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FY 1986
CURRENT FISCAL YEAR

WORK PLAN **DUPLICATE**

DEPARTMENT OF ENERGY
ROCKWELL INTERNATIONAL
WESTINGHOUSE

JOINT INTEGRATION OFFICE
ALBUQUERQUE, N.M.

OCTOBER 1985

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FY 1986
CURRENT FISCAL YEAR WORK PLAN

JOINT INTEGRATION OFFICE
ROCKWELL INTERNATIONAL CORPORATION

November 1985

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JOINT INTEGRATION OFFICE FY85 CURRENT YEAR WORK PLAN

This plan describes the internal operations and milestones of the Joint Integration Office/Rockwell International (JIO/RI). It includes the JIO/RI organization and staff assignments, identifies JIO/RI tasks and milestones, and describes the JIO/RI work plan.

SUMMARY

This Current Year Work Plan presents in detail a description of the activities to be performed by the Joint Integration Office/RI during FY86. It breaks down the activities into two major work areas: Program Management and Program Analysis.

Program Management is performed by the JIO/RI by providing technical planning and guidance for the development of advanced TRU waste management capabilities. This includes equipment/facility design, engineering, construction, and operations. These functions are integrated to allow transition from interim storage to final disposition. JIO/RI tasks include program requirements identification, long-range technical planning, budget development, program planning document preparation, task guidance development, task monitoring, task progress information gathering and reporting to DOE, interfacing with other agencies and DOE lead programs, integrating public involvement with program efforts, and preparation of reports for DOE detailing program status.

Program Analysis is performed by the JIO/RI to support identification and assessment of alternatives, and development of long-term TRU waste program capabilities. These analyses include short term analyses in response to DOE information requests, along with performing an RH Cost/Schedule Optimization report. Systems models will be developed, updated, and upgraded as needed to enhance JIO/RI's capability to evaluate the adequacy of program efforts in various fields. A TRU program data base will be maintained and updated to provide DOE with timely responses to inventory related questions.

The following is a presentation of the JIO/RI Operating Budget:

	Budget Summary-JIO/RI											(\$K)
	O	N	D	J	F	M	A	M	J	J	A	S
Total	195	176	186	164	152	173	164	157	172	164	160	203
Cumulative	195	371	557	721	873	1046	1210	1367	1539	1703	1863	2066

Figure 1. JIO WORK BREAKDOWN

JOINT INTEGRATION OFFICE

WORK BREAKDOWN STRUCTURE

Figure 2.
-1B-

PROGRAM MANAGEMENT MILESTONES FY 86

<u>MILESTONE</u>	<u>DATE</u>
Issue the JIO/RI Current Year Work Plan (CYWP).....	10 - 85
Deliver Annual End of Year Technical Report.....	11 - 85
Complete Current Fiscal Year Program Plan.....	11 - 85
Complete FY 88 Budget Call.....	12 - 85
Update TRU Long Range Defense Waste Master Plan.....	03 - 86
Submit FY 88 Budget to DOE/AL.....	04 - 86
Issue TRU Waste Program Budget and Task Guidance for FY 86.....	08 - 86
Complete Draft Responsibilities Mangement Plan Update.....	09 - 86
Issue Final Report on RWG National Working Group.....	09 - 86

JIO WASTE SYSTEMS OFFICE

PROGRAM MANAGEMENT MILESTONES FY 86	1986											
	O	N	D	J	F	M	A	M	J	J	A	S
Issue the JIO/RI Current Year Work Plan (CYWP)	▼											
Deliver Annual End of Year Technical Report	▼	▨										
Complete Current Fiscal Year Program Plan	▼	▨										
Complete FY 88 Budget Call	▼	▨										
Update TRU Long Range Defense Waste Master Plan	▼	▨				▼						
Submit FY 88 Budget to DOE/AL	▼	▨				▼						
Issue TRU Waste Program Budget and Task Guidance for FY 87	▼	▨								▼		
Complete Draft Responsibilities Management Plan Update	▼	▨									▼	
Issue Final Report on RWG National Working Group	▼	▨									▼	

PROGRAM ANALYSIS MILESTONES FY 86

<u>MILESTONE</u>	<u>DATE</u>
Issue Final Transportation Plan for..... Transportation Implementation	03 - 86
Update the TRU Program (JIO) Data Base.....	09 - 86
Complete RH Program Review and Issue Report..... on Status and Needs	09 - 86
Complete Cost and Optimization Studies.....	09 - 86
Complete All Inventory Work-off Plans.....	09 - 86
Issue Report for WAC Guidance.....	09 - 86

[illegible]

ORGANIZATION

The JIO/RI is responsible for program management and program analysis, in the Defense TRU Waste Management Program as shown in Figure 1. The organization staff for accomplishing these tasks includes a program manager, an associate manager, a program coordinator, several staff engineers, an office administrator, an administrative assistant, and Rockwell International corporate support. Each JIO/RI staff member manages several tasks, and ensures integration and coordination of all tasks and the entire TRU Waste Program.

JIO/RI TASK CONFIGURATION

The general JIO/RI internal work breakdown of Figure 1 has been organized in a more detailed work breakdown structure as shown in Figure 2. In the discussions that follow, each JIO/RI task is described and milestone schedules are included to indicate the time frame and important accomplishments for each activity. Technical information for elements 2.1 Program Analysis is given in the main body of this work plan.

2.1 (Program Management)

This JIO/RI work element includes tasks related to coordination and planning for the TRU waste program. There is a strong tie between this element and element 2.2.1 TRU Systems Analysis since the analysis work provides a basis for many planning decisions. The major elements in Program Management are listed below and discussed on the following pages.

<u>Element</u>	<u>Title</u>
2.1.1	Program Planning
2.1.2	Task Administration and Monitoring
2.1.3	Program Documentation
2.1.4	Integration
2.1.5	Program Review
2.1.6	Foreign Exchange

WBS NO. 2.1.1 (Program Planning)

The JIO/RI is responsible for the technical and financial planning to assist DOE/AL in managing the TRU Waste Management Program. This involves long-range technical planning, budget preparation, assembling program participants at update meetings.

The subelements in Program Planning are listed below and are discussed on the following pages.

<u>Element</u>	<u>Title</u>
2.1.1.1	Budget Preparation
2.1.1.2	Program Update Meetings
2.1.1.3	Program Administration

WBS NO. 2.1.1.1 (Budget Preparation)

Defense Transuranic Waste Program tasks are first compiled in a rough draft of a priority list for the next two consecutive years.

A call for proposals to perform these tasks ^{is} then sent out to US DOE field contractors who in turn reply in the form of a field task proposal/agreement (FTP/A). These proposals are incorporated into Work Package Agreement Structures (WPAS) for Program Management and Technology Development.

An overall budget is formulated based on individual task funding requests and tailored to fit DOE Waste Management budget guidance. The initial budget is prepared from the WPAS as a zero base budget (ZBB) and is presented to DOE/HQ in April for eventual presentation to the Office of Management and Budget (OMB). This budget is for the two fiscal years following the current year.

