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The following are the minutes of a meeting held at Sandia National Laboratories, Albuquerque (SNLA) on March 23, 1984. Attendees included representatives from SNLA (Division 6431), the U.S. Nuclear Regulatory Commission (NRC), and Aerospace Corporation. A list of the attendees is enclosed. The purpose of the meeting was to (1) familiarize SNLA personnel with the NRC funded radioactive waste package work being carried out at Aerospace, and (2) familiarize Aerospace personnel with the NRC funded radioactive waste repository performance assessment methodology work being carried out at SNLA. It was felt that this familiarity would aid in a better coordination between the two programs. Presentations were made by Bruce Crane (Aerospace) on the NRC/Aerospace waste package program, Robert Cranwell (SNLA) on the overall NRC/SNLA performance assessment methodology program, and Margaret Chu (SNLA) on the source term modeling effort being carried out at SNLA. The results and conclusions of the meeting are summarized below.

- A need for an interfacing and coordination between the NRC/Aerospace waste package program and the NRC/SNLA performance assessment methodology development program was identified. It was suggested that an initial step toward accomplishing this interaction between the two programs would be an exchange of statements of work, program plans, technical reports, and monthly progress reports (when appropriate). Any exchange would be with the approval of the appropriate NRC staff.
- SNLA has developed release scenarios for use in the performance assessment of waste repositories in bedded salt and basalt (see NUREG/CR-1667 and NUREG/CR-3353). As the types of scenarios to be analyzed are important in evaluating the integrity of the waste package, it was decided that, upon approval by NRC, copies of these reports be delivered to Aerospace for use in their waste package program. Furthermore, reports identifying release scenarios for media other than bedded salt and basalt (e.g., tuff) will be delivered to Aerospace when completed.
- A gap between the single waste package work being carried out at Aerospace and the far-field performance assessment work at SNLA was identified. For example, the models developed at SNLA can be used to evaluate ground-water flow rates in the far-field and near-field, but not in the very near-field (i.e., repository scale). The information needed by Aerospace, in their work on a single waste package, includes resaturation times, ground-water flow rates around a single canister (for purposes of assessing the waste form/waste package interaction with ground water), and the chemistry of the ground water. The capability for obtaining this kind of information does not currently exist and is critical to the successful interfacing of the Aerospace and SNLA programs. Furthermore, the work by Aerospace involves the study of

only a single waste package. Thus, a need exists for being able to extrapolate this information to several hundred waste packages contained within a repository.

- SNLA is currently evaluating release scenarios for a basalt waste repository site. This evaluation includes the effects of these scenarios on the natural ground-water flow system of the site. Information such as potential flow rates into a repository would be of use to Aerospace in their program until more detailed near-field modeling can be completed. Thus, this information will be delivered to Aerospace, upon approval by NRC, whenever available. It is anticipated that such information will be available within the next 6 months.
- It was suggested that NRC set up periodic meetings between SNLA, Aerospace, and NRC for purposes of discussing the progress and interfacing of the Aerospace and SNLA programs. For the time being, it was suggested that John Linehan of NRC act as the coordinator for these meetings.

Robert M. Cranwell