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ADA (TRADEMARK) COMPILER VALIDATION SUMMARY REPORT:
VERDIX ADA COMPILER V. (U) SOFTECH INC FAIRBORN OH
JUN 85 F33600-84-D-0280

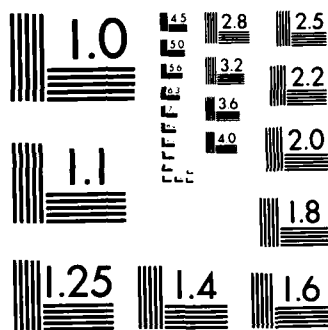
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Verdix Ada Compiler, Verdix Ada Development System (VADS)
VAda-010-1010, Version V05.00, For Sun Microsystems Model
2/120 Using UNIXtm 4.2 BSD, Release 1.1 (Final)

June 1985 to June 1986

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The purpose of the Validation Summary Report is to present the results and conclusions of performing standardized tests on the Verdix Ada compiler. On-site testing was performed 28-30 APR 85 at Verdix Western Operations in Aloha, Oregon, under the auspices of the Ada Validation Facility (AVF), according to the Ada Validation Office (AVOC) policies and procedures. The Verdix Ada compiler (Verdix Ada Development System (VADS) VAda-010-1010) is hosted on the Sun Microsystems Model 2/120 computer operating under

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Berkeley UNIX 4.2 BSD , Release 1.1. The suite of tests known as the Ada Compiler Validation Capability(ACVC), Version 1.5 was used. The ACVC suite of tests is used to validate comformance of the compiler to ANSI/MIL-STD-1815A (Ada). This standard is described in the ANSI Ada Reference Manual, January 1983. Not all tests in the ACVC test suite are applicable to a specific implementation. Also, known test errors in Version 1.5 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identifies, rejects from processing, and labels illegal language comstructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVC, Version 1.5, contains 2051 tests, of which 1838 were applicable to this implementation. Of the 1838 applicable tests, 78 were withdrawn due to the occurrence of errors in the tests. Results showed that all of remaining 1760 valid tests were successfully passed by the Verdix Ada compiler. A complete list of tests and results is provided in thss report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

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Verdix Ada Compiler,
Verdix Ada Development System (VADS),
VAda-010-1010, Version V05.00
For Sun Microsystems Model 2/120
Using UNIX[™] 4.2 BSD, Release 1.1

(Final)

Contract F33600-84-D-0280
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Prepared for:

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Computer Operations Division
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ABSTRACT

The purpose of this Validation Summary Report is to present the results and conclusions of performing standardized tests on the Verdix Ada compiler. On-site testing was performed 28-30 APR 85 at Verdix Western Operations in Aloha, Oregon, under the auspices of the Ada Validation Facility (AVF), according to the Ada Validation Office (AVO) policies and procedures. The Verdix Ada compiler (Verdix Ada Development System (VADS), VAda-010-1010) is hosted on the Sun Microsystems Model 2/120 computer operating under Berkeley UNIX 4.2 BSD, Release 1.1. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.5, was used. The ACVC suite of tests is used to validate conformance of the compiler to ANSI/MIL-STD-1815A (Ada). This standard is described in the ANSI Ada Reference Manual, January 1983. Not all tests in the ACVC test suite are applicable to a specific implementation. Also, known test errors in Version 1.5 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identifies, rejects from processing, and labels illegal language constructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVC, Version 1.5, contains 2051 tests, of which 1838 were applicable to this implementation. Of the 1838 applicable tests, 78 were withdrawn due to the occurrence of errors in the tests. Results showed that all of the remaining 1760 valid tests were successfully passed by the Verdix Ada compiler. A complete list of tests and results is provided in this report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

TABLE OF CONTENTS

CHAPTER 1	INTRODUCTION	
1.1	PURPOSE OF THE VALIDATION SUMMARY REPORT	1-1
1.2	USE OF THE VALIDATION SUMMARY REPORT	1-2
1.3	REFERENCES	1-2
1.4	DEFINITIONS OF TERMS	1-3
CHAPTER 2	TEST ANALYSIS	
2.1	CLASS A TESTING	2-1
2.1.1	Class A Test Procedures	2-1
2.1.2	Class A Test Results	2-2
2.2	CLASS B TESTING	2-2
2.2.1	Class B Test Procedures	2-2
2.2.2	Class B Test Results	2-2
2.3	CLASS C TESTING	2-3
2.3.1	Class C Test Procedures	2-3
2.3.2	Class C Test Results	2-3
2.4	CLASS D TESTING	2-3
2.4.1	Class D Test Procedures	2-4
2.4.2	Class D Test Results	2-4
2.5	CLASS E TESTING	2-4
2.5.1	Class E Test Procedures	2-4
2.5.2	Class E Test Results	2-4
2.6	CLASS L TESTING	2-4
2.6.1	Class L Test Procedures	2-4
2.6.2	Class L Test Results	2-5
2.7	SUPPORT UNITS	2-5
2.7.1	Support Unit Test Procedures	2-5
2.7.2	Support Unit Test Results	2-5
CHAPTER 3	COMPILER NONCONFORMANCES	
CHAPTER 4	ADDITIONAL INFORMATION	
4.1	COMPILER PARAMETERS	4-1
4.2	TESTING INFORMATION	4-2
4.2.1	Pre-Test Procedures	4-2
4.2.2	Control Files	4-3
4.2.3	Test Procedures	4-3
4.2.4	Test Analysis Procedures	4-3
4.2.5	Description Of Errors In Withdrawn Tests	4-4
4.2.6	Description Of Inapplicable Tests	4-5
4.2.7	Information Derived From The Tests	4-6
CHAPTER 5	SUMMARY AND CONCLUSIONS	
APPENDIX A	COMPLETE LIST OF TESTS AND RESULTS	

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE VALIDATION SUMMARY REPORT

This report describes the results of the validation effort for the following Ada translator:

Host Machine:	Sun Microsystems Model 2/120
Operating System:	Berkeley UNIX 4.2 BSD, Release 1.1
Host Disk System:	Fuji 2223, 130 Megabyte
Target Machine:	Sun Microsystems Model 2/120
Operating System:	Berkeley UNIX 4.2 BSD, Release 1.1
Language Version:	ANSI/MIL-STD-1815A Ada
Translator Name:	Verdix Ada Development System (VADS), VAda-010-1010
Translator Version:	V05.00
Validator Version:	1.5

Testing of this translator was conducted by SofTech, Inc. under the supervision of the Ada Validation Facility (AVF), Wright-Patterson AFB, Ohio, at the direction of the Ada Joint Program Office (AJPO). Testing was conducted from 28 APR 85 through 30 APR 85 at the Verdix Western Operations in Aloha, Oregon, in accordance with Ada Validation Office (AVO) policies and procedures.

The purpose of this report is to document the results of the testing performed on the compiler. Testing was carried out with specific emphasis on the following factors:

- to identify any language constructs supported by the translator that do not conform to the Ada Standard

Validation Summary Report

Introduction

- . to identify any unsupported language constructs required by the Ada Standard
- . to describe implementation-dependent behavior allowed by the Standard

1.2 USE OF THE VALIDATION SUMMARY REPORT

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements and apply only to the computers, operating systems, and compiler version identified in this report.

The Ada Compiler Validation Capability is used to determine, insofar as is practical, the degree to which the subject compiler conforms to the Ada Standard. Thus, this report is necessarily discretionary and judgmental. The United States Government does not represent nor warrant that any statement or statements set forth in this report are accurate or complete, or that the subject compiler has no other nonconformances to the Ada Standard. This report is not meant to be used for the purpose of publicizing the findings summarized herein.