At the US DOE Field Coordination meeting selection of tasks and task level funding for the coming fiscal year (FY+1) is accomplished. Prior to the beginning of the budgeted fiscal year in August, the final formulation of the TRU Waste Management Program financial plan is completed. This budget, together with task guidance, is transmitted to the individual task contractors in September by DOE through the appropriate field office.

Task budgets may need revision during the fiscal year due to changing task or program needs. These changes are discussed with the task contractors and are executed through DOE financial plan changes, which are transmitted from DOE/AL to JIO/RI for documentation.

The Annual budget call covers programs that will be funded in the current fiscal year+2 (19CY+2). The optimum sequence for scheduling of events and responsibilities associated with this budget submission are described below; however, the precise schedule may vary depending on DOE requirements.

1. JIO/RI compiles a rough draft priority list of Defense TRU Waste Program Tasks for DP-12 approval.
2. December - DP issues overall programmatic and budget guidance for the nuclear (19CY+2) waste management programs to the lead field offices.
3. January - AL issues detailed programmatic and budget guidance for the TRU lead program elements to the participating field offices.
4. February - Participating field offices/laboratories/contractors prepare and submit to AL a Multiyear Work Element Plan for each TRU Waste R&D task in the form of a Field Task Proposal Agreement (FTP/A).
5. March - AL/JIO/RI consolidates the field inputs and prepares and submits separate Work Package Agreement Structures (DOE WPAS Form 5120.1) for the TRU Lead Program elements of Program Management and Technology Development.

WBS NO. 2.1.1.2 (Program Update Meetings)

Program update meetings are held semi-annually for attendance by representatives of the Defense Transuranic Waste program. The participants include DOE/HQ, the DOE field offices, DOE/AL as the Lead Field Office, the field contractors, and JIO/RI as the Lead Contractor.

Speakers provide presentations on program task goals, progress, accomplishments, milestones, and future direction. In addition, working sessions are organized for topical areas of specialized interest to specific groups. In general, these meetings are an open forum for continued integration of the program. The update meetings are timed to coincide with the DOE-sponsored Field Coordination Meetings.

WBS NO. 2.1.1.3 (Program Administration)

Program administration develops five year budget requests from the WPAS mentioned in section 2.1.1.1, budget preparation. The WPAS presents detailed descriptions of tasks and funding levels for the following two fiscal years. Three additional years of funding level estimates are provided by contractors and milestones for those outyears are also identified.

Program status and planning briefings are prepared for DOE/HQ for field coordination meetings held semi-annually. Also maintaining contacts with DOE Interim Waste Operations, sites, and site traffic management enables JIO/RI to assess program issues and priorities. JIO/RI maintains a regular flow of program information among DOE/AL, DOE/HQ, and the sites.

As the program issues and priorities change, JIO/RI maintains an appropriate level of staffing.

JIO/RI maintains files on all DOE/HQ, DOE/AL, DOE/RFAO, RI/RFP, and USDOE contractor and subcontractor correspondence. Program files on current year work plans and field task proposal/agreements for each fiscal year of program operation are also maintained. Contractor reports and JIO/RI published documents are kept on file along with all program documentation, contractor monthly and year-end summary program reports. Also notes and proceedings of all TRU Program Contractor update meetings are kept on file.

WBS NO. 2.1.2 (Task Administration and Monitoring)

The JIO/RI is responsible for administration and monitoring of all tasks in the TRU Waste Management Program. Most of these activities are done by DOE field contractors who operate major DOE facilities that are integrated into the overall Defense Program. The remainder of the tasks are done by other contractors who are assigned specific Program tasks only. Primary responsibility for conduct of individual tasks within the Program lies with the contractor performing the task and with the DOE field office which administers that contract. The JIO/RI follows progress of each task, and if and when any corrective actions are necessary, makes specific recommendations to AL. Task scope, milestones, deliverables, and budgets are negotiated with the contractors at the start of each task and near the beginning of each fiscal year or after any financial plan or technical program changes and then documented.

The JIO/RI elements in Task Administration and Monitoring are listed below.

<u>Element</u>	<u>Title</u>
2.1.2.1	Guidance
2.1.2.2	Monitoring
2.1.2.3	Reporting
2.1.2.4	Quality Assurance

WBS NO. 2.1.2.1 (Guidance)

JIO/RI R&D requirements are defined by long-range planning and analysis of technical development tasks. Specific tasks are then defined, contractors selected, and task scopes, milestone, deliverables, and budgets are negotiated. Budgets are planned as described in Section WBS NO. 2.1.3. of this plan. Task guidance is issued to contractors through DOE channels during the August-September time frame. The guidance includes a description of the task current year objectives and associated constraints such as time, budget, and specific task interactions. The guidance is used by the contractor to produce a current year work plan to be delivered to JIO/RI by October 1. JIO/RI then uses the current year work plans to monitor the program tasks for the fiscal year, and a current FY Program Plan is also compiled from the current year work plans and delivered to DOE/AL in November. In December the fiscal year plus two budget calls for program tasks and funding is submitted to the field to receive field task proposals to do work.

MILESTONES

Budget/Task Guidance Issued for FY85	August 1985
Current Year Work Plan For FY85	October 1985
Current Year Program Plan CY + 2 Budget Call	November 1985 December 1985
Defense TRU Waste Program Responsibility Plan	December 1985

WBS NO. 2.1.2.2 (Monitoring)

The current fiscal year work plan completion date is scheduled for October 1 and is used to monitor current year technical and financial performance. The JIO/RI uses the individual task information to produce TRU Waste Management Program schedules, milestones, and tracking charts for budgets and performance for the current year.

Each current year task plan submitted by the contractors contains a Work Breakdown Structure, task schedules, goal-oriented milestones, and budget data for the current fiscal year.

JIO/RI staff members are assigned to follow each task. The staff members know and understand the technical area, maintain close contact with the contractor, and monitor the tasks on a continuing basis. The monitoring involves clarification of task guidance, regular communication through telephone contacts and visits to the operating facility, negotiation and documentation of any changes to existing task guidance, milestones, financial planning, and review of draft reports.

Actual task expenditures and task progress are monitored against the plans submitted by each contractor. When necessary, financial adjustments are recommended to AL.

WBS NO. 2.1.2.3 (Reporting)

The JIO/RI is responsible for preparing weekly highlights, monthly milestone update, monthly program status, and annual program summary reports.

The monthly and annual reports for DOE are described in WBS elements which follow.

The participating sites will submit to AL and JIO/RI a monthly progress report for each assigned task within 15 working days from the end of each month. The report will provide a narrative on highlights, technical accomplishments, and publications. In addition, actual costs and milestone accomplishments will be compared to the baseline established in the Current Fiscal Year Work Plan and significant variance analyzed.

The JIO/RI shall write a monthly program status report using information from the participating sites monthly reports. The JIO/RI shall summarize reported costs and compare to baseline projections, evaluate program status, and highlight program achievements and problem areas. The monthly report is due to DOE/HQ 25 working days from the end of the month being reported.

Contractors are required to prepare an annual technical report summarizing task accomplishments, budget status, and problem areas encountered. This report is to be submitted to JIO/RI in October and will aid JIO/RI in preparation of a summary annual technical report which encompasses the Defense TRU Program.

