BECHTEL JACOBS COMPANY
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BECHTEL JACOBS COMPANY LLC

REVISION ORDER A

Effective Date April 1, 1998

PROCEDURE TO BE CHANGED:

BJC-ES-01 (Manual Number)

ER/C-S2001 Risk Assessment Roles And Responsibilities (Procedure Number and Title)

06/23/1992 (Procedure Date)

0 (Rev. Number)

Reason for Change: To comply with Bechtel Jacobs Company LLC requirements

SECTION	DESCRIPTION OF CHANGE
Entire Document	Replace "Martin Marietta Energy Systems, Inc. (Energy systems)" with "Bechtel Jacobs Company LLC."
Entire Document	Replace Energy Systems Position Titles with Corresponding Bechtel Jacobs Company LLC Position Titles
Entire Document	Replace "Energy Systems" with "Bechtel Jacobs Company LLC."
	This document will require extensive revision if roles and responsibilties are redefined.

INITIATED BY: Rosemary J. Holdsworth (Type or Print Name) — 03/03/1998 Date

REVIEWED BY: (OPTIONAL) Mike Ryan Signature on File — **03/05/98** Date
Review/Concurrence, if needed by other department
(Sign and Type or Print Name)

APPROVED BY: R.B.Barber Signature on File — **03/07/98** Date
Functional Manager
(Sign and Type or Print Name)

Subject: Risk Assessment Roles and Responsibilities

I. PURPOSE

This standard defines the role of risk assessment in Martin Marietta Energy Systems, Inc. (Energy Systems) Environmental Restoration (ER) Programs to ensure the development and implementation of consistent risk assessment methodologies. It delineates the line and matrix interactions involved in risk assessment within ER Programs as defined and implemented through the Department of Energy Field Office, Oak Ridge, Environmental Restoration Division (DOE-OR/ERD).

II. REFERENCES

A. Source Documents

``Environmental Restoration Risk Assessment: Initiation, Implementation, and Interaction—Interim Policy Guidance," Department of Energy, Oak Ridge Operations, Office of the Director, Environmental Restoration Division, April 4, 1991.

``Initiation, Review, Revision, Approval, and Issuance of Environmental Restoration Division Standards," ER Division Procedure ER/C-P1106 (IAD), Rev. 0, Martin Marietta Energy Systems, Inc., Oak Ridge, Tennessee, March 31, 1992.

B. Other References

Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA—Interim Final, EPA/540/G-89/004, Office of Emergency and Remedial Response, October, 1988.

Guidance for Data Useability in Risk Assessment—Interim Final, EPA/540/G-90/008, Directive 9285.7-05, Office of Emergency and Remedial Response, October, 1990.

Health Assessment Guidance Manual—Public Comment Draft, U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry, October, 1990.

Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A)—Interim Final, EPA/540/1-89/002, Office of Emergency and Remedial Response, December, 1989.

Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals)—Interim, Publication 9285.7-01B, Office of Emergency and Remedial Response, December, 1991.

Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part C, Risk Evaluation of Remedial Alternatives)—Interim, Publication 9285.7-01C, Office of Emergency and Remedial Response, December, 1991.

Risk Assessment Guidance for Superfund, Volume II, Environmental Evaluation Manual—Interim Final, EPA/540/1-89/001, Office of Emergency and Remedial Response, March, 1989.

III. SCOPE/LIMITATIONS

This standard applies to all risk assessment efforts under the auspices of the DOE-OR/ERD. ER Programs in this standard refers to the Energy Systems ER Division and the Environmental Restoration Waste Management Program Integration and Administration (ERWM PI&A) Division. It applies to Energy Systems ER personnel, program staff, and all contractors involved in risk assessment at DOE-OR/ERD sites.

IV. DEFINITIONS

Risk assessment: the process of identifying, defining, and characterizing potentially adverse consequences of exposure to hazardous and radioactive materials. Under Energy Systems ER Programs, risk assessment includes a baseline risk assessment, refinement of preliminary remediation goals, and risk evaluation of remedial alternatives. Risk assessment may have both a Human Health Risk Assessment (HHRA) component and an Ecological Risk Assessment (ERA) component.

