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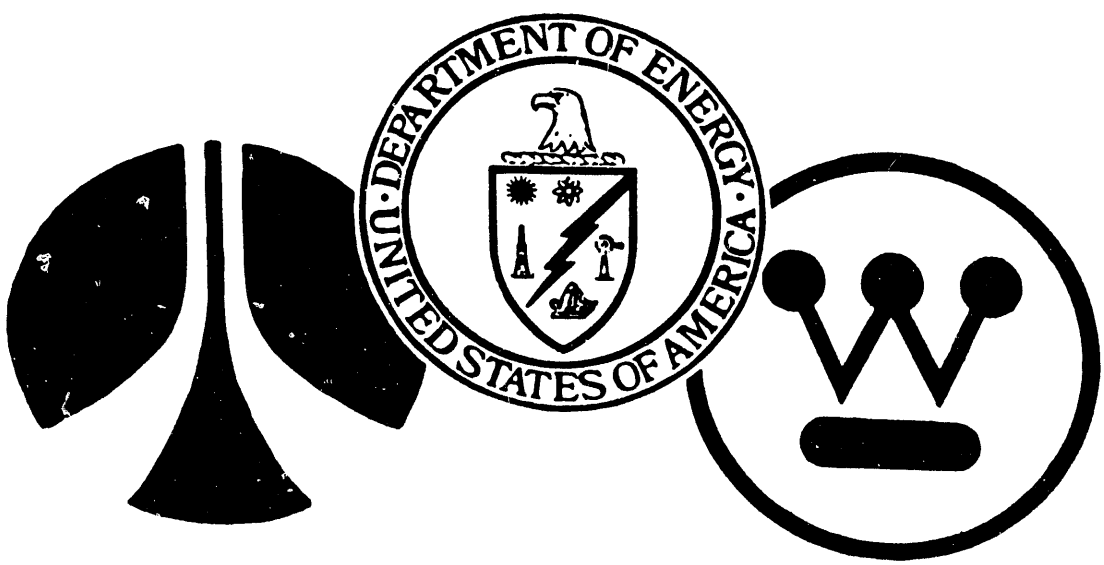
DOE-JIO 001

TLO-WPO

INTERFACE MANAGEMENT

SEMI-ANNUAL REPORT



DEPARTMENT OF ENERGY

ROCKWELL INTERNATIONAL

WESTINGHOUSE

JOINT INTEGRATION OFFICE

ALBUQUERQUE, N.M.

DEFENSE TRANSURANIC

WASTE PROGRAM

MAY 1985

DISCLAIMER

DOE/JIO--001

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TRU WASTE LEAD ORGANIZATION -- WIPP PROJECT OFFICE INTERFACE MANAGEMENT SEMI-ANNUAL REPORT

J. V. Guerrero, J. M. Gorton

Joint Integration Office
Rockwell International
Albuquerque, New Mexico

May 1985
Joint Integration Office

CONTENTS

TRU Waste Lead Organization-WIPP Project Office

Interface Control Board

Semi-Annual Report

INTRODUCTION

The Charter establishing the Interface Control Board and the administrative organization to manage the interface of the TRU Waste Lead Organization and the WIPP Project Office also requires preparation of a summary report describing "significant interface activities". This report includes a discussion of Interface Working Group (IWG) "recommendations and resolutions considered and implemented" over the reporting period October 1984 to March 1985.

SUMMARY OF ICB ACTIVITIES

Interface Control Board. The membership of the ICB is comprised of the TRU Program Manager (DOE/AL/WMTDD) and the WIPP Operations Branch Chief (DOE/AL/WPO). The TRU Program Manager chairs the ICB. One representative from the WIPP Technical Support Contractor (Westinghouse) and two respresentatives from the Joint Integration Office (one Rockwell and one Westinghouse) are non-voting members of the ICB. Each of the four members has designated an alternate from within their organization.

The membership of the ICB is:

M. H. McFadden, TRU Program Manager, ICB Chairman

A. E. Hunt, WIPP/DOE, Operations & Technology Development Branch Chief

V. F. Likar, WIPP Technical Support Contractor, Westinghouse

K. B. McKinley, Joint Integration Office/Rockwell International

E. G. Hess, Joint Integration Office/Westinghouse

Alternate Members are:

D. M. Lund, DOE/AL/WMTDD

T. D. Stroud, DOE/WIPP

J. W. Sadler, WIPP Technical Support Contractor, Westinghouse

J. V. Guerrero, Joint Integration Office/Rockwell International

Current Activities. The purpose of the Interface Management organization provides a system for exchange of information, establishing baselines to control program changes, and providing for cooperation in decisions affecting both the TRU Waste Lead Organization (TLO) and the WIPP Project Office (WPO).

Change control issues are raised and discussed by representatives of both the TLO and WPO at the Interface Control Board (ICB) meetings. The ICB identifies issues requiring technical coordination and further consideration of the system impacts resulting from these changes. The ICB appoints Interface Working Groups (IWG's), as required, to technically address issues and provide recommendations for change control.

The major interface issues raised by the ICB over the past six months have included:

- o WIPP-WAC Changes
- o Neutron Dose Limit
- o Gas Generation
- o PE-Curie Limit
- o Mobile NDA-NDE
- o Package Testing
- o Barcoding
- o RH Characterization

INTERFACE WORKING GROUPS

The Interface Control Board establishes and provides guidance to the IWG's. A summary of the current membership and activities of the IWG's includes:

Barcoding IWG

Membership:
B. Chiquelin, WIPP/TSC (Chairman)
J. Warren, LANL
R. Blauvelt, Mound
M. Neal, JIO/RI
T. Rhyne, ORNL

Activities
Letters were sent to the IWG members transmitting a guidance memo and charter. Bill Chiquelin, Chairman, proposes their first meeting be held mid-May.

Non-Destructive Assay/Non-Destructive Examination IWG

Membership:
T. H. Nielsen, JIO/RI (Chairman)
J. Caldwell, LANL
T. Halverson, TSC, Westinghouse

Activities
Work is continuing on the report addressing technical and operational impacts of using a mobile NDA/NDE system at waste storage and shipping sites and WIPP.

ICB Actions
The ICB is awaiting issuance of the final report before it provides review and comment.

Operations and Transportation Planning IWG

Membership:
J. A. Detamore, JIO/RI (Co-chairman)
J. E. Johnson, Westinghouse/WIPP (Co-chairman)
D. M. Krieg, RFP, Rockwell International

Activities
Under the direction of the ICB, the IWG is continuing to revise the analysis for the waste workoff duration incorporating new data now available on the workoff rates.

ICB Actions
Based on the preliminary report, the ICB recommended the 25 year waste work-off duration be incorporated in the TRU Waste Program Long Range Plan. The ICB is awaiting the final report of the analysis.

RH Canister IWG

Membership:
G. A. Beitel, RHO (Chairman)
G. D. Pierce, JIO/RI
J. E. Stumbaugh, Westinghouse/WIPP
J. D. Hurley, JIO/W

Activities
The RH Canister baseline has been submitted to the ICB.

ICB Actions
The ICB reviewed and approved the RH Canister baseline.

RH Transportation Package IWG

Membership:
J. D. Hurley, JIO/Westinghouse (Chairman)
W. D. Box, ORNL
F. E. Harrington, ORNL
M. M. Warrant, SNLA
J. E. Stumbaugh, Westinghouse/WIPP

Activities
In March the IWG met to complete revisions of the Interface Control Baseline as requested by the ICB. Also in response to the ICB, the IWG is assessing the technical feasibility of expanding and modifying the present RH transportation system to ship certified TRU wastes in 30 and 55 gallon drums in the existing COC cask. The IWG is also working to revise the interface control baseline and to develop information on high-neutron wastes.

ICB Actions
The ICB invited the IWG chairman to the March meeting to report on their activities.

RH TRU Waste Characteristics IWG

Membership:
- M. M. Warrant, SNLA (Chairman)
- D. A. Peterson, EG&G Idaho
- H. M. Batchelder, Westinghouse/WIPP
- G. D. Pierce, JIO/RI

Activities

In compliance to a request from the ICB for a status report on RH TRU waste characteristics, the IWG generated data first hand by visiting ORNL, LANL, and RHO during March. G. D. Pierce was selected as the replacement for R. Richardella.

ICB Actions

To develop the RH TRU waste characteristics report, the IWG members and the ICB chairperson have visited ORNL, LANL and RHO. The ICB is currently waiting to receive the final report on RH Waste Characteristics from information generated from the visits to ORNL, LANL and RHO.

TRUPACT-I IWG

Membership:
- L. E. Romesberg, SNLA (Chairman)
- J. D. Hurley, JIO/Westinghouse
- J. G. Ortiz, Westinghouse, WIPP

Activities

The IWG is developing a baseline.

ICB Actions

The ICB has approved a revised deadline of May 30, 1985, for the completion of a current baseline.

TRU Waste Packaging IWG

Membership:
- R. Roberts, RHO (Chairman)
- J. Johnson, TSC, Westinghouse
- T. Nielsen, JIO/RI
- D. Edling, Mound

Activities

Letters were sent to the IWG members with a guidance memo and charter. Randy Roberts held the first meeting of the IWG on April 25, 1985. Concern that overtesting may take place was discussed. The guideline was established that any package that met the Type A requirements was sufficient and no further testing would be required.

FUTURE ACTIVITIES

Future activies will consist of monthly meetings of the ICB to identify and address interface issues as they occur.

APPENDIX A

Barcoding Guidance Memorandum

Issued: 5/8/85

Guidance Memorandum

Interface Working Group

TRU Waste Barcoding

Purpose. This guidance memorandum which adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment) outlines task guidance and membership for the TRU Waste Barcoding Interface Working Group (IWG). The ICB establishes this IWG to address the current task and will determine if the IWG will continue once the task is completed.