WBS NO. 2.1.2.4 (Quality Assurance)

Field offices and contractors are responsible for providing a description of their QA plans for each task identifying those elements of existing Quality Assurance Programs, and any controls which may be required to conform with guidance from the lead sites. Plans cover a control item matrix that involves three different levels of quality application. The three levels are generally characterized by the following descriptions:

JIO/RI reviews the QA summary in each site's CYWP and proposes QA levels that will be approved by DOE/HQ for the DTWP guidance.

JIO/RI role in QA of tasks include the following:

1. Review of task QA requirements
2. Assignment of proper task QA level
3. Assist sites in developing QA controls
4. Review and concur with site QA summaries in CYWP
5. Monitor progress of QA commitment
6. Identify the need and request a QA audit of a field task when required

WBS NO. 2.1.3 (Program Documentation)

The JIO/RI is responsible for updating four major program documents: The TRU Program National Strategy Document, which is updated as required, the preparation of the Long-Range Master Plan for the Defense Transuranic Waste Management, Defense TRU Waste Program Responsibilities Plan, and the Annual Program Plan:

MILESTONES

Update Annual Program Plan	November 30, 1985
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Update TRU Waste Program Responsibilities Plan	December 31, 1985
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Update TRU Long Range Master Plan	March 17, 1986
-----------------------------------	----------------

Update TRU Program Strategy Document	September 30, 1986
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The documents are submitted to AL and DOE/HQ for review and approval, with review and comments also requested from participating field offices.

WBS NO. 2.1.3.1 (Strategy Document)

The purpose of the National Strategy Document is to (i) provide background information on the nature and quantities of TRU wastes, (ii) identify short and long-term National objectives for TRU waste management, and (iii) describe the program strategies to meet the National objectives.

WBS NO. 2.1.3.2 (Master Plan)

The purpose of the Long-Range Master Plan is to establish a multi-year, integrated planning basis for the Program. This Program must meet National objectives for short and long-term TRU waste management and reduce costs and risks. This plan will serve as a framework for the smooth transition from interim management to permanent disposal. This document will be issued through DOE/HQ and is the official TRU Program Planning document.

WBS NO. 2.1.3.3 (Responsibilities Plan)

The purpose of the Responsibilities Plan is to (i) summarize the management roles of participants in the total TRU Waste Management Program, (ii) detail responsibilities and authorities for R&D and System Integration, (iii) define organizational interfaces and communication channels for R&D and System Integration, and (iv) establish procedures for planning, reporting, and budgeting of the R&D activities.

WBS NO. 2.1.3.4 (Annual Program Plan)

The purpose of the Annual Program Plan is to provide an overall scope of work summary that categorizes each of the task elements into a work breakdown structure. Each task has a brief description of goals and objectives, current status, task description, listing of milestones, and funding level. The Annual Program Plan identifies the Defense TRU Waste Program's approach to achieving overall program objectives as identified in the Strategy Document.

MILESTONES

Annual Program Plan--Final	November 30, 1985
Responsibilities Plan--Final	December 30, 1985
Long-Range Master Plan--Final	March 17, 1986

WBS NO. 2.1.4 (Integration)

As part of the Defense TRU Waste Program (DTWP), the Transuranic Lead Organization (TLO), JIO/RI, and DOE/AL will integrate and coordinate all activities to ensure that TRU Waste Management requirements and needs for research and development, operations, and facility design, engineering, and construction allows for the smooth transition from interim storage to final disposition. This will implement the Defense TRU Program Strategy Document and the Long-Range Master Plan for Defense TRU Waste Management. Interfaces are established with the generating, storage, and burial sites and with the WIPP Project Office to ensure integration of all program activities within DTWP.

<u>Element</u>	<u>Title</u>
2.1.4.1	WPO/TLO Interface Control Board ICB
2.1.4.2	WACCC
2.1.4.3	Prototype TRUPACT Demonstration
2.1.4.4	Traffic Management Interface
2.1.4.5	Technology Transfer
2.1.4.6	RWG National Working Group
2.1.4.7	Lead Sites Interface
2.1.4.8	Other Agency Interface

WBS NO. 2.1.4.1 (WPO/TLO ICB)

The purpose of interface management agreement between the TRU Waste Lead Organization (TLO) and the Waste Isolation Pilot Plant (WIPP) Project Office (WPO) is to provide formal planning and administration between the two organizations. It provides a system for exchange of information, setting baselines for interface areas, and full cooperation in decisions affecting both organizations. The scope of this management charter, extends to technical and programmatic areas affecting both TLO and WPO in carrying out their respective missions.

The Interface Control Board (ICB) has been established to cover programmatic interfaces. The primary role of the ICB will address communicating and distributing to both TLO and WPO any proposed changes in directives, criteria, political or institutional agreements, analyses, plans or other developments which may impact either WIPP or the DTWP.

In addition to serving the Board as non-voting members, JIO/RI has responsibility to administer activities of the ICB. This responsibility includes supporting monthly meetings, seeing that action items are carried out, developing guidance for Interface Working Group (IWG's) and preparing the semi-annual reports. The JIO/RI will keep aware of the progress on IWG task and recommendations to the ICB and where appropriate will serve as active members of IWG's. (See Appendix E)

WBS NO. 2.1.4.2 (Waste Acceptance Criteria Certification Committee)

The WACCC is responsible for the review and evaluation of individual site certification plans, Quality Assurance Plans, and waste form specific certification procedures to ensure compliance with WIPP Waste Acceptance

Criteria. The committee is composed of representatives from DOE Waste Management Technology Development Division, JIO/RI, and WIPP. The committee provides comments on document reviews which are incorporated into certification plans and procedures leading to committee conditional approval. Final approval involves the WPO and the State of New Mexico Environmental Evaluation Group, EEG, reviews and approvals.

JIO/RI, as a WACCC member, provides a certification plan review and audit function. Certification, Quality Assurance, and related documents as submitted by waste generating sites are reviewed by JIO/RI to ensure compliance with WIPP Waste Acceptance Criteria. Following conditional approval of these plans by WACCC, pre-operational audits are performed by WACCC for conformance verification.

② Additionally, JIO/RI oversees various technical studies to define/delineate technical aspects of Waste Acceptance Criteria conformance.

WBS NO. 2.1.4.3 (Prototype TRUPACT Demonstration)

Prototype operations of TRUPACT are intended to familiarize the operations personnel at the storage and generating sites with the use of TRUPACT, and to provide operating experience with the packaging before contracts are let for full fleet fabrication. Familiarization of the operating personnel at the various sites with TRUPACT use will be accomplished by the TRUPACT Training Team, which has members from WIPP, JIO/RI, JIO/W, and Sandia. The uncertified Unit 1 TRUPACT is scheduled to go to each of the sites for a two week training and demonstration period. Training on this tour will involve use of the TRUPACT Operating and Maintenance Manual, generic operating procedures published in the "Prototype Fleet Implementation Plan", and site specific procedures as available. Use of the certificate of compliance bearing Units 2 and 3 will provide the initial use of TRUPACT with CH TRU waste. Waste will be transported by rail and highway between generating (Rocky Flats) and storage (INEL) sites. This use will provide operational data in support of the fleet fabrication contract.