Questions regarding this report or the validation tests should be sent to:

Ada Validation Facility (ASD/SIOL)
Computer Operations Division
Information Systems and Technology Center
Wright-Patterson AFB OH 45433-6503

1.3 REFERENCES

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, February 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

"The Ada Compiler Validation Capability," Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc., February 1984.

1.4 DEFINITIONS OF TERMS

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run time to see if the test objective has been met; this distinguishes Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile time (or link time) and no legal statements are considered illegal by the compiler.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a Class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementation's interpretation of the Standard. Each test has its own pass/fail criterion.

Class L tests consist of illegal programs whose errors are expected to be detected at link time. They are passed if errors are detected prior to beginning execution of the main program.

CUSTOMER: The agency requesting the validation (Verdix Corporation).

HOST: The computer on which the compiler executes (Sun Microsystems Model 2/120).

ACVC: The Ada Compiler Validation Capability.

AVO: The Ada Validation Office. In the context of this report, the AVO is responsible for setting policies and procedures for compiler validations.

AVF: The Ada Validation Facility, Wright-Patterson Air Force Base. In the context of this report, the AVF is responsible for conducting compiler validations.

TARGET: The computer for which a compiler generates object

Validation Summary Report
Introduction

code (Sun Microsystems Model 2/120)

VALIDATION: The process of validating a compiler. The term is used interchangeably with test or compiler test.

VALIDATION TESTS: The generic form used to refer to a set of test programs which evaluate how closely a compiler conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.

CHAPTER 2

TEST ANALYSIS

The following table shows that Verdix VADS compiler passed all applicable correct tests.

	A	B	C	D	E	L	Support	Total
Passed	58	747	915	14	7	9	10	1760
Failed	0	0	0	0	0	0	0	0
Inapplicable	0	4	209	0	0	0	0	213
Withdrawn	0	2	76	0	0	0	0	78
Total	58	753	1200	14	7	9	10	2051

The ACVC 1.5 test suite contains 2051 tests. 201 tests in the ACVC 1.5 test suite were not processed because the tests were determined to be not applicable for the Verdix VADS implementation because of the value of SYSTEM.MAX_DIGITS=9. An additional 12 tests in the suite were processed but were found to be not applicable to the VADS implementation(see section 4.2.6).

In addition, 78 tests were withdrawn from the test suite because they did not conform to ANSI/MIL-STD-1815A, the Ada Language Standard (see section 4.2.5 for details).

2.1 CLASS A TESTING

Class A tests check to ensure that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. All 58 Class A test programs were processed for this implementation.

2.1.1 Class A Test Procedures

Each Class A test is separately compiled and executed. However,

Validation Summary Report
Test Analysis

the only purpose of execution is to produce a message indicating that the test passed.

2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates that the tests passed. There were no Class A tests that were withdrawn because of errors in the tests, and all Class A tests were found to be applicable to this implementation. All 58 applicable Class A tests passed. See section 4.2.7 for further information.

2.2 CLASS B TESTING

Class B tests check the ability to recognize illegal language usage. 751 of the 753 Class B tests were processed for this implementation. Two of the Class B tests were withdrawn because of errors in the tests.

2.2.1 Class B Test Procedures

Each Class B test is separately compiled. The resulting test compilation listings are manually examined to see whether every illegal construct in the test is detected. If all errors are not detected, a version of the test is created that contains only undetected illegal constructs. This "split" version is recompiled and the results analyzed. If all errors are still not detected, the revision process is repeated until a revised test contains only a single illegal construct.

A Class B test is considered to fail only if a version of the test containing a single illegal construct is accepted by the compiler (i.e., an illegal construct is not detected) or a version containing no errors is rejected (i.e., a legal construct is rejected).

2.2.2 Class B Test Results

751 of the 753 Class B tests were presented to the compiler. Two Class B tests were not processed because the tests were found to be incorrect (i.e., a conforming compiler would have failed the test - see section 4.2.5). Four of the processed Class B tests were found to be inapplicable to this implementation (see section 4.2.6). All 747 remaining Class B tests passed.

APPENDIX A

COMPLETE LIST OF TESTS AND RESULTS

This Appendix gives a complete list of the ACVC test files used in the validation attempt, presented in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the reader may refer to the test name which indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column, the meaning of that position:

- | | |
|------|---|
| 1 | Class of test (A, B, C, D, E, L). |
| 2 | Implementers' Guide chapter number (in hexadecimal). |
| 3 | Implementers' Guide section number within a chapter (in hexadecimal). |
| 4 | Implementers' Guide subsection number or letter. |
| 5, 6 | Implementers' Guide Test Objective number (two-digit decimal number). |
| 7 | Test sequence letter (A-Z). |
| 8 | Compilation sequence digit or letter (0-9, A-Z). |
| 9 | When there are several compilation units, "M" indicates the main program. |

Characters 8 and 9 are only present for tests that consist of several separately compiled units. A series of separately compiled units is counted as one test for reporting purposes. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix -AB means the test was written prior to release of the ANSI Standard and is also valid for the version of Ada published in July 1980. The suffix -B means the test was written specifically for the ANSI Standard. Tests without a suffix have not yet had their names revised to -AB.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The Ada Validation Facility identified 1838 tests of the ACVC Version 1.5 as being applicable to the validation of the Verdix compiler hosted on the Sun Microsystems Model 2/120. Of these, 78 were withdrawn due to test errors. The compiler passed the remaining 1760 tests.

The AVF considers these results to show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

Validation Summary Report
Additional Information

- . CE2110B-B.DEP: This test confirmed that an external file associated with more than one internal file can be deleted.
- . EE3102C-B.ADA: This test confirmed that an Ada program can open an existing file in OUT_FILE mode, and can create an existing file in either OUT_FILE or IN_FILE mode.
- . CE3111A-B.DEP showed that two internal files may read the same external file.
- . CE3111B-B.DEP and CE3111C-B.DEP showed that the Verdex compiler does allow two internal TEXT_IO files to be associated with the same external file when one or both internal files are opened for writing.

Validation Summary Report
Additional Information

- . E43211B-B.ADA: If a bound in a non-null range of a non-null aggregate does not belong to an index subtype, then all choices may or may not be evaluated before CONSTRAINT_ERROR is raised. The Verdex compiler evaluates all choices before CONSTRAINT_ERROR is raised.
- . E43212B-B.ADA: This test examines whether or not all choices are evaluated before subaggregates are checked for identical bounds. The Verdex compiler evaluates all subaggregates first.
- . E52103Y-B.ADA, C52104X-B.ADA, C52104Y-B.ADA: These tests declare BOOLEAN arrays with INTEGER'LAST+3 components. An implementation may raise NUMERIC_ERROR at the type declaration or STORAGE_ERROR when array objects of these types are declared, or it may accept the type and object declarations. The Verdex compiler raised NUMERIC_ERROR when the type was declared in C52104X-B and C52104Y-B, but it did not raise NUMERIC_ERROR for a null array with one dimension of length greater than INTEGER'LAST in E52103Y-B.
- . A series of tests (D55A03*-AB.ADA) checks to see what level of loop nesting is allowed by an implementation. Tests containing up to 65 nested loops passed without exceeding the capacity of the Verdex implementation.
- . D56001B-AB.ADA contains blocks nested 65 levels deep. This test was passed by the Verdex implementation.
- . CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. The Verdex compiler does allow generic declarations and bodies to be compiled in completely separate compilations.
- . BC3204C*-B.ADA and BC3205D*-B.ADA: These tests contain a separately compiled generic declaration, some instantiations, and a body. An implementation must reject either the instantiations or the body. The Verdex compiler generated errors when compiling the generic package body.
- . CE2106A-B.DEP and CE3110A-B.DEP: These tests confirm that dynamic creation and deletion of files is supported.
- . CE2107*.DEP: These tests showed that more than one internal file may be associated with the same external file.
- . AE101C-B.DEP: This test makes use of sequential and direct I/O instantiated with unconstrained array types and record types with discriminants. The Verdex compiler does permit instantiation of sequential and direct I/O with unconstrained array types and record types with discriminants.