IWG Issues. The ICB directs the IWG to assess the status of barcoding activity at the WIPP and at the TRU waste generation and storage sites. Once this is accomplished the IWB will evaluate the benefits and costs of establishing a standardized barcoding system for transuranic wastes. In compiling this information, the IWG will consider the requirements of both the WIPP and the sites. When the analysis is complete, the IWG will provide the ICB with a report recommending an interface baseline for barcoding activities and a proposal for coordinating barcoding activities with system-wide issues.

IWG Membership. The IWG membership will be comprised of W. Chiquelin, WIPP/TSC; J. Warren, LANL; R. Blauvelt, MF; M. Neal, Chairman JIO/RI;

IWG Communication. The communication and reporting requirements identified in the Interface Management Charter will be followed during IWG activities. In addition, the IWG should provide a written final report to the Interface Control by (June 30, 1985). The IWG chairman will appear before the first ICB meeting following completion of the task to report on the IWG's recommendations and respond to questions from the ICB.

APPENDIX B

NDA/NDE Guidance Memorandum

Issued: 10/9/84

GUIDANCE MEMORANDUM

INTERFACE WORKING GROUP

NDA/NDE

Purpose. This Guidance Memorandum adheres to requirements established in the TLC-WPC Interface Management Charter (see attachment). The purpose of this memorandum is to establish the IWM membership and initiate the first task.

Interface Issues. The IWG is requested to prepare a technical and operational description of the potential impacts of using alternative NDA/NDE systems (including a mobile system). The primary issues are (1) technical consistency with NDA/NDE systems at shipping and receiving sites, and (2) whether WIPP NDA/NDE schedules and frequency would permit a single mobile system to serve both small shipping sites and the WIPP.

With regard to the first issue, the IWG should concentrate its evaluation on defining what quantitative information such systems could provide to DOE for decision making on waste management issues. The IWG should not attempt to resolve policy issues. The IWG evaluation should quantify discussions of accuracy, uncertainly, reproducibility, and confidence levels. In addition, the discussion should review the feasibility of standardization with waste shipping site NDA/NDE systems.

With regard to the second issue, the IWG should determine whether an assay system would be required at the WIPP on a full time basis, or whether it would be available a fraction of the time for use at small shipping sites.

IWG Membership. The membership for this IWG will include J. Caldwell, LANL; T. Nielsen, TWSO (chairperson); and T. Halverson, Westinghouse.

IWG Communication. The communication and reporting requirements identified in the Charter will be followed during IWG activities. In addition, the IWG will provide a written response to the ICB about the issues or problems identified in this Interface Guidance Memorandum. This response will include possible alternatives for resolving these issues or problems with a preferred alternative and, if necessary, any supporting information or discussion necessary to explain or document the recommendations. Copies of the report will be provided to all members of the ICB and to any further distribution identified by the ICB. Please submit a report on this task to the ICB by November 30, 1984.

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APPENDIX C

O & T Planning Guidance Memorandum

Issued: 3/20/84

GUIDANCE MEMORANDUM

INTERFACE WORKING GROUP

Operations and Transportation Planning

Purpose. This guidance memo adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment). The purpose of this memo is to outline the boundary for Interface Working Group (IWG) activities and to establish the IWG membership.

Interface Boundary. The boundary for the IWG on Operations and Transportation Planning includes activities requiring coordination of WIPP startup and operating schedules with activities and schedules for transporting defense TRU wastes from the storage and generating sites to the WIPP. In addition, the boundary extends to the following activities:

- o Coordination of traffic management participation in planning for transporting TRU wastes to the WIPP.
- o Coordination of plans for dispatching, maintenance and inspecting waste transportation systems shipping TRU wastes to the WIPP.
- o Identification and coordination of potential routes available to ship TRU wastes from storage and generating sites to the WIPP.
- o Coordination of the technical requirements for loading/unloading the transportation systems shipping TRU wastes to the WIPP.
- o Identification and coordination of the extent and impacts of the involvement of the State of New Mexico on transporting TRU wastes to the WIPP.
- o Identification and coordination of the operational restraints or potential restraints on waste packages to be shipped to the WIPP.
- o Identification and coordination of the transportation restraints or potential restraints on waste packages to be shipped to the WIPP.
- o Identification and coordination of modifications to the waste throughout rates at the WIPP.

Baseline Requirements. The first activity of each IWG is to identify and define the specific and existing interface features within the boundary established by this memorandum. This should be accomplished through meetings or conference calls at the earliest convenience of the members. These features would include appropriate and applicable parts of the current design or design criteria; they may also be agreed upon limits,

procedures and methods associated with TRU waste management activities which affect either TLO or WPO.

The features will be submitted to the ICB for approval by April 13, 1984 and will become the baseline for that particular interface area of coordination. Once the baseline is established and approved, any conceptualized change which affects any of the defined features either directly or indirectly must be approved by the ICB before any actions are taken affecting the baseline. The ICB may request analyses and further information to determine the technical impacts and tradeoffs of either implementing the change or not implementing the change. If requested, this data will be compiled by tje IWG into a letter report and transmitted to the ICB.

IWG Mode of Operation. An interface issue requiring IWG review may be either assigned by the ICB, or may be identified by a member of the IWG and brought to the attention of the appropriate organization within the ICB. In general, the IWG is responsible for maintaining the stability of the baseline and for identifying any significant issues which may require changes to the baseline. The IWG will report on the status of the baseline at least once at the end of each FY quarter. In addition, any relevant documents used in developing recommendations for resolving interface issues will be made available to the ICB upon request.

IWG Membership. The membership of this IWG includes:

- o J. A. Detamore, TWSO, Co-Chairman
- o D. M. Krieg, RI/RFP
- o J. E. Johnson, Westinghouse/WIPP, Co-Chairman

The designated chairmen are responsible for joint coordination of the IWG activities including: scheduling meetings, receiving and coordinating correspondence incoming to the IWG, and coordinating and sending documentation originating from the IWG. The chairmanship of the IWG will be reviewed annually.

IWG Communication. The communication and reporting requirements identified in the TLO-WPO Interface Management Charter will be followed during IWG activities. In addition, the IWG will provide a written response to the ICB identifing issues or problems. This response will include alternatives for resolving the issues or problems, with a preferred alternative identified and, if necessary, supporting information or discussion necessary to explain or document recommendations. Copies of the report will be provided to all members of the ICB and to any further distribution identified by the ICB.

Communication within the IWG on interface issues will be in addition to the established lines of communication within each of the organizations comprising the ICB, the TRU Waste Lead Organization (TLO) and the WIPP Project Office (WPO). An interface issue identified or recommendations for resolving an issue by the IWG member should be coordinated within the IWG and then raised to the organization responsible for that activity within the ICB.

Issued: 4/9/84

ADDENDUM I

GUIDANCE MEMORANDUM

OPERATIONS AND TRANSPORTATION PLANNING INTERFACE WORKING GROUP

Topic: Inventory Workoff Duration

Purpose - This guidance memorandum describes requirements for a review of alternatives to the nominal 18-year inventory workoff period established as a planning basis in the Long-Range Master Plan for Defense Transuranic Waste. This memorandum adheres to Interface Working Group (IWG) and other requirements established in the TLO-WPO Interface Management Charter, and in the original Operations and Transportation Planning IWG Guidance Memorandum dated March 20, 1984.

Interface Issue - There appear to be competing goals in desires to: (a) minimize and levelize program costs over the period 1984 - 2015; and, (b) desires to demonstrate high WIPP emplacement rates and work off stored TRU inventories rapidly. A policy decision on the inventory workoff period will certainly affect stored inventory retrieval, sorting, processing, and certification rates; transportation requirements; and WIPP emplacement rates. It could affect facility and equipment requirements, as well as operating schedules. It could affect both near-term and long-range costs for individual sites/programs, and for defense TRU waste management as a whole. It could affect the fulfillment of commitments to parties outside of DOE.

The IWG is thus requested to:

1. Assess the extent and nature of the issue, and in this process establish a baseline defining what schedule, performance, and future cost impacts are relevant to the decision.

2. Identify alternate workoff periods on which to focus a comparative analysis (e.g., 12-year, 18-year, 25-year), including at least one which demonstrates a full one-shift capacity WIPP emplacement rate and one which minimizes transportation fleet size.

3. Identify appropriate assumptions or ranges of assumptions on which to base the analysis (e.g., rail/truck transportation mode mix).

4. Collectively identify TLO and WPO responsibilities for the identification and assessment of impacts in the parts of the system under development by TLO and WPO, respectively.

5. Reach agreement that the impacts and tradeoffs identified by WPO and TLO separately are correct and comprehensive when seen from a system-wide perspective.

6. Prepare a report to the Interface Control Board, describing the alternatives reviewed, the assumptions made, the impacts and tradeoffs identified, and a recommended inventory workoff period for future planning.

A final report is due no later than May 31, 1984.

APPENDIX D

RH Canister Guidance Memorandum and Baseline

Issued: 3/12/84

GUIDANCE MEMORANDUM

INTERFACE WORKING GROUP

RH Canister

Purpose. This guidance memo adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment). The purpose of this memo is to outline the boundary for Interface Working Group (IWG) activities and to establish the IWG membership.

Interface Boundary. The boundary for the IWG on the RH Canister includes interface activities concerning the development of compatible and consistent waste packaging for acceptance to the WIPP. In addition, the boundary extends to the following activities:

- Identification and coordination of the RH Canister handling characteristics, especially the compatibility of the TRU waste packaging with WIPP handling capacity.
- Identification and coordination of any changes to the physical characteristics of the RH Canister.

