Error Notice Identification Number: __13_____   Page _1___ of _1___

Software Name:_____ _____RADTRAD_____

Versions Affected: _____3.03_____

Error Classification: __X__ Safety-Related   ___ Non Safety-Related

Description of Error:
When running RADTRAD with abrupt flow changes the user can affect dose results by changing the time steps. For example, flow out a PORV is stopped after a few minutes and then that flow is re-directed to a secondary containment. If the time steps are uncontrolled, excessive release from the secondary can occur. This significantly affects the results from TID source terms.

Assessment of error:
This error has been found to significantly affect dose results in at least one of the rebaselining phase 2 LOCA cases. Thyroid doses were increased by over a factor of 2.

Note that the error generates more conservative results in all known cases.

Software Program Manager: __Terry Heames__   _____   __March 22, 2005__
                              Printed/Typed Name   Signature   Date

SW Point of Contact: __Terry Heames_   _____   __March 22, 2005_
                         Printed/Typed Name   Signature   Date

Corrective Action:
If a user has a scenario where flow is redirected after some time they should included user controlled steps of 0.025 hrs until the switch has been completed. The necessary modifications will be included 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__   _____   _March 22, 2005_
                              Printed/Typed Name   Signature   Date

SW Point of Contact: __Terry Heames _   _____   March 22, 2005
                         Printed/Typed Name   Signature   Date