appendix to this document. Included are notes taken by both Ralph Van Dusseldorp, Director of the Needs Study, and Jeff Shafer, Data Systems Consultant for the Guam DOE. General comments based on the interviews and study of various documents follow.

#### Financial Accounting

It appears that FMS is a good system and can work well. The system does not appear to be well understood nor well used. Users do not appear to know what it will do, what reports it will produce, and how best to use it.

Little orientation to the system was provided for users outside the Business Office.

For some reason administrators are not receiving monthly financial reports on a regular basis. Most principals reported receiving just 2 this year. Balancing between school records and FMS records is a problem. In some cases that may be because departments are not informed of price changes. It may also be because of delay in entering Purchase Orders and changes.

It is difficult to reconcile school records with Business Office (FMS) records since the schools deal with requisitions and requisition numbers while the Business Office (FMS) deals with Purchase Orders and Purchase Order numbers. Each department (elementary, secondary, maintenance, etc.) has an accountant in the Business Office. Effectiveness of the accounting operation for the departments seems to depend largely on the ability and cooperation of the assigned accountant.

The FMS System uses a somewhat different coding system to identify schools than does DOE. The FMS system also uses different account breakdowns than are used for the National Center for Education Statistics Common Core of Data reports. This makes it quite difficult to produce figures for those reports. The fact that FMS can work and can be effective, however, is evidenced by the fact that it works well for the Maintenance Division.

## Needs

- 1. to provide inservice training on the FMS system for users
- to produce reports (such as monthly financial statements) on a regular basis and distribute those reports.
- to incorporate requisition numbers in financial reports so those reports are easier for principals to use.
- 4. to study ways the FMS system can best serve users. Find out what the system can do, what reports can be produced, etc.
- 5. to develop a manual for accounting procedures for the schools. This would include forms such as requisition logs, recording and processing procedures, procedures for balancing their records against FMS reports, procedures for checking on the status of requisitions and purchase orders, etc.
- to devise a system to make it easier to produce the Common Core of Data reports from the information available from FMS.

There does not appear to be any need to include financial data in the DOE data base since that is already taken care of in the FIS system. Exceptions may be things like school cafeteria accounting but perhaps that could also be part of the FMS system.

#### Property Accounting

#### Inventory

This is not well done currently. When an item of property is received it is numbered and logged. Three digits of the property number designate the school or other building to which it is assigned. The Business Office keeps a card file of property records. That file is probably not very accurate. Annually, each school is required to submit a property inventory. This is done in various ways. In some schools, clerks and/or administrators go around the building every year and record all property. In others, the inventory is taken by department. In at least one school, a card file of property is kept and updated as changes are made. The annual inventory is then done by copying data from that card file. The inventory reports are filed in the Business Office. There is no evidence that anyone ever uses the school inventories or checks them against the Business Office records.

DOA is in the process of developing a computerized inventory system.

# **Buildings and Sites**

There is no evidence that building and site records are kept, except for some records in the maintenance department.

Maintenance labor is charged to individual schools and goes into the

#### Maintenance

FMS system. Thus, information on maintenance labor cost per building is available. However, materials used in maintenance are not charged by building so that cost is not available on a building basis, nor is contracted maintenance. There are plans to include materials used in maintenance on a school by school level to be included in the FMS system in the future. In general, the FMS system serves maintenance quite well. Some additional coding is needed but it appears that that can be done. For example, there is a need to designate type of craft (carpenter, plumber, etc.), and a need to code buildings other than schools (such as the LRC). For the benefit of the overall system, the FMS system should

use the same school code numbers that DOE uses.

#### Power

Even though electric bills are not paid directly by DOE, maintenance monitors power usage. This is done manually and is a tedious clerical task.

# Textbook Inventory and Control

The Guam school system spends a very large amount of money each year for textbooks. There is currently no system for inventory and control of textbooks. It appears that some money spent for texts is wasted since some schools have surplus texts while other schools are purchasing additional copies of the same texts.

# Suggestions

- Something should be done about inventory.
   Alternatives:
  - a. forget about it since there seems to be little concern about accuracy, control or use.
  - b. assume it will be done by DOA
  - c. use the DOE computer.

It is suggested that first it be determined if DOA is really going to do inventory and, if so, if that system will provide for DOE and school needs. If not, a system should be developed using the DOE computer. There is probably good software available for inventory. Even if it had to be developed, it would be fairly easy.

- 2. building and site records should be developed and made part of the DOE data base.
- maintenance seems to be well taken care of through the DOA system. A useful DOE application would be preventive maintenance scheduling.

- 4. a DOE system for storing and processing power usage data should be developed. This would be fairly easy system to develop.
- 5. a computer system for textbook inventory and control should be developed. This would also be a fairly easy system to develop.

# Staff Accounting

Payroll cards are kept in individual schools and departments. Payroll is processed by DOA.

The Personnel Office has a file of personnel records.

Each school also has personnel records.

#### **Problems**

- 1. All employee time must be accounted for and recorded daily. There is no exception reporting.
- 2. The records in the personnel office are not completely accurate. They do not always reflect changes in assignment.
- 3. The records in the personnel office are all manual. When studies are made, the data must be manually tabulated from the records.
  - 4. Records on former employees do not seem to be kept in a consistent manner. Thus, verification of past employment is difficult.

# Suggestions

- 1. Record employee time on an exception basis.
  - 2. Develop a DOE computer system for staff accounting. The DOE system would not include payroll which is done by DOA. The DOE system would include certification and assignment. Certification data would be entered into the computer and the computer would print the certificate. Assignment data would also be entered into the computer. Thus a data base of staff information would be established.

The computer could be used to match assignments against certificates, flag expired certificates, and to run various analyses. Perhaps it would be sufficient to include just certificated personnel rather than all employees in the system. The same ID number should be used on personnel as is used in the payroll system so that data in the personnel system can be related to data in the payroll system when appropriate.

# Student Accounting

This is the area of the greatest need and highest priority for computerization. Currently, all student accounting is done manually. Some forms and procedures are standardized while others vary from school to school. When forms are standardized, it does not appear that all schools always use those forms. Also, the forms have not been designed with data processing in mind so some may have to be revised when data processing is implemented. Discussion of specific applications follows.

# Student Registration (Enrollment)

A variety of forms are used to collect basic student information each year. Also, different information is recorded by different schools. The data collected and the forms need to be standardized. These student records should be computerized. Initial data should be entered when a student enters a Guam school and updated as changes occur. Several methods could be used. One method would be to input data from the registration form into the computer system but continue to keep the original registration form as the basic record in the school. Then, as changes occur, those changes would be input to the computer. A second method would be to have the computer print the registration information periodically and send the printed forms to the schools. When a change occured, the change would be marked on the form and input into the computer. The computer would

then produce an updated form. A third method would be to eliminate the paper files of student registration forms and to rely entirely on the computer files. This would require a terminal in each school. Whichever method is used, the computer should always have up-to-date information on all students and should be able to produce various statistical reports and analyses.

# Scheduling

This, of course, applies to the secondary schools only. The secondary schools currently uses different methods of scheduling. All have pre-registration and build master schedules. One high school then uses arena scheduling of students into classes. In other schools the students are scheduled into classes by school staff during the summer. Student schedules and class lists are then typed. It is suggested that secondary school scheduling be one of the earliest applications implemented on a computer system.

# Grade Reporting

There are not standard procedures nor forms for grade reporting. Those need to be developed. Grade reporting is a more different problem at the secondary school level than at the elementary level. Because of departmentalization, students taking different courses, and the need to record secondary student grades in the cumulative and permanent records, it is more effective to do secondary grade reporting by computer than elementary. They will be discussed separately.

# 1. Secondary

It is assumed that before grade reporting is done by computer, the school is scheduled by computer. Thus, the computer will have a record of students, courses and teachers. A suggested method of doing secondary grade reporting would be to have the computer print class lists near the end of the grading period, either on a document scanner form (if a document scanner is available) or on a plain form. These would be distributed to the

teachers, one list per class, and the teacher would record the grades. The grades would either be read by a scanner or be key entered into the computer. The computer would then print report cards and class grade lists. At the end of the year the computer would compute GPA's, class ranks, etc. and would produce gummed labels for affixing to the cumulative records.

## 2. Elementary

At the elementary level the computer would print class lists for each classroom teacher and each special teacher (physical education, music, etc.) at the end of each reporting period. The teachers would record grades on these lists and the recorded grades would be read by a document scanner or key entered. The computer would then print report cards.

#### Attendance

At both the elementary and secondary level, attendance is on a full day basis. That is, a student is either recorded as present all day or absent all day. Part day attendance is counted as a full day. The general procedure is for teachers to take attendance first thing in the morning. At the elementary level, attendance recording is the responsibility of the classroom teacher. At the secondary level, attendance is taken by the homeroom or first period teacher. Reports of absences are sent to the office where alphabetized lists of absent students are typed. Those lists are then distributed to all teachers. After the lists are distributed, teachers record the names of students who are absent but who do not appear on the absence list.

If a student is absent excessively, an attendance officer from the Pupil Personnel Office contacts the parents.

Attendance is also recorded on individual student attendance cards and summary figures are entered on report cards and cumulative records.

It is suggested that attendance accounting, at least at the secondary level, be done by computer. If the homeroom/first period absence reports were entered into a computer system, the computer could quickly produce alphabetized lists of absentees for distribution to teachers. The computer could also be used to generate notices of excess absences to parents, counselors and attendance officers. At the end of reporting periods the computer could generate summary attendance statistics.

# Instructional Program Accounting

In general, there appears to be little need for computer storage and processing of instructional program information. For scheduling and grade reporting, a file of course names and codes should be maintained.

However, there is a need for computer utilization in the media center. The media center produces catalogs of available instructional materials (films, film strips, etc.) Those materials are distributed to schools in response to teacher requests. A computer would be used to print catalogs, to help control distribution, and to generate various use statistics. A computer could also be used to produce a catalog of curriculum library materials and to assist in distribution of those materials. Finally, a computer could be used to store information about all instructional materials in the schools.

#### OVERVIEW OF THE GUAM MANAGEMENT INFORMATION SYSTEM

The primary functions of the Guam DOE computer management information system (MIS) are to process data and to provide management reports. A data base approach was taken in the design of the MIS. This approach involves the establishment of major files, or data bases, and operating applications from those files. A data base approach avoids duplicate data storage, insures consistency of data among applications and departments, and provides for relating data among areas through linkages built into the files.

The data base will consist of five major files:

- Pupils
- Personnel
- ° Instructional Programs
- Finance
- Facilities

In addition, temporary work files will be used for some applications when the data to be stored is of a temporary nature or is important to only one application, not to the overall operation of the MIS. If one computer application developed, for example, is the scheduling of delivery of instructional materials to schools, that data would be stored in a separate file since it is of a temporary nature and is not an essential part of the overall MIS.

For convenience and efficiency codes will frequently be used for data elements. For example, in student files, code numbers will be used for residential areas. However, in order for reports to be most readable, the name rather than the number of the residential area will frequently be printed. In order to be able to print names rather than code numbers, tables relating codes to names will be established.

When applications are run, one or more of the data base files will be used as appropriate. For example, when student report cards are run, student name and grades will come from the student file while course names will

come from the instructional program file and teacher names will come from the personnel file.

For the purpose of analysis, it will often be useful to relate data among the various files. For example, if one wished to calculate the current square feet per student ratio for each school, one would need to use data from both the student and property files. Numbers of students would come from the student file. Square footage would come from the property file. Those files are linked since the student records indicate the building and rooms to which each student is assigned.

The computer application programs listed below are currently planned. Each application is further described in the document <u>Part II Needs</u>, <u>Alternatives and Plans for a Management Information System</u>. That document also includes a schedule for development, testing and implementation of each application.

Student records Secondary school scheduling Grade reporting Special education student records Attendance accounting Title I student records Special records for students in other federal programs Test scoring Statistical reports Personnel records Instructional program records Building inventory Building maintenance Equipment inventory and maintenance Power usage control Media control Supply ordering Textbook inventory and control

Note that two applications normally included in an educational management information system, financial accounting and payroll, are not included in the list of planned applications. Those applications are currently performed by Guam Department of Administration. Linkages have been designed, however, so that data from the other files can be related to data from the finance and payroll files.

#### DATA BASE ITEMS

Following are suggested data base items for four areas of educational accounting - Students, Personnel, Instructional Programs and Property. Each item is coded with a "C" or "L" in front of the item name. Items coded "C" will be part of the computer data base. Items coded "L" will not be part of the computer data base but may be kept locally. Definitions and lists of codes accompany the items, when appropriate. When a list of codes is particularly lengthy, only part of the list is included in this section. Complete lists are included in the codes section of this document.

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# STUDENT DATA

(C) Legal Name The full legal name of the student including last name, first name, middle name and any appendage such as Jr. or III.

33 characters

16 last and appendage

10 first

7 middle

- (L) Any Other Name Any name, other than the legal name, by which the student is known.
- (C) Student Number The number assigned by the school system for identification and recordkeeping purposes. A six digit number will be used. The first two digits will be the code for the first Guam public school entered by the student. The last four digits will be assigned in sequence. Thus, the first student assigned a number by Inarajan Elementary School will have the number 190001, the second 190002, etc. A student will always keep the assigned number and will not be assigned a new number when transferring from one Guam school to another.

6 characters

xxxxxx

(C) S<u>ex</u>

1 character

1 male

2 female

- (C) Racial/Ethnic Group The student's general racial or ethnic heritage.
  - 2 characters
    - 01 Chamorro
    - 02 Filipino
    - 03 Micronesian
    - 04 Northern Marianas
    - 05 Other Pacific Islander
    - 06 Chinese

- 07 Japanese
- 08 Korean
- 09 Vietnamese
- 10 Other Asian
- 11 American Indian
- 12 Black
- 13 Hispanic
- 14 White Caucasian
- 15 Other

# (C) Language Spoken by Parents at Home

#### 2 characters

- 01 Cantonese
- 02 Chamorro
- 03 English
- 04 llocano
- 05 Japanese
- 06 Korean
- 07 Mandarin
- 08 Tagalog
- 09 Trust Territory
- 10 Vietnamese
- 11 Visayan
- 12 Other

# (C) Language Spoken by Student at Home

#### 2 characters

- 01 Cantonese
- 02 Chamorro
- 03 English
- 04 llocano
- 05 Japanese
- 06 Korean
- 07 Mandarin
- 08 Tagalog
- 09 Trust Territory
- 10 Vietnamese
- 11 Visayan
- 12 Other

(C) <u>Date of Birth</u> The month, day and year of the student's birth.

6 characters

MM DD YY

(L) <u>Evidence Verifying Date of Birth</u> The type of evidence by which the student's date of birth is verified.

1 character

- 1 Birth certificate
- 2 Hospital certificate
- 3 Physician certificate
- 4 Baptismal or church certificate
- 5 Parent's affidavit
- 6 Entry in family bible
- 7 Passport
- 8 Previously verified school record
- 9 Other
- (C) Citizenship Status The U.S. citizenship status of the student.
  - 1 character
    - 1 U.S. Citizen
    - 2 Resident Alien (6th preference or green card)
    - 3 1-20 Student
    - 4 Non-resident Alien
- (C) Responsible Adult Name of adult to whom official school notices are to be sent.

33 characters

16 last

10 first

7 middle

- (C) Relationship of Responsible Adult to Student
  - 1 character
    - 1 father
    - 2 mother
    - 3 guardian
    - 4 other

# (C) Mailing Address of Responsible Adult

35 characters

15 P.O. Box or Street Address

15 Village/City

5 Zip Code

# (C) Home Telephone Number of Responsible Adult

7 characters

xxxxxx

# (C) Work Telephone Number of Responsible Adult

7 characters

xxxxxxx

# (C) Address of Student

30 characters

15 Street Address

15 Village/City

# (C) Residential/Village area in which student lives

3 characters

001 Adelup

002 Afame, Sinajana

143 Y-Pao Pao

- (L) Person(s) to be Notified in Case of Emergency The name, relationship, address and telephone number(s) of individual(s) designated as person(s) to be notified in case of emergency.
- (C) First Entry Date The date of the student's first entry into the Guam public school system.

6 characters

MM DD YY

(C) <u>Current Entry Date</u> The date on which a student enters a school during the current year.

6 characters MM DD YY

# (C) Type of Entry

1 character

#### Entry

1 Original Entry - A student who for the first time during the current school year enters any public or private school anywhere.

At the beginning of the school year, all students are original entries. After the beginning of school, the only original entries are those students who have not enrolled in another school during the current year. All incoming students who have had enrolled in another school are re-entries.

# Re-Entry

2 Re-entry from another public school in Guam A student received from another Guam public
school which he or she entered earlier in the
current school year.

For example, if a student begins the school year in Agat Elementary then transfers to Yigo Elementary the student is a (2) when entering Yigo. However, if that student enrolled in a Guam private school between the time of withdrawing from Agat and entering Yigo, the student would be a (3) upon entry into Yigo. As another example, if a student withdrew from Agat Elementary during the school year, attended a school in California for a while, then entered Yigo

Elementary, that student would be a (4). Only students who transfer directly from another Guam public school are (2)'s.

- A student received from a non-public school in Guam A student received from a non-public school
  in Guam which he or she entered earlier in
  the school year. Thus, a student who first
  enrolls in St. Johns Elementary then transfers
  to Price Elementary, is a (3) re-entry for
  Price Elementary.
- 4 Re-entry from a school outside Guam A student received from a school outside Guam which he or she entered earlier in the school year.

  Thus, a student who begins the school year in a school in Hawaii, then transfers to Andersen Elementary, would be a (4) re-entry for Andersen.
- 5 Re-entry to a Guam Public School after Withdrawal or Expulsion A student who returns to the Guam Public School system after withdrawal or expulsion from a Guam Public School. Thus, a student who begins the year in Johnston Junior High, transfers to a school outside Guam or a private Guam school, then enters Dededo Junior High, is a (5) re-entry for Dededo.
- (C) School From Which Received The school last attended before the current one.

If a public or private school in Guam, the code for that school will be entered:

2 characters

00 if first school

51 Academy

10 Adelup

52 Bishop Baumgartner

09 Voc. Tech. Sr.

99 Off-island

(C) School Entered The code for the school in which the student is currently enrolled.

2 characters

10 Adelup

11 Agana Heights

08 S. Sanchez Jr.

09 Voc. Tech. Sr.

(C) <u>Standardized test(s) taken</u> Code number for test.

2 characters

xx

(C) <u>Test date(s)</u> Date test was taken.
6 characters

MM DD YY

(C) Test part Identification of subtest.

10 characters

XXXXXXXXX

(C) Test score(s) Student's score on test(s).

3 characters

xxx

(C) Type of score(s) The type of score recorded (e.g., percentile rank, grade equivalent, etc.)

1 character

1 grade equivalent

2 percentile rank

3 stanine

4 NCE

5 raw score

6 standard score

9 other

(C) <u>Transportation Status</u> Indication of whether the student is transported to school by bus.

1 character

0 no

1 yes

# (C) Federal Status of Parents

#### Part I

#### 2 characters

- 01 Navy military
- 02 Navy civilian employee
- 03 Air Force military
- 04 Air Force civilian employee
- 05 Army military
- 06 Army civilian employee
- 07 Coast Guard military
- 08 Coast Guard civilian employee
- 09 Marine military
- 10 Marine civilian employee
- 11 Other federal
- 19 Not federally connected

## Part II Parent:

#### 1 character

- 1 Lives on federal property
- 2 Works on federal property
- 3 Lives and works on federal property
- 4 None of the above

#### (C) Head Start Status

- 1 character
  - 0 Student not in Head Start
  - 1 Student in Head Start

# (C) Special Education Status

#### 1 character

- 0 Student not in Special Education
- 1 Student in Special Education

#### (C) Title | Status

1 character

- 0 Student not in Title I
- 1 Student in Title I

## (C) Bilingual/Bicultural Status

1 character

- 0 Student not in Bilingual/Bicultural Program
- 1 Student in Bilingual/Bicultural Program
- (C) Grade The current grade level of the student.

2 characters

- 14 Prekindergarten
- 15 Kindergarten
- 01 First grade

-

- 12 Twelfth grade
- 20 Unassigned grade level
- (C) <u>Courses</u> The code number for each class or course to which the student is assigned. See Instructional Program for list of codes.

  3 characters

xxx

(C) <u>Teachers</u> The code number for the teacher responsible for each course or class to which the student is assigned. Same code number as for staff accounting.

9 characters

#### xxxxxxxx

(C) Room Numbers The code number for each room the student is assigned for each course or class. Same code number as for property accounting.

3 characters

(C) <u>Period</u> The period number of each course or class to which the student is assigned.

2 characters

XX

(C) <u>Grades Received</u> The grade received for each course or class taken.

1 character

X

(C) <u>Counselor</u> The code number of the counselor to whom the student is assigned. Same code number as for staff accounting.

9 characters

#### XXXXXXXX

(C) <u>Homeroom Teacher</u> The code number of the homeroom or first period teacher to whom the student is assigned. Same code number as for staff accounting.

9 characters

#### xxxxxxxx

(C) <u>Days Absent</u> Days on which the student was absent from school.

180 characters (1 character per day)

0 absent

1 present

(C) <u>Date of Withdrawal</u> The date on which the student is withdrawn (transfer, dropout, graduated, expelled)

6 characters

MM DD YY

(C) Type of Withdrawal

2 characters

Transfers - A student who leaves one school and enters another school is a "transfer". Each student who transfers from one school to another during the school year is identified with designation below.

- 11 Transferred to another public school in Guam
- 12 Transferred to a non-public school in Guam
- 13 Transferred to Guam Vocational High School
- 14 Committed to a correctional institution
- 15 Moved from Guam, military dependent
- 16 Moved from Guam, civilian dependent

# Completion of School Work

21 Graduated from high school - The student has completed the necessary work to meet graduation requirements and is no longer in attendance

# Expulsion

31 Expelled - the student has been expelled from school

# <u>Deceased</u>

41 Deceased - the student is deceased

# Dropout - The student is no longer enrolled in any school

- 51 Voluntary withdrawal due to inability to adjust to school
- 52 Marriage
- 53 Probable employment
- 54 Verified employment
- 55 Needed at home
- 56 Pregnancy (without doctor's certification)
- 57 Pregnancy (with doctor's certification)
- 58 Other physical/medical reason (with doctor's certification)
- 59 Other physical/medical reason (without doctor's certification)

#### Unknown

70 Unknown - the whereabouts of the student is unknown

## PERSONNEL DATA

(C) Name The full legal name of the staff member including last name, first name, middle name, and any appendage such as Jr. or III.

33 characters

16 last and appendage

10 first

7 middle

(C) Social security number

9 characters

xxxxxxxx

(C) Sex

1 character

1 male

2 female

(C) Racial/Ethnic background The staff member's general racial or ethnic heritage.

2 characters

01 Chamorro

02 Filipino

03 Micronesian

04 Northern Marianas

05 Other Pacific Islander

06 Chinese

07 Japanese

08 Korean

09 Vietnamese

10 Other Asian

11 American Indian

12 Black

13 Hispanic

14 White Caucasian

15 Other

### (C) Date of Birth

6 characters

MM DD YY

## (C) Citizenship status

1 character

1 U.S. Citizen

2 Resident Alien (6th preference or green card)

4 Non-Resident Alien

### (C) Home Address

35 characters

15 P.O. Box or Street Address

15 Village/City

5 Zip Code

# (C) Home Telephone Number

7 characters

xxxxxx

# (L) Person to be notified in case of emergency

57 characters

20 name

30 address

7 phone number

### (C) Highest degree or certificate earned

1 character

0 none

1 GED

2 high school diploma

3 technical certificate

4 associate degree

5 bachelor's degree

6 professional degree

7 intermediate degree (Ed.S.)

8 doctorate

(C) Name and place of educational institution at which highest degree was earned

35 characters

15 name of institution

15 city

2 state (use U.S. state codes)

3 country code (from USOE handbook)

# (C) Date highest degree awarded

4 characters

MM YY

(C) <u>Credit earned beyond highest degree</u> The semester hours of credit earned beyond the highest degree. Quarter hours should be converted to semester hours by multiplying by 2/3.

3 characters

XXX

(L) Other educational institutions attended

Name and place, degree
earned and date degree earned of each educational institution
attended.

# (C) Certificate held

2 characters

00 none

01 elementary

02 secondary

03 vocational

04 special education

05 school librarian

06 school health counselor

07 guidance and counseling

08 school psychologist

09 administration and supervision

10 school program consultant

11 school psychometrist

99 other

# (C) Type of certificate

- 1 character
  - 1 emergency
    - 2 provisional
  - 3 standard
  - 4 professional I
  - 5 professional | |
  - 6 professional III
- (C) Year of expiration Last two digits of the year certificate expires.
  - 2 characters

XX

- (C) <u>History requirement fulfilled</u> Indication of whether the requirement for study of the history or culture of Guam is fulfilled.
  - 1 character
    - 0 no
    - 1 yes
- (C) <u>Authorized teaching fields</u> Subject areas the staff member is approved to teach.
  - 2 characters
    - 10 Art
    - 15 Agriculture
    - 20 Business
      - 21 Typing
      - 22 Business Math
      - 23 Shorthand
    - 25 Driver Education
    - 30 Foreign Language
      - 31 French
      - 32 Japanese
      - 33 Spanish
    - 35 Health & Physical Education
    - 40 Homemaking
    - 45 Industrial Arts

- 50 Language Arts
  - 51 English
  - 52 Speech
  - 53 Journalism
  - 54 Literature
  - 55 Drama
  - 56 Reading
  - 57 TESOL
- 60 Mathematics
- 65 Music
- 70 Science
  - 71 General Science
- 80 Social Studies
  - 81 World History
  - 82 Modern or Contemporary problems
  - 83 Psychology
  - 84 Geography
  - 85 Civics
  - 86 American Government
- (L) <u>Prior experience</u> Work experience prior to employment by the Guam DOE.
- (L) Experience with Guam DOE prior to current assignment Work experience for the Guam DOE prior to current assignment.
- (C) <u>Job Classification</u> The Guam position code for the current work assignment.
  - 4 characters

2107 Accountant 1

9606 Welder Supervisor

- (C) <u>School/department assignment</u> The school or department to which the staff member is currently assigned.
  - 2 characters
    - 10 Adelup
    - 11 Agana Heights
    - etc.
- (C) <u>Subject matter areas</u> The subject matter areas the staff member is currently assigned to teach. Same codes as authorized teaching fields above.
  - 2 characters
    - 10 Art
    - 15 Agriculture
    - 20 Business
      - 21 Typing
      - 22 Business Math
      - 23 Shorthand
    - 25 Driver Education
    - 30 Foreign Language
      - 31 French
      - 32 Japanese
      - 33 Spanish
    - 35 Health & Physical Education
    - 40 Homemaking
    - 45 Industrial Arts
    - 50 Language Arts
      - 51 English
      - 52 Speech
      - 53 Journalism
      - 54 Literature
      - 55 Drama
      - 56 Reading
      - 57 TESOL
    - 60 Mathematics
    - 65 Music
    - 70 Science
      - 71 General Science

- 80 Social Studies
  - 81 World History
  - 82 Modern or Contemporary problems

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- 83 Psychology
- 84 Geography
- 85 Civics
- 86 American Government

### INSTRUCTIONAL PROGRAM DATA

The instructional program file will include the names and code numbers for all courses taught in Guam elementary, junior and senior high schools. A four digit number is used to designate each course.

