OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
DEVELOPMENT PLAN (DP) CHECKLIST AND COVER SHEET

QA: QA
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DI No.:	Rev No.:	MYPS No.:	Technical Product Title:	Rev. No.:
TDP-WIS-NU-000002	00	1101 2125M2 WP003M3	Disposal Criticality Analysis Methodology Topical Report	01

Requirements Checklist (Ref. QARD Subsection 2.2.5 and Supplement III)

Requirement	Applicable to This Product? (Y/N)	If YES in Previous Column, Describe Satisfaction of Requirement (Add Attachments and Reference if Necessary). If NO in Previous Column, Justify.
(1) Define work scope and objectives, and list the primary tasks involved (e.g., responsibilities, product description, technical approach and schedule).	Y	See supporting documentation, requirement 1
(2) Identify scientific approaches or technical methods used to collect, analyze, or study results of the work.	N	See supporting documentation, requirement 2
(3) Identify applicable standards and criteria. (If the technical product is a "Deliverable," identify it as such and list the applicable acceptance criteria.)	Y	See supporting documentation, requirement 3
(4) Identify and/or create implementing documents (procedures) required to perform the work.	Y	See supporting documentation, requirement 4
(5) Identify equipment (and the functional requirements of the equipment) required to perform the work.	N	See supporting documentation, requirement 5
(6) Identify records required to verify completion of the work and results obtained.	Y	See supporting documentation, requirement 6
(7) Identify QA program applicability including QA/QC verification of work. If necessary, perform an AP-2-16Q, *Activity Evaluation*, evaluation.	Y	See supporting documentation, requirement 7
(8) Identify prerequisites, special controls (including Ap-SV.1Q controls), environmental conditions, processes, or skills.	N	See supporting documentation, requirement 8
(9) Identify computer software required to perform the work and the qualification status of the software.	N	See supporting documentation, requirement 9
(10) Does this work impact baseline (see AP-3.4Q)?	N	See supporting documentation, requirement 10
(11) Coordinate planning with organizations providing input or using results. Document concurrence, if appropriate.	Y	See supporting documentation, requirement 11
(12) Identify accuracy, precision, and representativeness requirements for, and limitations on, the results.	N	See supporting documentation, requirement 12
(13) Identify any personnel safety hazards and corresponding hazards controls in accordance with the Integrated Safety Management principles.	N	See supporting documentation, requirement 13

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Manager/Lead: (Printed Name) Daniel A Thomas	Signature: D A Thomas	Date: 06/23/2000
Responsible Manager: (Printed Name) Hugh A. Benton	Signature: Hugh A. Benton	Date: 6/23/00

1. REQUIREMENTS

REQUIREMENT 1 – WORK SCOPE AND OBJECTIVES

The work scope covered by this plan is the revision of the *Disposal Criticality Analysis Methodology Topical Report*, YMP/TR-004Q. The revision of the Topical Report is directed in the Neutronics Methodology work direction (CRWMS M&O 1999a). The objective of this work is to revise the *Disposal Criticality Analysis Methodology Topical Report*, to incorporate the commitments made in answering the U.S. Nuclear Regulator Commission's (NRC's) requests for additional information (RAIs) and provide any updates to the methodology.

1.1 RESPONSIBILITIES

The Waste Package Department Neutronics Section is responsible for the revision and checking of the Topical Report. Input is provided by the performance assessment and regulatory & licensing. The originators, responsible manager, and checker of the document, will be responsible for following AP-3.11Q and this development plan. The other organizations affected by this document are providing input, so there will be no interaction with affected parties. Revision of the plan in response to more specific information may occur at a later time. Procurements, measuring and test equipment, and samples are not applicable to development of the document.

1.2 PRODUCT DESCRIPTION

The result of following this plan will be a revised *Disposal Criticality Analysis Methodology Topical Report*. The format of the revised Topical Report will be consistent with the initial version delivered to the NRC.

1.3 TECHNICAL APPROACH

The Topical Report to be revised using this plan documents a methodology or technical approach, it does not use any specific technical approach.

1.4 SCHEDULE

The Topical Report revision should be prepared and submitted for checking by June 30, 2000. The originator and checker should reach concurrence by August 1, 2000. The review should be complete by September 20, 2000. The Topical Report should be approved by September 29, 2000.

