

# Center for Nuclear Waste Regulatory Analyses

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February 12, 1988

Mr. Joseph O. Bunting  
U.S. Nuclear Regulatory Commission  
Chief of the Systems Engineering & Evaluation Branch  
Office of Nuclear Material Safety & Safeguards  
Division of High-Level Waste Management  
WF1  
Mail Stop 4-H-3  
Washington, D.C. 20555

SUBJECT: Plan and Justification for ORACLE in CNWRA

RE: SwRI letter of January 7, 1988 on CNWRA exceptions to  
the NRC's requirements for microcomputers and  
software in Section H.18, Contract No. NRC-02-88-005

Dear Sir:

The general configuration of the SwRI, CNWRA, and NRC computer system network is attached for your information. It is not intended to be a complete description but simply conveys the context in which ORACLE will operate.

The PC based local area network (LAN) in the CNWRA is where ORACLE will reside initially. It will be used to support a variety of management and control system tasks. It will also be our SQL compatible relational database for supporting the early development of the program architecture. Since we will rapidly outgrow the PC capacity, it is essential to be able to transport the database to a mainframe in the future. ORACLE applications can be moved from micro to mini to mainframe with virtually no modifications. Additionally, ORACLE's distributed architecture lets our data reside on multiple computers and still communicate transparently. And last, but not least, we can develop

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database procedures using SQL commands in ORACLE on the PC's and run them on other SQL mainframe database systems. For the longer term, it appears that significant application tools are presently available with ORACLE to streamline applications development and integrate features, such as full text management and project management scheduling and control.

Sincerely,

A handwritten signature in dark ink, appearing to read "John E. Latz", written in a cursive style.

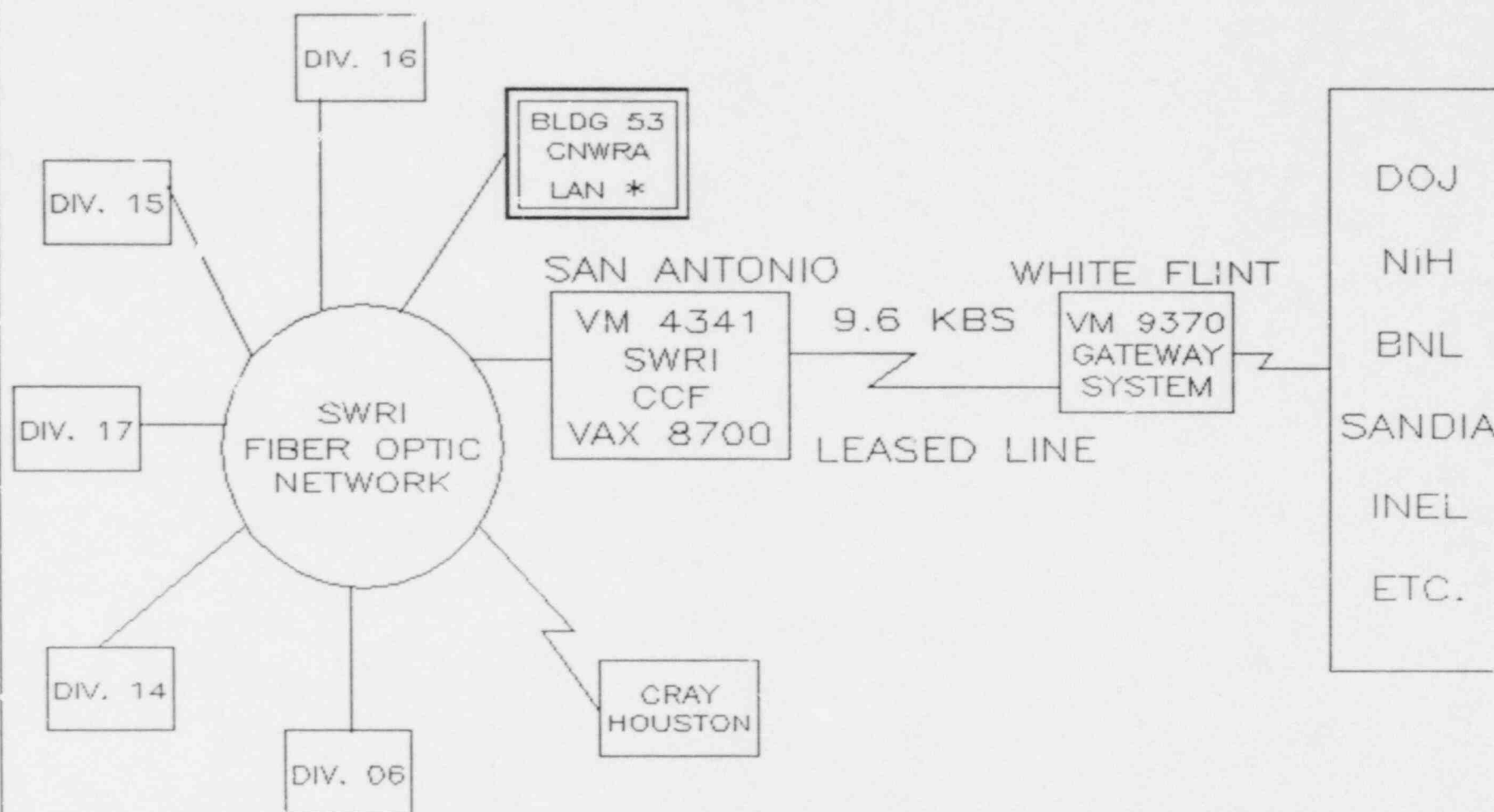
John E. Latz  
President

RDJ:blg

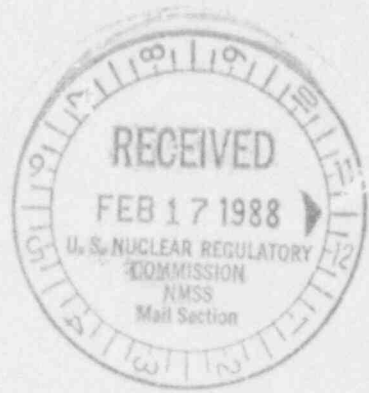
Enclosures

cc: Mike McWilliams - NRC  
P. Altomare - NRC  
W. Patrick - CNWRA  
R. D. Johnson - CNWRA

# SWRI/CNWRA/NRC COMPUTER NETWORK



\* ORACLE



Wm-RES  
WM Record File

ONWRA

WM Project \_\_\_\_\_  
Docket No. \_\_\_\_\_  
FDR \_\_\_\_\_  
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(Return to W/M, 623-SS)