Baseline Requirements. The first activity of each IWG is to identify and define the specific and existing interface features within the boundary established by this memorandum. This should be accomplished through meetings or conference calls at the earliest convenience of the members. These features would include either appropriate and applicable parts of the current design or design criteria; they may also be agreed upon limits, procedures or methods associated with TRU waste management activities which affect either TLO or WPO.

The features will be submitted to the ICB for approval by April 13, 1984 and will become the baseline for that particular interface area of coordination. Once the baseline is established and approved, any conceptualized change which affects any of the defined features directly or indirectly must be approved by the ICB before taking any actions. The ICB may request analyses and further information to determine the technical impacts and tradeoffs of either implementing the change or not implementing the change. If requested, this data will be compiled by the IWG into a letter report and transmitted to the ICB.

IWG Mode of Operation. An interface issue requiring IWG review may be either assigned by the ICB, or may be identified by a member of the IWG and brought to the attention of the appropriate organization within the ICB. In general, the IWG is responsible for maintaining the stability of the baseline and for identifying any significant issues which may require

RH Canister Interface Working Group (IWG)

D. E. Ball, IWG Chairman, Rockwell Hanford Operations, Richland, WA
J. D. Hurley, Joint Integration Office/Westinghouse, Albuquerque, NM
Z. W. Stachon, Bechtel National, Inc., San Francisco, CA
J. E. Stumbaugh, TSC, Westinghouse, Carlsbad, NM

Canister Restrictions Report. It is important that the RH TRU waste canister restrictions task report be completed and submitted to the ICB. If further delay is anticipated in completing this task, the IWG is requested to contact the ICB to discuss the delay.

RH Canister Baseline. Essentially, a baseline is the established starting point for coordination and interface activity. This is the point of planning or activity where any new impacts of proposed changes must be considered by the IWG and the ICB. It should be helpful to consider the major issues before the IWG and to define the baseline initially for these issues first.

Because of the problem of monitoring too much information and the fact that controlling too many details is counterproductive, the complete RH canister design and manuals are not suitable for the interface control baseline. Not everything in the RH canister design needs interface control, and to require ICB review and approval of any change in the design is unnecessarily cumbersome.

An example of a characteristic of the canister suitable for baselining, the canister pintle should be baselined and, once this is done, the design is not changed without ICB concurrence. The impacts of any proposed change then would be assessed on the grappling hook interface before the canister baseline would be changed.

The revision of your baseline, concentrate on those interface features that need to be monitored and baselined. If a portion of the baseline is best described by reference to existing documents, use a special symbol in the document for that feature; do not reference the entire document. Please submit a revised baseline description to the ICB by October 31, 1984.

Issued: 3/27/84

Addendum I

GUIDANCE MEMORANDUM

RH Canister Interface Working Group

Topic: Canister Restrictions

Purpose: This guidance memorandum describes requirements for a review of restrictions of the RH TRU waste canister. This memorandum adheres to Interface Working Group (IWG) and other requirements established in the TLO-WPO Interface Management Charter, and in the original RH Canister IWG Guidance Memorandum (March 12, 1984).

Interface Issue: DOE Headquarters has asked the TLO to review the established RH canister baseline and consider using a 24-inch diameter canister, restricted waste form (no combustibles), and restricted weight (5200 pounds) in light of the need for shipping cask modifications. A decision on these characteristics will affect shipping cask cost, and would appear to affect the number of canisters and shipments required. It could affect shipping site and WIPP facilities. It also could affect personnel exposure. A decision to change any characteristics could also affect canister development schedules.

The IWG is thus requested to:

1. Assess the extent and nature of the issue, and in this process establish a baseline defining the schedule, performance, and future cost impacts that are relevant to the decision.

2. Identify appropriate assumptions or ranges of assumptions on which to base the analysis (e. g., transportation mode, volume of RH waste to be shipped to WIPP, etc.)

3. Collectively identify TLO and WPO responsibilities for the identification and assessment of impacts in the parts of the system under development by TLO and WPO, respectively.

4. Reach agreement that the impacts and tradeoffs identified by WPO and TLO separately are correct and comprehensive when seen from a system-wide perspective.

5. Prepare a report to the Interface Control Board describing the alternatives reviewed, the assumptions made, the impacts and tradeoffs identified, and recommended RH canister characteristics.

The final report is due no later than May 31, 1984.

IWG Membership: In addition to the membership identified earlier (J. D. Hurley, G. A. Beitel, J. E. Stumbaugh, and Z. W. Stachon), the IWG membership for this task will also include B. W. Howes, PNL, and F. E. Harrington, ORNL.

REMOTE-HANDLED TRANSURANIC WASTE CANISTER BASELINE

Recommended by the

RH CANISTER INTERFACE WORKING GROUP

George A. Beitel, Chairman

March 15, 1985

Prepared for the

Defense Transuranic Waste Program

REMOTE-HANDLED TRANSURANIC WASTE

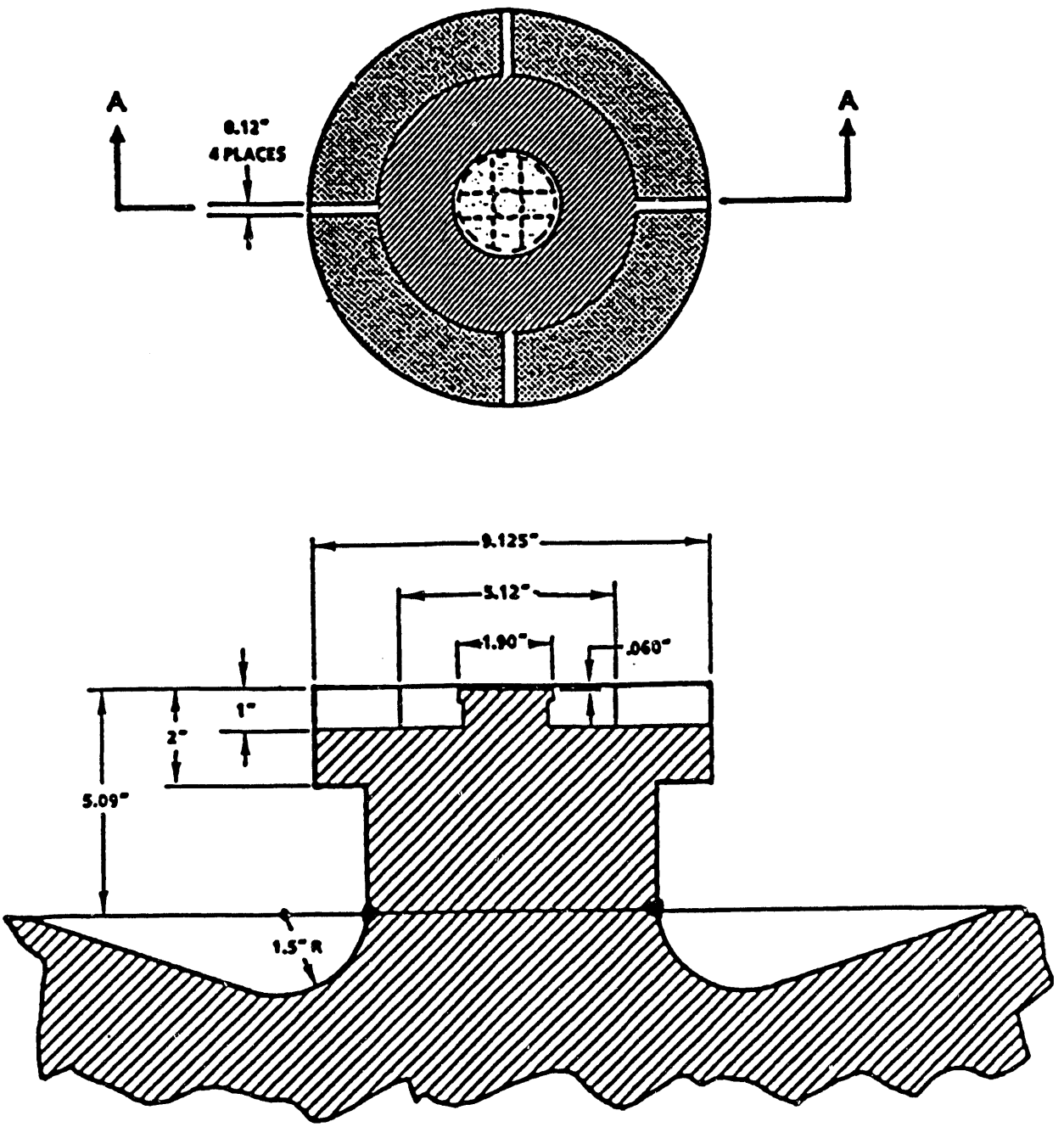
Canister Baseline

A Type A container was designed by Rockwell Hanford Operations for use in packaging remote handled (RH) Transuranic (TRU) waste for disposal in the Waste Isolation Pilot Plant (WIPP). The container is known alternately as the RH-TRU Waste Container, the RH-TRU Canister or the RH-TRU Waste Canister. The canister is described in detail in Rockwell Hanford Operations Document RHO-RE-MA-7, "User's Manual for Remote Handled Transuranic Waste Container" and the design drawings are controlled by Rockwell Hanford Operations Drawing No. H-2-91273.

This document establishes a baseline for the canister for the purpose of providing a stable interface for other interacting facilities or mechanisms such as the transport cask or the handling grapple. Since one of the most complex design features of the canister is the pintle, a sketch of the pintle is included in the baseline. Any change to the design of the canister which alters any of the herein described baseline parameters requires prior approval from the Defense Transuranic Waste Program Interface Control Board.