REQUIREMENT 2 – SCIENTIFIC APPROACH OR TECHNICAL METHODS

Not applicable. There is no scientific approach or technical method used to collect, analyze, or study the results by this work. The result of this work is a technical method for analyzing disposal criticality.

REQUIREMENT 3 – STANDARDS AND CRITERIA

This activity produces a deliverable and its acceptance will be determined using AP-7.5Q, *Submittal, Review, and Acceptance of Deliverables.*

REQUIREMENT 4 – IMPLEMENTING DOCUMENTS

The following procedures may be used, as necessary, to implement this plan:

AP-2.13Q	*Technical Product Development Planning*
AP-2.14Q	*Review of Technical Products*
AP-3.11Q	*Technical Reports*
AP-3.15Q	*Managing Technical Product Inputs*
AP-6.1Q	*Controlled Documents*
AP-7.5Q	*Submittal, Review, and Acceptance of Deliverables*
AP17.1Q	*Record Source Responsibilities for Inclusionary Records*

REQUIREMENT 5 – REQUIRED EQUIPMENT

Not applicable. This activity requires no special equipment beyond the standard office equipment (i.e., computer and printer).

REQUIREMENT 6 – REQUIRED RECORDS

The records required for this activity are as stated in AP-3.11Q and the deliverable acceptance criteria.

REQUIREMENT 7 – QA PROGRAM APPLICABILITY

The activity evaluation for this activity is *WP Neutronics Methodology – 1101 2125 M2* (CRWMS M&O 1999b). The evaluation identifies this activity as subject to QARD controls.

REQUIREMENT 8 – PREREQUISITITES AND SPECIAL CONTROLS

Not applicable. This activity does not require any special prerequisites, environmental conditions, processes, or skills. This activity does not require any special controls for the electronic management of data per AP-SV.1Q. The activity does not involve the electronic management of data.

REQUIREMENT 9 – REQUIRED COMPUTER SOFTWARE

Not applicable. This activity will only use word processing and graphing software.

REQUIREMENT 10 – BASELINE IMPACT

Not applicable. This activity does not effect the baseline per AP-3.4Q.

REQUIREMENT 11 – COORDINATED PLANNING

This activity requires inputs from the Regulatory and Licensing organization and the Performance Assessment organization. They will be included in the document review.

REQUIREMENT 12 – ACCURACY REQUIREMENTS AND LIMITATIONS

Not applicable. This activity is the revision of a methodology document, and so there are no numerical results.

REQUIREMENT 13 – INTEGRATED SAFETY MANAGEMENT

Not applicable. This work activity has no specific personnel safety hazards. Work is subject to the safe work conditions required per YMP/90-37.

2. SPECIAL CONSIDERATION

None. There are no procurements, measurement and test equipment documentation, or samples supporting this product.

3. REFERENCES

3.1 DOCUMENTS CITED

Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) 1999a. *Work Package Planning for WP Neutronics Methodology.* ID: 11012125M2. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.20000107.0067.

CRWMS M&O 1999b. *WP Neutronics Methodology – 1101 2125 M2.* Activity Evaluation, October 20, 1999. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19991105.0227.

3.2 CODES, STANDARDS, REGULATIONS, AND PROCEDURES

AP-2.13Q, Rev. 0, ICN 4. *Technical Product Development Planning.* Washington, D.C.: U.S. Department of Energy (DOE), Office of Civilian Radioactive Waste Management (OCRWM). ACC: MOL.20000620.0067.

AP-2.14Q, Rev. 0, ICN 1. *Review of Technical Products.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000405.0477.

AP-3.11Q, Rev. 1. *Technical Reports.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000516.0008.

AP-3.15Q, Rev. 0, ICN 2. *Managing Technical Product Inputs.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000313.0303.

AP-6.1Q, Rev. 5. *Controlled Documents.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000608.0009.

AP-7.5Q, Rev. 0, ICN 1. *Submittal, Review, and Acceptance of Deliverables.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000518.0343.

AP-17.1Q, Rev. 1, ICN 2. *Record Source Responsibilities for Inclusionary Records.* Washington, D.C.: DOE, OCRWM. ACC: MOL.19991217.0505.

AP-SV.1Q, Rev. 0, ICN 1. *Control of the Electronic Management of Data.* Washington, D.C.: DOE, OCRWM. ACC: MOL.20000512.0068.