WBS NO. 2.1.4.4 (Traffic Management Interface)

Interface activities involving both the TLO and the WPO will be specific to the coordination of schedules, through-put for permanent disposal, and transportation receipt and handling of TRU wastes from storage and generating sites to the WIPP. Defense contractor site traffic management departments are consulted by JIO/RI. JIO/RI, in turn, appraises the traffic community of TRUPACT development and planning activities which could affect the establishment of routes, schedules and tariffs to accomplish permanent WIPP disposal.

WBS NO. 2.1.4.5 (Technology Transfer)

As technical projects are completed JIO/RI arranges for the information to be transferred to other sites participating in the TRU waste program. Technology transfer projects are assigned and funded. Some of the activities that will be a benefit to other sites include SWEPP, PREPP, nondestructive assay and evaluation, and RH certification process engineering. Activities from various sites that must process and prepare waste for certification, and the use of assay technology to characterize and quantify TRU waste are areas for exchange of developed technology.

WBS NO. 2.1.4.6 (Reduced Waste Generation; RWG, National Working Group)

The purpose of this group is to gather people together who are actively engaged in, or associated with, USDOE waste management activities, and 1) exchange ideas on ways in which waste generation can be minimized, 2) act as an informal peer review group for planning and funding of new DTWP tasks, and 3) establish cooperative work tasks to develop and implement reduced waste generation technology. This technology is comprised of: 1) Administrative control, 2) Materials substitution, 3) Process Development or Optimization, and 4) New Equipment Utilization. (See Appendix A)

WBS NO. 2.1.4.7 (Lead Sites Interface)

The JIO/RI interfaces with other DOE Defense programs. Interfaces include, but are not limited to, the following list:

<u>Lead Sites</u>	<u>Interfaces</u>
High-Level Waste (HLW)	waste forms, canisters, transportation shared technologies
Low-Level Waste (LLW)	incineration, quantities of TRU decontaminated to LLW, LLW definition, quantities of LLW now in TRU storage as a result to definition change, greater confinement disposal
Remedial Action Programs	quantities of waste generated, decontamination techniques, WIPP certification
Decontamination and Decommissioning (D&D)	decontamination techniques, waste volume generated
Transportation Technology Center (TTC)	transportation criteria, waste package, canister design, NEPA compliance support
Waste Isolation Pilot Plant (WIPP)	repository criteria, waste package, canister design, transportation operations and planning
HLW, LLW, AIRBORNE, WIPP, NE, West Valley, SFMP, and OCRWM Programs	improve technology transfer and eliminate technology duplication

MILESTONES

Periodic contact shall be maintained with the above Defense programs.

WBS NO. 2.1.4.8 (Other Agency Interface)

Interfaces with other agencies occur under DOE direction as necessary for long-range planning and establishing or interpreting regulations. These interfaces include organizations such as the Nuclear Regulatory Commission (NRC), Department of Transportation (DOT), Council of Environmental Quality (CEQ), Environmental Protection Agency (EPA), and the State Planning Council.

MILESTONES

Periodic contact shall be maintained with the organizations listed above.

WBS NO. 2.1.5 (Program Review)

In accordance with the DOE's commitment to seek public involvement in the planning of radioactive-waste management programs, the JIO/RI is seeking input on TRU Waste Management Programs. An Independent Review Committee has been established for reviewing the overall TRU program, as well as specific tasks. The program is also periodically reviewed by OMB, GAO, and the State of New Mexico Environmental Evaluation Group (EEG).

The major element associated with Program Review is listed below.

<u>Element</u>	<u>Title</u>
2.1.5.1	Independent Review Committee
2.1.5.2	OMB
2.1.5.3	GAD
2.1.5.4	EEG

WBS NO. 2.1.5.1 (Independent Review Committee)

An Independent Review Committee (IRC) has been formed to act as an independent review organization for the TRU Waste Management Program.

The IRC:

- A) Reviews and evaluates TRU Program plans and progress.
- B) Serves in a review capacity to provide unique input to TRU Program Management or matters pertaining to the quality and progress of Research and Development projects (ongoing and new), and the proposed direction of these efforts in fulfilling TRU Program objectives.

JIO/RI schedules and coordinates IRC meetings at least quarterly. Additional meetings of the Committee may be scheduled when deemed necessary. (See Appendix D)

WBS NO. 2.1.5.2 (Office of Management and Budget)

The Office of Management and Budget (OMB) reviews the program on an annual basis to determine program expenditures, renew program direction, and identify future program funding requirements.

WBS NO. 2.1.5.3 (General Accounting Office)

The General Accounting Office (GAO) periodically reviews the program or parts of the program for progress, direction, accomplishments, strategy, integration, funding, expenditures, etc. Review meetings are held and comments/questions are answered.

WBS NO. 2.1.5.4 (Environmental Evaluation Group)

The State of New Mexico Environmental Evaluation Group (EEG) periodically reviews portions of the program that might affect the safety and environment of New Mexico. Review meetings are held and comments/questions are answered.

WBS NO. 2.1.6 (Foreign Exchange)

The international exchange of information in the nuclear waste management field established by the DOE will involve the following activities in FY 85:

1. Status documentation for the U.K., F.R.G., France, and PNC-Japan agreements will be prepared and distributed by JIO/RI
2. Workshops, seminars, and meetings will be conducted to ensure information is disseminated to the appropriate technical specialist within the USDOE complex.
3. Assessments of Foreign Technology are to be made of foreign R&D efforts and waste management practices to determine value and benefits that may be derived from a particular agreement.

WBS NO. 2.2 (Program Analysis)

JIO/RI Program Analysis consists of the formal studies and planning activities that provide a foundation for decisions on program direction, goals, and content. These same activities identify needs and goals for individual tasks. Major objectives of program analysis are to define long-range requirements and goals, and within these constraints, to identify Long-Range TRU Waste Management options and to conduct analyses and assemble the information needed for rational and supportable TRU Program Decisions, Program Integration, and to develop a TRU Program Strategy and Long-Range TRU Program plans.

The major elements in Program Analysis are listed below.

<u>Element</u>	<u>Title</u>
2.2.1	Systems Planning
2.2.2	Requirements Analysis
2.2.3	Criteria and Procedures Development
2.2.4	Legislative and Regulatory Analyses
2.2.5	Impact and Tradeoff Analyses
2.2.6	Data Base

WBS NO. 2.2.1 (Systems Planning)

Implementation of an overall program plan involves a series of activities that involve integrated program scheduling systems modeling, system cost modeling, certified waste projections, and a reference integrated shipping plan. Development of the planning basis consists of identifying (a) information and analyses needed for the decisions, (b) operational requirements, and (c) technology and system requirements, and then developing plans for meeting those requirements.