Validation Summary Report
Additional Information

LONG_FLOAT C34001G-B, C35702B-AB, B86001CQ-AB

LONG_INTEGER C34001E-B, B52004D-AB, B55B09C-AB, C55807A-AB,
B86001DS-AB

C86001F-B was inapplicable because it redeclares the package system.

The three tests CE2108B, CE2108D, and CE3113B were inapplicable because they access a file created by withdrawn tests CE2108A, CE2108C, and CE3113A.

4.2.7 Information Derived From The Tests

Processing of the following tests indicated support as described below for a variety of implementation options examined by the tests.

- . E24101A-B.TST: If a based integer literal has a value exceeding SYSTEM.MAX_INT, an implementation may either reject the compilation unit at compile time or raise NUMERIC_ERROR at run time. This test showed that the Verdex compiler raises NUMERIC_ERROR at run time.
- . B26005A.ADA: This test contains all the ASCII control characters in string literals. The system replaced the control characters corresponding to format effectors with a space in the listing file. All occurrences were identified with a diagnostic message by the Verdex compiler.
- . D29002K-B.ADA: This test declares 713 identifiers and was passed by the Verdex compiler.
- . E36202A-B.ADA and E36202B-B.ADA: These tests declare multidimensional null BOOLEAN arrays in which 'LENGTH of one dimension exceeds INTEGER'LAST and SYSTEM.MAX_INT, respectively. An implementation can accept this, or it can raise NUMERIC_ERROR or STORAGE_ERROR at run time. The Verdex compiler did accept the declarations and raised NUMERIC_ERROR during execution.
- . D4A002A-AB.ADA, D4A002B.ADA, D4A004A-AB.ADA, and D4A004B.ADA: These tests contain universal integer calculations requiring 32 and 64 bits of accuracy, i.e., values that exceed SYSTEM.MAX_INT are used. An implementation is allowed to reject programs requiring such calculations. The Verdex compiler passed all four tests.

Version 1.5.

- . C87B10A-B: Literal values were used that were outside an integer base type for some implementations.
- . B87B23B-B: A tricky case of overload resolution marked OK was actually ambiguous.
- . C930BDA-B: An attempt to activate a task before its body is elaborated should raise TASKING_ERROR, not PROGRAM_ERROR.
- . C94004A-B: A pragma ELABORATE was needed to ensure the body of the REPORT package would be elaborated before elaborating a library unit that invoked a function declared in the package.
- . C95008A: It was possible for an entry call to call a terminated task, depending on the implementation.
- . C95009A: An unintended race condition in a tasking test allowed a null access value to be dereferenced before the access variable was assigned the access value of an allocated task.
- . CE2107C-B, CE2107D-B, CE2107E-B, CE2108A-B, CE2108C-B, CE3112A-B: If the NAME function is applied to a temporary file, but the implementation does not allow temporary files to have names, USE_ERROR is raised.
- . CE3103A-B: A test would print a failed message if RESET raised USE_ERROR.
- . CE3804E-B: A test contained a nonmodel number (1.35) for which an equality comparison was expected to always yield true.

4.2.6 Description Of Inapplicable Tests

201 tests were not processed because SYSTEM.MAX_DIGITS is nine. These tests were:

C24113F,G,...,Y-B	C35708F,G,...,Y-B	C45421F,G,...,Y-B
C35705F,G,...,Y-B	C35802F,G,...,Y-B	C45424F,G,...,Y-B
C35706F,G,...,Y-B	C45241F,G,...,Y-B	C45621F,G,...,Z-B
C35707F,G,...,Y-B		

Eight tests were inapplicable because the implementation does not support LONG_FLOAT or LONG_INTEGER:

Validation Summary Report
Additional Information

4.2.5 Description Of Errors In Withdrawn Tests

The following tests in Version 1.5 of the ACVC did not conform to the ANSI Ada Standard and were withdrawn for the reasons given below:

- . C38104A-B: An incomplete type with discriminants was constrained before its full declaration occurred. An implementation is allowed to reject such subtype indications because of an ambiguity in the language (see AI-00007/04).
- . C43103B-B: A non-null range had a bound that was outside the index subtype.
- . C43206A-B, C43207A-B, C43207B-B, C43214A-B: CONSTRAINT_ERROR is raised if one dimension of a multidimensional aggregate has non-null bounds that do not belong to the index subtype, even if the aggregate specifies a null array.
- . C45321*-B., C45521*-B: Incorrect values were used for values assigned to variables having a floating-point subtype.
- . C52001B-AB: An equality comparison for nonmodel numbers (e.g., $23.4 = 23.4$) has an implementation defined value.
- . C52007A-B: A comparison of INTEGER'LAST with SYSTEM.MAX_INT will raise NUMERIC_ERROR if SYSTEM.MAX_INT exceeds INTEGER'LAST, since the implicit conversion of SYSTEM.MAX_INT to INTEGER will raise NUMERIC_ERROR.
- . C52102A-AB, C52102B-AB: The result of concatenating slices of an array of characters had an upper bound that did not belong to the array's index subtype because the array was declared to have an index subtype 1..10 (or 1..9) instead of subtype INTEGER.
- . C52103X-B: A test assumed that a slice would be performed even if it raised NUMERIC_ERROR.
- . C55B15A-B: If SYSTEM.MAX_INT is greater than INTEGER'LAST, the discrete range INTEGER range -SYSTEM.MAX_INT + 10 .. -SYSTEM.MAX_INT will raise NUMERIC_ERROR.
- . B66001A-B: This test checks (in section G) that a parameterless function that is equivalent to an enumeration literal in the same declarative region is a redeclaration and, as such, is forbidden. According to Ada Reference Manual 8.3(17), the explicit declaration of such a function is allowed if an enumeration literal is considered to be an implicitly declared predefined operation. The Ada Reference Manual is not clear on this point. This issue has been referred to the Language Maintenance Committee for resolution. Since the issue cannot be resolved at this time, the test is withdrawn from

4.2.2 Control Files

Verdix provided command procedures that compiled and executed tests automatically.

4.2.3 Test Procedures

Two ANSI format test tapes containing ACVC Version 1.5 were taken on-site by the validation team. The ANSI format tapes were read onto disk on a VAX-11/780 with a UNIX operating system by using a software program called ANSI. System utility programs were used to write a TAR format tape. The TAR format tape was read on a VAX-11/750 with a UNIX operating system and the files transferred to the Sun Microsystems Model 2/120 disk system via an ethernet connection. A program called DISTRIBUTE was executed to reorganize the disk files into tree structured sub-directories based on test chapter. The support files were moved to a separate directory.

