

RELEASE AUTHORIZATION

Document Number: WHC-SD-SNF-ATP-003, Rev. 0

Document Title: Paradox Applications Integration ATP's for MAC and Mass Balance Programs

Release Date: 10/10/94

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This document was reviewed following the procedures described in WHC-CM-3-4 and is:

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WHC Information Release Administration Specialist:

Christine Willingham

CHRISTINE WILLINGHAM

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10/10/94

(Date)

SUPPORTING DOCUMENT		1. Total Pages 15
2. Title Paradox Applications Integration ATP's for MAC and Mass Balance Programs	3. Number WHC-SD-SNF-ATP-003	4. Rev No. 0
5. Key Words MASS, BALANCE, BASINS, MATERIAL, ENCAPSULATION, ACCOUNTING, DATABASE, MENU, CANISTER, LOCATION	6. Author Name: V.K. Russell <i>VK Russell</i> 9/27/94 Signature Organization/Charge Code 2A410 / E13966	
7. Abstract The K Basins Materials Accounting (MAC) and Material Balance (MBA) database system were set up to run under one common applications program. This ATP describes how the code was to be tested to verify its correctness.		
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9. Impact Level <i>A NA</i>		

APPROVED FOR
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 10-10-94

K BASINS

DATABASE SYSTEMS

Paradox Applications Integration

Acceptance Test Procedures for MAC and Mass Balance Programs

Software Versions MAC: 3.1 and MBA: 1.2

James E. Mullaney

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April 12, 1993

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1.0 INTRODUCTION

1.1 Purpose

- Present the steps needed to perform minimal Acceptance Test on the Material Accounting Program, software version 3.1, when operated in the K Basins Applications integrated environment.
- Present similar procedures for the Mass Balance Program, software version 1.2.

1.2 Scope

The scope of the tests is minimal, since both MAC and MBA have already been tested in detail as stand-alone programs.

1.3 Background

The Mass Balance Program (Reference 2) is an adjunct to the Material Accounting (MAC) database system (Reference 1).

Since the completion of acceptance testing of MBA version 1.1, the MAC and MBA programs have been moved to separate directories to improve and simplify maintenance operations.

Other K Basin Paradox application programs have been similarly structured and an overall driver has been constructed, which allows users to migrate freely among applications without leaving Paradox.

While the internal design of the MAC and MBA programs has not changed since the last detailed tests, the change in operating environment warrants a limited test to confirm the programs when operating in the new environment.

In keeping with the software configuration management plan (Reference 3) the versions to be released after successful completion of this ATP will be designated as MAC version 3.1 and MBA version 1.2.

2.0 ACCEPTANCE TEST PLAN

This document constitutes the acceptance test plan for the MAC version 3.1 and MBA Version 1.2 software.

Test location: Bldg. 1720K, room 4, 100K Area

Computer: The PC located room 4, assigned to Karen Morris, or an alternate PC designated by K Basins Operations Support.

Disk space: the h:\new\pdxappl\ directory of HLAN.

Participants will consist of the following:

Test Performer

Test Witness

IRM Analyst

The Test Performer will execute the test procedures as defined in this document.

The Test Witness will witness each test and sign the appropriate test execution and exception logs together with the Test Performer.

The IRM analyst will serve as advisor on the new functions and assist with verbiage on the execution / exception logs as required. He will also write a test summary report and schedule and assist in scheduling a follow-on ATP if needed.

3.0 ACCEPTANCE CRITERIA

Software Versions MBA 1.1 and MAC 3.1 functions must perform as defined in this document.

4.0 ACCEPTANCE TEST PROCEDURES

4.1 General

Previously published acceptance test procedures (References 1 and 2) will be used to define detailed steps for each of the two systems to be tested.

The test will be initiated on the h:\new\pdxappl\ subdirectory.

Upon satisfactory completion of the tests, including software revisions if any, a massive relocation of MAC and MBA data and software will take place. Data previously stored in directory g:\ will be distributed to g:\MAC and g:\MBA.