Task WBS numbers and titles are listed below:

<u>Element</u>	<u>Title</u>
2.2.1.1	Integrated Program Scheduling
2.2.1.2	System Modeling
2.2.1.3	System Cost Modeling
2.2.1.4	Certified Waste Projections

WBS NO. 2.2.1.1 (Integrated Program Scheduling)

The program scheduling logic has been incorporated into a user-interactive computer system (LISA PROJECT). The scheduling logic for activities and events in the TRU program will be continually updated, and changed to reflect or anticipate program changes. Critical paths will be identified for special management attention. Schedule progress and problem areas will be reported to provide for informed decisionmaking. The effectiveness of information transfer from field operations to headquarters will also continue to be refined. The adequacy of alternate computerized project scheduling systems to meet JIO/RI needs will continue to be evaluated.

WBS NO. 2.2.1.2 (System Modeling)

Several models have been developed by the JIO/RI as tools in the design of the TRU waste management system. The M-PLAN and TRUSIM models are discrete-event type simulation models wherein the system is modeled through a sequence of events that represent the actual operation of the system. These models then simulate the generation, certification, and transportation of CH-TRU waste to the WIPP facility. JIO/RI will provide guidance for further development of these models to support a variety of analysis and planning tasks, including development of a trimmed down version of TRUSIM that will analyze CH and RH TRU waste concurrently.

TRUSYSTEM is a "cleaned up" version of M-PLAN, TRUSIM, and TRU COST combined, which will model both RH and CH wastes simultaneously. The program is scheduled for completion in late FY86.

WBS NO. 2.2.1.3 (System Cost Modeling)

The TRUCOST system cost model will be further developed in order to estimate and analyze the costs associated with long-term management of TRU waste, and to support a variety of analyses and planning tasks.

Specifically, improved user interface will be developed and JIO/RI will expand the scenarios available for study in the model.

WBS NO. 2.2.1.4 (Certified Waste Projections)

The JIO/RI annually develops for the Integrated Data Base and itself, certified waste projections of TRU waste. These projections provide input for the data base system for a variety of analyses that can then be performed informed program decisionmaking.

WBS NO. 2.2.2 (Requirements Analysis)

This task is involved in the identification of technology, facility, and system requirements.

Work elements associated with this task are listed below:

<u>Element</u>	<u>Title</u>
2.2.2.1	Remote-Handled Waste Management
2.2.2.2	Special-Case Waste Management
2.2.2.3	Facilities
2.2.2.4	Transportation Packaging

WBS NO. 2.2.2.1 (Remote-Handled Waste Management)

Studies will be conducted to evaluate alternatives and costs for handling, processing, and packaging RH-TRU waste. Facility development will be identified to support these activities and procedures and plans for WIPP-WAC certification will be developed. A plan will be finalized for support of the WIPP RH waste demonstration. The RH Waste Strategy Document will be finalized.

WBS NO. 2.2.2.2 (Special-Case Waste Management)

Special-case waste includes contact-handled waste and remote-handled waste that are difficult to process and certify for WIPP emplacement. The process of characterizing special-case waste in interim storage will be continued in FY 85. Special-case waste management activities will also identify facility requirements for handling, processing, packaging and WIPP certification. Guidance will be issued for making decisions on whether wastes are impractical to certify. The SC Waste Strategy Document will be finalized.

WBS NO. 2.2.2.3 (Facilities)

Requirements for RH waste processing and certification facilities will be reviewed in a cost/schedule optimization analysis. (See appendix C.)

WBS NO. 2.2.2.4 (Transportation Packaging)

Development of a transportation system for the transport of remote handled waste will continue. This effort will consist of initiating modification of the DHLW cask SARP such that the certificate of compliance will include the transport of remote handled waste. In an effort to encourage the private sector to develop transportation packaging compatible with remote handled waste, capability and interest of the commercial sector will be assessed. Additional RH waste characteristics data will be gathered to further define transport system requirements.

WBS NO. 2.2.3 (Criteria and Procedures Development)

Strategies and technologies are being developed and updated for long-term management alternatives for buried waste. Other capabilities for non-WIPP disposal are being investigated, for waste forms that would otherwise be too difficult and expensive to process for WIPP emplacement. Further studies and field demonstrations for these capabilities will be initiated in FY 85.

Work elements associated with this task are listed below:

<u>Element</u>	<u>Title</u>
2.2.3.1	Certification
2.2.3.2	Greater Confinement Disposal
2.2.3.3	In-Situ-Vitrification

WBS NO. 2.2.3.1 (Certification)

As a member of the WIPP-Waste Acceptance Criteria Committee, JIO/RI reviews waste generating and storage site certification and related QA plans to ensure conformance to the WIPP-WAC and performs audits of site waste certification activities.

Additionally, JIO/RI oversees a variety of technical studies designed to identify/resolve issues pertaining to the technical aspects of Waste Acceptance Criteria Conformance. Certification activities during 1986 will include a Guide for WAC compliance and a gas generation evaluation. A summary report regarding the status of site certification activities is transmitted quarterly to DOE/HQ waste operations. (See Appendix C)

WBS NO. 2.2.3.2 (Greater Confinement Disposal)

In FY 86, JIO/RI will evaluate a generic assessment of Greater Confinement Disposal (GCD) alternatives for TRU waste that is considered to be impractical-to-certify (ICT) at ORNL. Criteria for establishing a GCD practice and decision methodology for implementing GCD procedures will, with JIO/RI's review and acceptance, be recommended to DOE/AL as a GCD alternative site-specific to ORNL for FY 87.

WBS NO. 2.2.3.3 (In-Situ-Vitrification)

JIO/RI will evaluate the procedures for the large-scale field demonstration of in-situ-vitrification to be conducted in FY 86 by PNL. Criteria for this candidate method for long-term management alternatives for buried waste will be evaluated.

WBS NO. 2.2.4 (Legislative and Regulatory Analyses)

Legislative and regulatory analyses will be ongoing to provide early warning as to how program strategy would be affected by proposed and pending Congressional actions, including legislation, appropriations, and hearings.

Four areas of analysis listed below are anticipated to have the most impact of proposed or existing legislation and regulations that affect or could affect the management of defense TRU wastes:

<u>Element</u>	<u>Title</u>
2.2.4.1	NEPA Compliance
2.2.4.2	40 CFR 191
2.2.4.3	Transportation Issues
2.2.4.4	RCRA
2.2.4.5	CERCLA

WBS NO. 2.2.4.1 (NEPA Compliance)

The initial steps of assessing environmental requirements for retrieving, processing, certifying, transporting and emplacing defense TRU wastes in the WIPP, were the development and issuing of a NEPA Strategy and Planning Document. This document supported site-specific and generic planning and scheduling to meet appropriate environmental requirements. In addition, the activity will support sites in making initial assessments of any required site-specific environmental documentation, e.g. action description memoranda, and submitting these documents for appropriate review.

WBS NO. 2.2.4.2 (40 CFR 191)

This regulation is proposed by the Environmental Protection Agency and is entitled "Environmental Standards and Federal Radiation Protection Guidance for Management and Disposal of Spent Nuclear Fuel, High-Level, and Transuranic Radioactive Wastes." JIO/RI will review this document and provide analysis of potential impact on handling, processing, packaging transporting, and certification of TRU wastes for WIPP emplacement. Specific actions for compliance will also be recommended.