The support packages CHECK_FILE, VAR_STRINGS, and REPORT were compiled and the CZ tests were compiled and executed to check the support packages. The tests were then executed by chapter using command procedures provided by Verdix. As tests completed execution, the results were sent to a VAX-11/750 over ethernet and stored on disk. The results were printed and reviewed by the validation team.

Several tests needed to be rerun because of incorrect macro parameter substitutions by the validation team. The tests rerun were B22001A-N, B23003D,E,F, C24003A,B,C, and C23003A. One split test, B33004AS, was rerun because of a bad split.

The Verdix compiler took 21.5 hours using a single job stream to compile and execute 1772 tests of the ACVC Version 1.5 test suite on the Sun Microsystems Model 2/120. The test results were saved on magnetic tape from the VAX-11/750 in ANSI format. The Sun Microsystems Model 2/120 environment and the VADS (VAda-010-1010) compiler were saved on magnetic tape in TAR format.

4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed Class A, C, D, E, or L programs, and all Class B compilation results were individually analyzed. Analysis procedures are described for each test class in chapter 2.

Tests found to containing invalid Ada constructs were withdrawn.

Validation Summary Report
Additional Information

- . non-ASCII char type: (NON_NULL)
- . TEXT_IO.COUNT'LAST: 2_147_483_647
- . TEXT_IO.FIELD'LAST: 2_147_483_647
- . illegal external file name1:
NO/SUCH/DIRECTORY/ILLEGAL_EXTERNAL_FILE_NAME_1
- . illegal external file name2:
NO/SUCH/DIRECTORY/ILLEGAL_EXTERNAL_FILE_NAME_2
- . SYSTEM.PRIORITY'FIRST: 0
- . SYSTEM.PRIORITY'LAST: 7

4.2 TESTING INFORMATION

Tests were compiled and executed at the offices of Verdix Western Operations in Aloha, Oregon. The tests were executed on a Sun Microsystems Model 2/120 operating under Berkeley UNIX 4.2 BSD, Release 1.1, using command procedures prepared by Verdix and reviewed by the validation team.

4.2.1 Pre-Test Procedures

Prior to traveling to Oregon to run the validation suite, the validation team performed a pre-validation review of the Verdix VADS compiler. The validation team received a magnetic tape from Verdix containing the ACVC Version 1.5 test results of the compiler. The contents of the magnetic tape were loaded onto a VAX-11/780 operating under VMS at Wright-Patterson AFB, Ohio. The pre-validation test results from the VAX-11/780 ULTRIX were used as a baseline to check the Sun Microsystems Model 2/120 pre-validation results. The VAX DIFFERENCES utility was used to identify differences between the VAX-11/780 ULTRIX and Sun pre-validations. Tests with differences were examined individually to determine the acceptability of the test results.

Prior to testing, appropriate values for the compiler-dependent parameters were received from Verdix. These values were used to adapt tests that depend on the values. The 21 Class B tests requiring splits were split as in the pre-validation. Magnetic tapes containing the ACVC 1.5 test suite, including the adapted tests and the Class B split tests, were prepared and brought to the testing site.

CHAPTER 4

ADDITIONAL INFORMATION

This section describes in more detail how the validation was conducted.

4.1 COMPILER PARAMETERS

Certain tests do not apply to all Ada compilers; for example, compilers are not required to support several predefined floating point types; therefore, tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum input source line length allowed by an implementation, the maximum floating point precision supported, etc. The implementation-dependent parameters used in performing this validation were:

- . maximum lexical element length: 500
- . maximum digits value for floating point types: 9
- . SYSTEM.MIN_INT: -2_147_483_648
- . SYSTEM.MAX_INT: 2_147_483_647
- . predefined numeric types:
 - FLOAT, INTEGER, SHORT_INTEGER, SHORT_FLOAT,
 - TINY_INTEGER
- . INTEGER'FIRST: -2_147_483_648
- . INTEGER'LAST: 2_147_483_647
- . source character set: ASCII
- . extended ASCII characters:
 - "abcdefghijklmnopqrstuvwxyz!\$%?'@[]^`{}~"

CHAPTER 3

COMPILER NONCONFORMANCES

There were no nonconformances to the Ada Standard detected in this validation. The compiler passed all applicable correct tests.

2.6.1 Class L Test Procedures

Each Class L test is separately compiled, and linking is attempted. The tests produce FAIL messages if executed.

2.6.2 Class L Test Results

Of the nine Class L tests, none were found to be inapplicable to this implementation, and none of the tests were withdrawn due to errors in the tests. All nine Class L tests passed.

2.7 SUPPORT UNITS

Three support packages are compiled to be used by the rest of the ACVC tests. The CHECK FILE package is used by many of the chapter 14 tests to check the contents of a text file. The REPORT package provides the mechanism for reporting pass/fail/nonapplicable results of executable tests. The VAR STRINGS package defines types and routines for manipulating varying-length character strings. The seven CZ tests check the functions and procedures specified by the three support packages.

2.7.1 Support Unit Test Procedures

Each of the three support packages is separately compiled. The CZ tests are compiled and executed to check the functions and procedures specified by the three support packages.

2.7.2 Support Unit Test Results

All three support packages compiled and passed. The seven CZ tests were compiled and execution results showed that the support tests passed.

Validation Summary Report
Test Analysis

2.4 CLASS D TESTING

Class D tests are executable tests used to check an implementation's compilation and execution capacities. All fourteen Class D tests were processed for this implementation.

2.4.1 Class D Test Procedures

Each Class D test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages.

2.4.2 Class D Test Results

All the 14 Class D tests passed. None of the tests were withdrawn or inapplicable. See section 4.2.7 for further information.

2.5 CLASS E TESTING

Class E tests are executable tests that provide information about an implementer's interpretation of the Standard in areas where the Standard permits implementations to differ. Each test has its own PASS/FAIL criterion. All seven Class E tests were processed for this implementation.

2.5.1 Class E Test Procedures

Each Class E test is separately compiled and executed. The tests are self-checking and produce commentary and PASS/FAIL messages.

2.5.2 Class E Test Results

All seven Class E tests passed. See section 4.2.7 for further information.

2.6 CLASS L TESTING

Class L tests check to ensure that incomplete or illegal Ada programs involving multiple, separately compiled source files are not allowed to execute. All nine Class L tests were processed for this implementation.

Because all errors were not detected when compiling the original tests, the following 21 tests were modified by removing the detected errors:

B24104A.ADA	B43202A-B.ADA	B910ABA-B.ADA
B24104B.ADA	B43202B-B.ADA	B95001A.ADA
B24104C.ADA	B44001A-B.ADA	B95007B.ADA
B33004A.ADA	B48002A-B.ADA	B97101A-AB.ADA
B37201A.ADA	B64001A-B.ADA	B97101E-AB.ADA
B38008A.ADA	B64004A.ADA	B97102A-AB.ADA
B41202A.ADA	B67001A-B.ADA	B97103E-AB.ADA

For the modified tests, all illegal constructs were detected. See section 4.2.7 for further information.

2.3 CLASS C TESTING

Class C tests check to ensure that legal Ada programs are correctly compiled and executed by an implementation. 923 of the 1200 Class C tests were processed for this implementation. 201 Class C tests, not applicable to this implementation because of the value of SYSTEM.MAX DIGITS, were not processed. 76 tests were withdrawn because of errors in the tests.

2.3.1 Class C Test Procedures

Each Class C test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages. Any "failed" tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada Standard are withdrawn.