REMOTE HANDLED TRANSURANIC WASTE CANISTER BASELINE

Canister Features	Dimensions and Requirements
Shape	Right circular cylinder
Length	$121.0^{+0}_{-0.5}$ inches
Straightness in full length	0.125 inches
Smoothness of external surface	No protrusions except weld beads
Outside diameter (body of canister)	26 inches nominal
	26.5 inches maximum, including all tolerances
Outside diameter (crush rings)	25.6 inches maximum
Internal dimension	Adequate to accept three stacked 55-0 gallon drums with bolted closure rings
Maximum weld build-up	0.125 inches
External ends	Beveled 45± 5 degrees
Maximum gross weight	8,000 pounds
Material	Body - ASTM A516 Crush Rings - ASTM A36
Container type	Carbon composite, HEPA filter that maintains flow and filtration while wet
Top crush rings	24 inches inside diameter, (no obstructions between ring inside surface and pintle)
Pintle	
Outside diameter	9.125 inches
Flange thickness	2.00 inches
Neck: diameter	6.62 inches
height	3.5 inches
Top surface	Flat
Features	See attached sketch
Identification number	2 inch raised or indented characters on top closure (lid) and on the outside surface of the upper crush rings



SECTION A - A

RH-TRU WASTE CANISTER PINTLE

APPENDIX E

RH Characterization Guidance Memorandum

Issued: 11/26/84

GUIDANCE MEMORANDUM/INTERFACE WORKING GROUP

RH WASTE CHARACTERISTICS

Purpose. This guidance memorandum adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment). The purpose of this memorandum is to establish the IWG membership and initiate the first task. Upon completion of the assigned task and report, the ICB will determine it the IWG will continue to examine additional issues or whether it will be discontinued.

Interface Issues. The IWG is requested to prepare a comprehensive report on stored and projected newly-generated RH TRU waste characteristics. These data are required to support:

- o A basis for RH transportation package system selection.
- o The preparation of an RH transportation system SARP.
- o Verification of the source of RH waste identified by TWSO for the WIPP RH storage demonstration.
- o To support additional WIPP-related studies.

Analysis and conclusions are not required in this characterization task. The IWG's emphasis should be on expanding the Program's data base and verifying that existing data are complete. As the IWG defines specific needs for data, it should review previous compilations (including the DOE Integrated Data Base, the PNL SC/RH waste tradeoffs task report, Inventory Workoff Plans, RFP 3680, "Remote Handled/Special Case TRU Waste Characterization Summary," and TWSO-SNL correspondence).

The DOE Integrated Data Base (DOE/NE-0017/3) is the official DOE report on waste volumes, and the IWG should maintain consistency with the latest data in this report. If the IWG believes it relevant to include data on projected RH TRU wastes not yet included in the Integrated Data Base, it should take care to identify characteristics of such waste separate from the characteristics of waste now included in the IDB.

IWG Membership. The membership for this IWG will include T. Clements, EG&G, Idaho; Hank Batchelder, TSC, Westinghouse; R. Richardella, TWSO, Rockwell International; and M. Warrant, SNLA/TTC (chairperson).

IWG Communication. The communication and reporting requirements identified in the Interface Management Charter will be followed during IWG activities. In addition, the IWG should provide a written final report to the Interface Control Board no later than January 1985. The IWG report should include as much unclassified data as possible on the origins and history of these wastes. It should carefully distinguish between characteristics of the waste itself and characteristics of packaged (possibly shielded) waste, and present both. Copies of the report will be provided to all members of the ICB and to any further distribution identified by the ICB.

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APPENDIX F

RH Transportation Packaging Guidance Memorandum

Issued: 3/12/84

GUIDANCE MEMORANDUM

INTERFACE WORKING GROUP

RH Waste Transportation Package

Purpose. This guidance memo adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment). The purpose of this memo is to outline the boundary for Interface Working Group (IWG) activities and to establish the IWG membership.

Interface Boundary. The boundary for the IWG on the RH Waste Transportation Package involves interface activities concerning the development of compatible and consistent waste transportation packages for acceptance at the WIPP. In addition, the boundary extends to the following activities:

- o Identification and coordination of the RH Waste Transporation Package handling characteristics, especially the compatibility of the TRU waste packaging with WIPP handling capacity.
- o Identification and coordination of any changes to the physical characteristics of the RH Waste Transportation Package.

Baseline Requirements. The first activity of each IWG is to identify and define the specific and existing interface features within the boundary established by this memorandum. This should be accomplished through meetings or conference calls at the earliest convenience of the members. These features would include appropriate and applicable parts of either the current design or design criteria; they may also be agreed upon limits, procedures or methods associated with TRU waste management activities which affect either TLO or WPO.

The features will be submitted to the ICB for approval by April 13, 1984 and will become the baseline for that particular interface area of coordination. Once the baseline is established and approved, any conceptualized change which affects any of the defined features directly or indirectly must be approved by the ICB before taking any actions. The ICB may request analyses and further information to determine the technical impacts and tradeoffs of either implementing the change or not implementing the change. If requested, this data will be compiled by the IWG into a letter report and transmitted to the ICB.

IWG Mode of Operation. An interface issue requiring IWG review may be either assigned by the ICB, or may be identified by a member of the IWG and brought to the attention of the appropriate organization within the ICB. In general, the IWG is responsible for maintaining the stability of the

baseline and for identifying any significant issues which may require changes to the baseline. The IWG will report on the status of the baseline at least once at the end of each FY quarter. In addition, any relevant documents used in developing recommendations for resolving interface issues will be made available to the ICB upon request.

IWG Membership. The membership of this IWG include:

- o J. D. Hurley, JIO/W, Chairman
- o J. E. Stumbaugh, Westinghouse/WIPP
- o Z. W. Stachon, Bechtel/WIPP

The designated chairman is responsible for coordination of the IWG activities including: scheduling meetings, receiving and coordinating correspondence incoming to the IWG, and coordinating and sending documentation originating from the IWG.

IWG Communication. The communication and reporting requirements identified in the TLO-WPO Interface Management Charter will be followed during IWG activities. In addition, the IWG will provide a written response to the ICB identifing issues or problems. This response will include alternatives for resolving the issues or problems, with a preferred alternative identified and, if necessary, supporting information or discussion necessary to explain or document recommendations. Copies of the report will be provided to all members of the ICB and to any further distribution identified by the ICB.

Communication within the IWG on interface issues will be in addition to the established lines of communication with each of the organizations comprising the ICB, the TRU Waste Lead Organization (TLO) and the WIPP Project Office (WPO). An interface issue identified or recommendations for resolving an issue by the IWG member should be coordinated within the IWG and then raised to the organization responsible for that activity within the ICB.

Issued: 8/7/84

Addendum I

GUIDANCE MEMORANDUM

RH Waste Transportation Package Interface Working Group

Topic: Transportation Package Development Strategy

Purpose: This guidance memorandum describes requirements for preparation of a strategy for development of the RH TRU transportation package. This memorandum adheres to Interface Working Group (IWG) and other requirements established in the TLO-WPO Interface Management Charter, and in the original RH Waste Transportation Package IWG Guidance Memorandum (March 12, 1984).

Interface Issue: Consider three alternatives: (1) use the existing DHLW cask for shipping all RH TRU to WIPP (This would limit the RH waste form and the canister size); (2) use the existing DHLW cask for shipping ten canisters of waste to be used in the RH demonstration, but modify a cask for routine shipments to WIPP beginning in 1994 (Cask modifications would add cost; this could also require mid-stream changes to handling and emplacement procedures/equipment.); and (3) use a modified cask for all shipments (Cask modification schedules may be difficult to meet.). The tradeoffs need to be better understood, and an RH waste transportation package development strategy is needed to provide direction for FY85 work.

The IWG is thus requested to:

1. Review:
   (a) conclusions available from the PNL SC/RH strategy tradeoffs task on volumes of RH waste likely to be shipped to WIPP,
   (b) the 1/84 EG&G report "Evaluation of Alternatives for a Second-Generation Transportation System for Department of Energy Transuranic Waste,"
   (c) conclusions available from TWSO on strategies and schedules for shipment of RH TRU waste to WIPP, and
   (d) conclusions from the RH Canister IWG analysis of canister restrictions.

2. Assess the extent and nature of the issue, and in this process establish a baseline defining the schedule, performance, and future cost impacts that are relevant to the decision.

3. Identify alternative RH transportation package development and operation strategies.

4. Collectively identify TLO and WPO responsibilities for the identification and assessment of impacts in the parts of the system under development by TLO ad WPO, respectively.

5. Reach agreement that the impacts and tradeoffs identified by WPO and TLO separately are correct and comprehensive when seen from a system-wide perspective.

6. Agree on a recommended DOE development strategy (beginning in FY85) for the RH TRU transportation package.

7. Prepare a report to the Interface Control Board describing the alternatives reviewed, the assumptions made, the impacts and tradeoffs identified (including life cycle cost for each alternative), and the recommended RH transportation package development strategy. The final report is due no later than August 31, 1984.

IWG Membership: In addition to the membership identified earlier (W. D. Box, J. D. Hurley, Z. W. Stachon, J. E. Stumbaugh, M. M. Warrant, Sandia National Laboratories, Albuquerque, NM), the IWG membership for this task will also include B. W. Howes, PNL, and N. Anderson, RHO.

Issued: 11/21/84

Addendum II

Guidance Memorandum

RH Transportation Package Interface Working Group

The IWG is requested to identify and assess the technical issues and technical feasibility of expanding or modifying the present RH transportation system to ship certified RH TRU wastes in 30 and 55 gallon drums to the WIPP in the existing COC cask for the RH storage demonstration beginning in 1/89 and for routine emplacement beginning in 1/94.