WBS NO. 2.2.4.3 (Transportation Issues)

JIO/RI will participate in an ad hoc working group established to develop a DOE plan for identifying and addressing institutional issues associated with transportation of TRU wastes.

WBS NO. 2.2.4.4 (RCRA)

JIO/RI will monitor implementation of the 1984 EPA-DOE agreement on application of RCRA to defense wastes, and provide support in controlling costs at the site level.

WBS NO. 2.2.4.5 (CERCLA)

JIO/RI will monitor implementation of the 1984 EPA-DOE agreement on application of CERCLA to defense wastes, and provide support in controlling costs at the site level.

WBS NO. 2.2.5 (Impact and Tradeoff Analyses)

Numerous impact, tradeoff, and optimization studies are necessary to organize the analysis of a large volume of relevant information and constraints defining both the operational system and the development program. Work tasks associated with this element are listed below:

<u>Element</u>	<u>Title</u>
2.2.5.1	RH Cost/Schedule Optimization
2.2.5.2	Transportation System Analysis
2.2.5.3	Risk Analysis
2.2.5.4	Ad Hoc Analyses

WBS NO. 2.2.5.1 (RH Cost/Schedule Optimization)

A comprehensive review of program system wide schedules and cost impacts of changes will be made to identify major cost saving opportunities that could be realized by modification of current RH waste plans. This would provide optimization to the overall program. (See Appendix B)

WBS NO. 2.2.5.2 (Transportation System Analysis)

As transportation system plans evolve, system cost and project scheduling models will be used to optimize transportation system plans. TRUCOST will have to be expanded to accommodate scenarios for alternative transportation systems. TRUSIM would provide input to TRUCOST to recommend whether a decentralized dispatch system, or a centralized dispatch system, or a combination of both would be cost effective. TRUPACT loading optimization analyses and rail/truck transportation tradeoff analyses will be incorporated.

WBS. NO. 2.2.5.3 (Risk Analysis)

Risk analyses will be performed in support of the development of waste acceptance criteria and in support of recommendations on transportation system development.

WBS NO. 2.2.5.4 (Ad Hoc Analyses)

Evolving program plans and the identification of alternative approaches in the program make it necessary to perform short-term analyses throughout the year. JIO/RI responds to requests for decisionmaking information from DOE/HQ and DOE/AL, as well as to needs it identifies.

WBS NO. 2.2.6 (Data Base)

The TRU Program, working with the Integrated Data Base at ORNL, compiles and maintains a data base on TRU waste quantities and characteristics, as support for policy decision making, long-range planning, economic and technical tradeoff analysis, technology development, process selection, facility sizing/design, and public information.

Work elements associated with this element are listed below:

<u>Element</u>	<u>Title</u>
2.2.6.1	TRU Waste Data Base
2.2.6.2	Integrated Data Base
2.2.6.3	Waste Characterization

WBS NO. 2.2.6.1 (TRU Waste Data Base)

The JIO/RI has developed a data base designed to speed up data acquisition for program trade-off studies and analyses. All container-by-container data at the sites have been downloaded to the JIO/RI computer system in a common format. This data has the capability of being manipulated by a data base management system.

WBS NO. 2.2.6.2 (Integrated Data Base)

JIO/RI develops and transmits to the Integrated Data Base at the ORNL data to be incorporated into the annual report DOE/NE-0017. This document is the consistent set of data to be used as the basis for all DOE analyses. The document addresses not only TRU waste, but also discusses High-Level, Low-Level, Spent Fuel, Uranium Mill Tailings, Airborne Wastes, etc.

WBS NO. 2.2.6.3 (Waste Characterization)

Waste Characterization analyses are performed at the JIO/RI on a regular basis to further understanding of waste management requirements. These studies are used in setting limits on waste acceptance at the WIPP, analyses concerned with radiation exposure to workers and the environment, transportation container design, program scheduling and planning, etc.

BUDGET SUMMARY - JIO/RI
FY86

OPERATING-INPUT-2066K
\$K

	O	N	D	J	F	M	A	M	J	J	A	S
PLANNED(1)												
Monthly PM *	74	67	57	62	58	66	62	60	65	62	61	77
Monthly PA **	121	109	93	102	94	107	102	97	107	102	99	126
Total	195	176	186	164	152	173	164	157	172	164	160	203
Cumulative	195	371	557	721	873	1046	1210	1367	1539	1703	1863	2066

OUTPUT-2066K
\$K

	O	N	D	J	F	M	A	M	J	J	A	S
PLANNED(1)												
Total PM *	74	67	57	62	58	66	62	60	65	62	61	77
Total PA **	121	109	93	102	94	107	102	97	107	102	99	126
Total	195	176	186	164	152	173	164	157	172	164	160	203
Cumulative	195	371	557	721	873	1046	1210	1367	1539	1703	1863	2066

* PM = Program Management (600K) + Independent Review (90K) + National Working Group Reduced Waste Generation (40K) or 730K.

** PA = Program analysis (740) + RH Cost/Schedule Optimization (300K) + 100K Interim Waste Operation Support + Guidance for WAC (80K) or 1,220K.

(1) Includes 141.6K carried over from FY85.

PROGRAM MANAGEMENT MILESTONES FY 86

<u>MILESTONE</u>	<u>DATE</u>
Issue the JI0/RI Current Year Work Plan (CYWP).....	10 - 85
Deliver Annual End of Year Technical Report.....	11 - 85
Complete Current Fiscal Year Program Plan.....	11 - 85
Complete FY 88 Budget Call.....	12 - 85
Update TRU Long Range Defense Waste Master Plan.....	03 - 86
Submit FY 88 Budget to DOE/AL.....	04 - 86
Issue TRU Waste Program Budget and Task Guidance for FY 86.....	08 - 86
Complete Draft Responsibilities ^a Mangement Plan Update.....	09 - 86
Issue Final Report on RWG National [^] Working Group.....	09 - 86

JIO WASTE SYSTEMS OFFICE

PROGRAM MANAGEMENT MILESTONES FY 86	1986											
	O	N	D	J	F	M	A	M	J	J	A	S
I	▼											
Issue the JIO/RI Current Year Work Plan (CYWP)	▼											
Deliver Annual End of Year Technical Report	▼	▼										
Complete Current Fiscal Year Program Plan	▼	▼										
Complete FY 88 Budget Call	▼	▼										
Update TRU Long Range Defense Waste Master Plan	▼	▼										
Submit FY 88 Budget to DOE/AL	▼	▼										
Issue TRU Waste Program Budget and Task Guidance for FY 87	▼	▼										
Complete Draft Responsibilities Management Plan Update	▼	▼										
Issue Final Report on RWG National Working Group	▼	▼										

PROGRAM ANALYSIS MILESTONES FY 86

<u>MILESTONE</u>	<u>DATE</u>
Issue Final Transportation Plan for..... Transportation Implementation	03 - 86
Update the TRU Program (JIO) Data Base.....	09 - 86
Complete RH Program Review and Issue Report..... on Status and Needs	09 - 86
Complete Cost and Optimization Studies.....	09 - 86
Complete All Inventory Work-off Plans.....	09 - 86
Issue Report for WAC Guidance.....	09 - 86

JIO WASTE SYSTEMS OFFICE

[illegible]

QUALITY ASSURANCE

The JIO/RI Quality Assurance (QA) activity follows the established QA procedures and plans of the Rockwell International RFP QA Division. RFP maintains a QA effort consistent with the requirements of DOE Order 5820.2 and DOE Order 5700.6.

