

STATEMENT OF WORK
FOR ROBERT RICE

Mr. Robert Rice will be assisting the CNWRAs PA Element with a number of tasks associated the TSPA I KTI, ARDES KTI, and the SDMP project. Both of these activities involve the application of performance assessment (PA) models. In particular, they involve the simulation of subsurface flow and contaminant transport. In the case of TSPA I, the work on the new TPA Version 3.1 computer code. For the ARDES KTI, the work is likely to involve modeling studies of groundwater dilution. Finally, for the SDMP project, the work is expected to involve performance/risk assessments for sites designated by the NRC.

For the TSPA I KTI, Mr. Rice will assist the PA Element with the modification, testing, and documentation of the TPA Version 3.1 code. The code modification will primarily focus the UZFT and SZFT modules (including NEFTRAN) of the TPA code, but may include work on other modules. In addition, he will prepare documentation for incorporation in scientific notebooks and QA records. This work will be performed under the technical direction of Sitakanta Mohanty.

For the ARDES KTI, Mr. Rice will provide assistance to the CNWRA staff working on studies of dilution arising from well pumping. In addition to assisting the technical staff with this activity, he will assist with translating those dilution results into suitable abstractions for input to the TPA Version 3.1 code.

For the SDMP project, Mr. Rice will work with CNWRA teams involved in performance/risk assessments of specific decommissioning sites (designated by the NRC). He will primarily be setting up and applying appropriate groundwater flow and transport codes to simulate the fate of contaminants leaving the site. The results of the computer simulations will be documented in a manner suitable for incorporation into the site assessment report. This work will be performed under the technical direction of John Russell.

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The PA Element requires support in two areas: (i) review of DOE's TSPA-SR and supporting documents, and (ii) testing the latest modifications to the TPA Version 4.1 code. Mr. Rice will be asked to review specified DOE documents and provide written summary reports of his findings. In addition, Mr. Rice will assist with testing the latest version of the TPA code and provide his findings through submittal of written reports.