In addition, the IWG will identify and assess the technical issues and feasibility of loading and final certification of the RH canisters at the WIPP site for emplacement in the WIPP either during the RH TRU waste storage demonstration or during routinue emplacement of RH TRU wastes. This assessment will be made in the context of existing or modified operations of the WIPP.

The IWG will consider the qualification and availability of the commercial cask currently being used for shipping drums of RH TRU wastes, or other potential commercially available casks which are or could be qualified for these shipments. However, the IWG will not attempt to assess the institutional or administrative issues associated with loading RH canisters at the WIPP site.

The IWG will also develop ROM estimates comparing the costs of development, transportation, fabrication and support facilities of the current RH transportation planning to the RH waste transportation and packaging alternative examined in this task.

The IWG will compile a report of its findings, documenting it recommendations with supporting information, and provide the report to the ICB by February 1985.

APPENDIX G

TRUPACT-I Guidance Memorandum

Issued: 3/12/84

GUIDANCE MEMORANDUM

INTERFACE WORKING GROUP

TRUPACT

Purpose. This guidance memo adheres to requirements established in the TLO-WPO Interface Management Charter (See Attachment). The purpose of this memo is to outline the boundary for Interface Working Group (IWG) activities and to establish the IWG membership.

Interface Boundary. The boundary for the IWG on TRUPACT involves interface activities affecting the development of compatible and consistent waste transportation packages for acceptance at the WIPP. In addition, the boundary extends to the following activities:

- Identification and coordination of TRUPACT handling characteristics, especially the compatibility of TRU waste packaging with WIPP handling capacity.
- Identification and coordination of any changes to the physical characteristics of the TRUPACT.

Baseline Requirements. The first activity of each IWG is to identify and define the specific and existing interface features within the boundary established by this memorandum. This should be accomplished through meetings or conference calls at the earliest convenience of the members. These features would include appropriate and applicable parts of either the current design or design criteria; they may also be agreed upon limits, procedures and methods associated with TRU waste management activities which affect either TLO or WPO.

The features will be submitted to the ICB for approval by April 13, 1984 and will become the baseline for that particular interface area of coordination. Once the baseline is established and approved, any conceptualized change which affects any of the defined features directly or indirectly must be approved by the ICB before taking any actions. The ICB may request analyses and further information to determine the technical impacts and tradeoffs of either implementing the change or not implementing the change. If requested, this data will be compiled by the IWG into a letter report and transmitted to the ICB.

IWG Mode of Operation. An interface issue requiring IWG review may be either assigned by the ICB, or may be identified by a member of the IWG and brought to the attention of the appropriate organization within the ICB. In general, the IWG is responsible for maintaining the stability of the baseline and for identifying any significant issues which may require

changes to the baseline. The IWG will report on the status of the baseline at least once at the end of each FY quarter. In addition, any relevant documents used in developing recommendations for resolving interface issues will be made available to the ICB upon request.

IWG Membership. The membership of this IWG includes:

- o J. D. Hurley, JIO/W
- o L. E. Romesberg, SNL/TTC, Chairman
- o J. G. Ortiz, Westinghouse/WIPP
- o Z. W. Stachon, Bechtel/WIPP

The designated chairman is responsible for coordination of the IWG activities including: scheduling meetings, receiving and coordinating correspondence incoming to the IWG, and coordinating and sending documentation originating from the IWG.

IWG Communication. The communication and reporting requirements identified in the TLO-WPO Interface Management Charter will be followed during IWG activities. In addition, the IWG will provide a written response to the ICB identifing issues or problems. This response will include alternatives for resolving the issues or problems, with a preferred alternative identified and, if necessary, supporting information or discussion necessary to explain or document recommendations. Copies of the report will be provided to all members of the ICB and to any further distribution identified by the ICB.

Communication within the IWG on interface issues will be in addition to the established lines of communication within each of the organizations comprising the ICB, the TRU Waste Lead Organization (TLO) and the WIPP Project Office (WPO). An interface issue identified or recommendations for resolving an issue by the IWG member should be coordinated within the IWG and then raised to the organization responsible for that activity within the ICB.

APPENDIX H

TRU Waste Packaging Guidance Memorandum

Issued: 3/29/85

Interface Working Group
Guidance Memorandum

TRU Waste Packaging Requirements

Purpose. This Guidance Memorandum adheres to requirements established in the TLO-WPO Interface Management Charter (see attachement). This Memorandum establishes task guidance and membership for the TRU Waste Packaging Interface Working Group (IWG). The ICB establishes this IWG to address the current task and will determine if the IWG will continue.

IWG Issues. The IWG is requested to prepare a comprehensive report assessing if compliance testing for Type A packaging is sufficient to address requirements for transporting CH TRU wastes in currently planned transportation systems and for disposing of wastes in the WIPP. The IWG will review test requirements and, if appropriate, recommend additional requirements.

IWG Membership. R. Roberts, RHO (Chairman); J. Johnson, TSC; T. Nielsen, JIO/RI; D. Edling, MD.

IWG Communication. The communication and reporting requirements identified in the Inteface Management Charter will be followed during IWG activities. In addition, the IWG should provide a written final report to the Interface Control Board (ICB) by May 15, 1985. In addition, the IWG Chairman will appear at the first ICB meeting following completion of the task to report on the IWG's recommendations and respond to questions from the ICB.

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APPENDIX I

ICB MEETING MINUTES

Minutes
Interface Control Board Meeting
April 22, 1985
Denver, CO

ATTENDING:

M. H. McFadden, WMTDD, DOE/AL
A. E. Hunt, DOE/WPO
J. V. Guerrero, JIO, Rockwell International
E. G. Hess, JIO, Westinghouse
V. K. Likar, TSC, Westinghouse
K. B. McKinley, JIO, Rockwell International
T. Stroud, DOE/WPO
J. M. Gorton, JIO, Rockwell International

I. AGENDA FOR APRIL 22, 1985

1. Review of Minutes from March 29, 1985
2. General Business
3. IWG Status Report
4. Review of the Semi-Annual Draft
5. New Activities

II. GENERAL BUSINESS

Action Items. Vince Likar reported on the question of WIPP operator exposure limits. He found that a limit less than 1000 mrem has not been established in any WIPP planning standards. The 500 mrem limit established by INEL is a site-specific limit. DOE/AL presently believes the 500 mrem limit will impact the sites if it were to be adopted. Likar also reported that any limit less than 1,000 would not be cost effective. The ICB recommends that the exposure limit for operators at the WIPP be set at the regulatory 1,000 mrem, while personnel at WIPP will work toward the as-low-as-reasonably-attainable standard (ALARA).

Vince Likar reports that J. Johnson will complete analysis on 25 year workoff in time to meet the April 30, 1985 deadline set by the ICB.

III. IWG STATUS

Operations and Transportation Planning

Jack Johnson has formally requested the WIPP planning department to provide cost analysis on projected workoff rates. A final report will be submitted to the ICB prior to the April 30, 1985 deadline. The ICB emphasized the urgency of completing this report to support planning for the Long Range Master Plan for TRU Waste.

TRUPACT-I

Vern Romesberg has started to revise and complete the baseline for TRUPACT-I. He has distributed a letter to the IWG members requesting their comments on the revised baseline. The ICB has decided that revisions to the current baseline, scheduled to be completed by June 28, 1985, should also incorporate recommendations from the TRUPACT-I value analysis. This request will be communicated to the IWG chairman.

RH Transportation

The IWG is waiting for additional information from the RH TRU Waste Characteristics IWG to complete a progress report on the IWG's tasks by mid-May; a final report of both pending tasks will be completed by May 31, 1985.

RH Canister

The ICB has approved the final baseline revisions for the RH canister and has distributed copies to the other IWG's as an example of how a technical baseline should be written.

RH TRU Waste Characteristics

The preliminary letter report on RH waste characteristics at ORNL, LANL, and RHO has been distributed to the IWG members for review. A final report will be submitted to the ICB once it is complete.

NDA/NDE

The ICB discussed the issue of using the mobile assay system at the WIPP site as part of an audit procedure for compliance with the WAC. The ICB decided that verification of waste compliance should be done at the sites prior to shipping wastes to the WIPP. The IWG has planned to meet April 25, 1985 following the Update Meeting to complete review of a report on mobile assay systems requested by the ICB.

Barcoding

The IWG guidance memorandum has been distributed to IWG members. W. Chiquelin, IWG chairman, proposes that the first meeting be held mid-May. The ICB approved the request by ORNL that Tim Rhyne be added as a member of the IWG. Rhyne manages the Integrated Data Base for waste inventory information and is familar with the technical issues of barcoding.

IV. OTHER ISSUES:

Semi-Annual Report. A draft of the Semi-Annual Report of the TRU Waste Lead Organization -- WIPP Project Office Inteface Management was reviewed and

amended by the ICB. In addition to updated information on ICB activities, approved IWG baselines will be appended to the report for better reference. Distribution of the report will be expanded to included the field offices.

ICB Workshop. Mike McFadden briefly reviewed with the ICB the presentation he will be making at the ICB workshop scheduled for Wednesday, April 24.

IWG Issues. The ICB discussed several issues concerning the IWG:

1. It was decided, following a recommendation from an IWG, that IWG chairperson and other interested members will meet briefly with the ICB to review IWG final reports and to answer any questions or comments about the findings. After a final decision has been made by the ICB on an IWG action, a copy of the decision will be forwarded to the IWG.

2. In recognition of valued participation on an IWG, the ICB will send a letter of appreciation to the DOE field office commending the work of individual members of the IWG.