2.3.2 Class C Test Results

Of the 1200 Class C tests, 923 Class C tests were processed in this validation. 201 Class C tests, not applicable to this implementation because of the value of SYSTEM.MAX DIGITS, were not processed. 76 tests were withdrawn because of errors in the tests (see section 4.2.5). Eight of the processed tests were determined to be inapplicable to this implementation (see section 4.2.6). The remaining 915 tests passed. See section 4.2.7 for further information.

Validation Summary Report
Complete List of Tests and Results

A file name ending with .TST means the test depends on one or more of the implementation-dependent parameters listed in section 4.1. A file name ending with .DEP means the test is not necessarily applicable to all implementations.

The result for each file is also given, where:

P = passed.
F = failed.
N/A = not applicable to this implementation.
W = withdrawn due to test errors.
C = compiled without error.

Indented names are separately compiled units (subtests) of the test under which they appear. A sequence of indented subtest names comprise one test for reporting purposes.

The results for each test file were as follows:

Support Units

CHECK FILE-B	P
REPORT	P
REPORT BODY-B	C
REPORT SPEC-AB	C
VAR STRINGS	P
VAR STRINGS SPEC	C
VAR STRINGS BODY	C
CZ1101A-AB.ADA	P
CZ1102A-AB.ADA	P
CZ1103A-B.ADA	P
CZ1201A-AB.ADA	P
CZ1201B-AB.ADA	P
CZ1201C-AB.ADA	P
CZ1201D-AB.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 2

A21001A.ADA	P	B23002A.ADA	P	C24113C-B.DEP	P
A22002A.ADA	P	B23003D-AB.TST	P	C24113D-B.DEP	P
A26004A.TST	P	B23003E-AB.TST	P	C24113E-B.DEP	P
A29002A-B.ADA	P	B23003F-AB.TST	P	C24113F-B.DEP	N/A
A29002B-B.ADA	P	B23004A.ADA	P	C24113G-B.DEP	N/A
A29002C-B.ADA	P	B23004B.ADA	P	C24113H-B.DEP	N/A
A29002D-B.ADA	P	B24001A.ADA	P	C24113I-B.DEP	N/A
A29002E-B.ADA	P	B24001B.ADA	P	C24113J-B.DEP	N/A
A29002F-B.ADA	P	B24001C.ADA	P	C24113K-B.DEP	N/A
A29002G-B.ADA	P	B24005A.ADA	P	C24113L-B.DEP	N/A
A29002H-B.ADA	P	B24005B.ADA	P	C24113M-B.DEP	N/A
A29002I-B.ADA	P	B24104A.ADA	P	C24113N-B.DEP	N/A
A29002J-B.ADA	P	B24104B.ADA	P	C24113O-B.DEP	N/A
B22001A-AB.TST	P	B24104C.ADA	P	C24113P-B.DEP	N/A
B22001B-AB.TST	P	B26002A.ADA	P	C24113Q-B.DEP	N/A
B22001C-AB.TST	P	B26005A.ADA	P	C24113R-B.DEP	N/A
B22001D-AB.TST	P	B29001A-B.ADA	P	C24113S-B.DEP	N/A
B22001E-AB.TST	P	C23001A.ADA	P	C24113T-B.DEP	N/A
B22001F-AB.TST	P	C23003A.TST	P	C24113U-B.DEP	N/A
B22001G-AB.TST	P	C24002A.ADA	P	C24113V-B.DEP	N/A
B22001H-AB.ADA	P	C24002B.ADA	P	C24113W-B.DEP	N/A
B22001I-AB.TST	P	C24002C.ADA	P	C24113X-B.DEP	N/A
B22001J-AB.TST	P	C24003A.TST	P	C24113Y-B.DEP	N/A
B22001K-AB.TST	P	C24003B.TST	P	C26002B.ADA	P
B22001L-AB.TST	P	C24003C.TST	P	C26006A-AB.ADA	P
B22001M-AB.TST	P	C24102A.ADA	P	C26008A-AB.ADA	P
B22001N-AB.TST	P	C24102B.ADA	P	C27001A-AB.ADA	P
B22003A.ADA	P	C24102C.ADA	P	C27002A-B.ADA	P
B22004A.ADA	P	C24103A.ADA	P	D29002K-B.ADA	P
B22004B.ADA	P	C24113A-B.DEP	P	E24101A-B.TST	P
B22004C.ADA	P	C24113B-B.DEP	P		

Validation Summary Report
Complete List of Tests and Results

Chapter 3

A32203B-B.A	P	B37004G-B.ADA	P	C34001Q-B.ADA	P
A32203C-B.ADA	P	B37101A.ADA	P	C34001R-B.ADA	P
A32203D-B.ADA	P	B37201A.ADA	P	C34001T-B.ADA	P
A34008B-B.ADA	P	B37202A.ADA	P	C34002A-B.ADA	P
A38106D-B.ADA	P	B37202B.ADA	P	C34002B-B.ADA	P
A38106E-B.ADA	P	B37203A.ADA	P	C35104A.ADA	P
B32103A-AB.ADA	P	B37204A-AB.ADA	P	C35504A-AB.ADA	P
B32106A-B.ADA	P	B37205A-AB.ADA	P	C35504B-B.ADA	P
B32201A-B.ADA	P	B37301A.ADA	P	C35505A.ADA	P
B32202A-B.ADA	P	B37301B.ADA	P	C35505B.ADA	P
B32202B-B.ADA	P	B37302A-AB.ADA	P	C35508A-AB.ADA	P
B32202C-B.ADA	P	B37303A.ADA	P	C35508B-B.ADA	P
B33001A.ADA	P	B37307B-AB.ADA	P	C35702A-AB.DEP	P
B33002A.ADA	P	B37309B-AB.ADA	P	C35702B-AB.DEP	N/A
B33003A.ADA	P	B37310B-B.ADA	P	C35703A.ADA	P
B33003B-AB.ADA	P	B37311A-AB.ADA	P	C35704A-AB.ADA	P
B33003C-AB.ADA	P	B38001A.ADA	P	C35704B-AB.ADA	P
B33004A.ADA	P	B38003A-AB.ADA	P	C35704C-AB.ADA	P
B33006A-B.ADA	P	B38008A-B.ADA	P	C35704D-AB.ADA	P
B34001S-AB.ADA	P	B38008B-AB.ADA	P	C35705A-B.DEP	P
B34008A-B.ADA	P	B38101A-B.ADA	P	C35705B-B.DEP	P
B35101A.ADA	P	B38101B-AB.ADA	P	C35705C-B.DEP	P
B35301A.ADA	P	B38103A-B.ADA	P	C35705D-B.DEP	P
B35501A.ADA	P	B38103B-B.ADA	P	C35705E-B.DEP	P
B35506A.ADA	P	B38103C-B.ADA	P	C35705F-B.DEP	N/A
B35506B.ADA	P	B38103C0	C	C35705G-B.DEP	N/A
B35701A.TST	P	B38103C1	C	C35705H-B.DEP	N/A
B35709A.ADA	P	B38103C2	C	C35705I-B.DEP	N/A
B35A03A-B.ADA	P	B38103C3M	C	C35705J-B.DEP	N/A
B36101A-AB.ADA	P	B38105A-AB.ADA	P	C35705K-B.DEP	N/A
B36102A.ADA	P	B38105B-AB.ADA	P	C35705L-B.DEP	N/A
B36103A.ADA	P	B38106A-B.ADA	P	C35705M-B.DEP	N/A
B36105A-B.ADA	P	B38106B-B.ADA	P	C35705N-B.DEP	N/A
B36171A-B.ADA	P	C32107B-B.ADA	P	C35705O-B.DEP	N/A
B36171B-B.ADA	P	C32203A-B.ADA	P	C35705P-B.DEP	N/A
B36171C-AB.ADA	P	C34001A-B.ADA	P	C35705Q-B.DEP	N/A
B36171D-AB.ADA	P	C34001B-B.ADA	P	C35705R-B.DEP	N/A
B36171E-AB.ADA	P	C34001C-B.ADA	P	C35705S-B.DEP	N/A
B36171F-AB.ADA	P	C34001D-B.DEP	P	C35705T-B.DEP	N/A
B36171G-AB.ADA	P	C34001E-B.DEP	N/A	C35705U-B.DEP	N/A
B36171H-AB.ADA	P	C34001F-B.DEP	P	C35705V-B.DEP	N/A
B36171I-AB.ADA	P	C34001G-B.DEP	N/A	C35705W-B.DEP	N/A
B36201A-B.ADA	P	C34001H-B.ADA	P	C35705X-B.DEP	N/A
B37003A-AB.ADA	P	C34001I-B.ADA	P	C35705Y-B.DEP	N/A
B37004A-B.ADA	P	C34001K-B.ADA	P	C35706A-B.DEP	P
B37004B-B.ADA	P	C34001L-B.ADA	P	C35706B-B.DEP	P
B37004C-B.ADA	P	C34001M-B.ADA	P	C35706C-B.DEP	P
B37004D-B.ADA	P	C34001N-B.ADA	P	C35706D-B.DEP	P
B37004E-B.ADA	P	C34001O-B.ADA	P	C35706E-B.DEP	P
B37004F-B.ADA	P	C34001P-B.ADA	P	C35706F-B.DEP	N/A

