

Division. The data is mainly hard copy, but is being transferred to computer using Dbase IV. The objective is to have all the data on computer by August 1993. Mr. Salinas expressed a desire to use Oracle instead of Dbase.

Mr. Salinas is evaluating software for use with the new system. He has received information from Exsci in Houston, Texas, and Aangstrom in Pleasant, Michigan, as well as Schlumberger. He is looking at the FINDER and Geographix programs.

A key factor in his decision will be his ability to get data from SICORI (see below). The Exploration DataBases area is currently dealing with SICORI to obtain their database and use it with FINDER. If they are unable to do this, they will be looking for alternatives.

A major problem they have had is with coordinates on the maps. Mr. Salinas stated there are 34 different systems used. They are working with SICORI to use satellite photos to position the oil wells with GPS coordinates. A land survey will also be conducted.

While unwilling to give an exact figure, Mr. Salinas indicated that the budgeted amount for 1993 purchases of software and hardware would be in the range of several million dollars. The purchases would be handled through public tender and would be subject to technical evaluation before final selection. Training would be expected to be included in any purchase they make.

The Exploration DataBases area is a result of the PEMEX reorganization. Each of the other three business units will have a similar database department to manage their information needs. This implies that Refining, Gas and Basic Petrochemicals, and Secondary Petrochemicals will also be looking for a GIS to use in their operations. The following is a list of contact people in the other business units in positions similar to that of Mr. Salinas:

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The SICORI project is a new creation of the PEMEX reorganization. It is the technical administrative area for strategic planning. SICORI is basically the corporate information service for executive-level decisions. The project has been in existence for about one year. It has a particular focus on the environmental impacts of PEMEX's operations. PEMEX has had problems with public opposition and court cases related to the environmental impact on residents in the southern states such as Tabasco and Campeche. The project uses INEGI for its base maps.

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The SICORI project is very well funded. It has 15 Clipper 400 workstations with over-size monitors, a Clipper 6000-series server, a Juke Box 54-disk optical reader, a Versatec colour plotter and a Shimco thermal plotter. For software, the project is using Microstation, MGA, MGE and a package for processing satellite images. ORACLE is used for the database. Plans for 1993 include installing satellite stations in the three regional offices and installing sensors in the field for environmental monitoring.

As a result of 1991 international competition, Intergraph of Huntsville, Alabama, won the contract for installation of a geographic information system in SICORI. When asked about upcoming opportunities, Mr. Luis Lara Trujillo, Administrator of Systems and