3. In requesting a member to serve on an IWG, a letter will now directly go to the DOE field office with a carbon copy going to the prospective member's manager. This will aid in the cooperation between the manager and the field office in coordinating the individual's responsibilities with participation with on the IWG.

4. The ICB will announce at the Update Meeting that any information requested by the State of New Mexico EEG must be received and responded to through the WIPP Project Office.

ICB Meeting. Betsy Jordan, DOE/HQ, will participate in ICB meetings when she is available. The next meeting of the ICB will be held May 17, 1985 in Carlsbad, NM.

Minutes
Interface Control Board Meeting
March 29, 1985
Albuquerque, N.M.

ATTENDING:

M. H. McFadden, WMTDD, DOE/AL
A. E. Hunt, DOE/WPO
E. G. Hess, JIO Westinghouse
J. W. Sadler, TSC, Westinghouse
T. Stroud, DOE/WPO
J. M. Gorton, JIO, Rockwell International

GENERAL BUSINESS:

Arlen Hunt has appointed Tom Stroud as his alternate to the ICB representing the WIPP Project Office. It has been confirmed that the Westinghouse members to the ICB are Vince Likar and Ed Hess.

John Sadler raised the problem of WIPP operator exposure limits. WIPP has an objective to limit exposure to 500 mrem even though DOE regulations are set at 1000. Vince Likar was asked to check the source of the regulatory limit and report back to the ICB at the next meeting.

IWG STATUS:

Operations and Transportation Planning

The ICB acknowledged that the WIPP workload has hindered the completion of the waste workoff analysis. However, it was decided that this is an internal problem the TSC must solve. John Sadler will return to WIPP and discuss the problem with Vince Likar with the goal of ensuring that the completion date is met.

TRUPACT-I

The ICB has sent a memorandum to the IWG chairman requesting him to delegate the completion of revisions to the TRUPACT-I interface control baseline to another IWG member.

RH Transportation

J. D. Hurley, the IWG Chairman, briefed the members of the ICB about the IWG's work to revise the interface control baseline and to develop the information on high-neutron wastes. He reported that the RH Transportation IWG is waiting for additional information from the RH TRU Waste Characteristics IWG before it can submit a progress report to the ICB. The information should be available by mid-May and a final report of both tasks completed by May 31, 1985.

RH Canister

The ICB approved a proposed revision to the RH canister interface control baseline submitted by the new chairman, George Beitel. A final revision of the RH Canister Baseline will be sent to the other IWG's as an example of a good technical baseline.

RH TRU Waste Characteristics

To develop the RH TRU waste characteristics report, the IWG has visited ORNL, LANL and RHO. A final report is anticipated at the next ICB meeting. The Joint Integration Office/Rockwell International has named G. D. Pierce to replace R. E. Richardella on the IWG.

NDA/NDE

The ICB approved rescheduling completion of the final IWG report addressing technical and operational impacts of using alternative NDA/NDE systems at waste storage and shipping sites to May 5, 1985.

Barcoding

The ICB approved a guidance memo and letter establishing an IWG to develop an interface baseline for barcoding activities and a proposal for coordinating barcoding activities with system-wide issues.

OTHER ISSUES:

Semi-Annual Report. A draft of the Semi-Annual Report of the TRU Waste Lead Organization -- WIPP Project Office Inteface Management was distributed to the ICB for review.

The next ICB meeting is scheduled at 2:00 PM, April 22, 1985, at the Sheraton Tech. Center, Denver, CO.

Minutes
Interface Control Board Meeting
February 21, 1985
Albuquerque, N.M.

ATTENDING:

M. H. McFadden, DOE/AL
V. F. Likar, TSC, Westinghouse
J. V. Guerrero, JIO, Rockwell International
A. E. Hunt, WIPP Project Office
E. G. Hess, JIO, Westinghouse

GENERAL BUSINESS:

Arlen Hunt has been appointed to the ICB representing the WIPP Project Office. Westinghouse TSC representation on the ICB will be reviewed with the formation of the Joint Integrated Office in Albuquerque. At this time, the Westinghouse membership to the ICB is Vince Likar and Ed Hess. Mike McFadden and Arlen Hunt will discuss Westinghouse representation with J. McGough and Randy Cooper.

The ICB decided that requests by IWG for delay in schedules for delivering data and reports must be made in writing, describing the reasons for the delay and proposing a new deadline for delivery.

The ICB recommended that a workshop be prepared on ICB activities for presentation during the next DTWP Contractor Update Meeting. The workshop would allow IWG's to discuss administrative issues and problems, and permit some evaluation of interface management activity.

IWG STATUS:

Operations and Transportation Planning

To incorporate new data now available on workoff rates, the ICB approved a request by the IWG to complete the pending WIPP waste workoff analysis until March 31, 1985, but no further slippage will be allowed.

TRUPACT-I

The ICB aproved a memorandum to the IWG chairman requesting him to delegate the completion of revisions to the TRUPACT-I interface control baseline to another IWG member. In addition, the ICB approved a revised deadline of March 15, 1985 for this work.

Draft ICB Minutes
February 21, 1985

RH Transportation

The IWG meeting on March 12 and 13 was held to complete work on its interface control baseline revisions and to develop the information on high-neutron wastes requested by the ICB. The IWG is projecting to complete both tasks and submit reports to the ICB by March 31, 1985. The IWG chairman has been invited to the next ICB meeting to brief the members on the findings that the report will include.

RH Canister

The ICB has approved a proposed revision to the RH canister interface control baseline from the new IWG chairman, George Beitel. A final copy of the RH Canister Baseline will be sent to the other IWG's.

RH TRU Waste Characteristics

In meeting the ICB's guidance to develop a report for a status report on RH TRU waste characteristics, the IWG has scheduled visits to generate data first hand at ORNL, LANL, and RHO. The IWG will visit ORNL the first week in March, LANL the second week, and RHO the third. The Joint Integration Office/Rockwell International will select a replacement for R. Richardella who transferred to RFP.

NDA/NDE

The ICB is still waiting to receive the final IWG report addressing technical and operational impacts of using alternative NDA/NDE systems at waste storage and shipping sites. The IWG has not proposed a delivery date.

OTHER ISSUES:

Barcoding. The ICB decided to prepare a letter to WIPP requesting clarification on plans to use or not use barcoding to identify certified TRU waste packages. Based on the response from the WIPP, the ICB determined to develop an IWG and prepare a guidance memo to examine the advantages and disadvantages on system wide issues.

NEPA Documentation. The ICB decided to transmit a letter to the WPO informing them that every change to WAC must be documentated.

New Quarter Activities. A workshop on Interface Management will be held at the April TRU Update Meeting to orient other contractors on ICB and IWG activities.

Semi-Annual Report. The ICB suggested that a section entitled "Future Activities" be added to the draft outline for the Interface Management Semi-Annual Report.

The next ICB meeting is scheduled at 1:30 pm, March 29, 1985, in the Joint Integrated Office Conference Room, 2201 San Pedro N.E., Bldg. 4, Second Floor.

Minutes
Interface Control Board
January 21, 1985
Albuquerque, N. M.

ATTENDING:

M. H. McFadden, DOE/AL
V. Likar, TSC, Westinghouse
J. Guerrero, TWSO, Rockwell International

GENERAL BUSINESS:

Arlen Hunt has been appointed to the ICB representing the WIPP Project Office. The Westinghouse TSC representation on the ICB is being reevaluated in relation to formation of the Joint Integrated Office in Albuquerque. At this time, the Westinghouse membership to the ICB remains the same, Vince Likar and his alternate John Sadler.

EG&G, Idaho, requests that D.A. Peterson replace T. Clements on the RH TRU Waste Characteristics Interface Working Group. The ICB approved the change.

M. H. McFadden proposed that when IWG's submit a report or recommendations to the ICB that the IWG chairperson attend the next ICB meeting. In this way, the IWG chairperson could provide background information about the IWG report and would be available to answer questions from the ICB. The ICB approved the action.

The ICB decided that requests by IWG for delay in schedules for delivering data and reports must be made in writing, describing the reasons for the delay and proposing a new deadline for delivery.

The ICB recommended that a workshop be prepared on ICB activities for presentation during the next DTWP Contractor Update Meeting. The workshop would allow IWG's to discuss administrative issues and problems, plus permit some evaluation on how the interface management effort is working.

IWG STATUS:

Operations and Transportation Planning IWG. The ICB approved a verbal request from the IWG to delay submitting a revised baseline until the end of February 1985.

The revised analysis for 25 year WIPP Workoff duration which was promised for the first part of December 1984 has not been received from the IWG. The ICB will contact J. Johnson to request a status report on this analysis.

RH Transportation IWG. The ICB received and approved a request from the IWG to delay completing revisions to its baseline until the end of February, 1985. The ICB will ask the IWG for a report on the current status of the additional guidance (Addendum II). This guidance asked the IWG to assess the technical feasibility of expanding and modifying the present RH transportation system to ship certified TRU wastes in 30 and 55 gallon drums in the existing COC cask.

RH Canister IWG. The ICB received and approved a verbal request from the IWG to delay completing revisions to its baseline until the end of February, 1985.

NDA/NDE IWG. The ICB received the IWG draft report addressing technical and operational impacts of using alternative NDA/NDE systems at waste storage and shipping sites. The report also considers the impact of shared use of one mobile NDA/NDE system at WIPP, small generating and shipping sites and for special case TRU wastes at all sites. The ICB will await issuance of the final report before it provides review and comment.

RH TRU Waste Characteristics IWG. The comprehensive report on RH TRU wastes characteristics is due to the ICB by the end of January 1985. The ICB will request a status report on this information from the IWG.

