Sandia National Laboratories

Albuquerque, New Mexico 87185

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August 17, 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

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Dear Ms. Wise:

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

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

Sincerely,

Nestor R. Ortiz. Sypervisor Fuel Cycle Risk Analysis Division 6413

NRO:6413:flp

Copy to: Office of the Director. NMSS Attn: Program Support Robert Browning. Acting Director Daniel Fehringer Division of Waste Management Cal Belote Division of Risk Analysis Jared J. Davis. Chief Health Siting & Waste Management Division 3151 W. L. Garner (Form 426) 6413 N. R. Ortiz 6413 P. A. Davis



PROGRAM:	Maintenance a of Computer P	nd Validation rograms	FIN#:	A-1166
CONTRACTOR:	Sandia Nation	al Laboratories	BUDGET PERIOD:	10/82 - 9/83
NMSS PROGRAM	MANAGER:	M. J. Wise	BUDGET AMOUNT:	\$306K
CONTRACT PRO	GRAM MANAGER:	N. R. Ortiz	FTS PHONE:	844-5644
PRINCIPAL IN	VESTIGATORS:	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 JULY 1983

- 1. The sample problems of the fixed network code (NWFT/DVM) user's manual were exercised using the generalized network code (NWFG/DVM). The generalized network results show radionuclide discharges slightly later than the fixed network code. This is due mainly to the differences in calculating the radionuclide migration path length. Differences in the treatment of the source term are being investigated. The results of the investigation will be presented in the next monthly report.
- 2. The in-house review of the SWIFT II verification and validation document was completed. The reviewers provided extensive comments. The document was also reviewed by one of our consultants. We expect to start re-writing the final report the first week of September.
- 3. The INTRACOIN problems 1, 2 and 3 will be exercised using the NWFT/DVM and NWFG/DVM codes. The input data setup was started during the month of July.
- 4. The updates of the SWIFT I code sent to NRC have been placed in a computer tape. Additional corrections to SWIFT I are expected as a result of the verification and validation efforts.