

-

| Error Notice Identification N | | Page _1 o | f1 |
|---|------------------------------------|--------------------|---------------------------------|
| Software Name:R | ADTRAD | | |
| Versions Affected: | 3.03 | | |
| Error Classification: <u>X</u> | Safety-Related] | Non Safety-Related | |
| Description of Error: When running RADTRAD with Powers' Natural Deposition model, the code generates inventories at 24 hours that may vary by as much as 2% when I add time intervals. | | | |
| Assessment of error: This error has been found to affect dose results in 4 of the test cases used in the RADTRAD V&V. All the affected cases examined aspects of the Powers' Natural Deposition model and the maximum error in dose observed was an LPZ dose change of -5%. The EAB dose change was always less than 0.1% and the Control Room dose change was always less than -2%, both well within the acceptable error margin. Note that the error generates more conservative results in all cases. | | | |
| Software Program Manager: | Terry Heames Printed/Typed Name | Signature | <u>February 1, 2005</u> Date |
| SW Point of Contact: | Terry Heames Printed/Typed Name | Signature | February 1, 2005 Date |
| Corrective Action: If a user uses the Powers Natural Deposition model, the time step control should be limited to a 2 hour maximum for the first 24 hours. This is sufficient to ensure that the potential LPZ dose error will not be greater than 1%. The necessary modification will be corrected in the next update of Version 3.03 and has been corrected in Version 3.10. | | | |
| | | Verified Complete: | QA Manager |
| Software Program Manager: | Terry Heames Printed/Typed Name | Signature | February 1, 2005 |
| SW Point of Contact: | Terry Heames Printed/Typed Name | Signature | February 1, 2005 Date |