

SOFTWARE ERROR NOTIFICATION

Use continuation pages as necessary

ERROR IDENTIFICATION

Error Notice Identification Number: 17 Page 1 of 1

Program Name: RADTRAD

Versions Affected: 3.03 and Alion-RADTRAD v3.10

Error Classification: Safety-Related Non Safety-Related

Associated CAR Number(s): 2012-028

DESCRIPTION OF PROGRAM ERROR

RADTRAD has the capability for removing aerosols due to natural deposition. In the implementation of the Powers model the code assigned a removal coefficient of 0.01 to be used beyond the end of the approximately one day correlation, it should have been 0.0. This allows more particulate to be deposited within the compartment, thus less is available for release to the environment.

PROGRAM USER NOTIFICATION




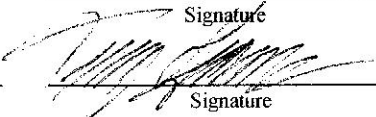
S/W Users Notified: _____ Signature _____ Date Nov 4, 2012

RECOMMENDATIONS TO PROGRAM USERS

Several test cases have been executed to determine the extent of the condition and, with the exception of a single case, typical changes to the dose were found to be less than 0.1%. The exception is the natural deposition model Acceptance Test Case (#10) where the error was over 25% of the calculated LPZ dose and 8% of the control room dose. This case is not considered realistic as no other type of decontamination, like sprays or filtration, were available as would be the situation in a submittal.

The concerned user should replace the Powers Model option with an equivalent table lookup decontamination, the values can be determined from the RADTRAD documentation or from an available spreadsheet.

COMPLETION/APPROVAL/CLOSE-OUT

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|------------------|---|---|---------------------------|
| Program Manager: | <u>Todd M Anselmi</u> Printed/Typed Name |  Signature | <u>11/04/2012</u> Date |
| Program POC: | <u>Terry Heames</u> Printed/Typed Name |  Signature | <u>11/6/12</u> Date |
| QA Manager: | <u>Rick Cutshaw</u> Printed/Typed Name | _____ Signature | _____ Date |