# Elementary

0100 Art

0200 Health

0300 Language Arts

0310 Language

0320 Penmanship

0340 Reading

0350 Spelling

0400 Math

0500 Music

0600 Physical

0700 Science

0800 Social Studies

### Secondary

Agriculture

1000 Agriculture I

Art

1100 Art 7

1105 Art 8

1110 Art 1

1115 Art II

1120 Art III

1125 Acrylic Painting

1130 Basic Design

1135 Ceramics

1140 Drawing

1145 Printmaking/woodcut

\_\_\_\_\_

#### Business

- 1200 Accounting I
- 1204 Accounting II
- 1208 Business English
- 1212 Business Law
- 1216 Business Math
- 1220 Business Methods
- 1224 Business Machines
- 1228 Calculating Machines
- 1232 Clerical Office Practice
- 1236 Counsumer Affairs
- 1240 Duplicating Machines
- 1244 Filing
- 1248 General Business
- 1252 Human Relations in Business
- 1256 Introduction to Business
- 1260 Money Management
- 1264 Office Aide
- 1268 Recordkeeping
- 1272 Shorthand I
- 1276 Shorthand II
- 1280 Typing I
- 1284 Typing II
- 1288 Typing, Clerical
- 1292 Typing, Production
- 1296 Typing, Refresher
  - Typing, Reports/Manuscripts

### Chamorro Language

1300 Chamorro

#### Distributive Education

1400 Distributive Education

# English Language Arts

- 1500 Language Arts 7
- 1503 Language Arts 8
- 1506 Language Arts 9

Bilingual Language Arts

- 1512 GTP Language Arts
- 1515 English 10A
- 1518 English 10B
- 1521 English 11
- 1524 English 12
- 1527 Basic Writing
- 1530 Developmental Reading
- 1533 Drama
- 1536 Ethnic/Africa Literature
- 1539 Grammar
- 1542 Individualized Reading
- 1545 Journalism
- 1548 Library Service I
- 1551 Library Service II
- 1554 Literature of the Sea
- 1557 Newspaper
- 1560 Newspaper Use/Mass Media
- 1563 Oral Interpretation
- 1566 Philosophy in Literature
- 1569 Reading Lab
- 1572 Reading Seminar
- 1575 Shakespeare
- 1578 Speech
- 1581 TESOL
- 1584 Words/Words
- 1587 Yearbook

### Foreign Languages

- 1600 French !
- 1601 French II
- 1625 Japanese I
- 1626 Japanese II
- 1627 Japanese III
- 1630 Japanese Caligrophy
- 1650 Spanish I
- 1651 Spanish II

2.30

#### Home Economics Home Economics 7 1700 1704 Home Economics 8 1708 Home Economics 1 1712 Chamorro Cooking 1716 Child Development 1720 Clothina 1724 Cooking Tools 1728 Custom Clothing 1732 Family Relations 1736 First Aid 1740 Foods 1744 Foods From Animals 1748 Foods From Plants 1752 Health & Hygiene 1756 Home and Interior 1760 Home Crafts 1764 Home Nursing 1768 Home Skills 1772 Human Sexuality 1776 Nursing Assistant I 1780 Nursing Assistant II 1784 Nutrition 1788 Personal Adjustment 1792 Sewing I 1796 Sewing 11 Industrial Arts 1800 Industrial Arts 7 1805 Industrial Arts 8 1810 Industrial Arts I 1815 Architectural Drawing 1820 Drafting I 1825 Drafting II 1830 Mechanical Drawing 1835 Metals I 1840 Metals II

Woodworking I

Woodworking II

1845

1850

### **Mathematics**

- 1900 Math 7
- 1905 Math 8
- 1910 General Math
- 1915 Algebra A/B
- 1920 Algebra I
- 1925 Algebra II
- 1930 Analytic Geometry
- 1935 Banking/Investing
- 1940 Budget/Insurance
- 1945 Career Math
- 1950 Computer Science
- 1955 Elementary Functions
- 1960 Geometry I
- 1965 Geometry II
- 1970 Taxes
- 1975 Trigonometry

#### Music

- 2000 Band, Beginning
- 2005 Band, Intermediate
- 2010 Band, Advanced
- 2015 Band, Concert
- 2020 Band, Stage
- 2025 Chorus, Beginning
- 2030 Chorus, Intermediate
- 2035 Chorus, Advanced
- 2040 General Music
- 2045 Music Symbols

#### Physical Education

- 2100 Physical Education 7
- 2103 Physical Education 8
- 2106 Physical Education 9
- 2109 GTP Physical Education
- 2112 Adaptive Physical Education
- 2115 Aerobics (Beginning)
- 2118 Aerobics (Intermediate)
- 2121 Aerobics Dance

- 2124 Aikido (Beginning)
- 2127 Aikido (Intermediate)
- 2130 Archery (Beginning)
- 2133 Archery (Intermediate)
- 2136 Badminton/Table Tennis
- 2139 Basketball (Beginning)
- 2142 Basketball (Intermediate)
- 2145 Bicycling
- 2148 Bowling
- 2151 Bowling (Intermediate)
- 2154 Boxing
- 2157 Creative Dance (Beginning)
- 2160 Creative Dance (Intermediate)
- 2163 Fencing
- 2166 Field Hockey
- 2169 Fitness and Conditioning
- 2172 Flag Football
- 2175 Flag Football/Speedball
- 2178 Football Officiating
- 2187: Folk and Square Dancing (Beginning
- 2184 Folk and Square Dancing (Intermediate)

1

- 2187 Football
- 2190 Golf
- 2193 Gymnastics
- 2196 Gymnastics (Intermediate)
- 2199 Gymnastics (Advanced)
- 2202 Handball/Shuffleboard
- 2205 Handball/Racketball
- 2208 Health
- 2211 Hiking and Survival Fitness
- 2214 Horseback Riding
- 2217 Intramural Planning
- 2220 Island Dance
- 2223 Island Dance (Intermediate)
- 2226 Judo
- 2229 Physical Conditioning
- 2232 Physical Education for Elementary
- 2235 Racketball/Recreation Games (Beginning)
- 2238 Racketball/Recreation Games (Intermediate)

- 2241 Recreational Games
- 2244 Rhythms
- 2247 Soccer (Beginning)
- 2250 Soccer (Intermediate)
- 2253 Soccer (Advance)
- 2256 Soccer Officiating
- 2259 Social Dance (Beginning)
- 2262 Social Dance (Intermediate)
- 2265 Softball (Beginning)
- 2268 Softball (Intermediate)
- 2271 Speedball
- 2274 Sports Facilities
- 2277 Swimming (Non)
- 2280 Swimming (Beginning)
- 2283 Swimming (Intermediate)
- 2286 Swimming (Advance)
- 2289 Synchronized Swimming
- 2292. Tennis (Beginning)
- 2295 Tennis (Intermediate
- 2298 Tennis (Advanced)
- 2301 Track and Field (Beginning)
- 2304 Track and Field (Intermediate)
- 2307 Theory of Physical Education
- 2310 Tumbling (Beginning)
- 2313 Tumbling (Intermediate)
- 2316 Volleyball (Beginning)
- 2319 Volleyball (Intermediate)
- 2322 Volleyball (Power)
- 2325 Weight Control
- 2328 Weight Training (Beginning)
- 2331 Weight Training (Intermediate)
- 2334 Weight Training (Advance
- 2337 Wrestling
- 2340 Yoga (Beginning)
- 2343 Yoga (Intermediate)
- 2346 Physical Education Aide
- 2349 Physical Education Seminar

#### Science

- 2503 Science 7
- 2506 Science 8
- 2509 Science 9
- 2512 GTP Science
- 2515 Air & Space
- 2528 Biology I
- 2521 Biology II
- 2524 Biology, Environmental
- 2527 Biology, Human
- 2530 Biology, Marine
- 2533 Chemistry A
- 2536 Chemistry B
- 2539 Chemistry, General
- 2542 Chemistry, Advanced
- 2545 Earth
- 2548 Electronics I
- 2551 Electronics II
- 2554 Energy Resources
- 2557 Evaluation
- 2560 Experience in Science
- 2563 Human Anatomy & Physiology
- 2566 Natural Science
- 2569 Physical Science, Chemistry
- 2572 Physical Science, Physics
- 2575 Physics
- 2578 Physics, Mechanics
- 2581 Physics, Light & Sound
- 2584 Physics, Magnetism & Power
- 2587 Science, Past & Present
- 2590 Science Seminar

#### Social Studies

#### General

- 2610 Social Studies 7
- 2612 Social Studies 8
- 2614 Social Studies 9
- 2616 Honors Social Studies
- 2618 Bilingual Social Studies

Anthropology

2630 Africas

2632 Americas

2634 Eurasia

2636 S.E. Asia, Oceania, Australia

Government

2640 Constitutional Government

2642 Government & The Consumer

2644 Government of Guam

2646 International Government

History

U.S.

2650 Exploration to 1898

2652 1898 to Present

2654 Guam History

World

2660 Beginning Western Civilization

2662 Far East History

2664 Philippines & S.E. Asia

2666 World in Turmoil

Psychology

2670 Psychology

Sociology

2680 Sociology

ROTC

3000 ROTC I

3010 ROTC !!

3020 ROTC !!!

**Driver Education** 

4000 Driver Education

# PROPERTY DATA

### Sites

(C) <u>Site Number</u> A number used to identify a site. For sites with school buildings, the school number will be used as the last two digits of the site number

3 characters
102 Untalan Junior
103 Inarajan Junior High
etc.

(C) <u>Site Addition Number</u> A numeric designation identifying a site as either an original or an addition.

1 character

0 original

1 first addition

2 second addition

etc.

(C) <u>Site Name</u> The common name used for the site. If a school is on site, the school name will be used.

15 characters

(C) <u>Site Location</u> The address of the site or a description of its location.

30 characters

(C) Area The area of the site to the nearest tenth acre.

4 characters

xxx.x

- (L) <u>Deed Restriction</u> Brief summary of any revision clause condition or restrictions on use.
- (L) Easements Brief summary of easements that affect the site.

- (C) Structure (excluding buildings) or special area on site Any structure other than a building or any area requiring special design, arrangements or construction for the purpose of for which it is used.
  - 2 characters per structure or area
    - 01 football field
    - 02 baseball field
    - 03 basketball court
    - 04 tennis court
    - 05 track and field area
    - etc.
- (C) <u>Method of site acquisition</u> The means by which the site was obtained for use.
  - 1 character
    - 1 purchase
    - 2 lease (rent)
    - 3 loan
    - 4 gift
    - 5 exchange
    - 9 other
- (C) Date of site acquisition The date on which the site was acquired.
  - 6 characters

MM DD YY

- (C) Cost of site acquisition The purchase price of the site.
  - 8 characters

XXXXXXX

- (C) Market value of site The appraised or estimated dollar value for which the site currently could be sold.
  - 8 characters

XXXXXXX

- (L) Nature of site improvement Description of the type of improvement made to a site.
- (L) <u>Date of site improvement</u> The date on which site improvement was completed.

(L) Cost of site improvement The cost of an improvement made to a site.

## **Buildings**

(C) <u>Building Number</u> The numerical designation for the building.

A four digit number will be used. The first three will be the same as the number of the site on which it is located. The fourth digit will be used to designate the building on the site. Thus a single building on a site might be number 1021 while two buildings on a site might be 1231 and 1232.

4 characters

XXXX

(C) <u>Building Addition code</u> A numeric designation identifying a building as either an original building or an addition to a building.

1 character

0 original building

1 first addition

2 second addition

etc.

(C) School or unit name The name of the school or other unit using the building. Other unit might be maintenance or media department.

15 characters-

(C) <u>Building name</u> The common name for the building 15 characters

- (C) Type of building A code for the primary purpose of the building.
  - 2 characters
    - 01 General Education
    - 02 Instruction
    - 03 Administration
    - 04 Learning Resources
    - 05 Athletics
    - 06 Auditorium
    - 10 Food Service
    - 11 Mechanical Service
    - 12 Vehicle Garage
    - 13 Maintenance
    - 14 Warehouse
    - 15 Multiple purpose support
- (C) <u>Student capacity of building</u> The number of students that can normally be accommodated in the building.
  - 4 characters

XXXX

(C) <u>Date building completed</u> The date construction of the building was completed.

6 characters

MM DD YY

(C) <u>Cost of building acquisition</u> The cost of acquiring the building, whether by construction, purchase or other means. The cost should include construction, architectural and engineering services, legal services, and consultative services.

8 characters

XXXXXXX

(C) <u>Date of building acquisition</u> The date the building was acquired.

This will usually be the same as the date completed (above).

6 characters

MM DD YY

(C) Expected useful life of building The number of years a building is expected to fulfill its intended function.

2 characters

xx

(C) <u>Book value of building</u> The original cost less depreciation.

8 characters

xxxxxxxx

(C) Replacement cost of building The cost, at current prices, to replace a building.

8 characters

xxxxxxx

(C) Exterior walls Construction materials that comprise most or all of the exterior walls.

1 character

1 wood

2 masonry

3 metal

4 panel

5 concrete block

6 poured concrete

7 none

9 other

(C) Floor framing Construction materials that form the framing of all or most floors.

1 character

1 wood framing

2 concrete on grade

3 wood on steel

4 concrete slab on steel framing

5 concrete slab on concrete framing

9 other

- (C) <u>Fixed interior walls</u> Primary construction materials used for the fixed interior walls.
  - 1 character
    - 1 wood frame
    - 2 masonry
    - 3 metal
    - 9 other
- (C) Roof framing Construction materials that are used in the framing of the roof.
  - 1 character
    - 1 wood
    - 2 steel
    - 3 concrete
    - 9 other
- (C) Roof membrane Materials used to cover the roof.
  - 1 character
    - 1 tar or pitch
    - 2 tile
    - 3 slate
    - 4 metal
    - 5 plastic
    - 6 wood shingles
    - 7 asphalt shingles
    - 8 asbestos
    - 9 other
- (C) <u>Material in structural system</u> The primary type of material comprising the structural system of the building.
  - 1 character
    - 1 steel
    - 2 concrete
    - 3 wood
    - 9 other
- (C) Gross floor area of building The sum of the areas at each floor level included within the principle outside faces of exterior walls, expressed in square feet.
  - 5 characters

(C) Total assignable floor area of building The total area, in square feet, of all space available for use.

5 characters

XXXXX

(C) Total floor area of instructional space The total area, in square feet, of all regular instructional space.

5 characters

xxxxx

(C) Total floor area of learning resources space

in square feet, of all learning resources space

5 characters

xxxxx

(C) Total floor area of multiple-purpose space, support space, and other assignable space. The total area, in square feet, of all multipurpose space, support space, and other assignable space.

5 characters

xxxxx

(C) <u>Total floor area of disaster shelter</u> The area, in square feet, that can be used for disaster protection.

5 characters

**XXXXX** 

(C) Availability of building entrances for the handicapped

Availability of primary entrances that are ground level or have ramps with hand rails.

1 character

0 no

1 yes

(C) Accessibility of instructional locations to the handicapped

Accessibility to the handicapped to all instruction locations

1 character

0 no

1 yes

(C) Availability of toilet facilities for the handicapped Availability of toilet stalls, accompanied by grab bars, that can accommodate wheel chairs.

1 character

0 no

1 yes

(C) <u>Availability of 32-inch doors</u> Availability of doors that are wide enough to allow wheelchair passage.

1 character

0 no

1 yes

(C) Date building repair or maintenance work completed
 6 characters
 MM DD YY

(C) Cost of building repair or maintenance work

5 characters

xxxxx

- (L) Explanation of building repair or maintenance work performed

  Description of the type of work performed and the portion

  of the building on which the work was performed.
- (C) <u>Date of building modification</u>
  6 characters
  MM DD YY
- (C) Cost of building modification
  6 characters
  xxxxxx
- (L) Explanation of building modification Brief description of the type of alteration, renovation, or remodeling work done, including identification of the part of the building affected

(C) <u>Space (room) number</u> A numeric designation of a space or room in a building.
3 characters

XXX

(C) Floor area of space or room The area, in square feet, measured between principal wall faces.

4 characters

XXXX

(C) Type of space or room Primary intended use of a space or room.

4 characters

1000 assignable space

1100 regular instructional space

1200 special instructional space

1201 athletic/physical education

1202 business education

1203 home economics

1204 industrial arts

1205 kindergarten

1206 mathematics laboratory

1207 media-based instructional laboratory

1208 music

1209 planetarium

1210 science

1211 special space for exceptional children

1212 computer/data processing (instructional)

1213 darkroom (instructional)

1214 motion picture studio (instructional)

1215 radio studio (instructional)

1216 sound studio (instructional)

1217 television studio (instructional)

1299 other special instructional spaces

1300 learning resources space

1400 multiple purpose space

1410 auditorium

1420 cafeteria

1430 cafetorium

1440 gymnatorium

1450 other multiple-purpose

1500 support space

1501 computer/data processing

1502 conference room

1503 dark room

1504 equipment room

1505 health care

1506 maintenance and repair

1507 motion picture studio

1508 office

1509 projection room

1510 radio studio

1511 residential

1512 sound studio

1513 storage

1514 television studio

1515 vehicle storage

1580 general support

1590 other support

2000 nonassignable space

2100 circulation

2200 custodial

2300 mechanical

2400 structural

(C) <u>Student capacity of space</u> The number of students that can be accommodated at one time when the space is being used for the purpose intended.

4 characters

xxxx

# Equipment

(C) Equipment tag number A unique reference number assigned to an item of equipment .

12 characters

#### XXXXXXXXXX

(C) Equipment inventory number A reference number assigned to an item of equipment with a particular style, use, supply source or other common characteristic. Identical items share a common equipment inventory number. Also referred to as a stock number.

8 characters

(C) Equipment type A series of categories that separate equipment into groups according to similar function on operational characteristics.

4 characters

1000 instructional equipment

1100 instructional device

1110 audio device

1120 computer device

1130 graphics device

1140 electronic display device

1150 photographic device

1160 projected display device

1170 physical display device

1180 subject matter related device

1181 art equipment

1182 business education equipment

1183 driver education equipment

1184 homemaking equipment

1185 industrial arts equipment

1186 music equipment

1187 physical education equipment

1188 scientific laboratory equipment

1189 other subject matter related equipment

1190 other instructional device

1200 recorded instructional materials

1210 audiorecording materials

1220 computer materials

1230 electronic display materials

1240 projected materials

1250 printed/pictorial materials

1260 three-dimensional materials

1270 multi-media kits

1290 other recorded instructional materials

1300 library equipment

1900 other instructional equipment

2000 custodial equipment

4000 health equipment

5000 cafeteria equipment

7000 administrative equipment

9000 other equipment

9100 furniture

9200 machinery and apparatus

9210 hand tools

9220 bench, desk or floor machinery (office)

9230 bench, desk or floor machinery (non-office)

9240 heavy construction equipment

9300 vehicle

9900 other

(C) <u>Description of equipment</u> A brief description of an item of equipment, using the key name or description first. For example, "desk, wood, 5' x 5'."

30 characters

# (C) Equipment mobility

1 character

0 nonmovable

1 movable

(C) <u>Serial Number</u> A unique identifying number permanently inscribed or attached to an equipment item by the manufacturer.

12 characters

(C) Vendor name or number

15 characters

(C) Manufacturer name or number

(C) Make or brand

15 characters

(C) Model number

10 characters

(C) Physical location of equipment The place where an item of equipment is located. The numeric building code will be used for this.

4 characters

XXXX

(C) Date of acquisition

6 characters
MM DD YY

(C) Cost of acquisition

6 characters

XXXXXX

(C) Expected useful life The number of years an item of equipment is expected to fulfill its intended function.

2 characters

xx

- (C) Equipment maintenance schedule The intervals at which an equipment item is to be serviced.
  - 1 character
    - 0 none
    - 1 annually
    - 2 quarterly
    - 3 monthly
    - 4 weekly
    - 5 after each use
    - 9 other
- (C) Date equipment repair or maintenance work complete
  - 6 characters

MM DD YY

(C) Cost of equipment repair or maintenance work

5 characters

**XXXXX** 

(L) Explanation of equipment repair or maintenance work completed

#### Books

- (C) <u>Book inventory number</u> A reference number assigned to books with the same title, author, edition, publisher and copyright date. Identical items share a common book inventory number.
  - 8 characters

XXXXXXX

- (C) <u>Book type</u> A series of categories that separate books into groups according to similar functions.
  - 1 character
    - 1 basic text
    - 2 supplemental text
    - 3 library
    - 4 professional
    - 5 other

(C) <u>Subject area</u> A series of categories that separate text books into groups according to subject areas. The same codes are used as for subjects/courses in instructional program accounting.

4 characters

# Elementary

0100 Art 0200 Health

0800 Social Studies

## Secondary

1000 Agriculture

4000 Driver Education

- (C) <u>Title</u> The title of the book.
- (C) Author The name of author of the book.

  30 characters

  Last, first, middle
- (C) Edition The number of the edition of the book.

1 character

etc.

- 1 first edition
- 2 second edition
- (C) Copyright date. The date of the latest copyright of the book.

  The last two digits of the year will be used.

2 characters

- (C) <u>Vendor name or number</u> The name or code number of the vendor from whom the book was purchased.

  15 characters
- (C) <u>Publisher name or number</u> The name or code number of the publisher of the book.

  15 characters
- (C) <u>Date of Acquisition</u> The date the book was received.

  6 characters

  MM DD YY
- (C) <u>Cost</u> The cost per unit for acquiring the books
  5 characters
  xxx.xx
- (C) Physical location The code number for the school or department in which the books are located. The same code numbers will be used as are used for personnel assignments.

2 characters

хx

(C) <u>Number</u> The number of books of the above title, author, edition, publisher, inventory number, etc. assigned to the physical location recorded above.

4 characters

XXXX

#### CODES

Following are presented the codes to be used in the Guam DOE management information system. They will be stored in the computer system a table for each set of codes. The code numbers and name will be stored for each element. The coding systems were based primarily on current practice in the Guam DOE. When there was no DOE coding structure available, the codes were based on the USOE educational accounting handbooks. In some cases, the codes have been adjusted to conform to the IBM software.

# Guam Public Schools

- 02 Untalan Junior High
- 03 Inarajan Junior High
- 04 G.W. Senior High
- 05 JFK Senior High
- 06 A.I. Johnston Junior High
- 07 Dededo Junior High
- 08 S. Sanchez Junior High
- 09 Voc-Tech. Senior High
- 10 Adelup Elementary
- 11 Agana Heights Elementary
- 12 Agat Elementary
- 13 Andersen Elementary
- 15 B.P. Carbullido Elementary
- 16 Ordot/Chalan Pago Elementary
- 17 M.A. Ulloa Elementary
- 18 F.Q. Sanchez Elementary
- 19 Inarajan Elementary
- 20 Merizo Elementary
- 21 P.C. Lujan Elementary
- 22 New Piti Elementary
- 23 Price Elementary
- 24 J.P. Torres Elementary
- 25 C.L. Taitano Elementary

- 26 Talofofo Elementary
- 27 Tamuning Elementary
- 28 Wettengel Elementary
- 29 H.S. Truman Elementary
- 30 Yigo Elementary
- 31 L.B. Johnson Elementary
- 32 Brodie Memorial
- 33 Harmon Loop
- 34 J.Q. San Miguel Elementary
- 36 Finegayan Elementary
- 37 M.U. Lujan Elementary
- 38 F.B. Leon Guerrero Elementary
- 40 Deaf & Blind

## Guam Non-Public Schools

- 51 Academy of Our Lady
- 52 Bishop Baumgartner
- 53 Cathedral Grade
- 54 Father Duenas
- 55 Guam Adventist Academy
- 56 Infant of Prague
- 57 Little Red School
- 58 Maria Artero
- 59 Mercy Heights
- 60 Mt. Carmei, Agat
- 62 Notre Dame
- 63 Ordot Day Care
- 64 San Vicente
- 65 Santa Barbara
- 66 Saint Anthony
- 67 Saint Francis
- 68 Saint John's Episcopal
- 69 Temple Christian
- 70 Juvenile Justice
- 71 Harvest Baptist
- 72 Guam Christian Institute

## Schools/Departments

# Secondary Schools

- 02 L.P. Untalan Junior High
- 03 Inarajan Junior High
- 04 George Washington Senior High
- 05 John F. Kennedy Senior High
- 06 A.I. Johnston Junior High
- 07 Dededo Junior High
- 08 Simon Sanchez Junior High
- 09 Vocational-Technical High

## Elementary Schools

- 10 Adejup Elementary
- 11 Agana Heights Elementary
- 12 Agat Elementary
- 13 Andersen Elementary
- 15 B.P. Carbullido Elementary
- 16 Ordot/Chaian Pago Elementary
- 17 M.A. Ulloa Elementary
- 18 F.Q. Sanchez Elementary
- 19 Inarajan Elementary
- 20 Merizo-Elementary
- 21 P.C. Lujan Elementary
- 22 New Piti Elementary
- 23 Price Elementary
- 24 J.P. Torres Elementary
- 25 C. L. Taitano Elementary
- 26 Talofofo Elementary
- 27 Tamuning Elementary
- 28 Wettengel Elementary
- 29 H.S. Truman Elementary
- 30 Yigo Elementary
- 31 L.B. Johnson Elementary
- 32 Brodie Memorial
- 33 Harmon Loop Elementary
- 34 J.Q. San Miguel Elementary
- 36 Finegayan Elementary

- 37 M.U. Lujan Elementary
- 38 F.B. Leon Guerrero Elementary
- 40 Deaf & Blind

### Departments

- 45 Director's Office
- 47 Personnel Office
- 49 Business Office
- 50 Cafeteria Administration
- 52 Buildings and Grounds
- 54 Elementary Administration
- 56 Secondary Administration
- 58 Interscholastics

### Special Education

- 60 Special Education Administration
- 61 Juvenile Justice
- 62 Gifted and Talented
- 63 Gifted Model Pioneer
- 64 Model Resource
- 65 Child Find

### Federal Programs

- 70 Federal Programs
- 71 ESEA Title I
- 72 ESEA Title IV

### Curriculum & Instruction

- 76 Curriculum & Instruction
- 77 Learning Resources Center
- 78 Teachers' Center
- 79 Teacher Corps
- 80 Head Start
- 81 Staff Inservice
- 87 Pupil Personnel

## Chamorro Studies & Special Projects

- 90 Chamorro Studies & Special Projects Administration
- 91 ESAA Chamorro Language & Culture Program
- 92 Elementary Bilingual-Bicultural Education Program

In Pine

SHOW! MENT OF

- 93 ESEA Title VII
- 94 Chamorro Mandate

## Residential/Village Areas

- 001 Adelup
- 002 Afame, Sinajana
- 003 Agafa Gumas
- 004 Agana and East Agana
- 005 Agana Heights
- 006 Agana Heights Low-Cost Housing
- 007 Agana Springs
- 008 Agat (Old & New)
- 009 Alupang Cove
- 010 Andersen Air Force Base
- 011 Andersen (South)
- 012 Aniqua
- 013 Apra Heights
- 104 Asan
- 015 Ascudo
- 016 As-Ardas
- 017 Aspengao, Barrigada
- 018 Astumbo, Dededo
- 019 Barrigada, East of Route 10
- 020 Barrigada, West of Route 10
- 021 Barrigada Heights
- 022 Baza Gardens
- 023 Banyan Circle
- 024 Beien, Inarajan
- 025 Bordallo & San Vicent
- 026 Bridge Area, South of Maimai Road
- 027 Cabrera Store, Harmon
- 028 Canada, Barrigada
- 029 Carlos Heights
- 030 Chagamin-Lago
- 031 Chalan Pago (South of Rudy Sablan's House)
- 032 Chalan Pago (North of Rudy Sablan's House)
- 033 Chaot
- 034 C & H Farm
- 035 Cliff Hotel-Tutujan
- 036 Cliff Line, Harmon

- 037 Cool Spot (Agana Heights)
- 038 Dededo Village
- 039 Dairy Road
- 040 Didigue, Sinajana
- 041 East Kaiser Housing, Dededo
- 042 West Kaiser Housing, Dededo
- 043 FAA
- 044 Fahajan, Inarajan
  - 045 Father Duenas Areas (West/South/Southwest of Crossroad Junction
  - 046 Fonte, Agana Heights
  - 047 GHURA 501
  - 048 GHURA 502
  - 049 GHURA 503
- 050 GHURA 505
- 051 GHURA 506
- 052 Gibson Highway to Bishop's House
- 053 Guam Horizon
- 054 Harmon (North of Airport Road to San Miguel Brewery)
- 055 Haul Road (Route 10/15 to Hawaiian Rock)
- 056 Hawaiian Rock to Marbo
- 057 Hyundai Housing, Santa Rita
- 058 Inarajan (South of cemetery)
- 059 Inedo, Inarajan
- 060 Ipan (From Asanite Bay)
- 061 Laguina
- 062 Lalo, Barrigada
- 063 Lalo, Mangilao
- 064 Latte Heights Estates
- 065 Leyang, Barrigada
- 066 Liguan Terrace (Units 1-8, 12, 13A & B)
- 067 Liguan Terrace (Units 9-11 & 14)
- 068 Lockwood Terrace (Naval Station)
- 069 Maga, Mangilao (Mariposa)
- 070 Maina
- 071 Maite
- 072 Malojioj, Inarajan
- 073 Machananao (Munoz Area)
- 074 Macheche (Hilltop)

- 075 Macheche (lower)
- 076 Mangilao
- 077 Marbo Perm/Andersen South
- 078 Marbo to AAFB
- 079 Marianas Terrace
- 080 Mataguac
- 081 Merizo
- 082 Mogfog, Dededo (upper)
- 083 Mogfog, Dededo
- 084 Mongmong
- 085 Mt. Santa Rosa
- 086 Naval Air Station
- 087 Naval Hospital
- 088 Naval Magazine
- 089 Naval Station (North & South Tipalao, Sumay)
- 090 North of Chaot Bridge
- 091 NAS, Barrigada
- 092 NCS, Barrigada
- 093 NCS, Astumbo
- 094 NCS, DOD Housing (Old)
- 095 NCS, DOD Housing (New)
- 096 Nimitz Beach (to Santa Ana Chapel)
- 097 Nimitz Hill & Nimitz Hill Estates
- 098 Northwest of Route 10 to Father Duenas Sabanan Magas
- 099 NCS Base Proper
- 100 Northwest Field
- 101 Oceanview (FAA)
- 102 Ordot
- 103 Paasan, Agana Heights
- 104 Palm Acres
- 105 Pagat, Mangilao
- 106 Pago Bay
- 107 Palai, Piti
- 108 Palm Dale, Agana Heights
- 109 Perez Gardens
- 110 Peca, Inarajan
- 111 Perez Acres, Yigo
- 112 Piti

- 113 Poinciana
- 114 Radio, Barrigada
- 115 South BPM (Voc-Tech to East of UOG)
- 116 Salagiula
- 117 San Antonio, Barrigada
- 118 Santa Rita
- 119 Salas #2 Subdivision
- 120 Sumay
- 121 Sinajana
- 122 Tai (South of Route 10)
- 123 Talofofo
- 124 Tamuning (North & South of Marine Drive to Airport, Road)

.

