

STATUS REPORT - REACTOR TECHNOLOGY MEMORANDA

| RTM NO. | TITLE | INITIAL DATE | ISSUING BRANCH | DEVELOPMENT AND STATUS |
|---------|---|--------------|----------------|--|
| RTM 1 | Tornado Considerations | 1-18-68 | C&CTB | Comments received from RP (3-22-68), CO (2-16-68), Dr. Bates of St. Louis University (2-12-68). The RTM was revised and the version dated 4-10-68 was approved by the Director, DRL on 4-29-68. The positions stated in the RTM are being used routinely in DRL evaluations. A revision to (a) modify radioactivity limits for tornado induced accidents, (b) provide explicit guidance on protection for spent fuel storage pools, and (c) further define the probability bases, has been submitted to the Director, DRL, for approval (3-28-69). |
| RTM 2 | Nuclear Vessels - Supplementary Criteria | 12-22-67 | C&CTB | Comments received from RP (1-16-68), DRS (1-16-68), RO (1-19-68) and CO (2-16-68). The RTM was revised on 5-10-68 to include the observation that extensive comments from industry were being considered by DRS for a future revision. The RTM was again revised on 8-12-68 to eliminate redundant wording in the interim requirements. That revision was approved by the Director, DRL, on 8-13-68 and is being used routinely in DRL evaluations. DRS advised us verbally (3-26-69, R. R. Maccery) that a revision of their Supplementary Criteria is in process and will be issued within three months or so. Because of the many changes that will be made to the criteria, we are revising our RTM to eliminate the requirement for justification of non-compliance for each of the criteria not met in its entirety. This revision is scheduled to be submitted to the Director, DRL, by 4-4-69. |
| RTM 3 | Seismic Design Requirements | 1-22-68 | C&CTB | Comments received from RP (2-20-68), CO (2-16-68), and the E&C Branch of DRS. The RTM was revised (5-10-68) and sent through a concurrence chain, which included DRS, for the Director's approval. DRS returned the RTM without their concurrence but with comments from the E&C and the SP Branches of DRS. Additional comments were received from RP (6-10-68) and Dr. Blume's organization. The general requirements of the RTM are used routinely by the C&CTB Branch of DRL in their evaluations of seismic design considerations. A revision of the RTM is scheduled to be submitted to the Director, DRL, late this year. |
| RTM 4 | Emergency Core Cooling System Evaluation Guidelines | 1-29-68 | NTB | Comments received from R. Colmar, DRL (2-8-68), CO (2-15-68), and DRS (3-1-68). Revision was undertaken in the Spring of 1968. Comments received on differences between DRL & DRS positions from G. A. Arlotto (draft comments, 5-17-68) and RP (5-27-68). A revised version of the RTM was forwarded to the Director for approval in June 1968. Approval not yet made pending resolution of differences with DRS. The June version of the RTM was distributed to the DRL staff in January 1969. Most of the requirements of the RTM are routinely used in DRL safety evaluations. A revised version of the RTM is scheduled to be submitted to the Director, DRL, in the Summer of this year. This revision will attempt to resolve remaining technical differences between DRL and DRS. |

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| RTM NO. | TITLE | INITIAL DATE | ISSUING BRANCH | DEVELOPMENT AND STATUS |
|-----------|---|--------------|----------------|--|
| RTM _____ | Flooding Considerations For Sites Along Rivers | 5-28-68 | C&CTB | The initial version incorporated comments from Dr. Newmark. Following initial issuance, comments received from DML (6-19-68), CO (6-19-68), and the SP Branch of DRS (7-24-68.) The RTM, although not yet approved by the Director, DRL, is routinely used in applicable safety evaluations. A revision, factoring in comments received, is scheduled to be submitted to the Director, DRL, by 4-21-69. |
| RTM _____ | Fission Products - Iodine Formation and Removal In Power Reactor Facilities | 9-20-68 | E&RSTB | An initial draft dated 6-11-68 was sent to specialists with a request for their informal review. Comments received from W. Faith (ACRS, 7-1-68), R. Adams (ORNL, 7-10-68), D. Morrison (BMI, 7-12-68), and F. Gifford (ESSA, 7-15-68). RTM issued for general review and comment on 9-20-68. Comments received from RP Branch #1 (11-7-68), DML (11-4-68) & SP Branch, DRS (11-21-68). The RTM is routinely used by the E&RST Branch of DRL in their evaluations of iodine formation and removal considerations. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 6-2-69. |
| RTM _____ | Reactor Vessel Irradiation Surveillance | 6-27-68 | C&CTB | Comments received from F. Anderson, DRL (7-9-68), CO (7-18-68), and the E&C Branch, DRS (8-9-68). Revision is in process. Intended requirements were listed in "Tentative DRL Requirements on Reactor Vessel Irradiation Surveillance", an informal paper given to the ACRS, at the November 1968 ACRS meeting, for their information and at their request. These requirements are routinely used as interim guidance by the C&CT Branch of DRL in current evaluations. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 7-1-69. |
| RTM _____ | Recording Seismographs In Nuclear Facilities | 8-5-68 | C&CTB | Comments received from DML (9-12-68), CO (9-12-68), SP Branch, DRS (10-8-68), and Dr. Blume's organization (10-9-68). The RTM requirements are not being used currently in safety evaluations. The Director, DRL, verbally authorized (2-17-69) the C&CT Branch to begin to routinely request the provision of at least one strong motion seismograph at each reactor site unless justification against such provision is presented. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 7-1-69. |
| RTM _____ | Atmospheric Diffusion Models | 8-8-68 | E&RSTB | Comments received from RP Branch #1 (9-9-68), DML (9-12-68), CO (9-16-68), and the SP Branch, DRS (10-1-68). The requirements of the RTM are routinely used by the E&RST Branch of DRL in their evaluations of diffusion considerations. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 7-15-69. |

