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WM Project 10,11,16,  
Docket No. \_\_\_\_\_

June 12, 1987 LPDR ✓ (B, N, S)

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US Nuclear Regulatory Commission  
Washington DC 20555  
WM DOCKET CONTROL CENTER  
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Distribution:  
Chang  
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Dear Kien:

SUMMARY OF EFFORT, JUNE 8 - JUNE 12, 1987

This memo describes the tasks which have been addressed during the time period indicated.

1. Work continued on a PC version of the Methodology Demonstration Model CONVO.

-- The routine for tabulating the failure times has been written and is being debugged. As with many of the routines being included in the PC version of CONVO, the corresponding routine in the main frame version cannot be used directly. There are two reasons for this: either the subset of FORTRAN 77 embodied in the software being used does not allow it (as in the use of complex variables), or a more efficient technique is desirable to compensate for the reduction in speed or number crunching ability which is available to a PC. The latter consideration applies in the case of the tabulating routine. I have devised a routine which can tabulate the time distribution of failures in seven steps per run. This process does not increase the run-time by a significant amount. It requires only a straightforward modification to permit the tabulation of the failure probability density function, pdf, and the cumulative distribution function, the cdf.

--A planning session was held with other NRC consultants to define worthwhile and accomplishable work objectives for the next three to six months.

Enclosed is a Voucher for Professional Services for this time period.

The tasks planned for the next period are:

1. Provide suggested tasks and plans for the next three to six months. This will include logical extensions of the present work and will complement the efforts of the other consultants involved.
2. Complete the tabulation subroutine for pdf and cdf calculations.
3. Begin coding the Brookhaven uniform corrosion model and the Aerospace pitting corrosion model. The basic utilities needed for these models are presently included in the BWIP routines.

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WM Project: WM-10,11,16  
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WM Record File: A4165  
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If you have any questions, please call me.

Very Truly Yours,



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