

Sandia National Laboratories

WM DOCKET CONTROL CENTER Albuquerque, New Mexico 87185

October 15, 1983

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Ms. M. J. Wise  
High-Level Waste Licensing  
Management Branch  
Division of Waste Management  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Spring, MD 20910

WM Record File  
A-1166

WM Project 10, 11, 14  
Docket #             
PDR  
LPDR (L.R.N.S)

Distribution:  
MJWise Eileen - Ticket  
PHitte  
(Return to Wm, 623-SS) C2

Dear Ms. Wise:

Enclosed is the monthly report for FIN A-1166, Maintenance of Computer Programs, for September 1983.

Please call or write if you have any questions or comments.

Sincerely,

*Nancy C. Fuley for N.R.O.*  
Nestor R. Ortiz, Supervisor  
Fuel Cycle Risk Analysis  
Division 6413

NRO:6413:jm

Copy to:  
Office of the Director, NMSS  
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PDR WMRES EXISANL  
A-1166 PDR

PROGRAM: Maintenance and Validation FIN#: A-1166  
- of Computer Programs

CONTRACTOR: Sandia National Laboratories BUDGET PERIOD: 10/82 -  
9/83

NMSS PROGRAM MANAGER: M. J. Wise BUDGET AMOUNT: \$306K

CONTRACT PROGRAM MANAGER: N. R. Ortiz FTS PHONE: 844-5644

PRINCIPAL INVESTIGATORS: P. A. Davis FTS PHONE: 846-5421

#### PROJECT OBJECTIVES

The objective is a maintenance task that will ensure that the Sandia computer programs remain consistent with current operating systems, are as error-free as possible, and have up-to-date documentation for NRC. There is also a validation assessment task to identify real physical situations which could provide data for validation of the Sandia computer program.

#### ACTIVITIES DURING SEPTEMBER 1983

##### Intracoin Problems

Results of the Intracoin Level I calculations obtained with the NWFT/DVM (Generalized Network) code were reported to NRC at a meeting on September 2. The other participants on NRC's effort on Intracoin also reported results obtained with SWIFT, NUTRANS and DPCT codes. SNLA results compared favorably with those presented at this meeting as well as those previously tabulated in the Intracoin Level I preliminary report. NWFT/DVM (Generalized Network) was only capable of solving cases I, II, and III.

##### Verification and Validation of the SWIFT Code

Responses to most of the review comments on the verification and validation report were formulated. Prior to publication of this document, a written response to the comments will be provided to NRC.