- 125 Tongan
- 126 Toto
- 127 Toto, Barrigada (North)
- 128 Toto Low Cost Housing
- 129 Trust Territory Housing (Maite)
- 130 Tumon Heights and Tumon proper
- 131 Tumon Village Apartments:
- 132 Tutujan
- 133 Talisay
- 134 Takano
- 135 Umatac
- 136 UOG to Dean's Circle
- 137 War Dog Cemetery Area
- 138 West to Tutujan Road
- 139 Wilson Homes
- 140 Windward Hills
- 141 Yigo
- 142 Yona
- 143 Y-Pao Pao

## Grade/Level

Prekindergarten 14 Kindergarten 1,5 01 First Grade Second Grade 02 Third Grade 03 04 Fourth Grade 05 Fifth Grade Sixth Grade 06 Seventh Grade 07 Eighth Grade 80 Ninth Grade 09 10 Tenth Grade 11 Eleventh Grade

Twelfth Grade

Unassigned Grade Level

12

20

14 15

# Racial/Ethnic Group

01	Chamorro
02	Filipino
03	Micronesian
04	Northern Marianas
05	Other Pacific Islander
06	Chinese
07	Japanese
80	Korean
09	Vietnamese
10	Other Asian
11	American Indian
12	Black
13	Hispanic

White Caucasian

Other

## Languages

01 Cantonese
--------------

- 02 Chamorro
- 03 English
- 04 llocano
- 05 Japanese
- 06 Korean
- 07 Mandarin
- 08 Tagalog
- 09 Trust Territory
- 10 Vietnamese
- 11 Visayan
- 12 Other

## Sex

- 1 Male
- 2 Female

### Any Date

A six digit code:

First 2 digits - Month

Middle 2 digits - Day

Last 2 digits - Year

## Evidence Verifying Date of Birth

- 1 Birth certificate
- 2 Hospital certificate
- 3 Physician certificate
- 4 Baptismal or church certificate
- 5 Parent's affidavit
- 6 Entry in family bible
- 7 Passport
- 8 Previously verified school record
- 9 Other

## Citizenship Status

- 1 U.S. Citizen
- 2 Resident Alien (6th preference or green card)
- 3 I-20 Student
- 4 Non-resident Alien

## Federal Status of Parents

#### Part 1:

- 01 Navy military
- 02 Navy civilian employee
- 03 Air Force military
- 04 Air Force civilian employee
- 05 Army military
- 06 Army civilian employee
- 07 Coast Guard military
- 08 Coast Guard civilian military
- 09 Marine military
- 10 Marine civilian employee
- 11 Other federal
- 12 Nonfederal

#### Part II:

- 01 Lives on federal property
- 02 Works on federal property
- 03 Lives and works on federal property
- 04 None of the above

## Entry/Re-entry

- 1 Original Entry
- 2 Re-entry from another public school in Guam
- 3 Re-entry from a non-public school in Guam
- 4 Re-entry from a school outside Guam
- 5 Re-entry to a Guam Public School after withdrawal or expulsion

#### Withdrawal

#### Transfers:

- 11 Transferred to another public school in Guam
- 12 Transferred to a non-public school in Guam
- 13 Transferred to Guam Vocational High School
- 14 Committed to a correctional institution
- 15 Moved from Guam, military dependent
- 16 Moved from Guam, civilian dependent

## Completion:

21 Graduated from high school

### Expulsion:

31 Expelled

### Deceased:

41 Deceased

### Dropout:

- 51 Voluntary withdrawal due to inability to adjust to school
- 52 Marriage
- 53 Probable employment
- 54 'Verified employment
- 55 Needed at home
- 56 Pregnancy (without doctor's certification)
- 57 Pregnancy (with doctor's certification)
- 58 Other physical/medical reason (with doctor's certification)
- 59 Other physical/medical reason (without doctor's certification)

## Unknown:

70 Unknown

## Subjects/Courses

## Elementary

0100 Art

0200 Health

0300 Language Arts

0310 Language

0320 Penmanship

0340 Reading

0350 Spelling

0400 Math

0500 Music

0600 Physical

0700 Science

0800 Social Studies

### Secondary

Agriculture

1000 Agriculture I

#### Art

- 1100 Art 7
- 1105 Art 8
- 1110 Art 1
- 1115 Art II
- 1120 Art III
- 1125 Acrylic Painting
- 1130 Basic Design
- 1135 Ceramics
- 1140 Drawing
- 1145 Printmaking/woodcut
- 1150 Silkscreen painting

#### Business

- 1200 Accounting I
- 1204 Accounting II
- 1208 Business English
- 1212 Business Law
- 1216 Business Math
- 1220 Business Methods
- 1224 Business Machines
- 1228 Calculating Machines
- 1232 Clerical Office Practice
- 1236 Consumer Affairs
- 1240 Duplicating Machines
- 1244 Filing
- 1248 General Business
- 1252 Human Relations in Business
- 1256 Introduction to Business
- 1260 Money Management
- 1264 Office Aide
- 1268 Recordkeeping
- 1272 Shorthand I
- 1276 Shorthand II
- 1280 Typing I
- 1284 Typing 11
- 1288 Typing, Clerical
- 1292 Typing, Production

1296 Typing, Refresher

1298 Typing, Reports/Manuscripts

## Chamorro Language

1300 Chamorro

#### Distributive Education

1400 Distributive Education

## English Language Arts

- 1500 Language Arts 7
- 1503 Language Arts 8
- 1506 Language Arts 9
- 1507 Bilingual Language Arts
- 1512 GTP Language Arts
- 1515 English 10A
- 1518 English 10B
- 1521 English 11
- 1524 English 12
- 1527 Basic Writing
- 1530 Developmental Reading
- 1533 Drama
- 1536 Ethnic/Africa Literature
- 1539 Grammar
- 1542 Individualized Reading
- 1545 Journalism
- 1548 Library Service I
- 1551 Library Service II
- 1554 Literature of the Sea
- 1557 Newspaper
- 1560 Newspaper Use/Mass Media
- 1563 Oral Interpretation
- 1566 Philosophy in Literature
- 1569 Reading Lab
- 1572 Reading Seminar
- 1575 Shakespeare
- 1578 Speech

- 1581 TESOL
- 1584 Words/Words
- 1587 Yearbook

### Foreign Languages

- 1600 French I
- 1601 French II
- 1625 Japanese I
- 1626 Japanese II
- 1627 Japanese III
- 1630 Japanese Caligrophy
- 1650 Spanish I
- 1651 Spanish II

#### Home Economics

- 1700 Home Economics 7
- 1704 Home Economics 8
- 1708 Home Economics I
- 1712 Chamorro Cooking
- 1716 Child Development
- 1720 Clothing
- 1724 Cooking Tools
- 1728 Custom Clothing
- 1732 Family Relations
- 1736 First Aid
- 1740 Foods
- 1744 Foods From Animals
- 1748 Foods From Plants
- 1752 Health & Hygiene
- 1756 Home and Interior
- 1760 Home Crafts
- 1764 Home Nursing
- 1768 Home Skills
- 1772 Human Sexuality
- 1776 Nursing Assistant I
- 1780 Nursing Assistant II
- 1784 Nutrition
- 1788 Personal Adjustment

- 1792 Sewing I Sewing II 1796 Industrial Arts 1800 Industrial Arts 7 1805 Industrial Arts 8 1810 Industrial Arts I
- 1815 Architectural Drawing
- 1820 Drafting I.
- 1825 Drafting II
- Mechanical Drawing 1830
- Metals 1 1835
- 1840 Metals !!
- 1845 Woodworking I
- 1850 Woodworking II

#### Mathematics

- 1900 Math 7
- 1905 Math 8
- 1910 General Math
- 1915 Algebra A/B
- 1920 Algebra I
- 1925 Algebra II
- 1930 Analytic Geometry
- 1935 Banking/Investing
- 1940 Budget/Insurance
- 1945 Career Math
- 1950 Computer Science
- 1955 Elementary Functions
- 1960 Geometry I
- 1965 Geometry II
- 1970 Taxes
- 1975 Trigonometry

#### Music

- 2000 Band, Beginning
- 2005 Band, Intermediate
- 2010 Band, Advanced

- 2015 Band, Concert
- 2020 Band, Stage
- 2025 Chorus, Beginning
- 2030 Chorus, Intermediate
- 2035 Chorus, Advanced
- 2040 General Music
- 2045 Music Symbols

## Physical Education

- 2100 Physical Education 7
- 2103 Physical Education 8
- 2106 Physical Education 9
- 2109 GTP Physical Education
- 2112 Adaptive Physical Education
- 2115 Aerobics (Beginning)
- 2118 Aerobics (Intermediate)
- 2121 Aerobics Dance
- 2124 Aikido (Beginning)
- 2127 Aikido (Intermediate)
- 2130 Archery (Beginning)
- 2133 Archery (Intermediate)
- 2136 Badminton/Table Tennis
- 2139 Basketball (Beginning)
- 2142 Basketball (Intermediate)
- 2145 Bicycling
- 2148 Bowling
- 2151 Bowling (Intermediate)
- 2154 Boxing
- 2157 Creative Dance (Beginning)
- 2160 Creative Dance (Intermediate)
- 2163 Fencing
- 2166 Field Hockey
- 2169 Fitness and Conditioning
- 2172 Flag Football
- 2175 Flag Football/Speedball
- 2178 Football Officiating
- 2181 Folk and Square Dancing (Beginning)

2184 Folk and Square Dancing (Intermediate) 2187 Football 2190 Golf 2193 Gymnastics 2196 Gymnastics (Intermediate) 2199 Gymnastics (Advanced) 2202 Handball/Shuffleboard 2205 Handball/Racketball 2208 Health Hiking and Survival Fitness 2211 2214 Horseback Riding Intramural Planning 2217 Island Dance 2220 Island Dance (Intermediate) 2223 2226 Judo 2229 Physical Conditioning 2232 Physical Education for Elementary 2235 Racketball/Recreation Games (Beginning) 2238 Racketball/Recreation Games (Intermediate) 2241 Recreational Games 2244 Rhythms 2247 Soccer (Beginning) 2250 Soccer (Intermediate) 2253 Soccer (Advanced) 2256 Soccer Officiating 2259 Social Dance (Beginning) 2262 Social Dance (Intermediate) Softball (Beginning) 2265 Softball (Intermediate) 2268 Speedball 2271 2274 Sports Facilities 2277 Swimming (Non) 2280 Swimming (Beginning) 2283 Swimming (Intermediate) 2286 Swimming (Advanced) 2289 Synchronized Swimming 2292 Tennis (Beginning)

2295 Tennis (Intermediate)

- 2298 Tennis (Avanced)
- 2301 Track and Field (Beginning)
- 2304 Track and Field (Intermediate)
- 2307 Theory of Physical Education
- 2310 Tumbling (Beginning)
- 2313 Tumbling (Intermediate)
- 2316 Volleyball (Beginning)
- 2319 Volleyball (Intermediate)
- 2322 Volleyball (Power)
- 2325 Weight Control
- 2328 Weight Training (Beginning)
- 2331 Weight Training (Intermediate)
- 2334 Weight Training (Advanced)
- 2337 Wrestling
- 2340 Yoga (Beginning)
- 2343 Yoga (Intermediate)
- 2346 Physical Education Aide
- 2349 Physical Education Seminar

#### Science

- 2503 Science 7
- 2506 Science 8
- 2609 Science 9
- 2512 GTP Science
- 2515 Air & Space
- 2518 Biology I
- 2521 Biology II
- 2524 Biology, Environmental
- 2527 Biology, Human
- 2530 Biology, Marine
- 2533 Chemistry A
- 2536 Chemistry B
- 2539 Chemistry, General
- 2542 Chemistry, Advanced
- 2545 Earth
- 2548 Electronics I
- 2551 Electronics II

- 2554 Energy Resources
- 2557 Evaluation
- 2560 Experience in Science
- 2563 Human Anatomy & Physiology
- 2566 Natural Science
- 2569 Physical Science, Chemistry
- 2572 Physical Science, Physics
- 2575 Physics
- 2578 Physics, Mechanics
- 2581 Physics, Light & Sound
- 2584 Physics, Magnetism & Power
- 2587 Science, Past & Present
- 2590 Science Seminar

## Social Studies

#### General

- 2610 Social Studies 7
- 2612 Social Studies 8
- 2614 Social Studies 9
- 2616 Honors Social Studies
- 2618 Bilingual Social Studies

#### Anthropology

- 2630 Africas
- 2632 Americas
- 2634 Eurasia
- 2636 S.E. Asia, Oceania, Australia

#### Government

- 2640 Constitutional Government
- 2642 Government & The Consumer
- 2644 Government of Guam
- 2646 International Government

### History

- U.S.
- 2650 Exploration to 1898
- 2652 1898 to Present
- 2654 Guam History

World

2660 Beginning Western Civilization

Indiana or a f

2662 Far East History

2664 Philippines & S.E. Asia

2666 World in Turmoil

Psychology

2670 Psychology

Sociology

2680 Sociology

ROTC

3000 ROTC I

3010 ROTC II

3020 ROTC III

Driver Education

4000 Driver Education

Assistant Streets, Busile intermitted Printer

## Position

2107	Accountant I
2108	Accountant II
2109	Accountant III
2110	Accountant IV
0502	Accounting Clerk
2103	Accounting Technician I
2104	Accounting Technician II
2105	Accounting Technician III
2106	Accounting Technician Supervisor
2004	Administrative Assistant
0319	Administrative Secretary
3247	Administrator, Learning Resources Center
3225	Administrator, Planning-Evaluation Federal Programs
3229	Administrator, Pupil Personnel Services
2174	Administrator, Supply Management
2173	Assistant Administrator, Supply Management
2194	Assistant Director for Financial Affairs
3274	Assistant Director of Multi-Media
3227	Assistant Director, Public Information Office
0520	Assistant Payroll Supervisor
3223	Assistant School Principal (Elementary, Secondary, Special or Career Education)
2422	Assistant Superintendent for Buildings and Grounds
2161	Assistant Superintendent for Food Services
2424	Associate Superintendent, Buildings and Grounds
3236	Associate Superintendent, Curriculum & Instruction
3237	Associate Superintendent, Elementary
3254	Associate Superintendent for Personnel Services
3238	Associate Superintendent Secondary Education
3244	Associate Superintendent Special Education
3285	Attendance Officer I
3286	Attendance Officer II
3287	Attendance Officer Supervisor
7177	Audiometrist

```
Auditor 1
2128
2129
        Auditor II
        Auditor III
2130
2168
        Buyer I
2169
        Buyer II
2170
        Buyer III
2171
        Buyer Supervisor
1008
        Card Punch Operator I
1009
        Card Punch Operator II
1011
        Card Punch Operator III
1012
        Card Punch Operator IV
1013
        Card Punch Operations Supervisor
0003
        Clerk I
0004
        Clerk II
0005
        Clerk III
0006
        Clerk IV
0007
        Clerk V (Supervisor)
0201
        Clerk Typist I
0202
        Clerk Typist II
0204
        Clerk Typist III
0206
        Clerk Typist IV
3004
        Community Development Program Aide I
3006
        Community Development Program Aide II
2185
        Computer System Analyst I
2186
        Computer System Analyst II
2187
        Computer System Analyst III
2188
        Computer System Analyst IV
2189
        Computer System Analyst V
3409
        Coordinator of Library Service and Curriculum
        Materials Center
7131
        Coordinator, School Health Counseling
1034
        Data Control Clerk I
        Data Control Clerk II
1035
1036
        Data Control Clerk III
        Data Control Clerk IV
1037
1038
        Data Control Clerk V
1040
       Data Control Supervisor
3219
        Deputy Superintendent of Education
```

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Employee-Management Relations Office
2193
        General Accounting Supervisor
2109
        Graphic Artist Technician I
3259
        Graphic Artist Technician II
3260
        Graphic Artist Technician III
3261
3262
        Graphic Artist Technician IV
        Head Start Assistant Director
3277
        Head Start Health Coordinator
7180
        Head Start Parent Volunteer Program Coordinator
3280
        Head Start Program Director
3278
        Head Start Teacher Trainee
3276
        JROTC Instructor |
3300
3301
        JROTC Instructor II
3302
        JROTC Instructor III
        JROTC Instructor IV
3303
        JROTC Director of Instructions
3304
3403
        Librarian I
3404
        Librarian II
3405
        Librarian III
        Librarian IV
3406
3407
        Librarian V
3400
        Library Technician |
        Library Technician II
3401
        Library Technician III
3402
        Multi-Media Coordinator
3269
        Multi-Media Maintenance Coordinator
3273
7145
        Nutrition Program Specialist
7122
        Occupational Therapist I
7123
        Occupational Therapist II
        Occupational Therapist III
7124
7125
        Occupational Therapist IV
7119
        Occupational Therapy Aide I
7120
        Occupational Therapy Aide II
        Occupational Therapy Aide III
7121
0521
        Payroll Supervisor
2140
        Personnel Specialist I
```

Personnel Specialist II

2141

```
2142
        Personnel Specialist III
2143
        Personnel Specialist IV
2144
        Personnel Specialist V
7140
        Physical Therapist I
7141
        Physical Therapist II
7142
        Physical Therapist III
7143
        Physical Therapist IV
7155
        Physical Therapy Attendant I
7156
        Physical Therapy Attendant II
7157
        Physical Therapy Technician I
7158
        Physical Therapy Technician II
7159
        Physical Therapy Technician III
2026
        Program Coordinator I
2027
        Program Coordinator II
2028
        Program Coordinator III
3216
        School Aide I
3217
        School Aide II
3218
        School Aide III
3231
        School Consultant in Special Area
7127
        School Health Counselor I
7128
        School Health Counselor II
7129
        School Health Counselor III
7130
        School Health Counselor IV
3222
        School Principal (Elementary, Secondary, Special,
         or Career Education)
3232
        School Program Consultant
3018
        Social Worker 1
3019
        Social Worker II
        Social Worker III
3020
3021
        Social Worker IV
3245
        Special Education Programs Supervisor
         (Deaf & Blind)
7170
        Speech and Language Clinician I
7171
        Speech and Language Clinician II
0603
        Statistical Clerk
0401
        Store Keeper 1
0402
        Store Keeper II
0404
        Store Keeper III
```

Superintendent, Maintenance

2423