TRUPACT IWG. The chairman of the IWG reports that, because of present workload, revisions to the baseline for the TRUPACT cannot be completed until June 1985. The ICB recognized the amount of effort going into the TRUPACT task, but believes that interface control is an important part of this effort. Therefore, the ICB will request the IWG chairman to delegate baseline revisions to another member of the IWG and to submit a revised schedule for completion to the ICB.

OTHER ISSUES:

Barcoding. The ICB decided to prepare a letter to WIPP requesting clarification on plans to use or not use barcoding to identify certified TRU waste packages. Based on the response from the WIPP, the ICB will determine whether to develop a strategy for evaluating the costs and benefits of barcoding for the all the TRU waste generating and storage sites.

The next ICB meeting is scheduled at 1:30 pm, February 21, 1985, in the Joint Integrated Office Conference Room, 2201 San Pedro N.E., Bldg. 4, Second Floor.

Interface Control Board
Minutes/November 14, 1984

Topic #1 RH TRU Waste Characteristics. The ICB reviewed and approved the draft IWG guidance memorandum to prepare a comprehensive report on stored and projected newly-generated RH TRU waste characteristics. The IWG will prepare the report to support RH TRU waste management activities including RH transportation package system selection, preparation of an RH transportation SARP, verification of sources of RH TRU wastes for the WIPP RH Storage Demonstration and additional WIPP-related studies. The IWG membership is M. Warrent, SNLA/TTC (Chairperson); T. Clements, EG&G, Idaho; Hank Batchelder, TSC, Westinghouse; and R. Richardella, TWSO, Rockwell International. The report is due to the ICB by the end of January 1985.

Topic #2 WIPP Workoff Analysis. The ICB reviewed and approved a request by the Operations and Transportation Planning IWG to extend the deadline from October 9, 1984, to January 9, 1985, for completion of the analysis of cost impacts for changing WIPP workoff durations, specifically the 25-year workoff duration.

Topic #3 Operations and Transportation Planning IWG Baseline. The ICB reviewed the O&T Planning IWG baseline and recommended the following:

- o Identify potential routes for TRU waste shipments to the WIPP, taking under review the routes established for highway assistance in the Supplement Stipulated Agreement between DOE and the State of New Mexico, the route studies in the Preliminary Transportation Analysis document published by the WIPP and routes requirement established by HM-164.

- o Reorganize the presentation of the baseline to include three categories for each activities: Baseline features, Comments and Issues. The ICB will provide the IWG with specific recommendations for revising its proposed baseline.

Topic #4 RH Canister IWG. The ICB approved a change in chairmanship for the RH Canister IWG from D. E. Ball to G. A. Beitel and a request for delaying the deadline for submission of the IWG baseline to November 21, 1984.

Topic #5 RH Transportation IWG. The ICB agreed that a memorandum will be send to the IWG chairman requesting an explanation for delays in submitting a revised baseline (due October 31, 1984) and a new date of expected delivery.

Topic #6 Barcoding. The ICB is considering the need for study of the benefits of barcoding wastes packages before recommending that the practice be include in the WIPP Waste Acceptance Criteria. An IWG will be established if the ICB determines a system-wide study is required.

The next ICB meeting will be on January 21, 1985, in Albuquerque, N.M.

Minutes

Interface Control Board Meeting
October 24, 1984
Albuquerque, N.M.

Attending:

M. H. McFadden, DOE/AL
V. Likar, TSC, Westinghouse
J. Guerrero, TWSO, Rockwell International

Topic #1 Review changes to the ICB Charter:

McFadden pointed out that under the revised charter, the chairmanship of ICB now resides with WMTDD, membership on the ICB is now identified by function instead of individuals and administration of the ICB activities has been transferred to TWSO. The revised charter has been signed off by the WPO and WMTDD.

Topic #2 IWG Request for feedback:

Guerrero raised the concern that some IWG's have requested more feedback information on the ICB's review of their baselines, recommendations and other IWG activity.

The ICB agreed to distribute the minutes of ICB meetings to the IWG chairpersons. The effort will be made to accomplish this within two weeks of each meeting. It will be the responsibility of individual IWG chairpersons to distribute the minutes to their membership. In addition, the ICB meeting minutes will be distributed to a list of other relevent program participants.

Topic #3 IWG Action List

The ICB agreed that a status and action list of pending IWG activities will be prepared and reviewed at each ICB meeting. The list will be attached to the meeting minutes.

Topic #4 IWG on RH Waste Characteristics

The ICB reviewed the first draft of a guidance memorandum establishing an IWG on RH Waste Characteristics. The IWG is formed to provide RH waste characterization information for the RH transportation task and for modification of the SARP. The information would also be used in planning for the RH TRU waste demonstration at the WIPP. The proposed membership includes T. Clements, EG&G, Idaho; H. Batchelder, TSC, Westinghouse; R. Richardella, TWSO, Rockwell International; and M. Warrant, SNLA/TTC (Chairperson).

The IWG is requested to cooperate with TWSO in identifying the source for the 10 canisters of RH TRU wastes to support the RH TRU waste storage demonstration at the WIPP. The IWG is also requested to cooperate with the Mitre Corporation in researching the interest of the commercial sector in providing commercial casks for transporting defense RH TRU wastes for the RH storage demonstration, the routine shipment of RH TRU wastes, or both. T. Halverson, TSC, Westinghouse, has provided current information on the type of commercial radioactive waste casks available.

Topic #5 RH Transportation IWG

The decision to proceed on the RH transportation system is currently based on a three-phased approach:

In the first phase, if the commercial sector cannot support the demonstration program, then work will procede on modifying the DHLW cask SARP to transport 10 canisters with 24-inch diameters to the WIPP during the RH TRU waste storage demonstration.

During the second phase, again a commercial source will be sought to provide a qualified cask to support the RH waste storage demonstration schedule to begin in 1/89 and routine shipments of 26-inch canisters in 1/94. This is consistent with the Reference Integrated Shipping Plan (RISP), requiring the commercial sector be solicited first for a qualified transportation system to ship defense RH TRU wastes.

The third phase would occur if a source for qualified commercial cask cannot be identified. In this case, the the DHLW cask would be modified for the routine shipping of 26-inch canisters for RH TRU waste materials.

Topic #6 RH Canister IWG Report

The ICB essentially agrees with the IWG's recommendations for use of a 26-inch canister, however the board believes that more analysis will be required when more is known about RH waste characterization. Some questions needing consideration is whether most RH wastes is in 30 gallon drums and how much of this waste requires shielding?

The ICB will examine these issues at the next meeting.

Topic #7 ICB Annual Report

The draft ICB Annual Report was reviewed and approved with revisions for final distribution.

The next ICB meeting will be November 14, 1984, in Albuquerque, N.M.

Minutes

TLO/WPO INTERFACE CONTROL BOARD

Meeting 9/12/84, Albuquerque, NM

Attending: V. F. Likar, WIPP-Westinghouse
M. H. McFadden, DOE/AL
L. J. Smith, RI/TWSO

Topic: Next ICB Meeting

The next ICB meeting will be held in Albuquerque at 1:00 p.m. on 10/24/84.

Topic: ICB Charter

Further changes to the charter were requested, to clarify membership. A re-drafted charter is to be sent to ICB members for approval as soon as possible.

Topic: Semiannual Report

The report outline was approved, without change. A draft report is due to ICB members by 10/23/84.

Topic: Distribution of IWG reports

It will be the policy of the ICB to distribute IWG reports to all affected organizations, but only after review and approval of the report by the ICB.

Topic: Operations and Transportation Planning IWG

Change the draft guidance memorandum to clarify information needed in the IWG baseline, to request the revised baseline by 10/31/84, and to request the revised workoff duration analysis by 10/9/84. The revised memo should be delivered to McFadden by 9/19/84.

Topic: RH Transportation Package IWG

Change the draft guidance memorandum to request the revised baseline by 10/31/84, and to expand the scope of the high-neutron waste analysis to include processing and handling. The revised memo should be delivered to McFadden by 9/19/84. Likar reported a 6/11/84 WPO/Cooper memo directing TSC not to do a scoping analysis on handling RH TRU canisters with high-neutron surface dose rates.

The ICB is inclined toward the recommendation of the 8/31/84 IWG letter, that a modified DHLW cask be used for all shipments of RH TRU waste to the WIPP, but requests TWSO to provide further information. Alternative 1 (all shipments in the existing DHLW cask) does not seem worth pursuing, because of the cost and limitations placed on the system. The main points distinguishing between Alternative 2 (initial 10 canisters in the existing DHLW cask; routine shipments in a modified cask) and Alternative 3 (the recommended alternative) are as follows:

Alternative 2		Alternative 3
$60K	Near-term cost to DTWP	$4M
real	Risk of State claiming demonstration phase shipments "not representative"	none
possible	Problems in identifying 10 canisters of non-combustible waste for demo	none
likely	Risk of being committed to external cask design of DHLW program, without TRU input	none

An ICB decision is deferred. A meeting at DOE/HQ to discuss the recommendation is scheduled for 9/25/84. Additional information requested from TWSO before that meeting is (1) where would the 10 canisters of non-combustible waste come from, and (2) what is the possibility of using a commercial cask for routine shipments. TSC has been looking into the latter question.

Topic: TRUPACT IWG

Change the draft guidance memorandum to attach the proposed TRUPACT schedule, and to request the revised baseline by 10/31/84. The revised memo should be delivered to McFadden by 9/19/84.

Topic: RH Canister IWG

Change the draft guidance memorandum to place the request for a final report on the canister restrictions task first (Note: this will be deleted; the final report has been received - ljs), and to request the revised baseline by 10/31/84. The revised memo should be delivered to McFadden by 9/19/84.