Validation Summary Report
Complete List of Tests and Results

Chapter 3 (Continued)

C35706G-B.DEP	N/A	C35708E-B.DEP	P	C36172A-B.ADA	P
C35706H-B.DEP	N/A	C35708F-B.DEP	N/A	C36174A-B.ADA	P
C35706I-B.DEP	N/A	C35708G-B.DEP	N/A	C36204A-B.ADA	P
C35706J-B.DEP	N/A	C35708H-B.DEP	N/A	C36205A.ADA	P
C35706K-B.DEP	N/A	C35708I-B.DEP	N/A	C36205B.ADA	P
C35706L-B.DEP	N/A	C35708J-B.DEP	N/A	C36205C.ADA	P
C35706M-B.DEP	N/A	C35708K-B.DEP	N/A	C36205D.ADA	P
C35706N-B.DEP	N/A	C35708L-B.DEP	N/A	C36205E.ADA	P
C35706O-B.DEP	N/A	C35708M-B.DEP	N/A	C36205F.ADA	P
C35706P-B.DEP	N/A	C35708N-B.DEP	N/A	C36205G.ADA	P
C35706Q-B.DEP	N/A	C35708O-B.DEP	N/A	C36205H.ADA	P
C35706R-B.DEP	N/A	C35708P-B.DEP	N/A	C36205I.ADA	P
C35706S-B.DEP	N/A	C35708Q-B.DEP	N/A	C36205J.ADA	P
C35706T-B.DEP	N/A	C35708R-B.DEP	N/A	C36205K.ADA	P
C35706U-B.DEP	N/A	C35708S-B.DEP	N/A	C36301A-B.ADA	P
C35706V-B.DEP	N/A	C35708T-B.DEP	N/A	C36301B-AB.ADA	P
C35706W-B.DEP	N/A	C35708U-B.DEP	N/A	C36302A.ADA	P
C35706X-B.DEP	N/A	C35708V-B.DEP	N/A	C36303A.ADA	P
C35706Y-B.DEP	N/A	C35708W-B.DEP	N/A	C36304A-B.ADA	P
C35707A-B.DEP	P	C35708X-B.DEP	N/A	C36305A-AB.ADA	P
C35707B-B.DEP	P	C35708Y-B.DEP	N/A	C37005A.ADA	P
C35707C-B.DEP	P	C35711A-B.ADA	P	C37007A-AB.ADA	P
C35707D-B.DEP	P	C35802A-B.DEP	P	C37008A-B.ADA	P
C35707E-B.DEP	P	C35802B-B.DEP	P	C37008B-B.ADA	P
C35707F-B.DEP	N/A	C35802C-B.DEP	P	C37011A-B.ADA	P
C35707G-B.DEP	N/A	C35802D-B.DEP	P	C37012A-AB.ADA	P
C35707H-B.DEP	N/A	C35802E-B.DEP	P	C37013A-AB.ADA	P
C35707I-B.DEP	N/A	C35802F-B.DEP	N/A	C37103A-AB.ADA	P
C35707J-B.DEP	N/A	C35802G-B.DEP	N/A	C37105A.ADA	P
C35707K-B.DEP	N/A	C35802H-B.DEP	N/A	C37208A-B.ADA	P
C35707L-B.DEP	N/A	C35802I-B.DEP	N/A	C37208B-AB.ADA	P
C35707M-B.DEP	N/A	C35802J-B.DEP	N/A	C37209A.ADA	P
C35707N-B.DEP	N/A	C35802K-B.DEP	N/A	C37304A-AB.ADA	P
C35707O-B.DEP	N/A	C35802L-B.DEP	N/A	C37305A.ADA	P
C35707P-B.DEP	N/A	C35802M-B.DEP	N/A	C37306A.ADA	P
C35707Q-B.DEP	N/A	C35802N-B.DEP	N/A	C37307A-AB.ADA	P
C35707R-B.DEP	N/A	C35802O-B.DEP	N/A	C37309A-AB.ADA	P
C35707S-B.DEP	N/A	C35802P-B.DEP	N/A	C37310A-AB.ADA	P
C35707T-B.DEP	N/A	C35802Q-B.DEP	N/A	C38004A.ADA	P
C35707U-B.DEP	N/A	C35802R-B.DEP	N/A	C38005A-B.ADA	P
C35707V-B.DEP	N/A	C35802S-B.DEP	N/A	C38006A-B.ADA	P
C35707W-B.DEP	N/A	C35802T-B.DEP	N/A	C38007A-B.ADA	P
C35707X-B.DEP	N/A	C35802U-B.DEP	N/A	C38102A-AB.ADA	P
C35707Y-B.DEP	N/A	C35802V-B.DEP	N/A	C38102B-B.ADA	P
C35708A-B.DEP	P	C35802W-B.DEP	N/A	C38102C-B.ADA	P
C35708B-B.DEP	P	C35802X-B.DEP	N/A	C38104A-B.ADA	W
C35708C-B.DEP	P	C35802Y-B.DEP	N/A	E36202A-B.ADA	P
C35708D-B.DEP	P	C35904A-B.ADA	P	E36202B-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 4