```
Teacher I
3201
3202
       Teacher II
       Teacher III
3203
       Teacher IV
3205
        Teacher V
3206
        Teacher VI
3207
0407
        Tool Clerk
        Vocational Instructor
3211
        Warehouse Supervisor |
0414
       Warehouse Supervisor II
0415
        Warehouse Supervisor III
0416
        Warehouse Supervisor IV
0417
        Automotive Mechanic I
9307
        Automotive Mechanic 11
9308
        Automotive Mechanic Leader
9309
9310
        Automotive Mechanic Supervisor
8101
        Building Custodian 1
8102
        Building Custodian II
8103
        Building Custodian Supervisor
9208
        Carpenter I
9209
        Carpenter II
9210
        Carpenter Leader
9211
        Carpenter Supervisor
        Cook's Assistant
8211
8212
        Cook I
        Cook II
8214
        Electrician |
9218
        Electrician II
9219
9220
        Electrician Leader
        Electrician Supervisor
9221
9601
        Equipment Operator 1
9602
        Equipment Operator II
        Equipment Operator III
9603
9605
        Equipment Operator Leader
8203
        Kitchen Helper
        Locksmith I
9365
        Locksmith II
9366
9367
        Locksmith Leader
```

9110	Maintenance Leader
9111	Maintenance Supervisor
9108	Maintenance Worker
9287	Multi-Media Technician I
9288	Multi-Media Technician II
9289	Multi-Media Technician Leader
9356	Office Equipment Repairer I
9357	Office Equipment Repairer II
9358	Office Equipment Repairer Leader
9203	Painter I
9204	Painter II
9205	Painter Leader
9206	Painter Supervisor
9333	Plumber I
9334	Plumber II
9335	Plumber Leader
9336	Plumber Supervisor
9344	Refrigeration Mechanic I
9345	Refrigeration Mechanic II
9347	Refrigeration Mechanic Leader
9346	Refrigeration Mechanic Supervisor
8220	School Cafeteria Manager
9201 .	Trades Helper
9319	Welder I
9320	Welder II
9321	Welder Leader
9322	Welder Supervisor

### Site

A three digit number. For sites with school buildings, the school number will be used as the last two digits of the site number:

102 Untalan Jr.103 Inarajan Jr.etc.

## Structure or Special Area on Site

01	football field
02	baseball field
03	basketball court
04	tennis court
05	track and field area
etc.	

# Method of Site Acquisition

purchase
lease (rent)
loan
gift
exchange
other

## Type of Building

A code for the primary purpose of the building:

### Exterior Walls

- 1 wood
- 2 other masonry
- 3 metal
- 4 panel
- 5 concrete block
- 6 poured concrete
- 7 none
- 9 other

## Floor Framing

- 1 wood framing
- 2 concrete on grade
- 3 wood on steel
- 4 concrete slab on steel framing
- 5 concrete slab on concrete framing
- 6 steel on steel
- 9 other

## Fixed Interior Walls

- 1 wood frame
- 2 masonry
- 3 metai
- 9 other

## Roof framing

- 1 wood
- 2 steel
- 3 concrete
- 9 other

## Roof Membrane

- 1 tar or pitch
- 2 tile
- 3 slate
- 4 metal
- 5 plastic
- 6 wood shingles
- 7 asphalt shingles
- 8 asbestos
- 9 other

# Material in Structural System

- 1 steel
- 2 concrete
- 3 wood
- 9 other

## Type of Space or Room

- 1000 assignable space
- 1100 regular instructional space
- 1200 special instructional space
  - 1201 athletic/physical education
  - 1202 business education
  - 1203 home economics
  - 1204 industrial arts
  - 1205 kindergarten
  - 1206 mathematics laboratory
  - 1207 media-based instructional laboratory
  - 1208 music
  - 1209 planetarium
  - 1210 science
  - 1211 special space for exceptional children
  - 1212 computer/data processing (instructional)
  - 1213 darkroom (instructional)
  - 1214 motion, picture studio (instructional)
  - 1215 radio studio (instructional)

- 1216 sound studio (instructional)
- 1217 television studio (instructional)
- 1299 other special instructional spaces
- 1300 learning resources space
- 1400 multiple purpose space
  - 1410 auditorium
  - 1420 cafeteria
  - 1430 cafetorium
  - 1440 gymnatorium
  - 1450 other multiple-purpose
- 1500 support space
  - 1501 computer/data processing
  - 1502 conference room
  - 1503 dark room
  - 1504 equipment room
  - 1505 health care
  - 1506 maintenance and repair
  - 1507 motion picture studio
  - 1508 office
  - 1509 projection room
  - 1510 radio studio
  - 1511 residential
  - 1512 sound studio
  - 1513 storage
  - 1514 television studio
  - 1515 vehicle storage
  - 1580 general support
  - 1590 other support
- 2000 nonassignable space
  - 2100 circulation
  - 2200 custodial
  - 2300 mechanical
  - 2400 structural

### Equipment Type

000	instructional equipment
100	instructional device
1110	audio device
1120	computer device
1130	graphics device
1140	electronic display device
1150	photographic device
1160	projected display device
1170	physical display device
1180	subject matter related device
118	31 art equipment
118	32 business education equipment
118	33 driver education equipment
118	84 homemaking equipment
113	85 industrial arts equipment
11	86 music equipment
11	87 physical education equipment
113	88 scientific laboratory equipment
11	89 other subject matter related equipment
11	90 other instructional device
1200	recorded instructional materials
1210	audiorecording materials
1220	computer materials
1230	electronic display materials
1240	projected materials
1250	printed/pictorial materials
1260	three-dimensional materials
1270	multi-media kits
1290	other recorded instructional materials
1900	other instructional equipment
2000	other equipment
2100	furniture
2200	machinery and apparatus
2210	hand tools
2220	bench, desk or floor machinery (office)

2230 bench, desk or floor machinery (nonoffice)

2240 heavy construction machinery

2300 vehicle

2900 other

# Equipment Maintenance Schedule

PRODUCTION OF THE SECURITY AND ASSESSED AND ASSESSED ASSESSED.

- 0 none
- 1 annually was the specific control of the second s
- 2 quarterly
  - 3 monthly and the second secon
    - 4 weekly
  - 5 after each use
    - 9 other

#### DATA FILES

The management information system will consist of five major files. One of those files, finance, has already been developed and is maintained by the Department of Administration (DOA). The Department of Education (DOE) will develop and maintain the other four files – students, staff, instructional programs and property. Each major file will consist of primary and secondary subfiles. Primary files are those that apply to all elements of a category. For example, some student information will be stored on every Guam student – name, date of birth, sex, etc. Some items of data, however, only apply to a particular group of students. For example, some data will be stored for students who are in special education but not for the non-special education students. The data specifically for special education students will be stored in a secondary file. Student number will be used to link the primary and secondary student files.

Following are file formats for the primary and some of the secondary files. For each item, the name of the item is provided as well as the amount of reserved storage space and an indication of whether the data is numeric (N) or alphabetic (A).

# Students

Primary student file. The primary student file includes basic current data on all students.

Student						Sex	Racial/Ethnic \$
Number 6N	School 2N	Level 2N	Last 16A	First 10A	Middle 7A	1N	Group ?

<b>E</b>	Date of <						
Spoken by Parents a	t Home	Spoken	by	Student	at	Home	Birth 5
<u> </u>				2N			6N >

Citizenship						Addre		3
Status	Last	First	Middle	P.O.	Box	or St.	Village/City	Zip)
2 1N	16A	10A	7A		15A		15A	5N >

Residential/			Standardized test	$\supset$
		Which Received	Test ID Date Subtest	3
§ 3N	6N 2N	2N or 45A	2N   6N   10A	_>

A	eated 5 tim				ral Status
Score	Type of S	core (Subtest	repeated	Part I	Part II
3 3N	1N	5 times	)	_2N	2N

2		Special Program			ス
Transported	Head Star	Special Education	Title I	Bilingual/Bicultural	3
> 1N	IN	1N	IN	1N	

Withdrawal
Date Type
6N 2N

Secondary Student file - Courses, grades and attendance. This file stores past data on courses taken, grades received and annual attendance. Ther will be one of these records for each year a student is in school.

Student	School Year	Grade	Courses/Grades	(Repeated 8 times)	て
Number	(Last 2 digits)	Level	Course	Grade	5
6N	2N	2N	47	1 <b>A</b>	<u> </u>

1	dance
<b>SDays</b> present	Days absent
<b>&gt;</b> 3n	3n

Secondary Student file - current courses, grades and attendance. This file stores courses taken, grades received and a daily attendance record for the current school year.

Student	Current	Grade	Homeroom	Counselor	Course	Teacher	て
Number	School	Level	Teacher	W =			5
6N	2N	2N	9N	9N =	3N	9N	- 5

9	>		Grade	5		(Course/teacher/grade:					
	1st Q	2nd Q	3rd Q	4th Q	Final	repeated 6 times)	<b>S</b>				
•	) 1A	1A	1A	1A	1A		<u> </u>				

7						Α	tte	n	dai	nc	е									
Day 1	Day 2	Day 3	=.	•	•	•	*	٠	٠	•		٠	•	•	•	•	•	-	Day	180
/ 1N	1N	1N																	11	

Secondary Student file - special education. Records for all special education students will be kept in this file.

			····	<del></del>
Student Spec. Ed.			Transpo	
Number File No.	Scheduled C		mplete Need	
6N 6N	6N	6N -	IN I IN	
>	Resource F	Room Services	Provided	
Comments Reading	Math Lang.	Arts Science		r Visuals
\$ 40A 1N	1N 1N	1N	1N 1N	1N 5
Resource Rm. Svo	rs (Cont )	<del></del>	Program Statu	7
Behavioral Music	Arti Voc Ed	Consultant S	vcs. Consultant	Tchr. Svcs.
\$ 1N 1N	1N 1N	1N		1N {
	***			
Σ	Prog	ram Status (	continued)	
Adaptive P.E. Sp				nerapy }
<u>} 1N</u>	1N	1N	1N	
				(w)
Σ	Program	Status (cont	inued)	
Itenerant Hearing	Interp. Svcs	. Intin. Visi	on Homebound	Hdc.
} 1N	in	1N	1 N	
		7 1	<del></del>	**
<pre></pre>	ogram Status	(Continued)	SVCS >	
5 1N	INGUIL. REG	1N	1N }	
8				
>	Proc	ram Status (	continued)	
Date of last Psyc			e Date of 3-year	r Re-eval.
<u> 6N</u>	<u>  1N</u>	6N	4N (mo. ε	<u>yr.)</u>
	ervices Need	ed But Not P	rovided	
Res. Rm. Cons.	Sycs. Cons.	Tchr. Svcs.	Adaptive P.E.	Speech & Lang.
{ 1N 1N		1N	1N	1N {
<u> </u>				
			rovided (contin	
				s. Itin. Vision
} 1N	1N	1N	1N	
	ervices Need	ed But Not P	rovided (contin	nued)
Homebound Hdc.				
> 1N	1N	1N	1N	1N

Secondary Student files - Other Special Programs. Secondary student files, similar to the special education file, will be established for students in other special programs such as Head Start, Title I and Bilingual/Bicultural. In each case, the student number will be included, followed by data pertinent to the particular special program.

#### Personnel

Primary Personnel file. The primary personnel file includes current data on all staff. Payroll data is not included since that data is already stored as part of the GOA system. It is assumed, however, that the DOE primary personnel file as well as other DOE files can be related to the data in the payroll file.

Social Security		Name			Racial / Ethnic	Date of	Citizenshin /
			Middle	Sex	Background	Birth	Status
9N	16A	10A	_ 7A	1N	2N	6N	1N {

Home A	ddress	Phone	Highest Degree (
3P.O. Box or	St. Village/City Z	p Number	or certificate
\( \sum_{15A}	15A   5	<u> </u>	1N

Educational Institution	Date of	Credit Beyond	Certificate	Certificate (
Name City State Country 5 15A 15A 2A 3A	Degree 4N	Degree 4N	Held 2N	Type \$

Year of	History	Αц	tho	rize	d T	eac	hing	Fi	eld	Job 3
\Expiration	Requirement	1	2	3	4	5	6	7	8	Classification
<u> </u>	1N	2N	2N	2N	2N	2N	2N	2N	2N	3N

School/Dept.	Subj	ect A	reas	Tau	ight
¿Assignment	1	2	3	4	5
<u>&gt; 2N</u>	2N	2N	2N	2N	2N

# Instructional Programs

Primary subject/course file. This file is used to store data on subjects/courses taught in the Guam schools. There is one record for each subject/course. The "credits" field only applies to secondary school courses.

Number	Name	Course Credit
4N	16A	5N

# Property

Primary Site file. This file is used to store site data. There will be one record for each original site and one for each addition.

Number	Addition	Name	Location	Area	Structure	Method of 3
	Number				(Repeated 5 tim	es) Acquisition (
3N	1N	15A	30A	4N	2N	1N \$

Date of	Cost of	
ζAcquisition	Acquisition	Value
56N	8N	8N

Primary Building file. This file is used to store building data. There will be one record for each original building and one for each addition.

	Number	Site	Addition	School or	Building	Type	Student	Date
-		Number	Code	Unit Name	Name		Capacity	Completed 1
Į	4N	3N	1N	15A	15A	2N	4N	6N

Cost of			Book	Replacement	Exterior	Floor (
\Acquisition	Acquisition	Life	Value	Cost	Walls	Framing
\$ 8N	6N	2N	8N	8N	1N	1N \{

5	Interior			Structure		Floor Ar	<del></del>
2	Wails	Framing	Membrane	System	Gross	Assignable	Instruction
3	1N	1N	1N	1N	5N	5N	5N

Floor Are					ibility to Ha		
Learning	Resources	Other	Shelter	Entrance	Instruction	Toilets	Doors
2 5	SN .	5N	5N	1N	1N	1N	1N -

Primary Building Maintenance file. This file will store records of building repair and maintenance.

11 5N 5N 40A
--------------

Primary Building Modification file. This file will be used to store data on building modifications (alterations, renovations, remodeling).

Building	Ordon			
Number	Number	Date	Cost	Description
4N	8N	completed		
		014	6N	40A

Primary Space (Room) file. This file will be used to store data on building spaces (rooms).

Building	Space (Perm)			
Number	Space (Room) Number	Area	Туре	Student
4N	3N	4N	4N	Capacity 4N

Primary Equipment file. This file will be used to store data on equipment.

Tag Inventory Number Number	Туре	Description	Mobility	Serial	Vendor (
12N 8N	4N	30A	1N	Number 12N	15A

Manufacturer	Brand	Model	1			
Manufacturer		Number	(Building)	Date of Acquisition	Cost	Expected
(15A	15A	10A	4N	6N	6N	Life S
						214

Maintenance	Disp		
	Reason	Date:	Method
\$ 1N	1N	6N	1N

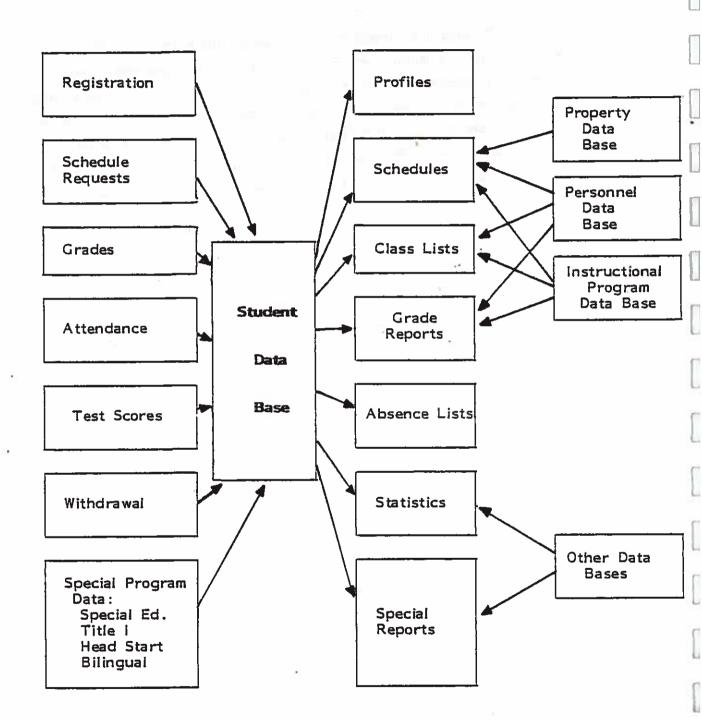
Primary Equipment Maintenance file. This file will be used to store data on equipment repair and maintenance.

Tag Number	Order Number	Date Completed	Cost	Description
12N	8N	6N	4N	40A

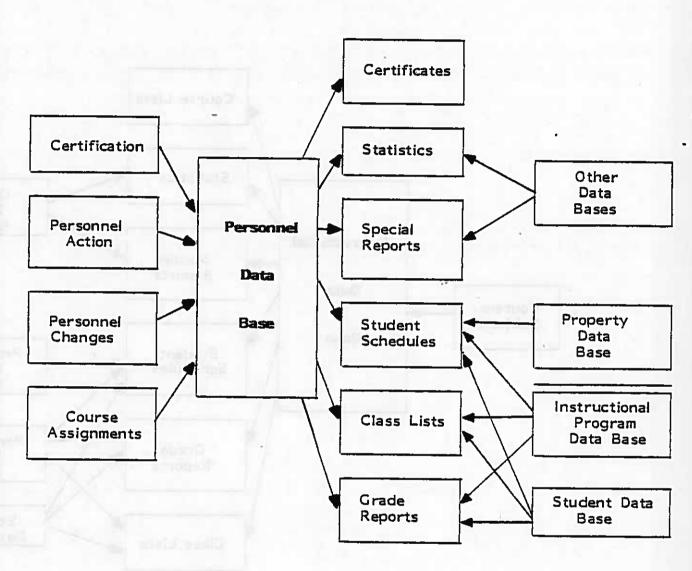
# DATA FLOWS

Following are summary flow charts which illustrate input to and output from the major data files. It is not intended that these flow charts be complete. Rather, they serve to illustrate the relationship between the data base files, input to the files and output from the files. It should be noted that a number of reports will draw from two or more files. Production of student schedules, for example, will make use of the student, personnel and property files.

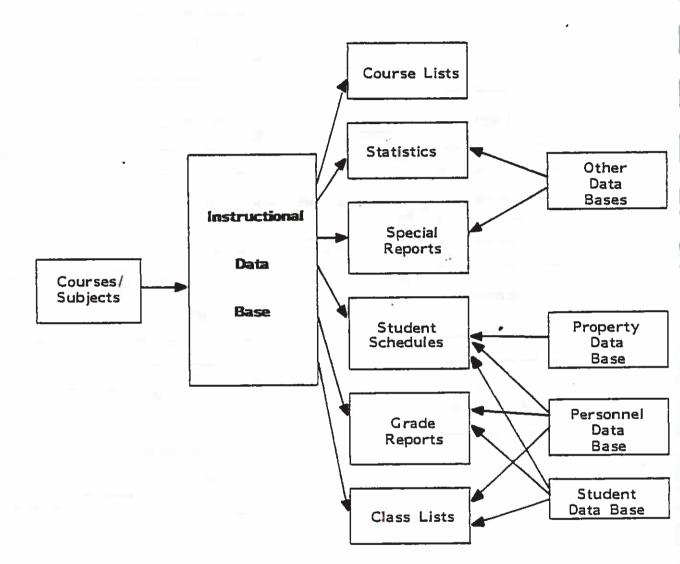
# STUDENT INFORMATION



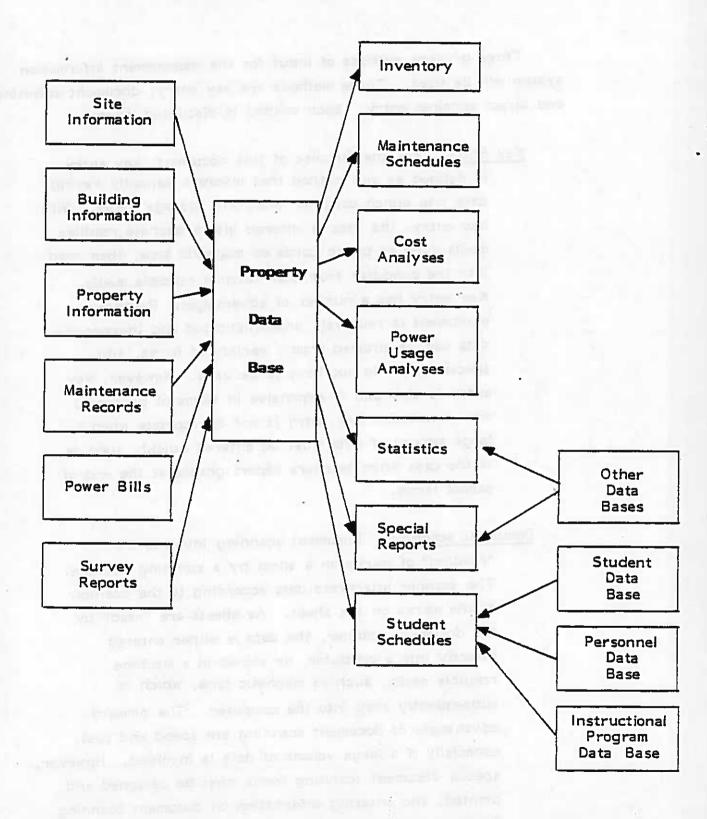
# PERSONNEL INFORMATION



# INSTRUCTIONAL PROGRAM INFORMATION



#### PROPERTY INFORMATION



#### INPUT DOCUMENTS

Three primary methods of input for the management information system will be used. Those methods are key entry, document scanning and direct terminal entry. Each method is discussed below.

Key Entry. For the purpose of this document, key entry is defined as any method that involves manually keying data into punch cards or electronic storage media. With key entry, the data is entered into a machine readible media such as punch cards or magnetic tape, then read into the computer from that machine readible media. Key entry has a number of advantages. Required equipment is relatively unsophisticated and inexpensive, data can be entered from a variety of forms, and special forms do not have to be used. However, key entry is slow and is expensive in terms of personnel time involved. Key entry is not appropriate when a large amount of data must be entered quickly such as is the case when teachers report grades at the end of school terms.

Document scanning. Document scanning involves the "reading" of marks on a sheet by a scanning machine. The scanner interprets data according to the position of the marks on the sheet. As sheets are "read" by the document scanner, the data is either entered directly into a computer, or stored in a machine readible media, such as magnetic tape, which is subsequently read into the computer. The primary advantages of document scanning are speed and cost, especially if a large volume of data is involved. However, special document scanning forms must be designed and printed, and entering information on document scanning forms is sometimes difficult. The best type of data for document scanning is categorical data where the user chooses one item from a list. Names and long numbers

are quite difficult to record on a document scanner form. Good applications of document scanning are recording of grades and responses to test items.

Direct terminal entry. Direct terminal entry involves the entry of data into a computer directly through a computer terminal. This method has a number of advantages. Files can be updated immediately as soon as the data is entered at the terminal. Also, with direct terminal entry it is possible to have built in error and verification checks and thereby improve accuracy. For example, if the operator enters a student number, the computer can immediately look up and display the student name. The operator can then verify that the number entered is correct. If it is not correct, it can be corrected immediately. The computer can also refuse to accept obviously incorrect data and force the operator to make immediate corrections. For example, if the code for student sex must be either 1 or 2, the computer can refuse to accept any entry other than 1 or 2. It is also easy to update data with direct terminal entry because a current record can be displayed on the terminal screen, the operator can change just the data that needs to be changed, and can immediately see the updated record. Direct terminal entry does have some disadvantages, however. Obviously, terminals convenient to users are required, and the computer must be able to interact with the terminals. Also, direct terminal entry can be slow, especially if a large volume of data (such as student grades) is to be entered. And, a reliable method of communication, usually a telephone line, between the terminal and the computer is needed. Finally, the use of direct terminal entry of data is not a highly efficient use of a computer. Part of the capacity of the computer must be devoted to interacting with the terminals.

From the above discussion, it is evident that each method of data input has advantages and disadvantages. For a system as complex as the Guam DOE management information system, it is recommended that all three methods of input be used, with the choice of the method for input depending on the data to be entered. Document scanning should be used when the data is primarily categorical and when the volume of data is high such as in the case of student grades and student testing. Direct terminal entry should be used when updating records and when currency of records is important. Key entry should be used when a terminal is not available and when the data consists largely of names and long numbers.

Whichever method is used, and especially when key entry is used, turnaround documents should be used whenever appropriate. A turnaround document is one on which the computer prints known current data on a form. The user then records only additions or changes. An example of the use of a turnaround document would be a student information form. Once the original data on a student is initially entered (name, number, grade, ethnic background, address, etc.) into the computer files, the computer can print out the information it currently has stored, and those printouts can be distributed to schools. School personnel can then record only changes on those forms. Another example of a turnaround document would be grade reporting where the computer would print teacher name, course name and student names on forms which would be distributed to teachers. The teachers could then just enter grades on those forms. Turnaround documents can be key entry forms, document scanner forms, or can be used in conjunction with direct terminal entry. In general, turnaround documents save time in that the data the computer already has stored does not have to be re-entered.

On the following pages are examples of input forms for the management information system. Included is a suggested student registration and withdrawal form, a turnaround student profile form, and a form designed specifically for key entry of original student data.

#### STUDENT REGISTRATION AND WITHDRAWAL FORM

ECTION A		100	and the same	MI 55 _ 10		
LAST	2	FIRST	3 MIODLE	14 SEX 1 5 GRAD	E 6 BIRTHDA	TE (mg/da/yr)
				F	1	1
Student's Dominant Ethn  01 Chamorro  02 Filipino  03 Micronesian  04 Northern Mariana  05 Other Pacific Isla	06 Chines 07 Korean 08 Japane 09 Vietnar nder 10 Other	e	ucasian 9 Birtho	chool Name and	School Use Only 10 Entry Date 1	e-entry Code Code
ndicate Language used mos me by checking the appro ox for the items below. heck only one language for Language Spoken by Pa Language Spoken by Sto	or each item				Head Start P	a participant in the rogram this year?
5 Citizenship Status (Chec 1 U.S. Citizen 2 Resident Alien (6t 3 1-20 Student 4 Non-resident alien	h preference or Gr	een Card No.		☐ 1 La ☐ 2 53	d income (check ss than 53,000 ,000 to \$4,000 nove \$4,000	only one)
7 Federal Status (Check of employer or where pared on where pared on the pared of t	The state of the	Property) Coast Guard Military Coast Guard Civilian Marine Military Marine Civilian Emplo Other Federal (specif Not federally connect	Employee yee y)	☐1 Live ☐2 Wor ☐3 Bot ☐4 Nor	(check only one a on federal prok on federal prok ilve and work ie of the above	perty
/illage/Area name Jail Official School Noti	Co	de:	House number	and street. Telephone		age/City
Last	G#3 10.	First	Midale		Home	Office
	1			Mailing Addr	P.O. Box o	or Street Village/Cit
Relationship: 🔲 1 fat	her 🗁 mother		□ 4 Other	Other Contac		
WITHDRAW SECTION B This section submitted no longer	AL on must be complete to the Research, P in attendance. SC	ed for any student w lanning and Evaluatio HOOL OFFICE ONLY	MUST COMPLETE T	HIS SECTION!!	sters, is droppe	s form should be d from school or is
22 Reason For Withdrawai	: 23 Withdrawa	Code	New Guam School Co	ode (If applicat	ole)	
24 This student:  — Has completed all THIS FORM IF A transfer to anoth	LL REQUIREMENTS	ent of fees and fines HAVE NOT BEEN CO	and is eligible to to MPLETED! Your si	ce enrolled in an	other public sch form will enable	ooi. DO NOT SIGN the student to
	Principal's Si	gnature			Date	

STUDENT NO. AND NAME			SC	HOOL CODE AND NAME		
DATE:	STU	<b>JDEN</b>	T PROF	ILE		
THE RESERVE			1			SCHOOL YE
		CONTRACTOR OF THE PARTY OF THE	Let a Strate and	NAME OF THE		
STUDENT NO. SCHOOL	, CODE AND NAME		223/2012/2017		MDICATE TYPE OF THE BY CHECKING APPHOP AT LEFT.	ANSACTION BLATE BOX
	DENOMINE DE	<b>可以附近的数据数</b>			P. RECOILD ADDITIONS OF EACH DATA AREA	T BOTTOM
STUDENT NAME		BIRTIIDAYE	SEX GRADE YR OF GRAD			HITE THE
	THE COURSE STEEL					
STREET ADDRESS	CITY AN	ID STATE	ZIP CODE	HOME TELEPHO	NE (	2)
	THE PROPERTY OF THE PARTY OF TH	IN CASE OF EME	RGENCY	OF THE PERSON AND ADDRESS.		
PARENT/GUARDIAN NAME	For Engineering	EMERGENCY CONTAC		TELEP	HONE	
				10/2 T		
HOMEROOM INSTRUCTOR		COUNSELOR		MISCELLANEO	OUS INFORMATION	
		TENED RESTRICT				1761
NO. NAME	HOMEROOM	NO. NAME		MISC. 1	MISC 2	
ENROLLMENT					NEXTY	EAR
CODE ENTRY DATE CODE		र्गा स्ट्री स्ट्राप्ट			Market States	至 清經數
CODE ENTRY DATE CODE	RE ENTRY DATE CO	DE WITHDRAWAL D	ATE CODE SPEC. ED. STAI	RT DATE RESIDENCE	TRANSP. GRADE	SCHOOL

1

- You may want to remove this information if you are not using these forms as a turnaround document.
- This is where the ethnic code may be entered manually; the ethnic code will never be printed. If you are using this form for a turnaround document, you may want to record the student's ethnic code here.

# STUDENT MASTER

RO CMI		RT CM	D 3
(STUNO)	Student number	(STUNO)	Student number
(SHNAM)	Short name	(SHNAM)	Short name
(UCODE)	User activity code	(ONIRH)	Homeroom instructor
(CSCNO)	Current school number	(CNSNO)	Counselor number
(STUNM)	Student name	(USER1)	User field 1
(BIRTH)	Birth date	(USER2)	User field 2
(SEXID)	Sex :	(ENTCD)	Entry code
(CURGL)	Current grade level	(ENDTE)	Entry date
(GRADY)	Year of graduation Street	(SEDCD)	Special education code
(STAD1)	address	(SEDTE)	Special education date
(ZIPCD)	Zip code	(DORCD)	District of residence
(HOMAC)	Home phone area code	(TRNSP)	Transportation code
(НОМРН)	Home phone	(NGDLV)	Next grade level
(ETHCD)	Ethnic code	(NSCNO)	Next school number
(ACSDT)	Attendance category start date	(PRILV)	Priority level
		(ACSDT)	Attendance category start date
RR CM			
(STUNO)	Student number		
(SHNAM)	Short name		
(PARNM)	Parent or guardi	ian	
(EMRNM)	Emergency nam	18	•
(EMRAC)	Emergency phone area code		
(EMRPH)	Emergency phone		

#### **Printed Output**

The Mark Reporting Turnaround Document is printed by marking period upon request. The document is distributed to instructors, who in turn enter the student marks and return the document for entry. Every student on the document must have a mark or marks entered, even if the student no longer is in the course/section.

GAIG- 10/1777 EMOLS	1977-70		ting turnsage			P1G2-
CUREENS MARRING PERIOD	L 490H 1/29	/77 10 10/	11/T7 TEA	H 1		
COURSE NAME CODE	SECT ENSTRUCTO		RUCTOR PRÉF			
mafir 1 MAGE	OL STEWART.	304460 5	OL			
Phor THSDUTZ	STUDENT PRO HUMBER HARR	GRESS FIN	AL COMMENTS	-	T4407 CREDITS	
BURKE, ARTHUR E	500010				- 5.000	
CASPER CHARLES	100130				- 5.000	
COMMOV WARCIA Ja-	500040				5-000	
CRAMPORD FIRE D	100010				- 1.000	
BEDRICH CARDL 3	100000				5.000	
FLOWERS ROMALD L.	1000+0	-			\$.000	
JOHNSON LISA R.	100120				1.300	
MCCORNICX SHERRY J.	500100,				- 5.000	
ACTEMELL CRAIG F.	500170				- 1-000	
SMETH PEGGY A.	100200				- 1.00a	

#### **FUTURE CONSIDERATIONS**

The plans for and design of a data base presented in this document is another step in the development of a Guam DOE Management Information System. But, it should be remembered, it is only a beginning. The implementation of the management information system will require a great deal of time, effort and financial support. Implementation of the management information system will affect all departments and schools and will require effort and cooperation on the part of many persons. Forms and procedures, for example, will need to be standardized among departments and schools. Personnel will need to develop and implement the standard forms and procedures.

Essential to the development and implementation of the management information system will be the employment of an adequate data processing staff. Without adequate staff the management information system cannot be developed and implemented, and the money spent for hardware and software will have been wasted.