4.2 Procedure Format

The K Basins integrated system is menu-driven. Upon entry, the user is presented with a "popup" menu, with instructions at the top of the screen. Most of the time, the instructions are simply:

To select, Press first character or <Enter>. To see explanation, highlight the appropriate selection, using the cursor movement keys.

For example, refer to the main menu, Figure 1. If one chooses MAC, then the next menu seen will be Figure 2, which presents all of the MAC options. If, in Figure 1, the user presses the B key, then the next menu seen will be Figure 3, which presents the Mass Balance options.

In some of the options, the user is led to view and/or modify a table, in which case the instructions at the top of the screen will be specifically tailored to the option at hand.

In this document, the symbol:

↵

will signify pressing the <Enter> key.

4.3 Startup

From the DESQView main menu, select NEW Paradox Applications.

OBSERVE messages indicating setup and entry into network Paradox.

OBSERVE K Basins Paradox Applications menu (Figure 1), with the directory notation "h:\new\pdxapps" blinking in the upper right portion of the screen.

NOTE If for any reason the user exits the main menu (such as by going to Paradox), he/she may restart the system from Paradox via a "Scripts / Play / apps" command. To execute this command, user must first assure that Paradox is working from directory "h:\new\pdxapps".

RECORD results in the test execution log.

4.4 Materials Accounting (MAC) Program Tests

NOTES:

- (1) It would be helpful to have a copy of a recent Compact Map report in hand before beginning this part of the Acceptance Test.
- (2) Test performer will need a copy of reference 1, for detailed test procedures.

4.4.1 Update/Encapsulate (partially stuck canister)

At the K Basins Paradox Applications menu (Figure 1), PRESS M.

At the Materials Accounting (MAC) main menu (Figure 2) PRESS U or ↵.

PERFORM item 4.5.1 of reference 1.

RECORD results in the test execution log.

4.4.2 Report / Daily

At the MAC main menu (Figure 2), PRESS R.

PERFORM item 4.6.1.1 of reference 1.

RECORD results in the test execution log.

4.4.3 Print / Daily

At the MAC main menu (Figure 2), PRESS P.

PERFORM item 4.6.1.2 of reference 1.

RECORD results in the test execution log.

4.4.4 Help / Daily

At the MAC main menu (Figure 2), PRESS H.

PERFORM item 4.4.2 of reference 1.

RECORD results in the test execution log.

4.4.5 Help / Material

At the MAC main menu (Figure 2), PRESS H.

PERFORM item 4.4.5 of reference 1.

RECORD results in test execution log.

4.4.6 Optional MAC Tests

At this point, the test performer may select one or more additional functions to test.

At the MAC main menu (Figure 2), SELECT the function desired.

PERFORM the associated item of reference 1.

RECORD results in test execution log.

When finished performing optional tests:

At the MAC main menu (Figure 2), PRESS A.

OBSERVE return to the K Basins Paradox Applications Menu (Figure 1).

RECORD results in test execution log.

4.5 Mass Balance Program Tests

NOTES:

- (1) It would be helpful to have a copy of a recent Compact Map report in hand before beginning this part of the Acceptance Test.
- (2) Test performer will need a copy of reference 2, for detailed test procedures.

4.5.1 MassBal / In

At the K Basins Paradox Applications menu (Figure 1), PRESS B.

At the Mass Balance (MBA) main menu (Figure 3) PRESS M or ↵.

PERFORM item 4.4.1 of reference 2.

RECORD results in the test execution log.

4.5.2 MassBal / Weigh

At the Mass Balance (MBA) main menu (Figure 3) PRESS M or ↵.

PERFORM item 4.4.2 of reference 2.

RECORD results in the test execution log.

4.5.3 Executive / Do Report / History

NOTE: Executive is a function which can only be invoked by users having "Regular" or "Passwrđ" permit levels. Persons with "Read" level will not be able to access. Persons with "Regular" level can do all functions except change the overall password. Persons with "Passwrđ" level will be asked at each entry whether or not the overall password should be changed. Persons with "Regular" level must KNOW the overall password in order to perform any executive functions.

At the Mass Balance (MBA) main menu (Figure 3) PRESS E.

RECORD results in test execution log.