Within JIO/RI, a three-member team provides the link between the Plant QA Division and the JIO/RI project monitors who have QA responsibility. A member of the QA division is to be assigned to the JIO/RI team to provide the communication to accurately implement QA procedures.

The major products of JIO/RI fall into one of the following categories:

- National strategies & plans
- Integrated schedules & cost projections
- Procurement cost estimates
- System requirements & tradeoff analyses
- Interface Working Group reports
- Waste inventory and characteristics data
- System models
- Technical analyses
- Task guidance
- JIO/RI plans & reports
- Foreign technology status reports
and workshop proceedings

The key quality issues are:

- Does the document meet its objectives?
- Is it quantitatively correct?
- Is it internally consistent?
- Is it consistent with DOE policy?
- Is it consistent with other planning documents?
- Is it responsive to site input?

The first step to ensure quality is to establish ground rules, such as requiring consistency with the Integrated Data Base (a requirement for all JIO/RI work). Validated computer models are used for repetitive or lengthy calculations, to prevent simple calculation errors. A series of internal and external reviews of draft documents by the potentially affected parties are used to ensure accuracy, consistency, and correctness in the products. The impact of these tools is shown in the following matrix:

<u>Quality Issue</u>	<u>Laying Out Ground Rules</u>	<u>Computer Modeling</u>	<u>Mechanism</u>		<u>DOE Mgmt Review</u>	<u>Comment Response</u>
			<u>JIO/RI Review</u>	<u>Site Review</u>		
Meet objectives	XX			XX	XX	
Quant. correct	XX	XX				
Intern. consistent		XX		XX		
Policy consistent				XX	XX	
Consistent other docs			XX	XX	XX	
Responsive to input						XX

In addition, JIO/RI has a Program Operations Support Team (POST), including representatives from Rocky Flats Plant waste operations, traffic management, health safety & environment, communications, and legal organizations to ensure that site input is received on potentially sensitive issues. JIO/RI also supports an Independent Review Committee (IRC) of experts not working with the Program, and this IRC is asked to review and comment on major JIO/RI products before they become final.

The JIO/RI QA team will review quarterly the status of the QA activity with the project monitors and report the plan's effectiveness to the JIO/RI Program Manager and the QA Division Manager.

APPENDIX A

CURRENT YEAR WORK PLAN
RWG-NATIONAL WORKING GROUP

FY 1986
TECHNICAL WORK PLAN

1. ADMINISTRATIVE CONTROL

1.1 RWG - National Working Group AL/RFP

This task will be for the continuation of the National Working Group for Reduction in TRU Waste Arisings. Organizational objectives are to
1) exchange ideas on ways in which waste arisings can be minimized,
2) provide analytical input for task development and implementation, and
3) establish cooperative work efforts for technical development.

FY 86 milestones will be to 1) host three meetings at different sites and exchange information relevant to waste reduction, 2) submit a topical report entitled "FY 1986 Summary Report -- National Working Group for Reduction in TRU Waste Arisings".

Background:

The Working Group was organized in FY 84, and the following meetings have been held:

1. The NWGRTWA held its first meeting in Northglenn, CO, October 14, 1983. Organizational objectives were outlined and future tasks were defined.
2. The second meeting was held at LANL, February 23, 1984, and the principal subjects of discussion were 1) Clarification of Operational Definitions, 2) Investigation of Bagless Posting Systems, 3) Review of Proposed DTWP-RWA FY 1985 Tasks, and 4) Investigation of Glovebox HEPA Filters.
3. The third meeting was held at the Hanford House in Richland, Washington, July 19, 1984. The theme of this meeting was Reduction in Waste Through Equipment Selection and Preventative Maintenance. In addition, presentations were made on proposed waste reduction design features for the new Special Isotope Separation (SIS) facility, status of the bagless posting systems being installed at SRP and LANL, systems study for remote handled waste, size reduction using high pressure water cutting and the RHP/LANL arc saw, and an update of the FY 85/86 proposed tasks for Reduced Waste Generation.
4. The fourth meeting was a US/UK Workshop on Reduction in Waste Arisings which was held at ORNL, May 13-15, 1985. The objective of this meeting, which was held under the US/UK bilateral agreement for waste management, was to exchange ideas on ways in which waste generation can be minimized through administrative control, materials substitution, equipment utilization, and process optimization.

Resource Requirements

1. Manpower: 0.5
2. Equipment: None
3. Work Area/Gloveboxes: N/A
4. Facilities: N/A

Schedule/Milestones:

The first FY 86 National Working Group for Waste Reduction is being scheduled for October 23-24, 1985, at INEL. Discussions on Wednesday, October 23, 1985, will focus on reduction in waste through 1) Optimizing Waste Immobilization, 2) Disposal of Spent Resins, 3) Assay Instrumentation for Waste Sorting at the Source of Generation, 4) Reduction in Pyrochemical Waste Salts Through Recycle, 5) Laser Cutting Technologies, 6) PREPP Volume Reduction, and 7) Super Compactors.

On Thursday, October 24, 1985, there will be a tour of the INEL site in which the following facilities will be visited:

Stored Waste Examination Pilot Plant - SWEPP
Process Experimental Pilot Plant - PREPP
Radioactive Waste Management Complex - RWMC
Waste Experimental Reduction Facility - WERF

APPENDIX B

W-WPP does
this document?

CURRENT YEAR WORK PLAN
RH COST/SCHEDULE OPTIMIZATION

CURRENT YEAR WORK PLAN
FY-1986

RH COST/SCHEDULE OPTIMIZATION

ROCKWELL INTERNATIONAL CORPORATION
JOINT INTEGRATION OFFICE
ALBUQUERQUE, NEW MEXICO

SEPTEMBER 1985

COST/SCHEDULE OPTIMIZATION

INTRODUCTION

The RH Cost/Schedule Optimization task is a necessary function to ensure that program schedules, analyses, and goals are being performed with optimum schedules and costs. The results of this study will offer DOE information with which it can establish that the TRU Waste Program is providing the most efficient waste management.

A comprehensive review of program schedules and cost/schedules tradeoffs will be made to identify major cost saving opportunities (if any) that could be realized by modification of current plans for any of the following:

1. Retrieval/certification schedules, durations, or rates;
2. Processing schedules, priorities, durations, or throughputs;
3. Shipping schedules, priorities, durations, or rates;
4. Centralized vs. decentralized processing and/or certification;
5. Volume reduction through sorting and/or processing;
6. Facility and/or fleet downsizing.

