**Computer simulation assists planning process.**

**ONPASS** allows you to simulate many situations, such as closing or opening schools, adding new classrooms to existing schools, changing transportation policies, and so on. You can ask questions such as “What if portable classrooms were moved from school A to school B?” or, “What if a pedestrian bridge were built over the freeway?” You can test various assumptions about the makeup of the district’s population in years to come to see what affects they will have on the district’s facility requirements.

**ONPASS USE FLOWCHART**

The above flowchart diagrams a terminal session showing how various conditions can be selected, reset or changed.

Any number of data files can be created to reflect future expectations. For example, student files containing anticipated student populations for years to come can be used to study the adequacy of facilities for the future. EMS’ software makes it easy for you to create and modify these files.

**ONPASS aids transportation planning.**

**ONPASS** includes powerful transportation planning capabilities. Just as it helps the facility planner find optimum school assignment plans, **ONPASS** also helps the transportation planner find optimum bus routes and schedules.

The transportation planning system uses the existing **ONPASS** data base, so the tedium of entering information about bus stops, numbers of students, distances within the transportation network, and school locations is eliminated. The transportation planner only needs to enter information about the district’s transportation policies, the number of buses available, and their capacities.

**ONPASS automatically establishes bus routes and schedules designed to minimize miles traveled.** At any time, you can override the computer’s decisions by reddefining routes or clustering bus stops. What’s more, you can easily evaluate the effects of changes to the district’s transportation policies, such as increasing the distances at which students become eligible for transportation, simply by re-running the program with the new policy definitions. **In minutes, ONPASS will show how the bus routes would be re-drawn and what affect the change would have on the district’s overall transportation cost.**

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*ONPASS is a proprietary software product of Urban Decision Systems.*
Analyze data by computer—not by hand.

The data you’re now manipulating by hand—with maps full of pins and stacks of cards—are the same data ONPASS uses.

Planning unit boundaries shown above, consider existing attendance areas, dwelling types and natural barriers.

The system requires three types of data:

1. Student counts by grade level in each planning unit (geographic area with 50 to 100 dwellings).
2. Locations and capacities of schools.
3. Routes and distances between planning units (geographic connectivity).

You may already have these data in a form that can be used by the computer directly, such as computer tape or punch cards. If not, the data can be gathered by the clerical and administrative staffs of the district with guidance from EMS. (Specific information about EMS appears on the back page of this brochure.)

ONPASS also uses information from the Census Bureau’s Dual Independent Map Encoding (DIME) file, which is already in computer-usable form. EMS will help you obtain the DIME file for your district.

ONPASS adjusts boundaries for ethnic balance.

ONPASS is especially useful when school boundaries must be adjusted to meet ethnic attendance criteria. Data files can be set up to reflect the geographic distribution of minority students, and the system will adjust attendance boundaries to achieve the desired balance.

ONPASS is an economical answer to the planning workload, and it is even more economical when two or more districts share the cost of using the system. Sharing is particularly suitable for a non-unified high school district and its elementary feeder districts. Files containing routes and distances between planning units can be shared, whereas student data files can be maintained individually by each district, and complete confidentiality is assured.

Use ONPASS whenever you need to.

ONPASS is available on the National CSS system, a nationwide computer timesharing service. With a computer terminal in your office, you can use ONPASS simply by dialing the nearest NCSS facility and connecting to the computer by telephone line. You do not need a computer to use ONPASS.

You also do not need any computer experience. EMS will help you prepare your data base and see that the data are entered into the computer. When you’re ready to use ONPASS, you use simple, plain-English Commands. There’s no programming to do, and you don’t need to learn complicated codes or abbreviations. After a brief period of instruction from EMS, anyone can use ONPASS.

EMS provides a comprehensive, detailed user’s manual that contains complete instructions for using the system. In addition, EMS provides continuing support for as long as you use ONPASS. Questions and problems can be taken care of with a phone call, and on-site consulting is available.
EMS—computer services for education.

Educational Measurement Service combines experience in educational research and data processing with the capabilities of a large computer facility to help school systems gather, process, and analyze the information they need for effective administration.

Our staff includes educators as well as data processing experts, so we understand the information needs of school administrators. We can help you to define your information problems, determine what kind of data you need and how to get it, and then decide what has to be done to the data to turn it into meaningful information. If you already have access to data processing facilities, we will write programs in your language to work on your equipment. We don’t try to make your problem fit pre-designed solutions.

Once we’ve determined how to solve your information problems, we go ahead and do it. We gather the data, or we help your staff gather it. Then we use the speed and accuracy of the computer to process the data and prepare reports. Finally, we help you interpret the reports to get the full meaning of the information.

The president of EMS is Bill Gilmore. After 15 years as a classroom teacher, Mr. Gilmore went into administration as a specialist in planning and evaluation. He developed a number of computer models and data processing techniques especially suited to school planning and evaluation. Mr. Gilmore formed Educational Measurement Service in 1973.

Some EMS services:

- ENSIM, an enrollment simulation model that produces estimates of future enrollment, taking into account changes in land use, birth rates, and other demographic data.
- COMPUTEST, an automated system that produces custom-designed tests. Using your specifications, the computer does the formatting and printing of the test from items in your Item Bank.
- TEST ANALYSIS SERVICE, a comprehensive program for test evaluation and revision.
- COMPUT/SCORE, a scoring system for district-wide assessment, minimum competency testing, and classroom testing. Results are displayed by district, school, and classroom. Summarized by item, objective, and goal.
- STUDENT INFORMATION SYSTEM, a system that stores, retrieves, and prints student information. Produces statistical summaries and longitudinal records.
- INVENTORY, EMS’ unique Data Base Management System which stores and retrieves capital outlay items by school, room or item category. Output reports custom-designed to meet user needs.
- DATA BASE MANAGEMENT, a flexible system for student test records, personnel records, inventory, and all other information that needs to be stored and retrieved selectively. Custom-designed reports and statistical analyses are produced whenever they’re needed.
- SURVEY ANALYSIS, a comprehensive service that provides reports or a computer tape according to your specifications. EMS utilizes optical scan data collection forms, survey/questionnaire materials, or your computer-readable data.

A partial list of our clients:

- Aides West, Inc.
  Palo Alto, California
- Alum Rock School District
  San Jose, California
- Anne Arundel County Public Schools
  Annapolis, Maryland
- Beaverton School District
  Beaverton, Oregon
- California Department of Education
  Sacramento, California
- Campbell Union High School District
  San Jose, California
- Cupertino Union School District
  Cupertino, California
- Evergreen Elementary School District
  San Jose, California
- Fairfax County Public
  Fairfax, Virginia
- Los Altos School District
- Los Altos, California
- Mt. View School District
  Mt. View, California
- Oak Grove School District
  San Jose, California
- San Jose State University
  San Jose, California
- Santa Clara County Office of Education
  San Jose, California
- Saratoga Union School District
  Saratoga, California
- Scotts Valley School District
  Scotts Valley, California
- Travis Unified School District
- Travis Air Force Base, California

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