Another essential prerequisite to the successful implementation of a management information system is user training. An information system cannot be successful unless users are properly trained to use the system. Training for users of applications should go hand in hand with the implementation of those applications. Training should involve both administrators who will use the systems as well as clerks who will provide input to and interact with the systems. Thus, DOE will need to plan and schedule training activities, and budget for those activies.

With a data base approach to a management system, the data elements, definitions and codes are the heart of the system. It is essential that all departments, schools and personnel use the same definitions and codes. That should be carefully monitored. Any changes to the basic data base structure should be very carefully considered. It is suggested that a master data dictionary (including data elements, definitions and codes) be kept, changes made only upon approval at a high level, and users be notified of any changes.

# STUDENT ACCOUNTING HANDBOOK

Prepared for Guam Department of Education

By:

Raiph Van Dusseldorp, Ph.D. WEO Systems, Inc. 4816 S.W. Shattuk Road Portland, OR 97221

# Student Accounting Handbook

# Table of Contents

Section	
	Page
Data Base I	tems 1
Data Files	
Data Flow	******
	16

This handbook includes data elements, definitions, coding systems, file layouts and a general flow chart for the management information system student data base. Additional information concerning the management information system will be found in the document Analysis of the Guam Department of Education Data Processing Needs and Design of Management Information Data Files, Codes and Definitions, Ralph Van Dusseldorp, 1980.

#### STUDENT DATA BASE ITEMS

(C) <u>Legal Name</u> The full legal name of the student including last name, first name, middle name and any appendage such as Jr. or III.

33 characters

16 last and appendage

10 first

7 middle

- (L) Any Other Name Any name, other than the legal name, by which the student is known.
- (C) Student Number The number assigned by the school system for identification and recordkeeping purposes. A six digit number will be used. The first two digits will be the code for the first Guam public school entered by the student. The last four digits will be assigned in sequence. Thus, the first student assigned a number by Inarajan Elementary School will have the number 190001, the second 190002, etc. A student will always keep the assigned number and will not be assigned a new number when transferring from one Guam school to another.

6 characters

XXXXXX

(C) <u>Sex</u>

1 character

1 male

2 female

(C) Racial/Ethnic Group The student's general racial or ethnic heritage.

2 characters

01 Chamorro

02 Filipino

03 Micronesian

04 Northern Marianas

05 Other Pacific Islander

06 Chinese

- 07 Japanese
- 08 Korean
- 09 Vietnamese
- 10 Other Asian
- 11 American Indian
- 12 Black
- 13 Hispanic
- 14 White Caucasian
- 15 Other

# (C) Language Spoken by Parents at Home

#### 2 characters

- 01 Cantonese
- 02 Chamorro
- 03 English
- 04 Ilocano
- 05 Japanese
- 06 Korean
- 07 Mandarin
- 08 Tagalog
- 09 Trust Territory
- 10 Vietnamese
- 11 Visayan
- 12 Other

#### (C) Language Spoken by Student at Home

#### 2 characters

- 01 Cantonese
- 02 Chamorro
- 03 English
- 04 llocano
- 05 Japanese
- 06 Korean
- 07 Mandarin
- 08 Tagalog
- 09 Trust Territory
- 10 Vietnamese
- 11 Visayan
- 12 046-

(C) Date of Birth The month, day and year of the student's birth.
6 characters

MM DD YY

(L) Evidence Verifying Date of Birth The type of evidence by which the student's date of birth is verified.

#### 1 character

- 1 Birth certificate
- 2 Hospital certificate
- 3 Physician certificate
- . 4 Baptismal or church certificate
  - 5 Parent's affidavit
  - 6 Entry in family bible
  - 7 Passport
- 8 Previously verified school record
- 9 Other
- (C) Citizenship Status The U.S. citizenship status of the student.

  1 character
  - 1 U.S. Citizen
  - 2 Resident Alien (6th preference or green card)
  - 3 I-20 Student
  - 4 Non-resident Alien
- (C) Responsible Adult Name of adult to whom official school notices are to be sent.

33 characters

16 last

10 first .

7 middle

- (C) Relationship of Responsible Adult to Student
  - 1 character
    - 1 father
    - 2 mother
    - 3 guardian
    - 4 other

(C) Mailing Address of Responsible Adult

35 characters

15 P.O. Box or Street Address

15 Village/City

5 Zip Code

(C) Home Telephone Number of Responsible Adult

7 characters

**XXXXXXX** 

(C) Work Telephone Number of Responsible Adult

7 characters

XXXXXX

(C) Address of Student

30 characters

15 Street Address

15 Village/City

(C) Residential/Village area in which student lives

3 characters

001 Adelup

002 Afame, Sinajana

\_

143 Y-Pao Pao

- (L) Person(s) to be Notified in Case of Emergency The name, relationship, address and telephone number(s) of individual(s) designated as person(s) to be notified in case of emergency.
- (C) <u>First Entry Date</u> The date of the student's first entry into the Guam public school system.

6 characters

MM DD YY

(C) <u>Current Entry Date</u> The date on which a student enters a school during the current year.

6 characters MM DD YY

# (C) Type of Entry

1 character

#### Entry

1 Original Entry - A student who for the first time during the current school year enters any public or private school anywhere.

At the beginning of the school year, all students are original entries. After the beginning of school, the only original entries are those students who have not enrolled in another school during the current year. All incoming students who have had enrolled in another school are re-entries.

# Re-Entry

2 Re-entry from another public school in Guam -A student received from another Guam public school which he or she entered earlier in the current school year.

For example, if a student begins the school year in Agat Elementary then transfers to Yigo Elementary the student is a (2) when entering Yigo. However, if that student enrolled in a Guam private school between the time of withdrawing from Agat and entering Yigo, the student would be a (3) upon entry into Yigo. As another example, if a student withdrew from Agat Elementary during the school year, attended a school in California for a while, then entered Yigo

Elementary, that student would be a (4). Only students who transfer directly from another Guam public school are (2)'s.

- A student received from a non-public school in Guam A student received from a non-public school
  in Guam which he or she entered earlier in
  the school year. Thus, a student who first
  enrolls in St. Johns Elementary then transfers
  to Price Elementary, is a (3) re-entry for
  Price Elementary.
- 4 Re-entry from a school outside Guam A student received from a school outside Guam which he or she entered earlier in the school year.

  Thus, a student who begins the school year in a school in Hawaii, then transfers to Andersen Elementary, would be a (4) re-entry for Andersen.
- or Expulsion A student who returns to the Guam Public School system after withdrawal or expulsion from a Guam Public School. Thus, a student who begins the year in Johnston Junior High, transfers to a school outside Guam or a private Guam school, then enters Dededo Junior High, is a (5) re-entry for Dededo.
- (C) <u>School From Which Received</u> The school last attended before the current one.

If a public or private school in Guam, the code for that school will be entered:

2 characters

00 if first school

51 Academy

10 Adelup

52 Bishop Baumgartner

09 Voc. Tech. Sr.

99 Off-island

(C) School Entered The code for the school in which the student is currently enrolled.

2 characters

10 Adelup

11 Agana Heights

08 S. Sanchez Jr.

09 Voc. Tech. Sr.

(C) Standardized test(s) taken Code number for test.

2 characters

xx

(C) Test date(s) Date test was taken.

6 characters

MM DD YY

(C) <u>Test part</u> Identification of subtest.

10 characters

XXXXXXXXX

(C) <u>Test score(s)</u> Student's score on test(s).

3 characters

XXX

(C) Type of score(s) The type of score recorded (e.g., percentile rank, grade equivalent, etc.)

1 character

1 grade equivalent

2 percentile rank

3 stanine

4 NCE

5 raw score

6 standard score

9 other

(C) <u>Transportation Status</u> Indication of whether the student is transported to school by bus.

1 character

0 no

1 yes

#### (C) Federal Status of Parents

#### Part I

#### 2 characters

- 01 Navy military
- 02 Navy civilian employee
- 03 Air Force military
- 04 Air Force civilian employee
- 05 Army military
- 06 Army civilian employee
- 07 Coast Guard military
- 08 Coast Guard civilian employee
- 09 Marine military
- 10 Marine civilian employee
- 11 Other federal
- 19 Not federally connected

#### Part II Parent:

#### 1 character

- 1 Lives on federal property
- 2 Works on federal property
- 3 Lives and works on federal property
- 4 None of the above-

#### (C) Head Start Status

- 1 character
  - 0 Student not in Head Start
  - 1 Student in Head Start

#### (C) Special Education Status

#### 1 character

- 0 Student not in Special Education
- 1 Student in Special Education

#### (C) Title | Status

1 character

- 0 Student not in Title I
- 1 Student in Title I

#### (C) Bilingual/Bicultural Status

1 character

- 0 Student not in Bilingual/Bicultural Program
- 1 Student in Bilingual/Bicultural Program
- (C) Grade The current grade level of the student.

2 characters

- 14 Prekindergarten
- 15 Kindergarten
- 01 First grade

12 Twelfth grade

20 Unassigned grade level

(C) <u>Courses</u> The code number for each class or course to which the student is assigned. See Instructional Program for list of codes.

3 characters

XXX

(C) <u>Teachers</u> The code number for the teacher responsible for each course or class to which the student is assigned. Same code number as for staff accounting.

9 characters

XXXXXXXX

(C) Room Numbers The code number for each room the student is assigned for each course or class. Same code number as for property accounting.

3 characters

(C) <u>Period</u> The period number of each course or class to which the student is assigned.

2 characters

XX

(C) <u>Grades Received</u> The grade received for each course or class taken.

1 character

×

(C) <u>Counselor</u> The code number of the counselor to whom the student is assigned. Same code number as for staff accounting.

9 characters

#### xxxxxxxx

(C) <u>Homeroom Teacher</u> The code number of the homeroom or first period teacher to whom the student is assigned. Same code number as for staff accounting.

9 characters

**XXXXXXXX** 

(C) <u>Days Absent</u> Days on which the student was absent from school. 180 characters (1 character per day)

0 absent

1 present

(C) <u>Date of Withdrawal</u> The date on which the student is withdrawn (transfer, dropout, graduated, expelled)

6 characters

MM DD YY

(C) Type of Withdrawal

2 characters

Transfers - A student who leaves one school and enters another school is a "transfer". Each student who transfers from one school to another during the school year is identified with designation below.

- 11 Transferred to another public school in Guam.
- 12 Transferred to a non-public school in Guam
- 13 Transferred to Guam Vocational High School
- 14 Committed to a correctional institution
- 15 Moved from Guam, military dependent
- 16 Moved from Guam, civilian dependent

#### Completion of School Work

21 Graduated from high school - The student has completed the necessary work to meet graduation requirements and is no longer in attendance

#### Expulsion

31 Expelled - the student has been expelled from school

#### Deceased

41 Deceased - the student is deceased

# Dropout - The student is no longer enrolled in any school

- 51 Voluntary withdrawal due to inability to adjust to school
- 52 Marriage
- 53 Probable employment
- 54 Verified employment
- 55 Needed at home
- 56 Pregnancy (without doctor's certification)
- 57 Pregnancy (with doctor's certification)
- 58 Other physical/medical reason (with doctor's certification)
- 59 Other physical/medical reason (without doctor's certification)

#### Unknown

70 Unknown - the whereabouts of the student is unknown

# STUDENT DATA FILES

Primary student file. The primary student file includes basic current data on all students.

	Student	Current	Grade		Name	_	Sex	Racial/Ethnic	3
ļ	Number	School	Level	Last	First	Middle	1 N	Group	ζ
	, 6N	2N	2N	16A	_10A	7A	-	2N	3

	nguage			Date of $\zeta$
Spoken by Parents at Ho	ne Spoken by	y Student at	Home	Birth \$
2N		<u> 2N</u>		6N >

Citizenship	Par	ent Na	ame		ling				
Status	Last	First	Middle	P.O.	Box	or	St.	Village/City	Zip)
) IN	16A	10A	7A	9	15A			15A	5N >

Residential/	En		School		Stand				$\supseteq$
Village Area	Date	Type	Which	Received	Test	ΙD	Date	Subtest	
3 3N	6N	2N	2N_	or 45A	2N		6N	10A	_>

	eated 5 times	-		al Status
Score	Type of Score	(Subtest repeated	Part I	Part II
3 3N	1N	5 times)	2N	<u> 2N                                   </u>

>			Specia	al Program	Status	
Transported	Head	Start	Special	Education	Title I	Bilingual/Bicultural
<b>3</b> in	1N		- 6	1N	1N	1N

Withdrawal
Date Type
6N 2N

Secondary Student file - Courses, grades and attendance. This file stores past data on courses taken, grades received and annual attendance. Ther will be one of these records for each year a student is in school.

					(Repeated 8 times)	マ
1	Number	(Last 2 digits)	Level	Course	Grade	5
	6N	2N	2N	4 N	1A	_{

3		dance
ζDays	present	Days absent
>	3n	3n

Secondary Student file - current courses, grades and attendance. This file stores courses taken, grades received and a daily attendance record for the current school year.

Student	Current	Grade	Homeroom	Counselor	Course	Teacher	て
Number	School	Level	Teacher	DIFFE.			5
5N	2N	2N	9N	9N	3N	9N	_ {

Σ		Grade	_		(Course/teacher/grades	7
∑ist Q	2nd Q	3rd Q	4th Q	Final	repeated 6 times)	3
2 1A	1A	1A	1A	1A	ATT STORY OF THE STORY	>

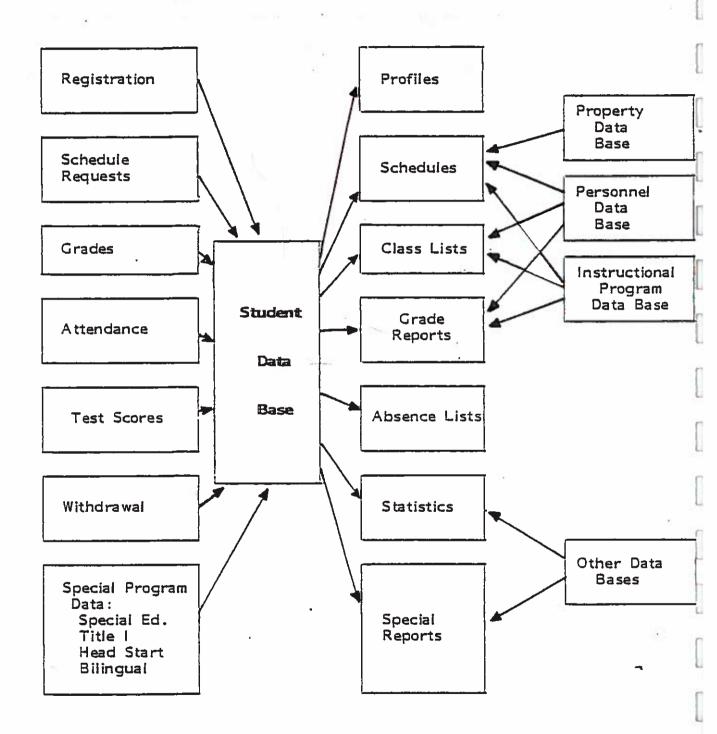
Σ					İ	П	Α	tte	ene	da	nc	e							
Day 1	Day	2	Day	3		•		•	•				•	•		•	٠	Day	180
7 1N	1N	1	1N				П	П										11	Į .

Secondary Student file - special education. Records for all special education students will be kept in this file.

Resource Rm. Svcs. (Cont.)   Program Status   Behavioral Music Art Voc.Ed. Consultant Svcs.   Consultant Tchr. Sv. 1N	
Resource Room Services Provided  Comments Reading Math Lang.Arts Science Soc. Stu. Motor Visual 140A 1N 1N 1N 1N 1N 1N 1N 1N 1N 1N 1N 1N 1N	
Resource Room Services Provided    Reading   Math   Lang.Arts   Science   Soc. Stu.   Motor   Visual   10   10   10   10   10   10   10   1	
Resource Rm. Svcs. (Cont.)   Program Status   Resource Rm. Svcs. (Cont.)   Program Status   Resource Rm. Svcs. (Cont.)   Program Status   Rehavioral Music Art   Voc.Ed.   Consultant Svcs.   Consultant Tchr. Sv.   IN	
Resource Rm. Svcs. (Cont.)   Program Status   Resource Rm. Svcs. (Cont.)   Program Status   Resource Rm. Svcs. (Cont.)   Program Status   Rehavioral Music Art   Voc.Ed.   Consultant Svcs.   Consultant Tchr. Sv.   IN	
Resource Rm. Svcs. (Cont.)   Program Status   Resource Rm. Svcs. (Cont.)   Program Status   Rehavioral Music Art Voc.Ed. Consultant Svcs.   Consultant Tchr. Sv. IN	
Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  In In In In In In In In In In In In In I	
Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  Program Status (continued)  In In In In In In In In In In In In In I	1.0
Program Status (continued)  Adaptive P.E. Speech & Lang. Physical Therapy Occup. Therapy IN IN IN IN IN IN IN IN IN IN IN IN IN	
Program Status (continued)  Adaptive P.E. Speech & Lang. Physical Therapy Occup. Therapy  1N 1N 1N 1N 1N  Program Status (continued)  Itenerant Hearing Interp. Svcs. Intin. Vision Homebound Hdc.  1N 1N 1N 1N  Program Status (continued)  Homebound Hosp. Nutrit. Reg. Classrm. Couns. Svcs.  1N 1N 1N 1N  Program Status (continued)  Adaptive P.E. Speech & Lang. Physical Therapy Occup. Therapy Occup	/C5,-
Program Status (continued)  Program Status (continued)  IN 1N	
Program Status (continued)  Program Status (continued)  IN IN IN IN IN IN IN IN IN IN IN IN IN I	,
Program Status (continued)  tenerant Hearing Interp. Svcs. Intin. Vision Homebound Hdc.  1N 1N 1N 1N 1N  Program Status (continued)  Nutrit. Reg. Classrm. Couns. Svcs.  1N 1N 1N 1N  Program Status (continued)  Homebound Hosp. Nutrit. Reg. Classrm. Couns. Svcs.  1N 1N 1N 1N 1N  Program Status (continued)  And And And And And And And And And And	<b>&gt;</b>
Program Status (continued)   Homebound Homebound Homebound Hosp.   Nutrit.   Reg. Classrm.   Couns. Svcs.   1N	§.
Program Status (continued)    And   And   And   And   And   And	-
Program Status (continued)   Homebound Homebound Homebound Hosp.   Nutrit.   Reg. Classrm.   Couns. Svcs.   1N	
Program Status (continued) Homebound Hosp. Nutrit. Reg. Classrm. Couns. Svcs.  1N 1N 1N 1N 1N  Program Status (continued)  Program Status (continued)  Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Program Status (continued)  Program Status (continued)  Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Program Status (continued)  Program Status (continued)  Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Program Status (continued)  Program Status (continued)  Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Program Status (continued)  Program Status (continued)  Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	
Date of last Psych. Test Status Status Date Date of 3-year Re-eval 6N 1N 6N 4N (mo. & yr.)  Services Needed But Not Provided	マ
Services Needed But Not Provided	-ζ
Services Needed But Not Provided  Res. Rm.   Cons. Sycs.   Cons. Tchr. Sycs.   Adaptive P.E.   Speech &	ک_
Services Needed But Not Provided Res. Rm.   Cons. Sycs.   Cons. Tchr. Sycs.   Adaptive P.E.   Speech &	
Res. Rm. Cons. Svcs.  Cons. Tchr. Svcs. Adaptive P.E. Speech &	
	Lan
1N 1N 1N 1N 1N	
Services Needed But Not Provided (continued)	<del>,</del>
Phys. Therapy Occup. Therapy Itin. Hearing Interp. Svcs. Itin. V 1N 1N 1N 1N 1N	
117 117 117	
Services Needed But Not Provided (continued)	V
Homebound Hdc. Homebound Hosp. Nutrit. Reg. Classrm. Couns. S 1N 1N 1N 1N 1N	vcs.

Secondary Student files - Other Special Programs. Secondary student files, similar to the special education file, will be established for students in other special programs such as Head Start, Title I and Bilingual/Bicultural. In each case, the student number will be included, followed by data pertinent to the particular special program.

#### STUDENT DATA FLOW



## PERSONNEL ACCOUNTING HANDBOOK

Prepared for Guam Department of Education

By:

Ralph Van Dusseldorp, Ph.D. WEO Systems, Inc. 4816 S.W. Shattuk Road Portland, OR 97221

### Personnel Accounting Handbook

### Table of Contents

_	ction = 1-50 line memory richmonoline disapplinam	Page
Data	Base Items	1
	Files	8
Data	Flow	9

This handbook includes data elements, definitions, coding systems, file layouts and a general flow chart for the management information system personnel data base. Additional information concerning the management information system will be found in the document Analysis of the Guam Department of Education Data Processing Needs and Design of Management Information Data Files, Codes and Definitions, Ralph Van Dusseldorp, 1980.

#### 1

#### PERSONNEL DATA BASE ITEMS

(C) Name The full legal name of the staff member including last name, first name, middle name, and any appendage such as Jr. or III.

33 characters

16 last and appendage

10 first

7 middle

(C) Social security number

9 characters

XXXXXXXX

(C) <u>Sex</u>

1 character

1 male

2 female

(C) Racial/Ethnic background The staff member's general racial or ethnic heritage.

2 characters

01 Chamorro

02 Filipino

03 Micronesian

04 Northern Marianas

05 Other Pacific Islander

06 Chinese

07 Japanese

08 Korean

09 Vietnamese

10 Other Asian

11 American Indian

12 Black

13 Hispanic

14 White Caucasian

15 Other

#### (C) Date of Birth

6 characters

MM DD YY

#### (C) Citizenship status

1 character

1 U.S. Citizen

2 Resident Alien (6th preference or green card)

4 Non-Resident Alien

#### (C) Home Address

35 characters

15 P.O. Box or Street Address

15 Village/City

5 Zip Code

#### (C) Home Telephone Number

7 characters

xxxxxxx

#### (L) Person to be notified in case of emergency

57 characters

20 name

30 address

7 phone number

#### (C) Highest degree or certificate earned

1 character

0 none

1 GED

2 high school diploma

3 technical certificate

4 associate degree

5 bachelor's degree

6 professional degree

7 intermediate degree (Ed.S.)

8 doctorate

## (C) Name and place of educational institution at which highest degree was earned

35 characters

15 name of institution

15 city

2 state (use U.S. state codes)

3 country code (from USOE handbook)

#### (C) Date highest degree awarded

4 characters

MM YY

(C) <u>Credit earned beyond highest degree</u> The semester hours of credit earned beyond the highest degree. Quarter hours should be converted to semester hours by multiplying by 2/3.

3 characters

XXX

(L) Other educational institutions attended Name and place, degree earned and date degree earned of each educational institution attended.

#### (C) Certificate held

2 characters

00 none

01 elementary

02 secondary

03 vocational

04 special education

05 school librarian

06 school health counselor

07 guidance and counseling

08 school psychologist

09 administration and supervision

10 school program consultant

11 school psychometrist

99 other

#### (C) Type of certificate

- 1 character
  - 1 emergency
  - 2 provisional
  - 3 standard
  - 4 professional I
  - 5 professional II
  - 6 professional III
- (C) Year of expiration Last two digits of the year certificate expires.

  2 characters

хx

- (C) <u>History requirement fulfilled</u> Indication of whether the requirement for study of the history or culture of Guam is fulfilled.
  - 1 character
    - 0 no
    - 1 yes
- (C.) <u>Authorized teaching fields</u> Subject areas the staff member is approved to teach.
  - 2 characters
    - 10 Art
    - 15 Agriculture
    - 20 Business
      - 21 Typing
      - 22 Business Math
      - 23 Shorthand
    - 25 Driver Education
    - 30 Foreign Language
      - 31 French
      - 32 Japanese
      - 33 Spanish
    - 35 Health & Physical Education
    - 40 Homemaking
    - 45 Industrial Arts

- 50 Language Arts
  - 51 English
  - 52 Speech
  - 53 Journalism
  - 54 Literature
  - 55 Drama
  - 56 Reading
- 57 TESOL
  - 60 Mathematics
    - 65 Music
    - 70 Science
      - 71 General Science
    - 80 Social Studies
      - 81 World History
      - 82 Modern or Contemporary problems
      - 83 Psychology
      - 84 Geography
      - 85 Civics
      - 86 American Government
- (L) <u>Prior experience</u> Work experience prior to employment by the Guam DOE.
- (L) Experience with Guam DOE prior to current assignment Work experience for the Guam DOE prior to current assignment.
- (C) <u>Job Classification</u> The Guam position code for the current work assignment.
  - 4 characters

2107 Accountant I

9606 Welder Supervisor

- (C) <u>School/department assignment</u> The school or department to which the staff member is currently assigned.
  - 2 characters
    - 10 Adelup
    - 11 Agana Heights
    - etc.
- (C) <u>Subject matter areas</u> The subject matter areas the staff member is currently assigned to teach. Same codes as authorized teaching fields above.
  - 2 characters
    - 10 Art
    - 15 Agriculture
    - 20 Business
      - 21 Typing
      - 22 Business Math
      - 23 Shorthand
    - 25 Driver Education
    - 30 Foreign Language
      - 31 French
      - 32 Japanese
      - 33 Spanish
    - 35 Health & Physical Education
    - 40 Homemaking
    - 45 Industrial Arts
    - 50 Language Arts
      - 51 English
      - 52 Speech
      - 53 Journalism
      - 54 Literature
      - 55 Drama
      - 56 Reading
      - 57 TESOL
    - 60 Mathematics
    - 65 Music
    - 70 Science
      - 71 General Science

- 80 Social Studies
  - 81 World History
  - 82 Modern or Contemporary problems
- 83 Psychology
  - 84 Geography
  - 85 Civics
- 86 American Government

#### PERSONNEL DATA FILES

Primary Personnel file. The primary personnel file includes current data on all staff. Payroll data is not included since that data is already stored as part of the GOA system. It is assumed, however, that the DOE primary personnel file as well as other DOE files can be related to the data in the payroll file.

Social Security					Racial / Ethnic		Citizenship		
Number	Last	First	Middle	Sex	Background	Birth	Status \$		
9N	16A	10A	7A	1N	2N	6N	1N {		

Σ_	Home Address					Highest		3
<b>₹₽.</b> €	). Box or	St.	Village/City	Zip	Number	or cert	ificate	٤
5	15A		15A	5N	7N	11	1	5

Edu	cation	al ins	titution	Date of	Credit Beyond	Certificate	Certificate	ζ
⟨Name	City	State	Country	Degree	Degree	Held	Type '	5
	_15A	ZA _	3A	4N	4N	2N	1N.	3

Year of	History									
<b>₹Expiration</b>	Requirement	1	, 2	3	4	5	6	7	8	Classification (
5 2N	1N	2N	2N	2N	2N	2N	2N	2N	2N	Classification 3

School/Dept.	Subj	ect /	reas	Tau	ght
<b>Assignment</b>	1	2	3	4	5
3 <u>2</u> N	2N	2N	2N.	2N	2N

## INSTRUCTIONAL PROGRAM ACCOUNTING HANDBOOK

Prepared for
Guam Department of Education

By:

Raiph Van Dusseldorp, Ph.D. WEO Systems, Inc. 4816 S.W. Shattuk Road Portland, OR 97221 This handbook includes data elements, definitions, coding systems, file layouts and a general flow chart for the management information system instructional program data base. Additional information concerning the management information system will be found in the document Analysis of the Guam Department of Education Data Processing Needs and Design of Management Information Data Files, Codes and Definitions, Ralph Van Dusseldorp, 1980.

## Instructional Program Accounting Handbook

### Table of Contents

<u>Se</u>	ection	Page
Data	Base items	1
Data	Files	10
Data	Flow	11

SUPERING IN SOC

## INSTRUCTIONAL PROGRAM DATA BASE ITEMS

1

The instructional program file will include the names and code numbers for all courses taught in Guam elementary, junior and senior high schools. A four digit number is used to designate each course.