B41101A-B.A	P	B45208A-AB.ADA	P	C41303G-B.ADA	P
B41101C-AB.ADA	P	B45208B-B.ADA	P	C41303I-B.ADA	P
B41102A-AB.ADA	P	B45208C-B.ADA	P	C41303J-B.ADA	P
B41102B-B.ADA	P	B45208G-AB.ADA	P	C41303K-B.ADA	P
B41102C-B.ADA	P	B45208H-B.ADA	P	C41303M-B.ADA	P
B41201A-B.ADA	P	B45208I-B.ADA	P	C41303N-B.ADA	P
B41201C.ADA	P	B45208M-AB.ADA	P	C41303O-B.ADA	P
B41202A-B.ADA	P	B45208N-AB.ADA	P	C41303Q-B.ADA	P
B41202B-AB.ADA	P	B45208S-AB.ADA	P	C41303R-B.ADA	P
B41202C-B.ADA	P	B45208T-AB.ADA	P	C41303S-B.ADA	P
B41202D-B.ADA	P	B45261A-AB.ADA	P	C41303U-B.ADA	P
B41302A-AB.ADA	P	B45261B-AB.ADA	P	C41303V-B.ADA	P
B41302B-AB.ADA	P	B45261C-AB.ADA	P	C41303W-B.ADA	P
B42004A-B.ADA	P	B45261D-AB.ADA	P	C41304A-B.ADA	P
B43101A-B.ADA	P	B45402A.ADA	P	C41306A-B.ADA	P
B43201A-B.ADA	P	B45522A.ADA	P	C41306B-B.ADA	P
B43201B-B.ADA	P	B45533A-AB.ADA	P	C41306C-B.ADA	P
B43201C-B.ADA	P	B48001A-B.ADA	P	C42005A-B.ADA	P
B43201D-B.ADA	P	B48001B-B.ADA	P	C42006A-B.ADA	P
B43202A-B.ADA	P	B48001C-AB.ADA	P	C43103A-B.ADA	P
B43202B-B.ADA	P	B48001D-B.ADA	P	C43103B-B.ADA	W
B43202C-B.ADA	P	B48002A-B.ADA	P	C43107A-B.ADA	P
B43203A-B.ADA	P	B48002B-AB.ADA	P	C43205A-B.ADA	P
B43203B-B.ADA	P	B48002C-B.ADA	P	C43205B-B.ADA	P
B44001A-B.ADA	P	B48002D-B.ADA	P	C43205C-B.ADA	P
B44002A-B.ADA	P	B48002E-AB.ADA	P	C43205D-B.ADA	P
B44002B-B.ADA	P	B48002F-AB.ADA	P	C43205E-B.ADA	P
B44002C.ADA	P	B48002G-AB.ADA	P	C43205F-B.ADA	P
B45102A-AB.ADA	P	B48002I-B.ADA	P	C43205G-B.ADA	P
B45203A.ADA	P	B48002J-B.ADA	P	C43205H-B.ADA	P
B45203B-AB.ADA	P	B4A006A-B.ADA	P	C43205I-B.ADA	P
B45205A-AB.ADA	P	B4A016A.ADA	P	C43205J-B.ADA	P
B45206A-AB.ADA	P	C41101D-B.ADA	P	C43205K-B.ADA	P
B45206B-B.ADA	P	C41103A-B.ADA	P	C43206A-B.ADA	W
B45207A-AB.ADA	P	C41103B-B.ADA	P	C43207A-B.ADA	W
B45207B-B.ADA	P	C41105A-B.ADA	P	C43207B-B.ADA	W
B45207C-B.ADA	P	C41106A-B.ADA	P	C43207C-B.ADA	P
B45207D-B.ADA	P	C41107A-AB.ADA	P	C43207D-B.ADA	P
B45207G-B.ADA	P	C41201D-B.ADA	P	C43208A-B.ADA	P
B45207H-B.ADA	P	C41203A-B.ADA	P	C43208B-B.ADA	P
B45207I-B.ADA	P	C41203B-B.ADA	P	C43210A-B.ADA	P
B45207J-B.ADA	P	C41204A.ADA	P	C43211A-B.ADA	P
B45207M-AB.ADA	P	C41205A-B.ADA	P	C43212A-B.ADA	P
B45207N-AB.ADA	P	C41206A.ADA	P	C43212C-B.ADA	P
B45207O-AB.ADA	P	C41301A-B.ADA	P	C43213A-B.ADA	P
B45207P-B.ADA	P	C41303A-B.ADA	P	C43214A-B.ADA	W
B45207S-AB.ADA	P	C41303B-B.ADA	P	C43214B-B.ADA	P
B45207T-AB.ADA	P	C41303C-B.ADA	P	C43214C-B.ADA	P
B45207U-AB.ADA	P	C41303E-B.ADA	P	C43214D-B.ADA	P
B45207V-B.ADA	P	C41303F-B.ADA	P	C43214E-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 4 (Continued)

C43214F-B.ADA	P	C45241Y-B.DEP	N/A	C454210-B.DEP	N/A
C43215A-B.ADA	P	C45264A-B.ADA	P	C45421P-B.DEP	N/A
C43215B-B.ADA	P	C45274A-AB.ADA	P	C45421Q-B.DEP	N/A
C45101A.ADA	P	C45274B-AB.ADA	P	C45421R-B.DEP	N/A
C45101B.ADA	P	C45274C-AB.ADA	P	C45421S-B.DEP	N/A
C45101C.ADA	P	C45303A-B.ADA	P	C45421T-B.DEP	N/A
C45101E.ADA	P	C45321A-B.DEP	W	C45421U-B.DEP	N/A
C45101G-AB.ADA	P	C45321B-B.DEP	W	C45421V-B.DEP	N/A
C45101H-AB.ADA	P	C45321C-B.DEP	W	C45421W-B.DEP	N/A
C45101I.ADA	P	C45321D-B.DEP	W	C45421X-B.DEP	N/A
C45103A-AB.ADA	P	C45321E-B.DEP	W	C45421Y-B.DEP	N/A
C45103B-AB.ADA	P	C45321F-B.DEP	W	C45424A-B.DEP	P
C45103C-AB.ADA	P	C45321G-B.DEP	W	C45424B-B.DEP	P
C45104A.ADA	P	C45321H-B.DEP	W	C45424C-B.DEP	P
C45105A-AB.ADA	P	C45321I-B.DEP	W	C45424D-B.DEP	P
C45105B-B.ADA	P	C45321J-B.DEP	W	C45424E-B.DEP	P
C45106A.ADA	P	C45321K-B.DEP	W	C45424F-B.DEP	N/A
C45201A.ADA	P	C45321L-B.DEP	W	C45424G-B.DEP	N/A
C45201B.ADA	P	C45321M-B.DEP	W	C45424H-B.DEP	N/A
C45202A-AB.ADA	P	C45321N-B.DEP	W	C45424I-B.DEP	N/A
C45210A.ADA	P	C45321O-B.DEP	W	C45424J-B.DEP	N/A
C45220A.ADA	P	C45321P-B.DEP	W	C45424K-B.DEP	N/A
C45220B.ADA	P	C45321Q-B.DEP	W	C45424L-B.DEP	N/A
C45220C.ADA	P	C45321R-B.DEP	W	C45424M-B.DEP	N/A
C45220D.ADA	P	C45321S-B.DEP	W	C45424N-B.DEP	N/A
C45220E-B.ADA	P	C45321T-B.DEP	W	C45424O-B.DEP	N/A
C45241A-B.DEP	P	C45321U-B.DEP	W	C45424P-B.DEP	N/A
C45241B-B.DEP	P	C45321V-B.DEP	W	C45424Q-B.DEP	N/A
C45241C-B.DEP	P	C45321W-B.DEP	W	C45424R-B.DEP	N/A
C45241D-B.DEP	P	C45321X-B.DEP	W	C45424S-B.DEP	N/A
C45241E-B.DEP	P	C45321Y-B.DEP	W	C45424T-B.DEP	N/A
C45241F-B.DEP	N/A	C45345A-AB.ADA	P	C45424U-B.DEP	N/A
C45241G-B.DEP	N/A	C45345B-AB.ADA	P	C45424V-B.DEP	N/A
C45241H-B.DEP	N/A	C45401A.ADA	P	C45424W-B.DEP	N/A
C45241I-B.DEP	N/A	C45401B-AB.ADA	P	C45424X-B.DEP	N/A
C45241J-B.DEP	N/A	C45413A-B.ADA	P	C45424Y-B.DEP	N/A
C45241K-B.DEP	N/A	C45421A-B.DEP	P	C45505A-B.ADA	P
C45241L-B.DEP	N/A	C45421B-B.DEP	P	C45521A-B.DEP	W
C45241M-B.DEP	N/A	C45421C-B.DEP	P	C45521B-B.DEP	W
C45241N-B.DEP	N/A	C45421D-B.DEP	P	C45521C-B.DEP	W
C45241O-B.DEP	N/A	C45421E-B.DEP	P	C45521D-B.DEP	W
C45241P-B.DEP	N/A	C45421F-B.DEP	N/A	C45521E-B.DEP	W
C45241Q-B.DEP	N/A	C45421G-B.DEP	N/A	C45521F-B.DEP	W
C45241R-B.DEP	N/A	C45421H-B.DEP	N/A	C45521G-B.DEP	W
C45241S-B.DEP	N/A	C45421I-B.DEP	N/A	C45521H-B.DEP	W
C45241T-B.DEP	N/A	C45421J-B.DEP	N/A	C45521I-B.DEP	W
C45241U-B.DEP	N/A	C45421K-B.DEP	N/A	C45521J-B.DEP	W
C45241V-B.DEP	N/A	C45421L-B.DEP	N/A	C45521K-B.DEP	W
C45241W-B.DEP	N/A	C45421M-B.DEP	N/A	C45521L-B.DEP	W
C45241X-B.DEP	N/A	C45421N-B.DEP	N/A	C45521M-B.DEP	W