Human Health Risk Assessment (HHRA): the identification, analysis, and characterization of potentially adverse health effects in human receptors due to exposure to hazardous and radioactive materials.

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Ecological Risk Assessment (ERA): the identification, analysis, and characterization of potentially adverse impacts on other environmental receptors (i.e., local flora and fauna, etc.) due to exposure to hazardous and radioactive materials.

V. REQUIREMENTS

A. Energy Systems ER Program standards for participants in the DOE-OR Environmental Restoration Program are made under the auspices of the Director of DOE-OR/ERD and approved and implemented by the Energy Systems ER Division Director and the ERWM PI&A Division Director.

B. Energy Systems ER Program requires that all risk assessment activities be conducted consistent with guidelines provided by the United States Environmental Protection Agency (EPA), the Agency for Toxic Substances and Disease Registry (ATSDR), based on technically defensible scientific judgement, and carried out in a cost effective manner.

C. Energy Systems ER Programs require that all risk assessment activities within their purview shall be centralized through the Energy Systems ER Programs' Risk Assessment Manager (RAM). The primary role of RAM is to provide technical expertise and support in the area of risk assessment to (i) the Energy Systems ERWM PI&A Division Technical Programs Manager, and (ii) the Energy Systems ERWM Site Program Managers or their counterparts (for work managed by contractors other than Martin Marietta Energy Systems), and (iii) to interface with the DOE-OR/ERD Technical Coordinator. A Risk Assessment Council (RAC) of experts and site risk assessment team leaders will support the RAM in pursuit of these objectives.

D. Energy Systems ER Programs require that the RAC be composed of a multi-disciplinary team of site-program-associated [including both remedial action and Decontamination and Decommissioning (D&D)] personnel who are designated Risk Assessment Team Leaders (RATLs) and non-site-program-associated Energy Systems personnel with expertise in the following areas: human health risk assessment; ecological risk assessment; toxicology; information and database management; sensitivity/uncertainty analysis; and risk assessment project implementation.

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E. Energy Systems ER Programs require that the RAM/RAC will: (i) provide for consistent development and application of risk assessment methodologies and techniques at all sites or areas under ER Programs' responsibility for environmental restoration; (ii) ensure that the most up-to-date risk assessment practices, procedures, and information are available for application in ER Programs' risk assessment standards; (iii) conduct sensitivity analyses and uncertainty analyses to improve the available risk assessment methods and to ensure that ER Programs employ the most scientifically defensible risk analyses possible and work in a cost effective manner, striving to reduce costs through lessons learned, etc.; and (iv) provide interface with the EPA and the state on risk assessment issues.

VI. RESPONSIBILITIES

A. Energy Systems ER Division Director and ERWM PI&A Division Director

Ensure implementation of standards and procedures affecting the Energy Systems Environmental Restoration Program which have been approved by the Director of the DOE-OR/ERD and the DOE-OR/ERD Technical Coordinator.

B. Energy Systems ERWM PI&A Division Technical Programs Manager

1. Implements the standards and procedures for participants of the DOE-OR/ER Program.

2. Obtains and identifies staff necessary to execute Energy Systems responsibilities and assignments required by risk assessment activities.

3. Appoints the RAM and, in consultation with the RAM, designates the RAC.

4. Coordinates the development and management of Energy Systems resource requirements (financial, manpower, etc.) to carry out needed risk assessment consistent with regulatory obligations.

5. Oversees RAM/RAC activities.

6. Coordinates the development of budgets for the central risk assessment program and for direct funding of those RAC activities that cross cut ERWM Programs.

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C. Energy Systems ER Programs' RAM

1. Directs the activities of the RAC by coordinating appropriate support from a variety of expert sources for accomplishing Energy Systems ER Programs' risk assessment activities.

2. Recommends schedules to the Site Program Managers and to DOE Prime Contractor Project Managers for the required performance of risk assessments in site projects.

3. Identifies and recommends qualified and appropriate RATLs to serve as liaisons between the Site Program Managers or DOE Prime Contractor Project Managers and the RAM.