```
Elementary
 0100 Art
 0200 Health
 0300
      Language Arts
      0310
           Language
      0320
           Penmanship
      0340
           Reading
      0350
           Spelling
0400 Math
0500 Music
0600 Physical
0700 Science
0800 Social Studies
```

### Secondary

Agriculture

1000 Agriculture I

Art

1100 Art 7

1105 Art 8

1110 Art I

1115 Art II

1120 Art III

1125 Acrylic Painting

1130 Basic Design

1135 Ceramics

1140 Drawing

1145 Printmaking/woodcut

1150 Silkscreen Printing

#### Business

- 1200 Accounting I
- 1204 Accounting II
- 1208 Business English
- 1212 Business Law
- 1216 Business Math
- 1220 Business Methods
- 1224 Business Machines
- 1228 Calculating Machines
- 1232 Clerical Office Practice
- 1236 Counsumer Affairs
- 1240 Duplicating Machines
- 1244 Filing
- 1248 General Business
- 1252 Human Relations in Business
- 1256 Introduction to Business
- 1260 Money Management
- 1264 Office Aide
- 1268 Recordkeeping
- 1272 Shorthand I
- 1276 Shorthand II
- 1280 Typing I
- 1284 Typing II
- 1288 Typing, Clerical
- 1292 Typing, Production
- 1296 Typing, Refresher

Typing, Reports/Manuscripts

#### Chamorro Language

1300 Chamorro

#### Distributive Education

1400 Distributive Education

#### English Language Arts

- 1500 Language Arts 7
- 1503 Language Arts 8
- 1506 Language Arts 9

Bilingual Language Arts

1512 GTP Language Arts 1515 English 10A 1518 English 10B 1521 English 11 1524 English 12 1527 Basic Writing 1530 Developmental Reading 1533 Drama 1536 Ethnic/Africa Literature 1539 Grammar 1542 Individualized Reading 1545 Journalism 1548 Library Service ! Library Service II 1551 Literature of the Sea 1554 1557 Newspaper 1560 Newspaper Use/Mass Media 1563 Oral Interpretation 1566. Philosophy in Literature 1569 Reading Lab 1572 Reading Seminar 1575 Shakespeare 1578 Speech 1581 TESOL 1584 Words/Words Yearbook 1587 Foreign Languages 1600 French I 1601 French II 1625 Japanese I 1626 Japanese II 1627 Japanese III 1630 Japanese Caligrophy 1650 Spanish I

1651

Spanish II

- Home Economics
  1700 Home Economics 7
- 1704 Home Economics 8
- 1708 Home Economics I
- 1712 Chamorro Cooking
- 1716 Child Development
- 1720 Clothing
- 1724 Cooking Tools
- 1728 Custom Clothing
- 1732 Family Relations
- 1736 First Aid
- 1740 Foods
- 1744 Foods From Animals
- 1748 Foods From Plants
- 1752 Health & Hygiene
- 1756 Home and Interior
- 1760 Home Crafts
- 1764 Home Nursing
- 1768 Home Skills
- 1772 Human Sexuality
- 1776 Nursing Assistant I
- 1780 Nursing Assistant II
- 1784 Nutrition
- 1788 Personal Adjustment
- 1792 Sewing I
- 1796 Sewing II

#### Industrial Arts

- 1800 Industrial Arts 7
- 1805 Industrial Arts 8
- 1810 Industrial Arts I
- 1815 Architectural Drawing
- 1820 Drafting I
- 1825 Drafting II
- 1830 Mechanical Drawing
- 1835 Metals I
- 1840 Metals II
- 1845 Woodworking I
- 1850 Woodworking II

#### Mathematics

- 1900 Math 7
- 1905 Math 8
- 1910 General Math
- 1915 Algebra A/B
- 1920 Algebra I
- 1925 Algebra II
- 1930 Analytic Geometry
- 1935 Banking/Investing
- 1940 Budget/Insurance
- 1945 Career Math
- 1950 Computer Science
- 1955 Elementary Functions
- 1960 Geometry i
- 1965 Geometry II
- 1970 Taxes
- 1975 Trigonometry

#### Music

- 2000 Band, Beginning
- 2005 Band, Intermediate
- 2010 Band, Advanced
- 2015 Band, Concert
- 2020 Band, Stage
- 2025 Chorus, Beginning
- 2030 Chorus, Intermediate
- 2035 Chorus, Advanced
- 2040 General Music
- 2045 Music Symbols

#### Physical Education

- 2100 Physical Education 7
- 2103 Physical Education 8
- 2106 Physical Education 9
- 2109 GTP Physical Education
- 2112 Adaptive Physical Education
- 2115 Aerobics (Beginning)
- 2118 Aerobics (Intermediate)
- 2121 Aerobics Dance

- 2124 Aikido (Beginning)
- 2127 Aikido (Intermediate)
- 2130 Archery (Beginning)
- 2133 Archery (Intermediate)
- 2136 Badminton/Table Tennis
- 2139 Basketball (Beginning)
- 2142 Basketball (Intermediate)
- 2145 Bicycling
- 2148 Bowling
- 2151 Bowling (Intermediate)
- 2154 Boxing
- 2157 Creative Dance (Beginning)
- 2160 Creative Dance (Intermediate)
- 2163 Fencing
- 2166 Field Hockey
- 2169 Fitness and Conditioning
- 2172 Flag Football
- 2175 Flag Football/Speedball
- 2178 Football Officiating
- 2181: Folk and Square Dancing (Beginning
- 2184 Folk and Square Dancing (Intermediate)
- 2187 Football
- 2190 Golf
- 2193 Gymnastics
- 2196 Gymnastics (Intermediate)
- 2199 Gymnastics (Advanced)
- 2202 Handball/Shuffleboard
- 2205 Handball/Racketball
- 2208 Health
- 2211 Hiking and Survival Fitness
- 2214 Horseback Riding
- 2217 Intramural Planning
- 2220 Island Dance
- 2223 Island Dance (Intermediate)
- 2226 Judo
- 2229 Physical Conditioning
- 2232 Physical Education for Elementary
- 2235 Racketball/Recreation Games (Beginning)
- 2238 Racketball/Recreation Games (Intermediate)

- 2241 Recreational Games
- 2244 Rhythms
- 2247 Soccer (Beginning)
- 2250 Soccer (Intermediate)
- 2253 Soccer (Advance)
- 2256 Soccer Officiating
- 2259 Social Dance (Beginning)
- 2262 Social Dance (Intermediate)
- 2265 Softball (Beginning)
- 2268 Softball (Intermediate)
- 2271 Speedball
- 2274 Sports Facilities
- 2277 Swimming (Non)
- 2280 Swimming (Beginning)
- 2283 Swimming (Intermediate)
- 2286 Swimming (Advance)
- 2289 Synchronized Swimming
- 2292 Tennis (Beginning)
- 2295 Tennis (Intermediate
- 2298 Tennis (Advanced)
- 2301 Track and Field (Beginning)
- 2304 Track and Field (Intermediate)
- 2307 Theory of Physical Education
- 2310 Tumbling (Beginning)
- 2313 Tumbling (Intermediate)
- 2316 Volleyball (Beginning)
- 2319 Volleyball (Intermediate)
- 2322 Volleyball (Power)
- 2325 Weight Control
- 2328 Weight Training (Beginning)
- 2331 Weight Training (Intermediate)
- 2334 Weight Training (Advance
- 2337 Wrestling
- 2340 Yoga (Beginning)
- 2343 Yoga (Intermediate)
- 2346 Physical Education Aide
- 2349 Physical Education Seminar

#### Science

- 2503 Science 7
- 2506 Science 8
- 2509 Science 9
- 2512 GTP Science
- 2515 Air & Space
- 2528 Biology 1
- 2521 Biology !!
- 2524 Biology, Environmental
- 2527 Biology, Human
- 2530 Biology, Marine
- Chemistry A 2533
- 2536 Chemistry B
- 2539 Chemistry, General
- 2542 Chemistry, Advanced
- 2545 Earth
- 2548 Electronics |
- 2551 Electronics II
- 2554 Energy Resources
- 2557 Evaluation
- 2560 Experience in Science
- Human Anatomy & Physiology 2563
- 2566 Natural Science
- Physical Science, Chemistry 2569
- 2572 Physical Science, Physics
- 2575 Physics
- 2578 Physics, Mechanics
- 2581 Physics, Light & Sound
- 2584 Physics, Magnetism & Power
- Science, Past & Present 2587
- 2590 Science Seminar

### Social Studies

#### General

- 2610 Social Studies 7
- 2612 Social Studies 8
- 2614 Social Studies 9
- 2616 Honors Social Studies
- 2618 Bilingual Social Studies

Anthropology

2630 Africas

2632 Americas

2634 Eurasia

2636 S.E. Asia, Oceania, Australia

Government

2640 Constitutional Government

2642 Government & The Consumer

2644 Government of Guam

2646 International Government

History

U.S.

2650 Exploration to 1898

2652 1898 to Present

2654 Guam History

World

2660 Beginning Western Civilization

2662 Far East History

2664 Philippines & S.E. Asia

2666 World in Turmoil

Psychology

2670 Psychology

Sociology

2680 Sociology

ROTC

3000 ROTC I

3010 ROTC II

3020 ROTC III

Driver Education

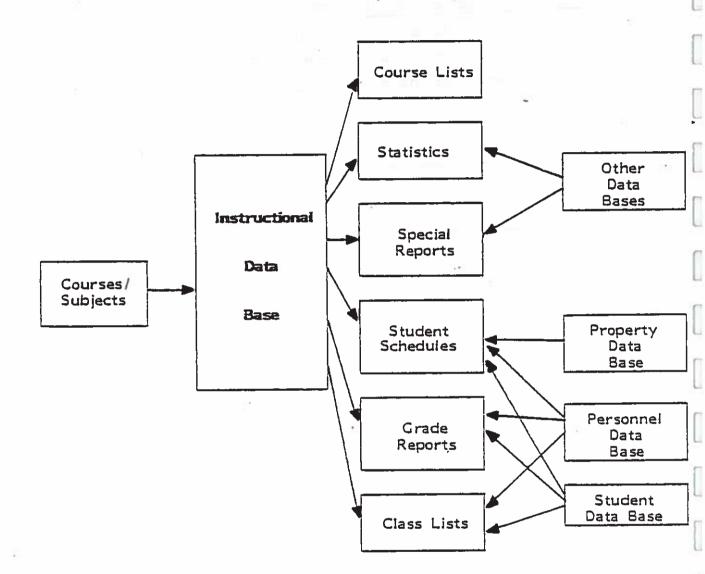
4000 Driver Education

## INSTRUCTIONAL PROGRAM DATA FILES

Primary subject/course file. This file is used to store data on subjects/courses taught in the Guam schools. There is one record for each subject/course. The "credits" field only applies to secondary school courses.

Number	Name	Course Credit
4N	16A	5N

#### INSTRUCTIONAL PROGRAM DATA FLOW



# PROPERTY ACCOUNTING HANDBOOK

Prepared for Guam Department of Education

By:

Raiph Van Dusseldorp, Ph.D. WEO Systems, Inc. 4916 S.W. Shattuk Road Portland, OR 97221 This handbook includes data elements, definitions, coding systems, file layouts and a general flow chart for the management information system property data base. Additional information concerning the management information system will be found in the document Analysis of the Guam Department of Education Data Processing Needs and Design of Management Information Data Files, Codes and Definitions, Ralph Van Dusseldorp, 1980.

## Property Accounting Handbook

### Table of Contents

Section					Page
Data Base Ite	ms				1
Sites		********			1
Buildings.				• • • • • • • • •	3
Spaces (Ro	ooms)				9
Equipment					11
Books		• • • • • • • • • • • • •			14
Data Files					. = 17
			. 1		
Data Flow	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			20

#### PROPERTY DATA BASE ITEMS

#### Sites

(C) <u>Site Number</u> A number used to identify a site. For sites with school buildings, the school number will be used as the last two digits of the site number

3 characters
102 Untalan Junior
103 Inarajan Junior High
etc.

(C) <u>Site Addition Number</u> A numeric designation identifying a site as either an original or an addition.

1 character

0 original

1 first addition

2 second addition

etc.

(C) <u>Site Name</u> The common name used for the site. If a school is on site, the school name will be used.

15 characters

(C) Site Location The address of the site or a description of its location.

30 characters

(C) Area The area of the site to the nearest tenth acre.
4 characters

XXX.X

- (L) <u>Deed Restriction</u> Brief summary of any revision clause condition or restrictions on use.
- (L) Easements Brief summary of easements that affect the site.

- (C) Structure (excluding buildings) or special area on site. Any structure other than a building or any area requiring special design, arrangements or construction for the purpose of for which it is used.
  - 2 characters per structure or area
    - 01 football field
    - 02 baseball field
    - 03 basketball court
    - 04 tennis court
    - 05 track and field area
    - etc.
- (C) Method of site acquisition The means by which the site was obtained for use.
  - 1 character
    - 1 purchase
    - 2 lease (rent)
    - 3 loan
    - 4 gift
    - 5 exchange
    - 9 other
- (C) Date of site acquisition The date on which the site was acquired.
  - 6 characters

MM DD YY

- (C) Cost of site acquisition The purchase price of the site.
  - 8 characters

XXXXXXX

- (C) Market value of site. The appraised or estimated dollar value for which the site currently could be sold.
  - 8 characters

XXXXXXX

- (L) Nature of site improvement Description of the type of improvement made to a site.
- (L) Date of site improvement The date on which site improvement was completed.

(L) Cost of site improvement The cost of an improvement made to a site.

#### Buildings

(C) <u>Building Number</u> The numerical designation for the building.

A four digit number will be used. The first three will be the same as the number of the site on which it is located. The fourth digit will be used to designate the building on the site. Thus a single building on a site might be number 1021 while two buildings on a site might be 1231 and 1232.

4 characters

XXXX

(C) <u>Building Addition code</u> A numeric designation identifying a building as either an original building or an addition to a building.

1 character

0 original building

1 first addition

2 second addition

etc.

(C) School or unit name The name of the school or other unit using the building. Other unit might be maintenance or media department.

15 characters

(C) <u>Building name</u> The common name for the building

- (C) Type of building A code for the primary purpose of the building.
  - 2 characters
    - 01 General Education
    - 02 Instruction
    - 03 Administration
    - 04 Learning Resources
    - 05 Athletics
    - 06 Auditorium
    - 10 Food Service
    - 11 Mechanical Service
    - 12 Vehicle Garage
    - 13 Maintenance
    - 14 Warehouse
    - 15 Multiple purpose support
- (C) Student capacity of building The number of students that can normally be accommodated in the building.
  - 4 characters

xxxx

(C) <u>Date building completed</u> The date construction of the building was completed.

6 characters MM DD YY

(C) Cost of building acquisition The cost of acquiring the building, whether by construction, purchase or other means. The cost should include construction, architectural and engineering services, legal services, and consultative services.

8 characters

xxxxxxx

(C) <u>Date of building acquisition</u> The date the building was acquired.

This will usually be the same as the date completed (above).

6 characters MM DD YY (C) Expected useful life of building The number of years a building is expected to fulfill its intended function.

2 characters

XX

(C) <u>Book value of building</u> The original cost less depreciation.

8 characters

xxxxxxxx

(C) Replacement cost of building The cost, at current prices, to replace a building.

8 characters

XXXXXXX

(C) Exterior walls Construction materials that comprise most or all of the exterior walls.

1 character

1 wood

2 masonry

3 metal

4 panel

5 concrete block

6 poured concrete

7 none

9 other

(C) Floor framing Construction materials that form the framing of all or most floors.

1 character

1 wood framing

2 concrete on grade

3 wood on steel

4 concrete slab on steel framing

5 concrete slab on concrete framing

9 other

- (C) <u>Fixed interior walls</u> Primary construction materials used for the fixed interior walls.
  - 1 character
    - 1 wood frame
    - 2 masonry
    - 3 metai
    - 9 other
- (C) Roof framing Construction materials that are used in the framing of the roof.
  - 1 character
    - 1 wood
    - 2 steel
    - 3 concrete
    - 9 other
- (C) Roof membrane Materials used to cover the roof.

1 character

- 1 tar or pitch
- 2 tile
- 3 slate
- 4 metal
- 5 plastic
- 6 wood shingles
- 7 asphalt shingles
- 8 asbestos
- 9 other
- (C) <u>Material in structural system</u> The primary type of material comprising the structural system of the building.
  - 1 character
    - 1 steel
    - 2 concrete
    - 3 wood
    - 9 other
- (C) <u>Gross floor area of building</u> The sum of the areas at each floor level included within the principle outside faces of exterior walls, expressed in square feet.
  - 5 characters

XXXXX

(C) Total assignable floor area of building The total area, in square feet, of all space available for use.

5 characters

XXXXX

(C) Total floor area of instructional space The total area, in square feet, of all regular instructional space.

5 characters

XXXXX

(C) Total floor area of learning resources space The total floor area, in square feet, of all learning resources space

5 characters

xxxxx

(C) Total floor area of multiple-purpose space, support space, and other assignable space. The total area, in square feet, of all multipurpose space, support space, and other assignable space.

5 characters

xxxxx

(C) <u>Total floor area of disaster shelter</u> The area, in square feet, that can be used for disaster protection.

5 characters

XXXXX

(C) Availability of building entrances for the handicapped

Availability of primary entrances that are ground level or have ramps with hand rails.

1 character

on 0

1 yes

(C) Accessibility of instructional locations to the handicapped

Accessibility to the handicapped to all instruction locations

1 character

0 no

1 yes

(C) Availability of toilet facilities for the handicapped Availability of toilet stalls, accompanied by grab bars, that can accommodate wheel chairs.

1 character

0 no

1 yes

(C) <u>Availability of 32-inch doors</u> Availability of doors that are wide enough to allow wheelchair passage.

i character

0 no

1 yes

(C) Date building repair or maintenance work completed
6 characters
MM DD YY

(C) Cost of building repair or maintenance work

5 characters

xxxxx

- (L) Explanation of building repair or maintenance work performed

  Description of the type of work performed and the portion

  of the building on which the work was performed.
- (C) Date of building modification
  6 characters
  MM DD YY
- (C) Cost of building modification
  6 characters
  xxxxxx
- (L) Explanation of building modification Brief description of the type of alteration, renovation, or remodeling work done, including identification of the part of the building affected

- (C) Space (room) number A numeric designation of a space or room in a building.

  3 characters

  xxx
- (C) Floor area of space or room The area, in square feet, measured between principal wall faces.

  4 characters

  xxxx
- (C) Type of space or room Primary intended use of a space or room.
  - 4 characters

1000 assignable space

1100 regular instructional space

1200 special instructional space

1201 athletic/physical education

1202 business education

1203 home economics

1204 industrial arts

1205 kindergarten

1206 mathematics laboratory

1207 media-based instructional laboratory

1208 music

1209 planetarium

1210 science

1211 special space for exceptional children

1212 computer/data processing (instructional)

1213 darkroom (instructional)

1214 motion picture studio (instructional)

1215 radio studio (instructional)

1216 sound studio (instructional)

1217 television studio (instructional)

1299 other special instructional spaces

1300 learning resources space

1400 multiple purpose space

1410 auditorium

1420 cafeteria

1430 cafetorium

1440 gymnatorium

1450 other multiple-purpose

1500 support space

1501 computer/data processing

1502 conference room

1503 dark room

1504 equipment room

1505 health care

1506 maintenance and repair

1507 motion picture studio

1508 office

1509 projection room

1510 radio studio

1511 residential

1512 sound studio

1513 storage

1514 television studio

1515 vehicle storage

1580 general support

1590 other support

2000 nonassignable space

2100 circulation

2200 custodial

2300 mechanicai

2400 structural

(C) Student capacity of space The number of students that can be accommodated at one time when the space is being used for the purpose intended.

4 characters

XXXX

#### Equipment

(C) Equipment tag number A unique reference number assigned to an item of equipment

12 characters

#### XXXXXXXXXX

(C) Equipment inventory number A reference number assigned to an item of equipment with a particular style, use, supply source or other common characteristic. Identical items share a common equipment inventory number. Also referred to as a stock number.

8 characters
xxxxxxxx

(C) Equipment type A series of categories that separate equipment into groups according to similar function on operational characteristics.

4 characters

1000 instructional equipment

1100 instructional device

1110 audio device

1120 computer device

1130 graphics device

1140 electronic display device

1150 photographic device

1160 projected display device

1170 physical display device

1180 subject matter related device

1181 art equipment

1182 business education equipment

1183 driver education equipment

1184 homemaking equipment

1185 industrial arts equipment

1186 music equipment

1187 physical education equipment

1188 scientific laboratory equipment

1189 other subject matter related equipment

1190 other instructional device

1200 recorded instructional materials

1210 audiorecording materials

1220 computer materials

1230 electronic display materials

1240 projected materials

1250 printed/pictorial materials

1260 three-dimensional materials

1270 multi-media kits

1290 other recorded instructional materials

1300 library equipment

1900 other instructional equipment

2000 custodial equipment

4000 health equipment

5000 cafeteria equipment

7000 administrative equipment

9000 other equipment

9100 furniture

9200 machinery and apparatus

9710 band tools

9220 bench, desk or floor machinery (office)

9230 bench, desk or floor machinery (non-office)

9240 heavy construction equipment

9300 vehicle

9900 other

(C) <u>Description of equipment</u> A brief description of an item of equipment, using the key name or description first. For example, "desk, wood, 5' x 5'."

30 characters

#### (C) Equipment mobility

1 character

0 nonmovable

1 movable

(C) <u>Serial Number</u> A unique identifying number permanently inscribed or attached to an equipment item by the manufacturer.

12 characters

- (C) <u>Vendor name or number</u>

  15 characters
- (C) Manufacturer name or number
  15 characters
- (C) <u>Make or brand</u>
  15 characters
- (C) Model number

  10 characters
- (C) Physical location of equipment The place where an item of equipment is located. The numeric building code will be used for this.

4 characters

MM DD YY

(C) Date of acquisition
6 characters

- (C) Cost of acquisition
  6 characters
  xxxxxx
- (C) Expected useful life The number of years an item of equipment is expected to fulfill its intended function.

  2 characters

- (C) Equipment maintenance schedule The intervals at which an equipment item is to be serviced.
  - 1 character
    - 0 none
    - 1 annually
    - 2 quarterly
    - 3 monthly
    - 4 weekly
    - 5 after each use
    - 9 other
- (C) <u>Date equipment repair or maintenance work complete</u>
  6 characters
  - MM DD YY
- (C) Cost of equipment repair or maintenance work

  5 characters

  xxxxx
- (L) Explanation of equipment repair or maintenance work completed

#### Books

- (C) <u>Book inventory number</u> A reference number assigned to books with the same title, author, edition, publisher and copyright date. Identical items share a common book inventory number.
  - 8 characters

**XXXXXXX** 

- (C) <u>Book type</u> A series of categories that separate books into groups according to similar functions.
  - 1 character
    - 1 basic text
    - 2 supplemental text
    - 3 library
    - 4 professional
    - 5 other

(C) <u>Subject area</u> A series of categories that separate text books into groups according to subject areas. The same codes are used as for subjects/courses in instructional program accounting.

4 characters xxxx

#### Elementary

0100 Art 0200 Health

0800 Social Studies

#### Secondary

1000 Agriculture

4000 Driver Education

(C) <u>Title</u> The title of the book.

25 characters

- (C) <u>Author</u> The name of author of the book.

  30 characters

  Last, first, middle
- (C) Edition The number of the edition of the book.

  1 character

  1 first edition

  2 second edition

  etc.
- (C) Copyright date. The date of the latest copyright of the book.

  The last two digits of the year will be used.

  2 characters

(C) Vendor name or number The name or code number of the vendor from whom the book was purchased.

15 characters

(C) <u>Publisher name or number</u> The name or code number of the publisher of the book.

15 characters

(C) <u>Date of Acquisition</u> The date the book was received.
6 characters
MM DD YY

(C) Cost The cost per unit for acquiring the books
5 characters

xxx.xx

(C) Physical location The code number for the school or department in which the books are located. The same code numbers will be used as are used for personnel assignments.

2 characters

XX

(C) <u>Number</u> The number of books of the above title, author, edition, publisher, inventory number, etc. assigned to the physical location recorded above.

4 characters

XXXX

#### PROPERTY DATA FILES

Primary Site file. This file is used to store site data. There will be one record for each original site and one for each addition.

Number		Name	Location	Area	Structure	Method of 3
3N	Number 1N	15A	30A	4N	(Repeated 5 times)	Acquisition 1N

Date of	Cost of	Market
}Acquisition	Acquisition	Value
≥6N	8N	8N

Primary Building file. This file is used to store building data. There will be one record for each original building and one for each addition.

Number	Site	Addition	School or	Building	Type	Student	Date (
	Number	Code	Unit Name	Name			Completed
4N	3N	I IN	15A	15A	2N	4N	6N >

Cost of	Date of	Expected	Book	Replacement	Exterior	Floor ?
Acquisition	Acquisition	Life ·	Value			Framing
\$ 8N	6N	2N	8N	8N	1N	1N >

Interior			Structure		Floor Ar	
\ Walls	Framing	Membrane	System	Gross	Assignable	Instruction (
5 IN	1N	1N	1N	5N	5N	5N

Floor Area (continu	Access	ibility to Ha	ndicapp	ed		
Learning Resources	Other	Shelter	Entrance	Instruction	Toilets	Doors
5N	5N	5N	1N	1N	1N	1N

Primary Building Maintenance file. This file will store records of building repair and maintenance.

Building	Order	Date		
Number	Number	Completed	Cost	Description
4N	8N .	6N	5N	40A

Primary Building Modification file. This file will be used to store data on building modifications (alterations, renovations, remodeling).

Building	Order	Date	Cost	Description
4N	8N	6N	6N	40A

Primary Space (Room) file. This file will be used to store data on building spaces (rooms).

Building	Space (Room)	Area	Type	Student
Number	Number			Capacity
4N	3N	4N	4N	4N

Primary Equipment file. This file will be used to store data on equipment.

Tag	Inventory	Type	Description	Mobility	Serial	Vendor	5
Number					Number		5
12N	8N	4N	30A	IN	12N	15A	

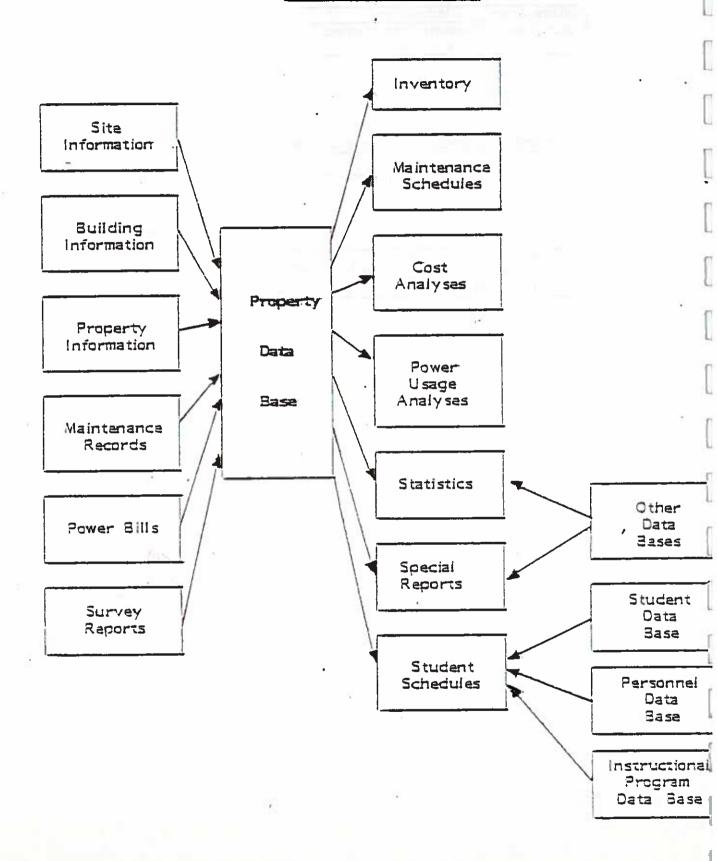
Manufacturer	Brand			Date of Acquisition		Expected (
\$ 15A	15A	10A	4N	5N	6N	2N <sup>°</sup>

Maintenance	Disp	ositior	1
	Reason	Date	Method
<u>&gt; 1N</u>	1N	6N	1N

Primary Equipment Maintenance file. This file will be used to store data on equipment repair and maintenance.

Tag Number	Order Number	Date Completed	Cost	Description
12N	8N	6N	4N	40A

#### PROPERTY DATA FLOW



Appendix D

Report Processing Summary Charts

( پينيو

March 1979

Dr. Jeffrey E. Shafer Research, Planning & Evaluation

> Mary Elaine Cadigan Director of Education

#### Reports

The following Report Processing Summary Charts are divided into 3 major types of reports: Operational, Support and Advanced Planning.

#### Definitions

- I. Operational Reports (reports that are designed to document information and/or data relating to the day-to-day management of physical plant, equipment, materials, staff and instructional programs and for obtaining information and/or data for education/program decision-making)
- II. Support Reports (reports that are for the most part statistical in nature and document information and/or data of a status nature).
  - a. Accounting
  - b. Data Processing
  - c. Supply/Equipment/Facilities
- III. Advance Planning Reports (reports specifically designed to document and summarize requests or information relative to future program design and implementation).

#### Breaktiown of Types

For ease of classification these report types are further broken down into the following categories:

#### Operational Reports

- A. Accident
- B. Burglary and Vandalism
- C. Parent/Teacher Conferences
- D. Free Lunch Applications
- E. Cafetaria Reports (FSN)
- F. Classroom Scheduling (Secondary)
- G. End-of-Year Reports
- H. Quarterly Reports
- I. Staffing Pattern Room Utilization
- J. Personnel Evaluation
  - 1. School year employees
  - Twelve month employees
    - a. cabinet members
    - b. principals
    - c. other division employees (non-school level personnel)

#### Support Reports

- A. Accounting
  - 1. Payroll
  - 2. Budget Expenditures for previous fiscal year

### Data Processing (Research, Planning and Evaluation)

- L. Beginning Enrollment
  - a. by sex by age
  - b. by grade
  - c. by ethnic background by grade
  - d. language groups e. hardicapped

  - f. military decement
- 2. Attendance Summary
- 3.- Professional Personnel Data
- 4. Entry, Re entry and withdrawls
- 5. DOE Statistical Tables
- 6. Low Income Survey
- 7. Report Cards (Secondary)
- 8. Special Education Enrollment 9. Parent Pupil Survey P.L. 81-874
- 10. NGS Performance Contract Reports (11 reports total)
- 11. Dropout/Suspension
- 12. Headstart Enrollment Breakdowns
- 13. Deaf and Blind School Enrollment Breakdown
- 14. Monthly Statistical Enrollment Report

#### C. Supply/Equipment/Facilities

- 1. Repairs and Maintenance
- 2. Requests for use of school facilities (non-school activities)
- 3. Textbook and Equipment Inventory
- 4. Equipment Inventory
- 5. Requistion for equipment and supplies
- 6. Transfers of textbooks and equipment
- 7. off-island orders

#### Advance Planning Reports

- A. Food Services State Plan
- B. Staffing Needs
- C. Employment Availability
- D. Ourriculum Proposals and New Programs
- E. Budget Proposals
- F. Field Trip Plans
- G. Pre-registration results
- H. Special Education State Plans
- I. Federal Programs Title IV State Plan
- J. Five Year Plans
- K. Needs Assessment (Discipline Oriented)

In addition to the general flow of report processing outlined in the accomcanying tables a system for managing each raport has been developed or is under developed. This management system takes the form of specifying critical worker activities for each reporting system in which the:

- 1. Person responsible is cutlined
- 2. activity specified
- 3. completion data specified
- 4. evaluations means/method are specified.

Name of Report	Najor Nesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
*Accident Report	School Nurse/ School Principal	Ongoing Activity (quarterly)	Copy to Office of Business Adminis- tration, RPE , Respective Assoc. Supt.	School nurse's office copy in Business office and RPE	File copy also · maintained in Office of Business Administration
*Durglary and Vandalism	School Principal	Ongoing Activity (quarterly)	Copy to Deputy Director, Research, Planning and Evaluation, Respective Assoc. Supt.	School principal RPE	Close communicatio with Office of Buildings and Grounds
*Parent/Teacher Conferences	school Principal	Ongoing Activity (quarterly)	Copy to Associate Superintendents	School Principal	Teachers have responsibility to complete records
*Free Lunch Ap- plications	Administrator Food Services Services, School Principals	August-October (Initail List) Ongoing Activity	ment	Food Services services	Required Federal reports
*Cafeteria Reports (FSN)	Administrator Food Services School Principals	Ongoing Activity			Required Federal Reports

### REPORT PROCESSING MANY CHART TYPE OF REPORT: OPERATIONAL

Name of Report	Major Responsibility	Time Time/ Schedule	Dissemination To:	File Location	General Information
*Classroom Scheduling	School principals Department heads	August	Associate Super- intendent Secon- dary Education	Associate Super- intendent Secon- dary Education, School Princpal	
*livi-of-Year Reports	Deputy Director Instructional and Support Services	May-July	Pirector	Deputy Director	
		s #*			88
*Quarterly Reports	Cabinet members School principals	Quarterly; March June September December	Director of POE via Division Associates	Deputy Director Director of DOE Division Associates	
Staffing Pattern Room Utilization	School Staff and school principals	March-August	Three incite pactors	School principal Associate Super- intendent Secon- dary Education	
Personnel Evaluation (School year Employees)	Principal	April - May	Personnel Office	Principal's Office Personnel office	Copies also provided staff member being eva- luated

CHAM DEPAT ENT OF EDUCATION
REPORT PROCESSING MMARY CHART TYPE OF REPORT; SUPPORT (Accounting

Name of Report	Major Mesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Infoniation
*Payrol.l	DOE Payroll Accounting Section	Ongoing	Office of Controller	DOE Payroll Accounting	I PER SHIPS CHANGE I
Budget Expendi- tures for pre- vious Fiscal Year	Dusipess Office (FMS)	End of Fiscal Year by September of next Fis- cal Year	Research, Planning Evaluation and Other DOE divi- sions upon re- quest	FMS and Dusiness Office	Reports required for certain Federa requirements P.I. 81-874, NCES etc.
trinsipor ass	Amichiga Sare		Manual State	sal leannamh na th	A HOLY OF CONTIN
				THE REAL PROPERTY.	Constitute from the
		at Others D	palsoning out	the China control of the	
	i — imieskiske in				
					articoloria
				Dill in The second	
A STATE OF THE STA	THE LANGE	y I Bounday m			
	See Oriental A	Appendix	giv.	THE POSITION	Comment of the State of the Sta

## CUAM DEPARTMENT OF EDUCATION REPORT PROCESSING MARKY CHART TYPE OF REPORT: OPERATIONAL

Name of Report	Major Mesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
*Personnel Evaluation (Twelve Months Employees)	School Principal	Monthly as Required	Personnel Office	School Principal's Office,Personnel Office	
Cabinet Level Evaluations	Director of Filucation	Quarterly	Personnel Office	Director of Muca- tion, Personnel Office	Copy of evaluation is also given to cabinet members
Principal Eva- luation	Associate Super- intendent - Elementary, Secondary, Special Education	Quarterly	Personnel office, Director of Diucation	Personnel office, Assoc. supt!, office	Copy of evaluation is also given to cabinet members
Other divisions suployee evaluation	Asst. Dir. Fin- nancial Affairs, Assoc. Supt. C&I Pupil Personnel RPE , LRC etc.	-Quarterly	Personnel office,	Division Heads	Copy of evaluation is also given to cabinet members

LI)

			File Location	Information
Schools collect, Office of Statis- tical Services Compiles	August-November	Assoc. Sup!t. Elementary, Secondary; Administrator Pupil Personnel, School Principals		Incorporated into Annual Statistical Tables Report
Schools collect, Office of Statis- tical Services compiles	Ongoing (monthly)	Assoc. Supit. Elementary, Secondary	Office of Statis- tical Services	ADA and ADM calculated from ' this data
Personnel office collects, Office of Statistical Services com- piles	yndrat-Noveliper.	No official dis- semination other than the Annual Statistical Tables Report, or upon request	Office of Statis- tical Services	Incorportated into Annual Statistical Tables Report
Schools collect, Office of Statis- tical Services :cupiles	Daily, weekly and monthly activities: Monthly summary report during school year	Assoc. Supit. Elementary, Secondary; Adminstrator Pupil Personnel School Principals	Office of Statis tical Services	OOMS - SESTEMBLE
al Services com- iles and publi- alæs	ber (include Sept. beginning encoll- ment)	nation to DOE	Office of Statis- tical Services	Officially known as "Statistical "Tables"
	Schools collect, Office of Statis- tical Services compiles  Personnel office collects, Office of Statistical Services com- piles  Schools collect, Office of Statis- tical Services compiles  Office of Statis- tical Services compiles  Office of Statis- al Services com- oiles and publi- shes	Schools collect, Office of Statis— tical Services compiles  Personnel office collects, Office of Statistical Services compiles  Schools collect, Office of Statis— tical Services compiles  Daily, weekly and monthly activities; Monthly summary report during school year  Office of Statisti— al Services compiles and publi—  Published by Octo— ber (include Sept. beginning enroll—	Schools collect, Office of Statis- tical Services compiles  August-November  Personnel office of Statistical Services com- piles  August-November  August-November  No official dissemination other than the Annual Statistical Tables Report, or upon request  Schools collect, Office of Statis- tical Services compiles  Daily, weekly and monthly activities; Monthly summary report during school year  Defice of Statistical School Principals  Office of Statistical Ceneral dissemination to DOE Central Office and Schools	Compiles    Administrator Pupil Personnel, School Principals

### CHAM DEPARTMENT OF EDUCATION REPORT PROCESSING MMARY CHART TYPE OF REPORT: Data Processing

Major Mesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
Office of Statis- tical Services Compiles, school collects	January	Upon request to DOE Staff, Division Heads and Associates	Office of Statis- tical Services	Incorported into Annual Statisti- cal Tables Re- port
Office of Statis- tical Services	December - March	Summarized data to ESEA Title I Director, Federal Government	Office of Statis- tical Services	Required in cer- tain Federal Government report
School staff,prin- cipals,Office of Statistical Ser- vices	Quarterly	School Staff	cal Services	Secondary school students only
Assoc. Sup't Special Diu. Statistical Ser- vices compiles	End of each month	DOE Administration (Quarterly Report) Federal Govern- ment/Budget and Management Office (Budget Prepara- tion)	Office of Special Aducation	
	September- January 31	Summarized Data to SAFA Federal Govern- ment	Office of Statisti cal Services	- Required for re- imbursement of impact aid funds.
	Office of Statistical Services Compiles, school collects  Office of Statistical Services  School staff, principals, Office of Statistical Services  Assoc. Supit.— Special Biu. Statistical Services compiles	Office of Statistical Services Compiles, school collects  Office of Statistical Services  Office of Statistical Services  School staff, principals, Office of Statistical Services  Assoc. Sup't Special Mu. Statistical Services  Principals, Office of Statistical Services  Principals, Office of Statistical Services  September- January 31	December - March   December - March   Summarized data to ESEA Title I pirector, Federal Government	Responsibility   Schedule   To:   File Location

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination 40:	File Location	General Infonsation
NCES 2350-8 Universe of focal Education Agen- cies	Statistical Services	August 15 due in Washington, D C	NCES- Room 3009 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contractual obligation with NCES
NCES Form 2350-8-1 Supplementary Report for newly organized LEAS's	Stațistical Services	August 15	NCES-Room 3009 400 Maryland Ave S.W. Washington,D.C. 20202	Statistical Services	Performance contractual obligation with NCES
NCES FORM 2350-13- State Education Agency Personnel Directory	Statistical Services	August 15	NCES-Room 3009 400 Maryland Ave S.W. Washington, D.C. 20202	Stațisțical Services	Performance contractual obligation with NCES
NCES Form 2350-9 Estimates for School Year	Statistical Services	Auguat 15	NCES - Room 3009 400 Maryland Ave S.W. Washington, D.C. 20202	Statistical Services	Performance contractual obligation with NCES
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### CUAM DEPARTMENT OF EDUCATION REPORT PROCESSING MMARY CHART TYPE OF REPORT;

Name of Neport	Major Nesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
NCES Form 2350-5 Fall Report	Statistical Services	December 15	NCES-Room 3009 FOR #6 400 Maryland Ave S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