PERFORM item 4.8.2 of reference 2.

4.5.4 Optional MBA Tests

At this point, the test performer may select one or more additional functions to test.

At the MBA main menu (Figure 3), SELECT the function desired.

PERFORM the associated item of reference 1.

RECORD results in test execution log.

When finished performing optional tests:

At the MBA main menu (Figure 3), PRESS A.

OBSERVE return to the K Basins Paradox Applications Menu (Figure 1).

RECORD results in the test execution log.

5.0 REFERENCES

- (1) Mullaney, J.E., "MAC Database Mini Acceptance Test Procedures for Software Version 3.0", Westinghouse Hanford Company, Aug. 14, 1992.
- (2) Mullaney, J.E., "Mass Balance System Acceptance Test Procedures, Software Version 1.1", WHC-SD-NR-ATP-018, Westinghouse Hanford Company, Oct. 16, 1992.
- (3) Russell, V.K., and Mullaney, J.E., "Materials Accounting Database Software Configuration Management Plan, WHC-SD-NR-CSWD-046, Westinghouse Hanford Company, July 12, 1990.

6.0 APPENDIX A

This APPENDIX contains the Figures referenced in the text of this document. Other menus and figures detailing expected results are given in references 1 and 2.

6.1 List of Figures

<u>Figure</u>	<u>Contents</u>
1	K Basins Paradox Applications Menu
2	Materials Accounting (MAC) Main Menu
3	Mass Balance Main Menu

6.2 Figures

To select, Press first character or <Enter>. To see explanation, highlight the appropriate selection using the cursor movement keys.

<p>CHOOSE:</p> <p>MAC</p> <p>Balance (MBA)</p> <p>Calendar</p> <p>Action Tracking</p> <p>Executive</p> <p>GoParadox</p> <p>Who's There</p> <p>Quit</p>	<p>Menu: Programs Directory: h:\new\pdxappl</p> <p>Materials Accounting Program</p> <p>Mass Balance Program</p> <p>Calendar / Scheduling Program</p> <p>Action Tracking / Completions Program</p> <p>Administrative (Executive) Functions</p> <p>Go to Paradox</p> <p>Who are the current persons using Paradox</p> <p>Quit Running Applications Programs</p>
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Figure 1. K Basins Paradox Applications Menu

To select, Press first character or <Enter>. To see explanation, highlight the appropriate selection using the cursor movement keys.

<p>CHOOSE:</p> <p>Update</p> <p>Report</p> <p>Print</p> <p>Help</p> <p>Export</p> <p>OpenRev</p> <p>CloseRev</p> <p>FileLoad</p> <p>Executive</p> <p>Backup</p> <p>GoParadox</p> <p>Applications</p> <p>Quit</p>	<p>Menu: macmain Directory: g:\new\mac\</p> <p>Perform material changes and/or relocations</p> <p>Generate materials accounting reports, worksheets, etc</p> <p>Print files previously created with Report</p> <p>View History, Material, Location, etc files</p> <p>Export daily encapsulation report</p> <p>Open current data revision number for further updates</p> <p>Close the current data revision number</p> <p>Load (restore) one or more files from backup device</p> <p>Add, delete, or change the list of valid users</p> <p>Copy database tables, program library to backup device</p> <p>Go to Paradox</p> <p>Paradox Application Programs Menu</p> <p>Leave Paradox and return to DOS</p>
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Figure 2. Materials Accounting (MAC) Main Menu

To select, Press first character or <Enter>. To see explanation, highlight the appropriate selection using the cursor movement keys.

	Menu: mbmain	Directory: g:\new\mba\
CHOOSE:		
MassBal	Perform mass balance processing	
Verify	Verify material removal (requires two operators)	
Clear	Remove all material from chute (two operators)	
Download	Move data from HLAN to local directory c:\mba	
Upload	Move data from c:\mba to the HLAN production system	
Help	View mass balance History, Material, etc. files	
Executive	Database Administrative Functions	
Applications	Paradox Application Programs Menu	
Quit	Terminate mass balance processing, return to DOS	

Figure 3. Mass Balance Main Menu