OVERALL TASK OBJECTIVE: The overall objective of the work on Task 003 of Subcontract 9-X52-W7423-1 was to provide LANL with support to the DOE Defense Program (DP) Safety Programs. The effort included the identification of appropriate safety requirements, the refinement of a DP-specific Safety Analysis Report (SAR) Format and Content Guide (FCG) and Comprehensive Review Plan (CRP), incorporation of "graded approach" instructions into the guidance, and the development of a safety analysis methodologies document.

TASKS COMPLETED: All tasks which were assigned under this Task Order were completed. Descriptions of the objectives of each task and effort performed to complete each objective is provided below.

Task 2.1 Graded Approach Methodology
The objective of this task was to assist LANL in the preparation of a guidance for implementing a "graded approach" to safety analysis and compliance to requirements for different classifications of facilities.

A report was developed in support to the staff of N-6 for the implementation of the graded approach to safety analysis and compliance to requirements for different classifications of facilities.

Publications Produced

Task 2.2 Safety Analysis Methodology
The objective of this task was to assist LANL in the preparation of a methodology document that provides safety analysis preparers insights into the approaches to the development of safety analysis reports. This document included the implementation of a graded approach to SARs, report development techniques, and safety analysis models and calculation methods.

A document was developed which provides implementation of a graded approach to SARs, report development techniques, and safety analysis models and calculation methods.

Publications Produced
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Task 2.3  Development of Safety Requirements
The objective of this task was to develop a complete listing of safety requirements (DOE Orders, industrial codes, consensus standards, etc.) for each specific SAR topic. In addition to the documented listing of requirements, an automated computerized database of these requirements was to be developed.

A document containing 23 categories of requirements was developed to meet the requirements of the deliverables. An automated database, utilizing Paradox 3.0, was developed.

Publications Produced

Task 2.4  Refinement of DP-Specific SAR Guidance Documents
The objective of this task was to develop a format and content guide and corresponding comprehensive review plan specific to the requirements for DOE-DP facilities. The effort was to implement a graded approach to safety analysis.

A format and content guide was developed which implemented graded approach and also provided the review plan requirements.

Publications Produced