NCES Fam 2350-7 Schoolhousing Repart	Statistical Services	December 15	NCES-Rocm 3009 FOB # 9 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
VCES Form 2373-2 EA Non-fiscal Report	Statistical Services	January 15	NCES-Room 3009 FOB # 9 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
	Statistical Services	January 15	NCES-Room 3009 FOB #9 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES

12-11-14

REPORT PROCESSING MARY CHART TYPE OF REPORT:

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination 'No:	File Location	General Infomation
NCES Form 2393-4 State Education Agency Report	Statistical Services	January 15	NCES Room 3009 FOR #6 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
NCES Form 2350-6 Revenue and Expenditures	Business Office, Public Works, Statistical Services	March 15	NCES-Room 3009 FOR #6 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
YCES Form 2350-11 Misc State Yggregates/FY 70	Dusiness office, Public Works, Statistical Services	Мау 15	NCES-Room 3009 POB #6 400 Maryland Ave. S.W. Washington, D.C. 20202	Statistical Services	Performance contract with NCES
pebort: peport: probont/gnabenation	Statistical Services, Pupil Personnel, Principals	June 1	Principals, Director of Educa- tion and Division Heads and Associate	Statistical Services	For June Board of Education Meeting
Charles (1/20)		igan bya	The cost is predicted.	ancommunity.	
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### CUAM DEPAPAMENT OF EDUCATION REPORT;

Name of Report	Major Maponaibility	Time Line/ Schedule	Dissemipation 'No:	File Location	General Information
Peaf and Blipq school Pupil Information	Statistical Services compiles, Special Education collects	Monthly ongoing	Special Education and other division upon request	Statistical Services	
	187		III= = 2		
HeadStart Enrollment	HeadStart collects Statistical Services compiles	, Monthly Orgoing	poe Staff on request	Statistical Services	
					5
Military depen- dent Breakdown	Schools collect, Statistical Services compiles	Monthly Orgoing	Base Laison officers, DOE staff on request	Statistical Services	*
Statistical Information Acouthly Acrollment Report	Schools collect, Statistical Services compiles	Monthly Orgoing	Assoc. Supt. Elementary Secondary Special Education	Statistical Services	
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Wanie of Bebort	Major Major Major Major	Time Line/ Schedule	Dissemination To:	File Location	General Information
School Attendance Area Report	Principals collect Statistical Services compiles	, Monthly	Associate Superintendent Elementary Secondary	Research, Planning and Evaluation	Needed for redistricting
Enrollment Pro- jections by grade by total dis- trict	Statistical Services	September December	Assoc, Supt. Elementary Secordary Special Education other DOE divi- sions upon re- quest	Statistical Services	Needed for Budget:
Manufacture Comment	BEGG HILLIA	market - North		Weeks MANA	
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### CUAM DEPARTMENT OF EDUCATION REPORT PROCESSING MMARY CHART TYPE OF REPORT:

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination 40:	File Location	General Information
Repairs and Main- tenance	School Principal	Ongoing activity	Office of Build- ings and Grounds	Princpal's Office Office of Build- ings and Grounds	
				) v	
*Use of School Buildings and Pacilities	School Principal	Ongoing Activity	Deputy Director	Principal's Office	•
*Nextbook and Equipment In- ventory	Assoc. Supt. Elementary, Secondary	December - March	School Principal's	Assoc. Supt. Elementary Secondary	
79 He	4			8	
Aliquipment Toventory	Office of Supply Management	February—June	Office of Budget Management Office of Fiscal Affairs Dept. of Administration	Office of Supply Management	F # *
quipment and	Office of Supply Management (Pro- curement Section)	Onypoing activity		Principal's Office Office of Supply Management	
	(* <sub>0</sub>	-	= n		

THE OF BUILDING:

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
*Transfer of Texts and Equipment	School Principal	Ongoing activity	Administrator Supply Management	School puter to	Intollia (10)
Off-island orders	Administrator Supply Management	February, June and October	Educational Media Center for review of A-V Equipment Division Assoc.	Administrator Supply Management	
		minera Arvi pavajet juni 1960			
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### OUAM DEPAP TENT OF EDUCATION REPORT PROCESSING AMARY CHART TYPE OF REPORT:

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination To:	File Location	General Infoquation
*Food Services State Plan	Assoc. Supt., Pood Services	October-December	Director of Diuca- tion Federa govern ment	Assoc. Supt.,Food Services_Office	Information required by Federal government
		* *	=	to a	
*Staff Needs	School principals	June-July		School princpals Office of Budget Management Division Assoc.	,
ˈthuployment Availability	Personnel Office	Ongoing but by March 15 of current year	Any DOE Staff upon request	Personnel Office	
Ourliculum Pro- posals and New Programs	School principals Assoc. Supt., Curri culum and Instruc- tion	Ongoing	Ourriculum Commit- tees and DOE cen- tral staff as re- puired	School principals Assoc. Supt., Jurriculum and Instruction	
Field Trip Plans	ichool Principals	Ongoing	eputy Director Assoc. Supt. Eleni Jecondary	ichool principal's office	

OEW JOI

Name of Report	Major Responsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
*Budget Proposal	Assoc. Supt., Elementary and Secondary Educa- tion and all division heads	May-September	Office of Budget and Management Deputy Director Borad of Education	Assoc. Supt., Elementary and Secondary Education	
*Pre-Registration Results	Assoc. Supt., Elementary and Secondary Educa- tion	February-May	Director, DOE	Associate Supt., Elementary and Secondary Educa- tion	
Special Education State Plan	Assoc. Supt., special Education	October-February (Board meeting)	Director, Roard of Education Feder Covernment	Assoc. Supt., Sp. Education	
ritle IV State Plan	litle IV Coordinator		Director, Advisory Council	Federal Programs office	
Five Year Plan	School principals Division Heads collect, Research Planning and Evaluation com- piles	March	Gov. Office, Bureau Budget & Mgt. Director of Education	Research, Planning and Evaluation	Interesting

### CUAM DEPAIT TENT OF EDUCATION REPORT PROCESSING AMARY CHART TYPE OF REPORT:

Name of Report	Major Nesponsibility	Time Line/ Schedule	Dissemination To:	File Location	General Information
Tsland-Wide Needs Assessment	Assoc. Supt. Curr & Inst. Research, Planning and Evaluation	Ongoing by June 30 each School Year	Board of Education Director of Edu- cation, DOE Staff upon request	Research, Planning and Evaluation	· [
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Appendix E

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DEPARTMENT OF EDUCATION GOVERNMENT OF GUAM ?: 0. 30X DE AGAMA, GUAM-98810

July 27, 1980

# ANNOUNCEMENT

The Department of Education announces open and promotional examination for the following class to <u>ESTABLISH A LIST</u>:

CONTINUOUS

JEGE.

JUL 23 550

RESEARCH, PLANNING AND EVALUATION ADMINISTRATOR (DEPARTMENT OF EDUCATION)

CUTY: Twelve Months

SALARY: PR 42, SZ1,420 - SZ8,440 per annum

#### NATURE OF WORK IN THIS CLASS:

This is complex professional and administrative work involved in administanting the research, planning and evaluation of aducational programs and services of the Cepartment of Education.

Employees in this class performs the full range of complex professional surles including independent work in specialized areas of the profession.

ILLUSTRATIVE EXAMPLES OF WORK: (Coes not list all the dutles which may be performed)

Administers the programs and services of the Research, Planning and Evaluation Division of the Cepartment of Education.

Administers the programs, projects and activities of a componentive management information system; designs, researches and evaluates data collection instruments; directs the computer processing and information retrieval services for the various public schools for the registration, scheduling of classes and students, grade recording, attendance, fest scoring services and other related services.

Develors, recommends and implements systems for identifying educational needs and concerns; establishes the reliability and validity of research and evaluation methods and findings.

Develops, plans and implements measurements methods and factoriouss to evaluate aducational programs to determine the cost effectiveness and to measure the potaliment of goals and objectives in accordance with applicable faderal and local guidalines and requirements.

Provides technical assistance in the sesign of computer average, the severgment and implementation of educational programs, evaluation average and research and statistical methods.

Provides Information, projections and statistical analysis; savelods sata analysis procedures to measure the armainment of program goals and objectives.

Caveloos systems for long range planning.

"alatzina ilaison vita J.S. Office of Education, National Center for Education Statistics and other Federal and Local agencies.

Partorns related work as reduired.

## RESEARCH, PLANNING AND EVALUATION ADMINISTRATOR

## MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the principles and practices of public administration.

Knowledge of statistical research techniques.

Ability to administer the programs and services of the Research, Planning and Evaluation Olvision of the Department of Education.

Ability to establish and maintain a management information system to handle the data analysis and reporting needs of the Department of Education.

Ability to plan and implement research and analytical work in the field of education and to make analysis of findings, noting factors, developments, trands and projections.

Ability to understand the application of computer programs such as the Statistical Package for Social Sciences and other computer-based methods of data analysis.

Ability to learn, interpret and apply pertinent federal and local laws, rules and related guidelines.

Ability to make decisions in accordance with appropriate guidelines.

Ability to evaluate operational effectiveness and implement changes for improve-

Ability to work effectively with the public and amployees.

Ability to communicate effectively orally and in writing.

## MINIMUM EXPERIENCE AND TRAINING:

- A) Graduation from a recognized obliege or university with a 2h.J. or Ed.D; or
- 3) Any addivalent combination of experience and regiming beyond a master's degree which provides the minimum knowledge, abilities and skills.

Interested persons may apply directly to the Office of the Associate Superintendent, Personnel Services at the Genarment of Education, Pacific Arcade Building in Agama. For further information call 472-8900/3909.

FELISA E. SUTISTRET
ASSOCIATE EUGEFATTENDENT, FETSONNELS



VELLEWYLLAR VCIION ECCUT GABOSCOMILA INTIE IN VCENCA

DEFARMENT OF EDUCATION

F.O. SOX DE

AGAMA, GUAM

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477 - 8900 477 - 8909

May 9, 1979

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# ANNOUNCEMENT

The Capartment of Education announces the following position to  $\underline{\text{ESTABLISH}}$ 

### CONTINUOUS

## SENIOR SYSTEMS/MANAGEMENT ANALYST

OUTY: Twelve Months

SALARY: 28 31 - 514,550.00 - 519,360.00 2/A

#### MATURE OF WORK:

This is advanced technical work involving the analysis and development of improved managerial procedures and practices as well as the analysis of operation and administrative systems and the development of methods for adapting these work systems to electronic data processing.

Employees in this class are responsible for the analysis of organizational units, work processes, functions and programs which are complex and tachnical in nature, as well as the development and documentation of the methodology for adapting various work systems to electronic data processing. Work involves avaluating and recommending improvements in managerial policies and practices, organization, methods and procedures.

Nork may involve leading the work of subordinate technical amployees on assigned tasks. Employees in this class receive general instructions as to scope of assignments and broad objectives to be achieved. Nork is performed with considerable independence and is reviewed through conferences and summission of reports for compliance with policies, soundness of conclusions or recommendations, accuracy of logic, feasibility and proper utilization of established principles, practices and procedures.

## ILLUSTRATIVE EXAMPLES OF WORK:

Conducts studies, research, analyses and evaluation of organizational structure, functions, work methods and other operational activities; recommends changes; develops procedures and necessary forms to implement changes, and prepares related procedural instructions.

Participates in the design and development at management information systems; performs statistical analyses and presentations of results and conclusions.

Promotes the use of programs and procedures designed to simplify work processes and improvement of administrative procedures; writes and/or revises manuals of procedures:

Recommends adjustments, improvements, and renovations in organization and ocera-

Initiates action in organizing information into accessible work files, documenting procedures and operating methods; designs systems improvements and identification of data in the processing of applications; and develops cost statistics on which accommic evaluations can be based.

Determines the requirements of changes necessary to adapt existing work systems and processes to electronic data processing techniques.

Page 2 Senior Systems/Management Analyst

Prepares written procedure narratives, flow charts, systems specifications, programming guidelines, and other necessary documentation.

Designs reports and intermally generated outputs to satisfy management information needs and supplies day-co-day data needed for the continuous operation of

Facilitates implementation of electronic data processing procedures through preparation of necessary manuals, charts, diagrams and forms design.

Evaluaces and recommends the type, size, and value of office and operation equip-

Reviews and updates internal procedures.

Instructs personnel in the use of new systems and forms.

Maintains control over the dasign of reports, records, and forms.

Performs long-range studies for management involving such items as organization. feasibility studies concerning new aquipment, procedures, and other related matters.

Performs related work as required.

## MINIMUM KNOWLEDGES, ABILITIES AND SKILLS:

Thorough knowledge of governmental management principles, theories and tachniques and of generally accepted techniques used in organization and methods examining.

Thorough knowledge of the modern principles, practices, systems, and procedures and mechanization in data processing and computer operations and programming.

Considerable knowledge of modern office practices and procedures.

Ability to participate in the development of long-range plans for the computer

Ability to make oral and written reports and presentations and prepare theres and graphs clearly and concisely.

Ability to conduct extensive management studies and organizational surveys.

Ability to devise procedures, to develop methods for generating and processing data and to integrate these into data processing systems and plans.

Ability to gather, assemble, correlate and analyze facts and devise solutions to

Ability to establish and maintain effective working relationships with others.

Ability to make work decisions in accordance with laws, rules, and requiations. and to apply departmental policies and procedures to work problems.

## MINIMUM EXPERIENCE AND TRAINING:

- Graduation with a Mastar's degree from a recognized college or university in business or sublic idministration, industrial management, computer settings, or closely related field, plus one year of progressively reconsible spacealized experience involving computer systems analysis and digital computer programming; and one year of management analysis work involving the analysis, and improvement of computer analysis. availuation, methods, development and improvement of managerial opicies. practices, methods, systems and procedures; or
- (b) Araduation with a Bachelor's dagree in business or public administration, industrial management computer science, or closely related field, pluscome year and six months of progressively responsible specialized experience including computer systems analysis and digital computer programming; and one year and six months of progressively resconsible specialized management analysis work involving the analysis, avaluation, tavelocment and improvement of managerial policies, practices, methods, systems and procedures; or

Page 1 Senior Systems/Management Analyst

> (c) Any equivalent combination of experience and training which provides the minimum knowledges, abilities and skills.

Interested persons may apply directly to the Office of the Associate Superintendent, Personnel Services at the Department of Education, Pacific Arcade Building in Agama.

For further information call 4728-900 or 4728-909.

FELISA 3. GUTIERREZ Associate Superintendent Personnei

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472 - 4900 472 - 2909 AFFIRMATIVE ACTION EQUAL OPPORTUNITY TITLE IN AGENCY

DEPARTMENT OF EDUCATION GOVERNMENT OF GUAM ?. O. BOX DE AGANA, GUAM 98910:

December 5, 1979

# ANNOUNCEMENT

THE DEPARTMENT OF EDUCATION ANNOUNCES OPEN AND PROMOTIONAL EXAMINATION FOR THE FOLLOWING CLASS TO ESTABLISH A LIST:

#### CONTINUOUS

#### COMPUTER SYSTEMS ANALYST IV

DUTY: Twelve Months

SALARY: PR29 - \$13,620 - \$13,560 P/A

#### NATURE OF WORK IN THIS CLASS:

This is difficult and responsible technical data processing and computer systems analyses work with considerable latitude in the exercise of independent judgment and actions subject, however, to the administrative direction of the division and/or branch head in performing a variety of assignments in the gathering, analyzing, and making formal presentations of the various systems within the Government of Guam in accordance with established laws, rules, regulations, policies, procedures, and program objectives.

Work is reviewed through conferences, work accomplishments, and submission of reports. Work may occasionally involve the supervision of technical or clerical employees in the respective branch or in the performance of other specific programs having overall supervision.

#### ILLUSTRATIVE EXAMPLES OF WORK:

Formulates and recommends work procedures relating to gathering, analyzing, and making formal presentations of the various systems within the Government of Guam for the ultimate use, in data processing and computer machines.

Initiates plans, programs, and procedures for the performance of responsible technical data processing and computer systems analyses work and recommends adjustments, improvements, and rennovation therefrom.

Initiates action in organizing information into accessible work files; documenting procedures and operating methods; designing systems improvements and identifications of data in the processing of applications; and developing costs statistics in which economic evaluations can be based, etc.

Performs related computer systems analyses work as required.

#### DESTRABLE KNOWLEDGES, ABILITIES, AND SKILLS:

Thorough knowledge of the modern principles, practices, systems, and procedures and mechanization in data processing and computer operations.

Thorough knowledge of governmental functions and organizations.

Considerable knowledge of modern office practices and procedures.

COMPUTER SYSTEMS ANALYST IV Page 2

Ability to assist in the development of long range plans for the computer systems analyses program of the Government of Guam.

Ability to establish and maintain effective working relationships with departmental officials, subordinates, employees and their representatives, professional groups, and the general public.

Ability to make work decisions in accordance with laws, rules and regulations, and to apply departmental policies and procedures

Ability to prepare reports and to do statistical research work.

Ability to express oneself clearly and concisely, orally and in

Skill in the use and care of variety of data and computer machines.

## DESTRABLE EXPERIENCE AND TRAINING:

- (A) Graduation with a Bachelor's degree from a recognized college or university in business administration, or closely related field, plus three (3) years of progressively responsible experience in data processing installation and computer systems; or
- (3) Graduation from high school or possession of a certificate of high school equivalency (GED), plus six years of progressively processing installation and computer systems; or
- (C) Any equivalent combination of experience and training.

Interested persons may apply directly to the Office of the Associate Superintendent - Personnel Services at the Department of Education, Pacific Arcade Building in Agana. For further information call 4728-900 or 4728-909.

FELISA B. GUTTERREZ Associate Superintendent - Personnel

of the east

Name: Jeffrey E. Shafer

Social Security Number: 521-52-7743

Present Address: P.O. Box 1787

Agana, Guam 96910

Telephone: 472-8532 (work); 789-1648 (home)

Marital Status: Married

Date of Birth: February 13, 1943.

Place of Birth: Cincinnatti, Ohio, USA

EDUCATION:

196T-1966

University of Nebraska

Lincoln, Nebraska

Obtained B.S. in Microbiology

1966-1968

Colorado State College

Greeley, Colorado

Obtained M.A. in Science Education/Biology

University of Northern Colorado

Greeley, Colorado

Obtained Ed.D. in Science Education/Research,

Statistical Methods and Evaluation

### OTHER PROFESSIONAL TRAINING:

NWREL Audit and Evaluation Training Program

Evaluation

Evaluation Improvement Training - California's

State Department of Education. Western

Region Interstate Planning Project

Center for the Study of Evaluation, Workshop 1977

in Program Planning, Implementation and

Evaluation UCLA

Title | Technical Assistance Workshop - NWREL

#### WORK EXPERIENCE:

1978-Present

- OData Systems Consultant for the Guam Department of Education, Agana, Guam. Responsibilities include evaluation of the Guam Teachers' Center project, direction of the Guam Educational Management Information Systems ESEA Title IV project, lending technical assistance to the needs assessment project. Title II Basic Skills and: Title I Evaluation, utilizing systems analysis techniques to develop systematic procedures to meet the statistical information requirements of the Department using SPSS and other related programs, direction of the NCES Common Core of Data Survey Project and general administrative responsibility over a small staff of professional and non-professionals engaged in data collection, storage, retrieval, planning evaluation and research.
- <sup>a</sup>Part time professor, University of Guam.
  Taught basic statistical courses to graduate education majors up through analysis of variance and graduate level course in program evaluation.

1976-1978

- Private Consultant for the Center for Education and Management of Greeley, Colorado.

  Responsibilities include third party evaluation studies, process monitoring, report writing and development of evaluation oriented handbooks for implementing and evaluating career education programs. Secured program evaluation contracts for ESEA Title VII on Guam; developed company brochures in report writing, monitoring, technical reviews and discrepancy analysis evaluation models. Co-authored two handbooks: one on implementation for Experienced Based Career Education; one (in press) on Evaluation Designs for Experienced Based Career Education in Wyoming. Authored a resource guide for career education in the State of Wyoming.
- Research Assistant in Evaluation, Center for Special and Advanced Projects, University of Northern Colorado, Greeley, Colorado.

  As a research assistant working out of the University's Office of Program Evaluation was responsible for evaluation research designs, site reviews, formative evaluation studies of several on-going University programs and data analysis/report writing.

Authored student follow-up reports for external degree programs in Art and Sciences, conducted onsite audits of the UNC Reading and Writing Program, Bilingual Traineeship Program as well as developed a model evaluation design for external degree programs. Also developed management plans for the Content Reading and Writing Program and conducted the evaluations (instrument design and summaries) for the UNC Science-Math Council Summer workshops.

Supervisor, Student Field Experiences, University of Northern Colorado, Greeley, Colorado.

As: content consultant in science was responsible for the supervision of junior and senior high student teachers in science during the fall quarter 1976.

1974-1976

- e Educational Evaluator, Office of Planning, Evaluation and Federal Programs, Department of Education, Agana, Guam.

  As an educational evaluator was responsible for the implementation of a district-wide accountability system that involved locally constructed criterion referenced tests in language arts, mathematics, science and social studies. Was also responsible for the evaluation of several federally funded programs (Title I, Title III, ESEA Title VII, ESSA). Also was responsible for proposal writing and development, program planning, monitoring and evaluation designs.
- Authored a number of proposals for federal funding, oral and written reports to the Territorial Board of Education and Guam Legislature, Title IV State Evaluation Plan, technical reviews, technical assistance to various projects and the Title III State Advisory Council.

1973-1974

Coordinator of Year Round School Studies, Guam Department of Education, Agana, Guam. As the coordinator was responsible for year round education feasibility studies and community surveys. Completed feasibility study and community survey of opinion and attitudes towards the concept of year round education. Project was discontinued due to lack of seed money.

Also during this time co-coordinated a summer school aide training project.

1969-1973

OScience Teacher, Guam Public Schools, Agana, Guam. During this period of time was assigned to teach junior and senior high school science. Developed an innovative independent study program for the senior high school, coached football one year and was chosen by the senior class to present the keynote address at graduation.

1968-1969

Grand Junction, Colorado. Chaired the Science Department Self-Study accreditation committee.

1967-1968

Research Assistant in Education, University of Hawaii, Honolulu, Hawaii. As a graduate research assistant in education was responsible for editing manuscripts for publication, substitute university level instruction. Edited science disvovery lessons and provided assistance to science education faculty.

1966-1967

Ford Foundation Fellow. Experimental Teacher Education Project, Colorado State College, Greeley, Colorado. As a Fellow was responsible for constructing test items in the earth, physical and biological science and assisting science education faculty in project work. Items written became a part of a published series of elementary discovery activities in the Physical, Life and Earth sciences.

In addition to the above experience Or. Shafer has had first hand experience with SPSS, SAS computer packages, FORTRAN IV and systems analysis as well as formal University level course work in computer programming and multiple regression analysis techniques.

#### OTHER ACTIVITIES:

1971-1973 Vice President, Guam Science Teacher Association

1970-1971 Advisor, AYA (All Island Youth Association) Guam

1977-present Member, American Educational Research Association

(AEAA)

-1977-1978 Member, American Association University Professors

(AAUP)

1977-1979 Member, National Science Teachers Association (NSTA)

#### HONORS AND AWARDS:

1960 National Honor Society

1961 Elk's Leadership Award

Football Scholarship - University of Nebraska

1965-present Lamba Sigma Tau, National Science Honorary

1974-present Membership in Phi Delta Kappa - international

professional education fraternity Charter member Guam Chapter

#### PUBLICATIONS AND PAPERS':

Shafer, Jeffrey E. Nelson, Steven. Language Arts Needs Assessment - The Opinion Survey. Guam Department of Education, August 1979.

Shafer, Jeffrey E. Guam Educational Management Information Concept Paper. Guam Department of Education, December 1979.

Shafer, Jeffrey E. Guam Public Schools: A Study of Reading Readiness in Kindergarten Students. Guam Department of Education. May-July 1979

Appendix F

#### BUDGET

#### Travel

Round trip airfare from U.S. to Guam and return. Transportation for educational data processing consultant and per diem.

\$ 3,000

#### Local

600 miles @ 21¢ /mile travel for consultant and staff

126

#### Contracted Services

0	Educational Data Processing	28,000
	Consultant (I.O F.T.E.)	8 2
0	Printing of training packets	1,200
٥	Printing of system documents	1,500
۰	Misc. printing of forms	2,500

#### Supplies

Xerox paper (20 cases)	500
Notebooks/Spiral (40 notebooks)	200
FMS Handbooks (50@ \$10 each)	500

Total = \$ 37,526

#### PART V

#### ASSURANCES

The Applicant hereby assures and certifies that he will comply with the regulations, policies, guidelines and requirements, including CMB Circulars No. A-95, A-102 and FMC 74-4, as they relate to the application, acceptance and use of Federal funds for this federally-assisted project. Also the Applicant assures and certifies to the grant that:

- 1. It possesses legal authority to apply for the grant: that a resolution, motion or similar action has been duly adopted or passed as an official act of the applicant's governing body, authorizing the filing of the application, including all understandings and assurances contained therein, and directing and authorizing the person identified as the official representative of the applicant to act in connection with the application and to provide such additional information as may be required.
- 2. It will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-152) and in accordance with Title VI of that Act, no person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the applicant receives Federal financial assistance and will immediately take any measures necessary to effectuate this agreement.
- 3. It will comply with Title VI of the Civil Rights Act of 1964 (42 USC 2000d) prohibiting employment discrimination where (1) the primary purpose of a grant is to provide employment or (2) discriminatory employment practices will result in unequal treatment of persons who are or should be benefiting from the grant-aided activity.
- 4. It will comply with requirements of the provisions of the Uniform Relocation Assistance and Real Property Acquisitions Act of 1970 (P.L. 91-646) which provides for fair and equitable treatment of persons displaced as a result of Federal and federally-assisted programs.
- It will comply with the provisions of the Hatch Act which limit the political activity of employees.
- 6. It will comply with the minimum wage and maximum hours provisions of the Federal Fair Labor Standards Act. as they apply to hospital and educational institution employees of State and local governments.
- 7. It will establish safequards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.
- 8. It will give the sponsoring agency or the Comptroller General through any authorized representative the access to and the right to examine all records, books, papers, or documents related to the grant.

- It will comply with all requirements imposed by the Federal sponsoring agency concerning special requirements of law, program requirements, and other administrative requirements.
- 10. It will insure that the facilities under its ownership, lease or supervision which shall be utilized in the accomplishment of the project are not listed on the Environmental Protection Agency's (EPA) list of Violating Facilities and that it will notify the Federal grantor agency of the receipt of any communication from the Director of the EPA Office of Federal Activities indicating that a facility to be used in the project is under consideration for listing by the EPA.
- 11. It will comply with the flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973, Public Law 93-234, 87 Stat. 975, approved December 31, 1976, Section 102 a) requires, on and after March 2, 1975, the purchase of flood insurance in communities where such insurance is available as a condition for the receipt of any Rederal financial assistable for construction or aquisition purposes for use in any area that has been identified by the Secretary of the Department of Housing and Grean Development as an area having special flood hazards. The phrase "Tederal financial assistance" includes any form of loan, grant, quaranty, Losurance payment, repate, subsidy, disaster assistance loan or grant, or any other form of direct or indirect Federal assistance.
- 12. It will assist the Federal grantor agency in its compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 USC 470); Executive Order 11593, and the Archeological and Historic Preservation Act of 1966 (16 USC 469a-1 et seg.) by (a) consulting with the State Historic Preservation Officer on the conduct of investigations, as necessary, to identify properties listed in or eligible for inclusion in the National Register of Historic Places that are subject to adverse effects (see 36 CFR Part 906.5) by the activity, and notifying thu Federal grantor agency of the existence of any such properties, and by (b) complying with all requirements established by the Federal grantor agency to avoid or mitigate adverse effects upon such properties.

#### NOTICE

- 1. No application for Department of Health, Education, and Welfare assistance is approved unless the applicant has on file with the Department an accepted assurance of compliance with Title VI of the Civil Rights Act of 1964 (Public Law 88-352), on Form HEW 441. If a copy of Form HEW 441 is NOT already on file with the Department, it must be submitted with this application.
- 2. No application for Department of Health, Education, and Welfare financial assistance under any education program or activity is approved unless the applicant has on file with the Department an accepted assurance of compliance with Title IX of the Education Amendments of 1972 (Public Law 92-318), on Form HEW 639A (formerly Form HEW 639). If a copy of Form HEW 639 or Form HEW 639A is NOT already on file with the Department, it must be submitted with this application.
- 3. Department of Health, Education, and Welfare policy requires that if any phase of THIS project will involve subjecting individuals to the risk of physical, psychological, sociological, or other harm, certain safeguards must be instituted and an assurance must be filed on Form HEW 596. If there is any question about application of requirements for protection of human subjects to this project, further information should be requested from the Office of Protection from Research Risks, National Institutes of Health, DHEW, 9000 Rockville Pike, Bethesda, Maryland 20014.
- 4. No application for Department of Health, Education, and Welfare assistance is approved unless the applicant has on file with the Department an accepted assurance of compliance with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), on Form HEW 641. If a copy of Form HEW 641 is NOT already on file with the Department, it must be submitted with this application.
- 5. If this is an application for continued support, include if you have not already done so (a) the report of inventions conceived or reduced to practice required by the terms and conditions of the grant, or (b) a list of inventions already reported, or (c) a negative certification.

NOTE: A copy of each of the four forms enumerated above (Forms HEW 441, 639A, 596, and 641) is attached hereto for your convenience in the event that you may be required to file one or more of them in accordance with the ABOVE instructions. If, however, 1, 2, and/or 4 of the above assurances have been submitted to either the Office of Education (OE) or the Department, another original or copy need not be submitted nor will any OE program insist upon such a duplicate submission as a consideration of any application.

### Explanation Of

# HEW FORM NO. 441, ASSURANCE OF COMPLIANCE WITH THE DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE REGULATION UNDER TITLE VI OF THE CIVIL RIGHTS ACT OF 1964

Section 80.4 of the Department of Health, Education, and Welfare's Regulation effectuating Title VI of the Civil Rights Act of 1964 requires that every application to the Department for Federal financial assistance shall contain or be accompanied by an Assurance that the program or facility to be assisted will be conducted or operated in compliance with Title VI of the Civil Rights Act and with

all requirements imposed by or pursuant to the Department's Regulation.

Section 80.4 further provides that "the form of the foregoing Assurance and the extent to which like Assurances will be required of subgrantees, contractors, transferees, successors in interest and other participants," shall be specified by the responsible Department official. Under this authority, HEW Form No. 441 has been specified as the form of Assurance which shall apply to all applications for Federal financial assistance (except for continuing state programs which must meet the requirements of Section 80.4(b) and school districts availing themselves of Section 80.4(c) of the Regulation) submitted to the Department after January 3, 1965; also the circumstances have been specified under which an Applicant shall obtain comparable written Assurances of compliance from its subgrantees, contractors, and transferees: (See answers to Questions 11 and 12 below in this regard.)