Program objectives and overall schedules will be as stated in The Defense Waste Management Plan ("achieve permanent disposal and end interim storage"). The Long-Range Master Plan will be used as the baseline for the analysis. A strategy for cost measurement and comparison will be developed and circulated for review and comment early in the task. The Plan will include revised schedules and cost estimates, together with a comparison with the baseline schedules and costs. It will identify the impact on total program costs and on site-specific and lead program costs through realization of program goals.

GOALS AND OBJECTIVES

1. Streamline TRU program tasks to be as different as possible.
2. Analyze TRU program tasks to assure most direct path to program goals is being followed.
3. Compare costs of alternative paths to program goals to assure cost effectiveness of the path selected.
4. Assure that most cost effective and efficient path is selected to achieve permanent disposal and end interim storage.

QUARTERLY TASKS AND DESCRIPTIONS

FIRST QUARTER (All deliverables are due on the last day of the quarter.)

1. Current Year Work Plan delivered to ALO/WMTDD.
2. Base Case Definition, List of Scenarios for Analysis, and Detailed Schedule to the field for comments.
3. Incorporate comments from the field.

SECOND QUARTER (All deliverables are due the last day of the quarter.)

1. Complete site visits.
2. Complete Draft Analysis for review.

THIRD QUARTER (All deliverables are due the last day of the quarter.)

1. Send draft Cost/Schedule Optimization Plan to the Field for review.
2. Incorporate comments from the field.

FOURTH QUARTER (All deliverables are due the last day of the quarter.)

1. Issue Final Recommended Cost/Schedule Optimization Plan.

REMOTE HANDL OPTIMIZATION

COST/SCHEDULE SCHEDULE

1

APPENDIX C

CURRENT YEAR WORK PLAN
GUIDANCE FOR WASTE ACCEPTANCE CRITERIA
COMPLIANCE

CURRENT YEAR WORK PLAN
FY-1986

GUIDANCE FOR WASTE ACCEPTANCE CRITERIA
COMPLIANCE

ROCKWELL INTERNATIONAL CORPORATION
JOINT INTEGRATION OFFICE
ALBUQUERQUE, NEW MEXICO

SEPTEMBER 1985

GUIDANCE FOR WASTE ACCEPTANCE CRITERIA COMPLIANCE

INTRODUCTION

The Guidance for Waste Acceptance Criteria Compliance is a necessary task in the TRU Program that will provide a general reference containing suggested Waste Isolation Pilot Plant-Waste Acceptance Criteria (WIPP-WAC) solutions to waste certification problems. Although the WIPP-Waste Acceptance Criteria Certification Committee (WACCC) has tried to maintain a "flexibility of methods" approach in its guidance to sites, it is believed that certain methods of WAC compliance can and should be transferred for similar waste forms and compliance activities at other sites. Specific WAC to be investigated for compliance technology transfer are expected to include:

1. Immobilization
2. Gas generation
3. Thermal power calculations
4. Pu-equivalent activity determinations
5. Assay and related radiological measurements

GOALS AND OBJECTIVES

The objective of this task will be to transfer technology related to procedure/technique development for meeting WAC requirements.

QUARTERLY TASKS AND DESCRIPTIONS

FIRST QUARTER (All deliverables are due on the last day of the quarter.)

1. Initiate procedure development (outline developed for document).
2. Initiate site visits.

SECOND QUARTER. (All deliverables are due on the last day of the quarter.)

1. Complete site visits.
2. Develop draft report for site review/comment.

THIRD QUARTER (All deliverables are due on the last day of the quarter.)

1. Issue draft report for site review/comment.
2. Incorporate comments from the field.

FOURTH QUARTER (All deliverables are due on the last day of the quarter.)

1. Issue Final Document on Guidance For Waste Acceptance Criteria Compliance.

APPENDIX D

CURRENT YEAR WORK PLAN
INDEPENDENT REVIEW COMMITTEE

INDEPENDENT REVIEW COMMITTEE

Objectives

The Independent Review Committee, comprised of seven members with background and experience with radioactive waste management issues, provides independent and objective review of Defense Transuranic Waste Program (DTWP) activities managed by the Joint Integration Office-Rockwell International. The membership of the IRC for the coming year includes representatives with experience in nuclear engineering, nuclear waste transportation, industrial quality control, systems and environmental engineering and state and local government interface issues.

Scope

The scope of IRC activities includes objective overall review of JIO/RI sponsored planned, projects and activities, including a technical review of particular research and development tasks and projects. The IRC makes specific suggestions and recommendations based upon expertise in the field of TRU waste management. The Committee operates as a consulting group to Rockwell International, governed by a charter identifying its responsibilities and ensuring its objective status.

Tasks

The IRC will meet approximately once a quarter in committee to review program activities. The Committee will assign individual members to act as review leaders in specific technical areas and areas of specific member expertise, e.g. transportation, waste certification, and quality control. As appropriate, individual members will be requested to review documents or participate in review activities specific to their individual expertise.

Milestones

1. Complete Quarterly Meeting and Review.....12/85
2. Complete Annual Report for Previous Year.....01/86
3. Complete Quarterly Meeting and Review.....03/86
4. Complete Quarterly Meeting and Review.....07/86
5. Complete Quarterly Meeting and Review.....09/86

APPENDIX E

CURRENT YEAR WORK PLAN

INTERFACE SUPPORT

INTERFACE SUPPORT

Purpose and Scope

Since September 1983, the WIPP Project Office (WPO) and the Joint Integration Office (JIO) have participated in formal interface control management. The interface organization includes the Interface Control Board (ICB), comprized of DOE representatives from the WPO and the JIO with policy and decision-making responsibility, and a series of Interface Working Groups (IWG's). The IWG's are formed of technical support persons with expertise to focus on specific technical interface issues and problems. The Interface Management Charter established four standing IWG's and provided that additional IWG's could be created to address issues as they arise and to recommend actions to the ICB. Once these special IWG's completed their work they would be dissolved by the ICB.

During the last year, interface activities between the WPO and the JIO have increased as the DTWP moves closer to implementing many of the waste management technologies which have been under development. The ICB, meeting each month, has created IWG's addressing TRU waste packaging, barcoding, NDE/NDA, RH waste characteristics besides assigning issues to Operations and Transportation Planning, and the RH Canister. Because, in part, of the successful record of interface management over the past year, interface activities are expected to be even more active in the coming year. In addition, increased cooperation between the WPO and the JIO is expected to continue.

The current task will support expedient formation of IWG's as interface issues arise as well as the timely response of IWG's to issues assigned by the ICB. Since members of the IWG's are contractors with other responsibilities for other projects, this task will support their temporary reassignment to IWG activities. The support will be allocated to individual IWG activity on an "as needed" basis.

Deliverables

1. Individual IWG Reports to the ICB.
2. Semi-Annual Reports of ICB and IWG Activities.

Milestones

1. Complete first Semi-Annual Report.....03/86
2. Complete second Semi-Annual Report.....09/86

APPENDIX F

SCHEDULES FOR
LONG RANGE MASTER PLAN

LONG RANGE---MASTER PLAN

SCHEDULED UPDATE AND REVISION 8/16/85

END

**DATE
FILMED**

11/12/91

1