4. Ensures that contractors and subcontractors implement risk analysis in accordance with RAC policy and guidance.

5. Provides risk assessment results, recommendations, project status reports, and periodic updates to Site Project Managers on a regular and/or as-needed basis.

6. Provides technical expertise and support in the area of risk assessment to the Energy Systems ERWM PI&A Division Technical Programs Manager and the DOE-OR/ERD Technical Coordinator.

7. Identifies research and development needs and suggests those needs to the Site Program Managers, the Energy Systems ERWM PI&A Division Technical Programs Manager, and the DOE-OR/ERD Technical Coordinator.

8. Works with Energy Systems RAC to ensure that (i) Energy Systems ER Programs' risk assessment procedures and approaches are current and in accordance with the latest EPA and ATSDR recommendations; (ii) the most recent risk assessment information and data (e.g., risk factors, exposure criteria, dose criteria, cancer potency factors) are applied in all Energy Systems ER Programs' risk assessments; and (iii) these standards and requirements are communicated to all risk assessment staff.

9. Uses the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA,* the *Guidance for Data Useability in Risk Assessment,* the *Health Assessment Guidance Manual,* and *Risk Assessment Guidance for*

Superfund: Vol I. and II. as reference manuals to conduct data validations, sensitivity analyses, and uncertainty analyses to ensure the most scientifically defensible risk assessment methodologies are available to ER Programs.

10. Reviews and approves all Site Programs' (including remedial action and D&D Programs) risk assessment implementation to ensure consistent and scientifically defensible applications and interpretation of risk assessment guidance and methodology.

11. Develops and manages the budgets for conduct of risk assessments in ER Programs.

D. Energy Systems RAC

1. Provides advice and guidance on appropriate risk assessment methodology and procedure.

2. Develops appropriate methods, procedures, models, and/or data needed to fulfill Site Programs' risk assessment needs.

3. Provides appropriate review of Site Programs' risk assessment implementation to ensure consistent application and interpretation of risk assessment guidance and methodology.

4. Supports Energy Systems ER Programs' risk assessment needs through research and development that addresses critical risk assessment data gaps.

E. Energy Systems RATLs

1. Work on the day-to-day implementation of RAC policy.

2. Serve as the liaison between site risk assessment teams and the risk assessment council.

3. Identify site-specific issues that require specific technical guidance from the RAC and recommend them to the RAM.

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F. Energy Systems ER Programs' Remedial Action and D&D Site Program Managers

1. Ensure implementation of risk assessment standards and procedures set by the RAM and approved by the Energy Systems ERWM PI&A Division Technical Programs Manager and the DOE-OR/ERD Technical Coordinator.

2. Ensure integration of risk assessment in site projects at their onset.

3. Ensure that risk assessment is maintained as an integral part of project activities throughout.

4. Ensure that appropriate RAC personnel are involved, either directly or in advisory roles, in the risk assessment activities conducted in site projects.

5. Consult with the RAM/RAC to designate qualified support personnel for site project risk assessment activities.

6. Allocate funds for project-specific risk assessment activities for conduct by ER Risk Assessment.

G. DOE-OR/ERD Prime Contractors and Energy Systems Subcontractors

1. Ensure implementation of risk assessment standards and procedures set by the RAM and approved by the Energy Systems ERWM PI&A Division Technical Programs Manager and the DOE-OR/ERD Director.

2. Ensure integration of risk assessment in site projects at their onset.

3. Ensure that risk assessment is maintained as an integral part of project activities throughout.

4. Ensure that appropriate RAC personnel are involved, either directly or in advisory roles, in the risk assessment activities conducted in site projects.

5. Consult with the RAM/RAC to designate qualified support personnel for site project risk assessment activities.

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VII. ADMINISTRATION

The Energy Systems ER Division Director and the ERWM PI&A Division Director are responsible for interpreting and implementing this standard.

VIII. APPROVAL

All procedures and instructions generated by and/or applicable to Energy Systems ER Programs must receive the signed approval of the Energy Systems ERWM PI&A Division Director.

Approved by *K. G. Kahl*

Approval date *June 23, 1992*

Effective date ***July 23, 1992***

Approval signature on file. Contact J. L. Hoyer at (423) 574-7800.