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| RTM NO. | TITLE | INITIAL DATE | ISSUING BRANCH | DEVELOPMENT AND STATUS |
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| RTM ___ | Calculating Thyroid Doses For the DBA | 8-8-68 | E&RSTB | Comments received from RP Branch #1 (9-9-68), DML, (9-12-68), CO (9-16-68), and the SP Branch DRS (10-1-68). The requirements of the RTM are used routinely by the E&RST Branch of DRL in their evaluations of thyroid dose estimates. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 8-1-69. |
| RTM ___ | Tabulation of Accident Assumptions Used by E&RSTB For Light Water Power Reactors | 8-13-68 | E&RSTB | Comments received from RP Branch #1 (9-9-68), DML (9-12-68), and CO (9-16-68). The requirements of the RTM are used routinely by the E&RST Branch of DRL in their evaluations of dose estimates for specific accidents. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 8-15-69. |
| RTM ___ | Reinforcing Bar Cadweld Splices - Test Sampling Requirements | 10-29-68 | C&CTB | Comments received from L. Kintner, DRL (11-1-68), and CO (12-5-68). A modified version of the requirements of the RTM are used routinely by the C&CT Branch of DRL in their evaluation of structural designs. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 5-1-69. |
| RTM ___ | Major Steel Structural Components Embedded in Concrete Containment Structures | 3-21-69 | C&CTB | Comments due by 5-1-69. The requirements of the RTM are not yet used by the C&CT Branch of DRL although it is the intent to do so as soon as the comments are reviewed and judged to warrant use of the RTM. A revised version of the RTM is scheduled to be submitted to the Director, DRL, for approval by 7-1-69. |
| RTM ___ | Design Basis Criteria for Pressurized Water Reactor Dry Containments | | NTB | An initial set of criteria, dated 1-3-69 was developed by a DRL-DRS team. The Director, DRS, concurred with the criteria. The Director, DRL, directed that they be used on a trial basis for all applicable applications. Copies for the use of the DRL staff were distributed on 2-19-69 with a request for comment. The document will be redrafted as an RTM. Initial issuance for general internal review scheduled for 5-1-69. |
| RTM ___ | Reactivity Design Basis Accident - Fuel Failure and Rod Worth Considerations | | NTB | Initial issuance for internal review scheduled for 6-1-69. |
| RTM ___ | Steam Line Break Evaluation Guidelines (BWR) | | NTB | Initial issuance for internal review scheduled for 7-1-69. |
| RTM ___ | DNB Correlations | | NTB | Initial issuance for internal review scheduled for 8-1-69. |

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| RTM NO. | TITLE | INITIAL DATE | ISSUING BRANCH | DEVELOPMENT AND STATUS |
|-----------|--|--------------|----------------|---|
| RTM ___ | Rod Withdrawal Accident Evaluation Guidelines | | NTB | Initial issuance for internal review scheduled for 10-1-69. |
| RTM ___ | Exfiltration from Secondary Containment Structures | | E&RSTB | Initial issuance for internal review scheduled for 7-1-69. |
| RTM ___ | Flooding Considerations for Coastal Sites | | E&RSTB | Initial issuance for internal review scheduled for 8-1-69. |
| RTM ___ | Environmental Monitoring - Preoperational and Operational Requirements | | E&RSTB | Initial issuance for internal review scheduled for 10-1-69. |
| RTM ___ | Design Basis Criteria for Systems to Prevent Accumulation of Combustible Mixtures in Containment Systems | | SSTB | Initial issuance for internal review scheduled for 6-1-69. |
| RTM ___ | Requirements for User Testing of Reinforcing Bars | | C&CTB | Initial issuance for internal review scheduled for 5-1-69. |
| * RTM ___ | Design Basis Criteria for Containment Isolation Systems | | C&CTB | Initial issuance for internal review scheduled for 10-1-69. |
| * RTM ___ | Control Room Design Basis Considerations | | I&PTB | Initial issuance for internal review scheduled for 5-1-69. |
| RTM ___ | Technical Specification Requirements for Availability of Electric Power Sources | | I&PTB | Initial issuance for internal review scheduled for 7-1-69. |
| * RTM ___ | Technical Specification Requirements for Instrumentation and Controls | | I&PTB | Initial issuance for internal review scheduled for 9-1-69. |

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| RTM NO. | TITLE | INITIAL DATE | ISSUING BRANCH | DEVELOPMENT AND STATUS |
|---------|---------------------------------------|--------------|----------------|--|
| RTM ___ | Onsite Electric Power Considerations | | I&PTB | Initial issuance for internal review scheduled for 10-1-69. |
| RTM ___ | Offsite Electric Power Considerations | | I&PTB | Initial issuance for internal review scheduled for three months following approval of revised General Design Criterion No. 39. |