HEW Form No. 441 constitutes a legally enforceable agreement to comply with Title VI of the Civil Rights Act of 1964, and with all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare issued thereunder. Applicants are urged to

read the Department's Regulation before executing the Assurance.

The following explanation of the requirements of the Department's Regulation and the examples of the kinds of discriminatory practices prohibited by them are for the guidance of the Applicants.

1. By executing the Assurance (HEW Form No. 441), what does an Applicant agree to da?

A. The Applicant agrees to make no distinction on the ground of race, color, or national origin in providing to individuals any service, financial aid, or other benefit under any program receiving Federal financial assistance extended to the Applicant by the Department.

2. What is meant by "distinction on the ground of race, color, or national origin"?

A. "Distinction on the ground of race, color, or national origin" includes (1) any type of segregation, separate or different treatment, or other discrimination or that ground; (2) the imposition of any admission, enrollment quota, eligibility, or other requirement or condition which individuals must meet in order to be provided any service, financial aid, or other benefit under a program or to be afforded an opportunity to participate in a program, if the race, color, or national origin of individuals is considered in determining whether they meet any such requirement or condition; (3) the use of membership in a group as a basis for the selection of individuals for any purpose, if in selecting members of the group there is discrimination on the ground of race, color, or national origin; and (4) the assignment of personnel to provide services, or the assignment of times or places for the provision of services, on the basis of the race, color, or national origin of the individuals to be served. It does not, however, include distinctions on the ground of race, color, or national origin determined by the responsible Department official to be necessary to the conduct of research or experimental programs having as their primary objective the discovery of new knowledge concerning special characteristics of particular racial or other ethnic groups.

3. What is meant by "service, financial aid, or other benefit"?

A. "Service, financial aid, or other benefit" under a program receiving Federal financial assistance includes any education or training, any evaluation, guidance, counseling, or placement service, any health, welfare, rehabilitation, housing, or recreational service, any referral of individuals for any of the foregoing services, any scholarship, fellowship or traineeship stipend or allowance, and any loan or other financial assistance or benefit (whether in cash or in kind), which is made available to individuals (1) with the aid of Federal financial assistance, or (2) with the aid of the Applicant's or of other non-Federal funds required to be made available for the program as a condition to the receipt of Federal financial assistance, or (3) in or through a facility provided with the aid of Federal financial assistance or the non-Federal matching funds referred to in (2).

4. What requirements are placed on the use of facilities?

A. The Applicant agrees to make no distinction on the ground of race; color, or national origin in making available to individuals the use of any land, building, equipment, or other facility leased, acquired, constructed, improved, or equipped with the aid of Federal financial assistance extended to the Applicant by the Department, including-

(a) the use of any room, dormitory, ward, or other space in the facility;

(b) the use of any equipment in the facility;

(c) the use of any office, waiting room, restroom, eating, recreational, concession, or other

accommodation or convenience provided in the facility;

(d) the use of any facility not provided with the aid of Federal financial assistance if the availability of such facility is required as a condition to the receipt of Federal financial assistance for the Federally-assisted facility.

5. What requirements are placed on the opportunities to participate in a program receiving Federal assistance?

A. The Applicant agrees to make no distinction on the ground of race, color, or national origin in affording opportunities to individuals to participate (other than as employees) in any program receiving Federal financial assistance extended by the Department to the Applicant, including opportunities to participate-

(a) as providers of any service, financial aid, or other benefit to individuals under the program (e.g., as physicians, surgeons, dentists, or other professional practitioners seeking the privilege of

practicing in a Federally-aided hospital or other facility),

(b) as conferees, observers, consultants, or advisers, or as members of advisory or planning

groups, or

(c) as volunteers (e.g., as voluntary workers, or as patients or other subjects of study or experimentation in research, survey, demonstration, or like programs).

6. Dies that mean that an Applicant who signs the Department's Assurance may nevertheless make distinctions among his employees on the basis of race, color, or national origin?

A. Title VI of the Civil Rights Act does not concern itself with employment practices except where a primary objective of the Federal financial assistance is to provide employment. Thus, where a basic objective of the program is to provide employment, the Applicant's employment practices are subject to the Department's Regulation. However, even where this is not the case an Applicant may be precluded from engaging in any discriminatory employment practices under the provisions of Title VII of the Civil Rights Act, Executive Orders 10925 and 11114, and the Merit System Regulations.

7. When an Applicant's employment practices are covered by the Department's Regulation, what requirements must be mel?

A. The Applicant agrees to make no distinction on the ground of race, color, or national origin in its employment practices (including recruitment or recruitment advertising, hiring, layoff or termination, upgrading, demotion, or transfer, rates of pay or other forms of compensation, and use of facilities) with respect to individuals seeking employment or employed under any program receiving Federal financial assistance extended to the Applicant by the Department, in those programs where a primary objective of the Federal financial assistance is to provide employment to such individuals. This includes programs under which the employment is provided—

(a) as a means of extending financial assistance to students or to needy persons,

(b) to students, fellows, interns, residents, or others in training for related employment

(including research associates or assistants in training for research work), or

(e) to reduce unemployment or to provide remunerative activity to individuals who because of severe handicaps cannot be readily absorbed in the competitive labor market.

- 8. What effect will the Regulation have on a college or university's admission practices or other practices related to the
- A. An institution of higher education which applies for any Federal financial assistance of any kind must agree that it will make no distinction on the ground of race, color, or national origin in the admission practices or any other practices of the institution relating to the treatment of students.

(a) "Student" includes any undergraduate, graduate, professional, or postgraduate student, fellow, intern, student, or other trainee receiving education or training from the institution.

(b) "Admission practices" include recruiting and promotional activities, application requirements, eligibility conditions, qualifications, preferences, or quotas used in selecting individuals for

admission to the institution, or any program of the institution, as students.

- (c) "Other practices relating to the treatment of students" include the affording to students of opportunities to participate in any educational, research, cultural, athletic, recreational, social, or other program or activity; the performance evaluation, discipline, counseling of students; making available to students any housing, eating, health, or recreational service; afforting work opportunities, or scholarship, loan or other financial assistance to students; and making available for the use of students any building, room, space, materials, equipment, or other facility or property.
- 9. Does the Assurance of nondiscrimination apply to the entire operation of an institution?
- A. Insofar as the Assurance given by the Applicant relates to the admission or other treatment of individuals as students, patients, or clients of an institution of higher education, a school, hospital, nursing home, center, or other institution owned or operated by the Applicant, or to the opportunity to participate in the provision of services, financial aid, or other benefits to such individuals, the Assurance applies to the entire institution. In the case of a public school system the Assurance would be applicable to all of the elementary or secondary schools operated by the Applicant.
- 10. What about a university which operates several campuses?
- A. Section 80.4(d)(2) of the Regulation provides for a more limited Assurance only where an institution can demonstrate that the practices in part of its operation in no way affect its practice in the program for which it seeks Federal funds. This would be a rare case
- 11. If an Applicant intends to make use of other individuals to help arry out the Federally-assisted program, does the requirement not to discriminate apply to such a subgrantee co contractor?
- A. It does. The Applicant must require any individual, organization, or other entity which it utilizes, to which it subgrants, or with which it contracts or otherwise arranges to provide services. financial aid, or other benefits under, or to assist it in the conduct of, any program receiving Federal financial assistance extended to the Applicant by the Department, or with which it contracts or otherwise arranges for the use of any facility provided with the aid of Federal financial assistance for a purpose for which the Federal financial assistance was extended, to comply fully with Title VI of the Civil Rights Act of 1964 and the Regulation of the Department of Health, Education, and Welfare
- 12. Must this Assurance of nondiscrimination by the subgrantee, as, be in uriting?
- A. In the case (1) of any contractual or other arrangement with another such individual or entity which will continue for an indefinite period or for a period of more than three months, (2) of any subgrant, or (3) of any conveyance, lease, or other transfer of any real property or structures thereon provided with the aid of Federal financial assistance extended to the Applicant by the Department, the Applicant shall obtain from such other person, subgrantee, or transferee, an agreement, in writing, enforceable by the Applicant and by the United States, that such other individual or entity, subgrantee, or transferee will carry out its functions under such subgrant, or contractual or other arrangement, or will use the transferred property, as the case may be, in accordance with Title VI of the Act and the Regulation will otherwise comply herewith.
- 13. What obligations does the Applicant have to inform beneficiaries, participants, and others of the provisions of
- A. The Applicant must make available to beneficiaries, participants, and other interested persons information regarding the provisions of the Regulation and protections against discrimination provided under Title VI of the Civil Rights Act. The Department will issue shortly more detailed instructions on carrying out this phase of the Regulation.

- 14. What obligations does the Applicant have to keep records and to make them available to the Department?
- A. From time to time, Applicants may be required to submit reports to the Department, and the Regulation provides that the facilities of the Applicant and all records, books, accounts, and other sources of information pertinent to the Applicant's compliance with the Regulation be made available for inspection during normal business hours on request of an officer or employee of the Department specifically authorized to make such inspections. More detailed instructions in this regard will also be forthcoming from the Department in the near future.
- 15. Must uparate Assurance forms be filed with each application?
- A. As a general rule once a valid Assurance is given it will apply to any further application as long as there is no indication of a failure to comply.

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## ASSURANCE OF COMPLIANCE WITH THE DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE REGULATION UNDER TITLE VI OF THE CIVIL RIGHTS ACT OF 1964

(hereinafter called the "Applicant")

GUAM DEPARTMENT OF EDUCATION

(Name of Applicant)

(P.L. 88-352) and all requirements imposed of Health, Education, and Welfare (45 CFR) in accordance with title VI of that Acr and on the ground of race, color, or national ori benefits of, or be otherwise subjected to dithe Applicant receives Federal financial as	ly with title VI of the Civil Rights Act of 1964 by or pursuant to the Regulation of the Department Part 80) issued pursuant to that title, to the end that, the Regulation, no person in the United States shall, gin, be excluded from participation in, he decied the iscrimination under any program or activity for which essistance from the Department; and HEREBY GIVES are any measures necessary to effectuate this agree-
assistance extended to the Applicant by Applicant, or in the case of any transfer o which the real property or structure is used ance is extended or for another purpose invited, period during which it retains ownership or	provided or improved with the aid of Federal financial the Department, this assurance shall obligate the f such property, any transferee, for the period during for a purpose for which the Federal financial assist- colving the provision of similar services or benefits, this assurance shall obligate the Applicant for the possession of the property. In all other cases, this the period during which the Federal financial assist-
Federal grants, loans, contracts, propert extended after the date hereof to the App ments after such date on account of appli approved before such date. The Applican assistance will be extended in reliance assurance, and that the United States shall assurance. This assurance is binding on the	on of and for the purpose of obtaining any and all y, discounts or other Federal financial assistance licant by the Department, including installment paycations for Federal financial assistance which were t recognizes and agrees that such Federal financial on the representations and agreements made in this is have the right to seek judicial enforcement of this as Applicant, its successors, transferees, and assignatures appear below are authorized to sign this assur-
Dated AUG 1 2 1980	Guam Department of Education
	By Alexant B. (President, Chairman of Board, on comparable
P.O. Box DE	Katherine B. Aguon, Director of Education
P.O. Box DE  Agana, Guam 96910 (Applicant's mailing address)	(President, Chairman of Board, on comparable authorized official)

#### Explanation Of

HEW FORM 639 A (3/77), ENTITLED "ASSURANCE OF COMPLIANCE WITH TITLE IX OF THE EDUCATION AMENDMENTS OF 1972 AND THE REGULATION OF THE DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE IN IMPLEMENTATION THEREOF"

Section 901 of Title IX of the Education Amendments of 1972 provides that no person shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Section 902 of Title IX authorizes and directs the Department of Health, Education, and Welfare (hereinafter the "Department") to effectuate the nondiscrimination requirements of section 901 by issuing rules, regulations, and orders of general applicability. Pursuant to section 902, the Department has issued 45 C.F.R. Part 86 (hereinafter "Part 86") which became effective on July 21, 1975.

Section 86.4 of Part 86 requires that every application for Federal financial assistance for any education program or activity shall, as a condition of its approval, contain or be accompanied by an assurance from the applicant satisfactory to the Director of the Office for Civil Rights (hereinafter the "Director") that each education program or activity operated by the applicant and to which Title IX of the Education Amendments of 1972 and Part 86 apply will be operated in compliance with Part 86.

Section 86.4 also provides that the Director will specify the form of the assurance required and the extent to which such assurance will be required of the applicant's subgrantees, contractors, subcontractors, transferees, or successors in interest. Under this authority, HEW Form 639 A, (3/77) has been specified as the form of assurance which shall apply to all recipients of and applicants for Federal financial assistance subject to the provisions of Title IX and awarded by the Department.

HEW Form 639 A, (3/77) constitutes a legally enforceable agreement to comply with Title IX and all of the requirements of Part 86. Applicants are urged to read Part 86 and the accompanying preamble. The obligation obligation not to discriminate on the basis of sex imposed by Title IX and Part 86 are independent of, and do not alter, the obligation not to discriminate on the basis of sex imposed by Title VII of the Civil Rights Act of 1964 (20 U.S.C. 2000e et seq.); Executive Order 11246, as amended; sections 799A and 855 of the Public Health Service Act (42 U.S.C. 295h-9 and 298b-2); and the Equal Pay Act (29 U.S.C. 206 and 206 (d)).

## PERIOD OF ASSURANCE

HEW Form 639 A, (3/77) is binding on a recipient for a period during which Federal financial assistance is extended to it by the Department. With improvement of real or personal property, such period shall include the time during which the real or personal property is used for the purpose of otherwise convey title to real and personal property purchased or improved is consistent with the laws and regulations under which the recipient has obtained the property and it has obtained a properly executed convey the title unless the property in question is no longer to be used market value of such property has been refunded or otherwise properly accounted for to the Federal government.

An applicant or recipient which has submitted an HEW Form 639 A, (3/77) to the Director need not submit a separate form with each grant application but may, if the information contained therein remains accurate, simply incorporate by reference, HEW Form 639 A, (3/77), giving the date it was submitted. On the other hand, a revised HEW Form 639 A, (3/77) must be submitted within 30 days after information contained in the submitted form becomes inaccurate, even if no additional financial assistance is being sought.

## OBLIGATION OF RECIPIENT TO OBTAIN ASSURANCES FROM OTHERS

As indicated in Article III, paragraph 2, of the Assurance, if a recipient subgrants to, or contracts, subcontracts, or otherwise arranges with an individual, organization, or group to assist in the conduct of an education program or activity receiving Federal financial assistance from the Department or to provide services in connection with such a program or activity, the recipient continues to have an obligation to ensure that the education program or activity is being administered in a nondiscriminatory manner. (See 45 C.F.R. 86.31.) Accordingly, the recipient must take reasonable steps to ensure that the individual, organization, or group in question is complying with Title IX and Part 86. These steps may include, but do not necessarily require, obtaining assurances of compliance from such subgrantees, contractors, and subcontractors in the form of, or modeled on, the HEW Form 639A, (3/77). These steps to require, however, such activities as may be reasonably necessary to monitor the compliance of these subgrantees, contractors, or subcontractors, regardless of whether they have submitted assurances to the recipient. If a recipient is unable to assure itself that any contractor, subcontractor, subgrantee, or other individual or group with whom it arranges to provide services or benefits to its students and employees does not discriminate on the basis of sex as described in Part 86, the recipient may not initiate or continue contracts, subcontracts, or other arrangements with that individual or group or make

## ADMINISTRATIVELY SEPARATE UNITS

If an educational institution is composed of more than one administratively separate unit, a separate HEW Form 639 A, (3/77) may be submitted for each unit or one may be submitted for the entire institution. If separate forms are submitted, the administratively separate unit for which the form is submitted should be clearly identified in the first line of HEW Form 639 A, (3/77). An "administratively separate unit" is defined as a school, department or college of an educational institution (other than a local educational agency) admission to which is independent of admission to any other component of such institution. See 45 C.F.R. 86.2(o).

#### STATE EDUCATION AGENCIES

State education agencies are generally not responsible for running pre-school, kindergarten,, elementary or secondary programs. Such responsibility is generally left to local aducation agencies although some supervisory authority may be vested with the state education agency. Consequently, most state agencies should not check the boxes for "Pre-school," "Kindergarten," or "Elementary or Secondary" in Article I of HEW Form 639 A, (3/77). If the state agency runs special programs for the handicapped, including those on the pre-school, kindergarten, elementary, or secondary level, the box marked "Other" should be checked and the appropriate description inserted in the space provided.

Under Article III, paragraph 5, of HEW Form 639A, (3/77) a state education agency may be called upon from time to time to submit reports necessary to determine Title IX compliance by local education agencies within its jurisdiction. The form and content of such reports will be specified by the Director at the time the request is made.

#### RELIGIOUS EXEMPTION

Applicants or recipients which are educational institutions controlled by a religious organization are not covered by Part 86 to the extent that application of Part 86 would be inconsistent with the religious tenets of the controlling religions organization.

Section 86.12 of Part 86 requires an institution seeking an exemption to submit a written statement to the Director identifying the provisions of Part 86 which conflict with a specific tenet of the controlling religious organization. Such a statement must be signed by the highest ranking official of the educational institution claiming the exemption. An applicant or recipient claiming an exemption is not relieved of its obligations to comply with that portion of Part 86 not specified in its statement to the Director as being inconsistent with the tenets of the controlling religious organization.

Although 86.12 imposes no time restrictions when a recipient or applicant may claim an exemption, applicants or recipients are urged to make such claims when they initially submit HEW Form 639 A, (3/77) by checking the appropriate box in Article I of HEW Form 639 A, (3/77) and attaching thereto the statement required by 86.12(b). Such an approach will avoid misunderstandings on the part of both the Department and the applicant or recipient as to what, if any, action is required under Part 86.

An applicant or recipient will normally be considered to be controlled by a religious organization if one or more of the following conditions prevail

- (1) It is a school or department of divinity; or
- (2) It requires its faculty, students or employees to be members of, or otherwise espouse a personal belief in, the religion of the organization by which it claims to be controlled; or
- (3) Its charter and catalog, or other official publication, contains explicit statement that it is controlled by a religious organization or an organ thereof or is committed to the doctrines of a particular religion, and the members of its governing body are appointed by the controlling religious organization or an organ thereof, and it receives a significant amount of financial support from the controlling religious organization or an organ thereof.

The term "school or department of divinity" means an institution or a department or branch of an institution whose program is specifically for the education of students to prepare them to become ministers of religion or to enter upon some other religious vocation, or to prepare them to teach theological subjects. (This definition is adopted from section 1201(1) of the higher Education Act of 1965, P.L. 89-329.)

ASSURANCE OF COMPLIANCE WITH TITLE IX OF THE EDUCATION AMENDMENTS OF 1972 AND THE REGULATION ISSUED BY THE DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE IN IMPLEMENTATION THEREOF

(PLEASE READ EXPLANATION OF HEW FORM 639 A (3/77)\* BEFORE COMPLETING

Pursuant to 45 C.F.R. 86.4:

Guam Department of Education (Name of Applicant or recipient

P.O. Box DE (address)

Agana, Guam 96910

(city, state, zip code)

(identifying code-FICE, OE, or IRS)

(hereinafter the "Applicant") gives this assurance in consideration of and for purpose of obtaining Federal education grants, loans, contracts (except contracts of insurance or guaranty), property, discounts, or other Federal financial assistance to education programs or activities from the Department of Health, Education, and Welfare (hereinafter the "Department"), including payments or other assistance hereafter received pursuant to applications approved prior

ARTICLE I - TYPE OF INSTITUTION SUBMITTING ASSURANCE.

- A. The Applicant is (check the following boxes where applicable):
  - A state education, agency. A local education agency.
  - 3. A publicly controlled educational institution or organization.
  - A privately controlled educational institution or organization. A person, organization, group or other entity not primarily engaged in education. If this box is checked, insert primary purpose or activity of Applicant in the space provided below:

<sup>\*</sup>HEW Form 639 A (3/77) This form supersedes HEW Form 639 (7/76). HEW Form 639 (7/76) submitted prior to this revision are valid and recipients need not submit a new assurance.

- B. () Claiming a religious exemption under 45 C.F.R. 86.12(b).

  (If religious exemption is claimed, attach statement by highest ranking official of Applicant identifying the specific provisions of 45 C.F.R. Part 86 which conflict with a specific religious tenet of the controlling religious organization
- C. The Applicant offers one or more of the following programs or activities (check where applicable):
- 1. ( ) Pre-school 6. ( ) Undergraduate (including junior and community college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior and college junior an

for the handicapped even if provided on the pre-school, elementary or secondary level). If this box is checked, give brief description below:

ARTICLE II-PERIOD OF ASSURANCE. This assurance shall obligate the Applicant for the period during which Federal financial assistance is extended to it by the Department.

ARTICLE III-TERMS AND CONDITIONS. The Applicant hereby agrees that it will:

- 1. Comply, to the extent applicable to it, with Title IX of the Education Amendments of 1972 (P.L. 92-318), as amended, 20 U.S.C. 1681, 1682, 1683, and 1685 (hereinafter, "Title IX"), and all applicable requirements imposed by or pursuant to the Department's regulation issued pursuant to Title IX, 45 C.F.R. Part 86 (hereinafter, "Part 86"), to the end that, in accordance with Title IX and Part 86, no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any education program or activity for which the Applicant receives or benefits from Federal financial assistance from the Department. (This assurance does not apply to sections 904 (proscribing denial of admission to course of study on the basis of blindness) and 906 (amending other laws) of Title IX, 20, U.S.C. 1684 and 1686.)
- 2. Assure itself that all contractors, subcontractors, subgrantees or others with whom it arranges to provide services or benefits to its students or employees in connection with its education program or activity are not discriminating on the basis of sex against these students or employees.

- 3. Make no transfer or other conveyance of title to any real or personal property which was purchased or improved with the aid of Federal financial assistance covered by this assurance, and which is to continue to be used for an education program or activity and where the Federal share of the fair market value of such property has not been refunded or otherwise properly accounted for to the Federal government, without securing from the transferee Director and submitting such assurance to the Department.
- 4. Submit a revised assurance within 30 days after any information contained in this assurance becomes inaccurate.
- 5. If the Applicant is a state education agency, submit reports in a manner prescribed by the Director under 45 C.F.R. 80.6(b) as to the compliance with or activities within its jurisdiction.

ARTICLE IV-DESIGNATION OF RESPONSIBLE EMPLOYEE AND ADOPTION OF GRIEVANCE PROCEDURES. (Check the appropriate box.)

- A. 1. ( ) Pursuant to 45 C.F.R. 86.8, the Applicant has adopted grievance procedures and designated the following employee to coordinate its efforts to comply with Part 86 and has notified all of its students and employees of these grievance procedures and the following name, address and telephone number of the designated employee:
  - 2. Joseph Rhatigan, Employee/Management Relations Officer (name of employee)
  - 3. P.O. Box DE, Agana, Guam 96910 (Office address)
  - 4, 472-8901

(telephone number)

B. l. ( ) The Applicant is not presently receiving Federal financial assistance subject to Part 86 and, consequently, has not designated a responsible employee or adopted grievance procedures pursuant to 45 C.F.R. 86.8 but will do so immediately upon award of such assistance and will immediately notify the Director, its students and employees of the name, office address, and telephone number of the employee so designated.

ARTICLE V - SELF-EVALUATION. (Check the appropriate box.)

- A. ( ) The Applicant has completed a self-evaluation as required by 45 C.F.R. 86.3(c) and has not found it necessary to modify any of its policies and practices or to take any remedial steps to come into
- 8. ( ) The Applicant has completed a self-evaluation as required by 45 C.F.R. 86.3(c) and has ceased to carry out any policies and practices which do not or may not meet the requirements of Part 86 and is taking any necessary remedial steps to eliminate the effects of any discrimination which resulted or may have resulted from adherence to such policies and practices.
- C. (x) The Applicant has not completed the self-evaluation required by 45 C.F.R. 86.3(c) but expects to have it completed by December 30, 1980 insert date
- D. ( ) The Applicant is not required to conduct a self-evaluation under 45 C.F.R. 86.3 since it did not receive any Federal financial assistance to which Part 86 applies prior to July 21, 1976.

Date: Aug 1 3 1980

Guam Department of Education (Insert name of Applicant)

(This document must be signed by

an official legally authorized to contractually bind the Applicant.)

Director of Education (Insert title of authorized official.)

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## DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE ASSURANCE OF COMPLIANCE WITH SECTION 564 OF THE REHABILITATION ACT OF 1973, AS AMENDED

The undersigned (hereinafter called the "recipient") HEREBY AGRES THAT it will comply with section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), all requirements imposed by the applicable HEW regulation (45 C.F.R. Part 84), and all guidelines and interpretations issued pursuant thereto.

Pursuant to § 84.5(a) of the regulation [45 C.F.R. 84.5(a)], the recipient gives this Assurance in consideration of and for the purpose of obtaining any and all federal grants, loans, contracts (except procurement contracts and contracts of insurance or guaranty), property, discounts, or other federal financial assistance extended by the Department of Health, Education, and Welfare after the date of this Assurance, including payments or other assistance made after such date on applications for federal financial assistance that were approved before such date. The recipient recognizes and agrees that such federal financial assistance will be extended in reliance on the representations and agreements made in this Assurance and that the United States will have the right to enforce this Assurance through lawful means. This Assurance is binding on the recipient, its successors, transferees, and assignees, and the person or persons whose signatures appear below are authorized to sign this Assurance on behalf of the recipient.

This Assurance obligates the recipient for the period during which federal financial assistance is extended to it by the Department of Health, Education, and Welfare or, where the assistance is in the form of real or personal property, for the period provided for in § 84.5(b) of the regulation [45 C.F.R. 84.5(b)].

The recipient: [Check (a) or (b)]

- 1. ( ) employs fewer than fifteen persons;
- b. ( ) employs fifteen or more persons and, pursuant to § 84.7(a) of the regulation [45 C.F.R. 84.7(a)], has designated the following person(s) to coordinate its efforts to comply with the HEW regulation:

	Departme Designee(s) —	ent of Education Type or Print		
Department of Education		P.O. Box DE.	C42.	
Name of Recipient - Type or Print A12.	A41	Street Address or P. O. B A42 Agana,	ox	A71
(IRS) Employer Identification Number A1 B1 C1	All Bl1	City B12 Guam	96910	B41
Man I want The property of Line	C11	State B42	av Europe	Zip B71

I certify that the above information is complete and correct to the best of my knowledge.

Date
B72
B77

Katherine B. Agrion, Director of Education
Signature and Title of Authorized Official
B78

If there has been a change in name or ownership within the last year, please PRINT the former name below:

NOTE: The 'A', 'B', and 'C' followed by numbers are for computer use. Please disregard, PLEASE RETURN ORIGINAL TO: Office for Civil Rights, HEW, P. O. Box 3222, Washington, D.C. 20024.

## IMPORTANT NOTICE TO PROSPECTIVE PARTICIPANTS IN USOE CONTRACT AND GRANT PROGRAMS

#### GRANTS'

Applicants for grants from the U.S. Office of Education (USOE) have to compete for limited funds.

Deadlines assure all applicants that they will be treated fairly and equally, without last minute haste.

For these two reasons, USOE must set strict deadlines for grant applications. Prospective applicants can avoid disappointment if they understand that -

Failure to meet a deadline will mean that an application will be rejected without any consideration whatever.

The rules, including the deadline, for applying for each grant are published, individually, in the Federal Register. A one-year subscription to the Register may be obtained by sending \$50.00 to: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. (Send check or money order only, no cash or stamps.)

The instructions in the Federal Register must be followed exactly. Do not accept any other advice you may receive. No USOE employee is authorized to extend any deadline published in the Register.

Questions regarding submission of applications may be addressed to:

U.S. Office of Education Application Control Center Washington, D.C. 20202

#### CONTRACTS

Competitive procurement actions undertaken by the USOE are governed by the Federal Procurement Regulations and implementing HEW Procurement Regulations.

Generally, prospective competitive procurement actions are synopsized in the Commerce Business Daily (CBD). Prospective offerors are therein advised of the nature of the procurement and where to apply for copies of the Request for Proposals.

Offerors are advised to be guided solely by the contents of the CBD synopsis and the instructions contained in the Request for Proposals (RFP). Questions regarding the submission of offers should be addressed to the Contracting Officer identified on the face page of the RFP.

Offers are judged in competition with others, and failure to conform with any substantive requirements of the PFP will result in rejection of the offer without any consideration whatever.

Do not accept any advice you receive that is contrary to instructions contained in either the CBD synopsis or the RFP. No USOE employee is authorized to consider a proposal which is non-responsive to the RFP.

A subscription to the CBD is available for \$80.00 per year via second class mail or \$105.00 per year via first class mail. Information included in the Federal Procurement Regulations (FPR) and the Health, Education and Welfare Procurement Regulations (HEWPR) are contained respectively in Title 41, Code of Federal Regulations, Chapters 1 to 2 (\$5.70) and Title 41, Code of Federal Regulations, Chapters 3 to 6 (\$5.90). The foregoing publications may be obtained by sending your check or money order only, no cash or stamps, to:

Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402

In an effort to be certain this important information is widely disseminated, this notice is being included in all USOE mail to the public. You may, therefore, receive more than one notice. If you do, we apologize for any annoyance it may cause you.