Responding to a letter from J. D. Hurley, the ICB approves RH canister design changes requested by WIPP TSC in a 9/7/84 letter. McFadden will send a memo to the IWG.

Topic: NDA/NDE IWG

Revised the draft guidance memorandum to remove requirements to define a baseline, and to clarify the issues involved. It was agreed that these are (a) technical consistency from site to site, and (b) whether an schedule for inter-site use was feasible. At the end of this task, the ICB will decide whether to abolish or continue this IWG.

Topic: Baseline Control

It is important that proposed and actual changes to the baseline be documented. It is also important that the ICB be consistent in insisting that it review and approve baseline changes before they take place. It was agreed that urgent issues presented to the ICB could be presented, discussed, and approved by fax and/or phone. There should be an addition to each IWG memo, pointing out the requirement to get ICB approval on changes.

Topic: TRUPACT Maintenance Facility Data Requirements

The WPO does not require any further information at this time. They are using the draft TRUPACT O&M Manual for their design basis, and will make changes as required when the O&M Manual is finalized (12/85).

APPENDIX J

ICB MANAGEMENT CHARTER

CHARTER

TRU WASTE LEAD ORGANIZATION--WIPP PROJECT OFFICE

INTERFACE MANAGEMENT

(Amended September 1984)

I. MISSION AND SCOPE

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. Interface boundary areas are identified and may be supplemented through processes and procedures agreed to in this charter.

II. BACKGROUND

Because of the individual and specific nature of many of the technical and programmatic problems to date within each organization, cooperation and coordination of individual issues has been achieved largely on a case by case basis. The evolution of the Defense Transuranic Waste Program (DTWP) from resolving essentially technical and interim storage concerns toward emphasis on preparing and transporting defense TRU wastes for demonstration of disposal in the WIPP requires a change in this posture. This document defines the TLO/WPO Interface System which will formalize interfaces and ensure successful coordination of efforts.

III. INTERFACE ORGANIZATION

The TLO/WPO Interface System will be composed of two major interface levels: technical interfaces covered by the Interface Working Groups (IWG's) with issues resolved and/or changes ratified, and programmatic interfaces covered by the Interface Control Board (ICB). The basis of the interface system lies with the IWG's responsibility to address specific concerns in the areas of technology and hardware development. However, there are items which must be addressed at the ICB level. These are:

- Impacts of specific changes on the WIPP and the DTWP as a whole.

- Impacts of programmatic changes such as funding levels, priorities and operational requirements.

- Communication and dissemination of information about proposed changes in directives, political or institutional agreements, or other changes which may impact either organization.

- Documentation, filing, and distribution of interface boundary documents, and proposed changes, etc. to ensure a reference and analysis capability.

These items will be addressed through the ICB which will be the central point of contact.

Communication lines established through this interface system should be in addition to present lines of communication.

Interface Control Board. The ICB will be comprised of one DOE and one prime contractor representative from the TLO and the WPO. An alternate member will be identified for each active member of the ICB. The ICB will identify the specific interface areas and interface boundaries, review and approve baseline changes, and resolve interface issues or recommend solutions to the WPO and WMTDD Directors.

An important role of the ICB is 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. Proposed changes affecting budgets, schedule, or the WIPP-WAC and proposed policical or institutional agreements will also be distributed to DOE/HQ for information. Such distribution will be on an earliest possible basis; drafts of proposed documents will be distributed to ensure that timely input is possible by all ICB members. This communications role is essential to the successful coordination.

Membership. Membership of the ICB will be comprised of the TRU Program Manager (DOE/AL/WMTDD) and the WIPP Operations Branch Chief (DOE/AL/WPO). The TRU Program Manager will chair the ICB. One representative from the WIPP Technical Support Contractor (Westinghouse) and one representative from the Transuranic Waste Systems Office (Rockwell) will be non-voting ICB members. Each of the four members will designate an alternate from within their own organization.

Interface Working Groups. The interface system will be established through development of direct lines of communication and coordination between the individuals responsible for development of technology/design or hardware where the end product will interface with WIPP operations.

Interface at this level will be through assignment of cognizant individuals in each of the interface areas defined by each of the organizations developing technology/design or hardware. The assigned individuals will be designated as an Interface Working Group (IWG) for that particular interface. The IWG will be qualified to identify the specific interface features and will recommend baseline revisions, if required, to the ICB. If required, a chairperson or co-chairperson, for the IWG, will be appointed by the ICB.

Some IWG's will be established by this charter on a standing basis. Other IWG's will be created by the ICB to address specific problems or concern. Once the issue is resolved the IWG will be dissolved. This task force approach will allow administrative focus and decisiveness to remain with the ICB.

Because of the immediate and extensive importance of some program activities, the following standing IWG's are established by this charter. A general description of these IWG's together with a discussion of their general boundaries they cover follows. Specific boundaries will be identified by the ICB.

Operations & Transportation Planning -- Interface activities involving both the TLO and the WPO which are specific to the coordination of schedules, through-put for permanent disposal and other related matters identified by the ICB are the functions of this IWG. This includes activities involving the transportation receipt and handling of TRU wastes from storage and generating sites to the WIPP.

RH Canister -- Interface activities concerning the development of compatible and consistent waste packaging for acceptance to WIPP are functions of this IWG. Particular emphasis should be placed of compatibility of TRU waste packaging with WIPP handling capability.

TRUPACT -- Interface activities concerning the development of compatible and consistent waste transportation packages for acceptance at WIPP are functions of this IWG. Particular emphasis should be placed on compatability of TRU waste packaging with WIPP handling capability.

RH Waste Transportation Package -- Interface activities concerning the development of compatible and consistent waste transportation packages for acceptance at WIPP are the functions of this IWG. Particular emphasis should be placed on compatibility of TRU waste packaging with WIPP handling capability.

Baselines. The IWG will have responsibility to develop and/or identify specific interface features for each of the interface areas. These features will be essentially current design or design criteria or agreed upon limits or methods. Whatever the nature of the interface feature, it will be identified and agreed to by the IWG. The interface features will be submitted to the ICB for approval and will become a baseline. The purpose of baselining is to establish stability and allow for formal change control. Any changes to the baseline must be presented to the ICB and mutually agreed to by both the TLO and the WPO or formally resolved by WPO and WMTDD Directors prior to implementation.

Boundaries. The concept of boundaries as used in this charter refers to established limits of interface activities. The ICB will establish the appropriate boundaries for identified IWG's. IWG baselines will exist within these boundaries. Revisions to the boundaries may be proposed to the ICB by IWG's or may come from the ICB itself.

INTERFACE ADMINISTRATION

Interface Control Board. The ICB will act as a change control board, ensuring that changes to the IWG defined baselines are properly coordinated and approved. The ICB will also serve as an interface distribution, communications and analysis center programmatic, technical, and other change impacts. In addition, the board will be the center for documentation and distribution of interface boundaries, changes, and analyses, and coordination comment and review.

A quorum will constitute board attendance by both DOE members or their alternate. Full board attendance is preferable. Cost and schedule thresholds for changes will be established by the ICB with WPO and WMTDD approval beneath which the ICB can effect changes as required.

In analyses of interface impacts the ICB will consider:

- o Potential schedule changes in the DTWP and additional costs or cost-savings.

- o Overall benefits achieved in coordination and improvement of DTWP development.

- o Compliance with requirements imposed by state or federal regulations or agreements.

Administration of the ICB will be performed by the TLO and will consist of:

1) receiving, logging in, and distribution to ICB members all documentation which is of interest to the ICB including, but not limited to, IWG recommendations and reports, special working group recommendations and reports, draft political/institutional agreements, and reports containing analysis specific recommendations;

2) typing of documents prepared by the ICB;

3) distributing ICB documents per a disbribution list prepared by the ICB.

4) developing a filing system for all documentation produced by this Interface System (computerized);

5) scheduling of ICB meetings in conjunction with WPO;

6) transmitting analysis tasks to TSC/TWSO through WMTDD and WPO; and

7) maintaining status records for documentation flow and analysis by coordination with WPO and WMTDD.

Interface Working Groups. Members of the IWG's will be identified by the ICB. Interface boundaries and IWG task responsibilities will be provided in a IWG guidance memorandum, developed and approved by the ICB. In the case where an interface problem must be resolved or analyzed, the ICB may require that the IWG collect information, conduct necessary research and present to the ICB a series of proposed alternatives for action together with a preferred recommendation. The ICB will have final approval on all recommendations.

Implementation. In adopting a recommendation for resolution of an interface problem, expansion of an interface boundary, revision to an interface baseline, or for any other action within the scope of the Interface Control Board, the ICB will document its conclusions. Conclusions or recommendations of the ICB will be approved or concurred in by both DOE members. The ICB will identify TLO and WPO responsibilities for implementing the interface action. Subsequently, WPO and TLO are required to provide feedback to the ICB on implementation of the proposed action.

Information Exchange. Information generated by the IWG or other sources within either the TLO or the WPO that fall within the interface boundaries or potentially affects the baseline definition will be provided to all members of the ICB for review.

Conflict Resolution. If a change is proposed by an IWG that has impact on both the WPO and the TLO and the analysis of impact fails to reach an acceptable recommendation on how to implement the change, the data will be presented to WPO and TLO Directors for action.

Reporting Requirements. The ICB will document all decisions and recommendations and distribute as required. In addition, the ICB will provide a semi-annual summary report describing the significant interface activities during the preceding six months. This report will include discussion of the IWG recommendations and resolutions considered and implemented during the same time period.

J. M. McGough, Director
Waste Management and Transportation
Development Division

Sept 20, 1984
Date

W. R. Cooper, WIPP Project Manager

10/4/84
Date

END

DATE FILMED

11/2/91