

"Source Term Code Package Verification"

(FIN A-3284)

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1. Scope/Purpose:

Updated fission product source term methods were developed under the direction of the Accident Source Term Program Office (ASTPO) and published in BMI-2104. The several computer codes developed as part of this effort are being integrated at BCL into a self-consistent Source Term Code Package (STCP). The objective of this BNL project is to provide quality assurance of the BCL code package. BNL will obtain the code package from BCL and install it on the BNL computing system. The code package will be reviewed to ensure correct implementation of the models and options. In addition, the coupling of the various codes in the package will be carefully checked.

2. Work Performed During Period:

A second tape of the MARCH-3 (MARCH/CORCON) segment of the STCP was obtained from BCL and has been made operational on the BNL system. However, numerical problems are still being experienced with MARCH-3. In addition, a tape of the TRAP-MERGE segment of the STCP was obtained and is being made operational.

3. Problems/Delays:

See Item 2.

4. Summary of Progress to Date/Milestones:

Progress has been made in the following two tasks:

Task 1: A preliminary meeting was held at BCL to develop the scope of the STCP.

Task 2: Although the STCP has not yet been received at BNL, assistance was provided to BCL on the coupling of the CORCON and VANESA codes.

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5. Next Reporting Period:

Work will continue on the numerical problems associated with MARCH-3. In addition, tapes for the remaining segments (NAUA, VANESA, SPARC, and ICEDF) of the STCP are expected from BCL.