Validation Summary Report
Complete List of Tests and Results

Chapter 4 (Continued)

C45521N-B.DEP	W	C45621H.DEP	N/A	C48003C-B.ADA	P
C45521O-B.DEP	W	C45621I.DEP	N/A	C48003D-B.ADA	P
C45521P-B.DEP	W	C45621J.DEP	N/A	C48003E-B.ADA	P
C45521Q-B.DEP	W	C45621K.DEP	N/A	C48003F.ADA	P
C45521R-B.DEP	W	C45621L.DEP	N/A	C48003G-B.ADA	P
C45521S-B.DEP	W	C45621M.DEP	N/A	C48004A-B.ADA	P
C45521T-B.DEP	W	C45621N.DEP	N/A	C48005A-B.ADA	P
C45521U-B.DEP	W	C45621O.DEP	N/A	C48005B-B.ADA	P
C45521V-B.DEP	W	C45621P.DEP	N/A	C48005C-AB.ADA	P
C45521W-B.DEP	W	C45621Q.DEP	N/A	C48005D-AB.ADA	P
C45521X-B.DEP	W	C45621R.DEP	N/A	C4A001A.ADA	P
C45521Y-B.DEP	W	C45621S.DEP	N/A	C4A003A.ADA	P
C45521Z-B.DEP	W	C45621T.DEP	N/A	C4A010A-B.ADA	P
C45526A-B.ADA	P	C45621U.DEP	N/A	C4A011A.ADA	P
C45621A.DEP	P	C45621V.DEP	N/A	C4A013A.ADA	P
C45621B.DEP	P	C45621W.DEP	N/A	D4A002A-AB.ADA	P
C45621C.DEP	P	C45621X.DEP	N/A	D4A002B.ADA	P
C45621D.DEP	P	C45621Y.DEP	N/A	D4A004A-AB.ADA	P
C45621E.DEP	P	C45621Z.DEP	N/A	D4A004B.ADA	P
C45621F.DEP	N/A	C48003A-B.ADA	P	E43211B-B.ADA	P
C45621G.DEP	N/A	C48003B-B.ADA	P	E43212B-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 5

A54B01A-B.A	P	B54A21A-B.ADA	P	B57001A-AB.ADA	P
A54B02A-B.ADA	P	B54A25A-B.ADA	P	B57001B-B.ADA	P
A55B12A-AB.ADA	P	B54A27B-AB.ADA	P	B57001C-AB.ADA	P
A55B13A-AB.ADA	P	B54A27D-AB.ADA	P	B57001D-AB.ADA	P
A55B14A-AB.ADA	P	B54B01B-B.TST	P	B58001A-AB.ADA	P
B51001A-AB.ADA	P	B54B01C-B.ADA	P	B58002A-B.ADA	P
B51003A-AB.ADA	P	B54B02B-B.ADA	P	B58002B-AB.ADA	P
B51004B-B.ADA	P	B54B02C-B.ADA	P	B58002C-AB.ADA	P
B51004C-B.ADA	P	B54B02D-B.ADA	P	B58003A-B.ADA	P
B52002A-B.ADA	P	B54B04A-AB.ADA	P	B58003B-AB.ADA	P
B52002B-AB.ADA	P	B54B04B-AB.ADA	P	B59001A-AB.ADA	P
B52002C-AB.ADA	P	B54B05A-AB.ADA	P	B59001C-AB.ADA	P
B52002D-AB.ADA	P	B55A01A-AB.ADA	P	B59001D-AB.ADA	P
B52002E-AB.ADA	P	B55A01B-AB.ADA	P	B59001E-AB.ADA	P
B52002F-B.ADA	P	B55A01C-AB.ADA	P	B59001F-AB.ADA	P
B52002G-AB.ADA	P	B55A01D-AB.ADA	P	B59001G-AB.ADA	P
B52003A-AB.ADA	P	B55A01E-AB.ADA	P	B59001H-AB.ADA	P
B52003B-AB.ADA	P	B55A01F-AB.ADA	P	B59001I-AB.ADA	P
B52003C-AB.ADA	P	B55A01G-AB.ADA	P	C51002A-AB.ADA	P
B52004A-B.ADA	P	B55A01H-AB.ADA	P	C51004A-B.ADA	P
B52004B-AB.ADA	P	B55A01I-AB.ADA	P	C52001A-B.ADA	P
B52004C-AB.ADA	P	B55A01J-AB.ADA	P	C52001B-AB.ADA	W
B52004D-AB.DEP	N/A	B55A01K-AB.ADA	P	C52001C-AB.ADA	P
B52004E-AB.DEP	P	B55A01L-AB.ADA	P	C52005A-AB.ADA	P
B52006A-AB.ADA	P	B55A01M-AB.ADA	P	C52005B-AB.ADA	P
B53001A-AB.ADA	P	B55A01N-AB.ADA	P	C52005C-AB.ADA	P
B53001B-AB.ADA	P	B55A01O-AB.ADA	P	C52005D-AB.ADA	P
B53002A-AB.ADA	P	B55A01P-AB.ADA	P	C52005E-AB.ADA	P
B53002B-AB.ADA	P	B55A01Q-AB.ADA	P	C52005F-AB.ADA	P
B53003A-AB.ADA	P	B55A01R-AB.ADA	P	C52007A-B.ADA	W
B53004A-AB.ADA	P	B55A01S-AB.ADA	P	C52008A-AB.ADA	P
B53009A-AB.ADA	P	B55A01T-AB.ADA	P	C52008B-B.ADA	P
B53009B-AB.ADA	P	B55A01U-AB.ADA	P	C52009A-B.ADA	P
B53009C-AB.ADA	P	B55A01V-AB.ADA	P	C52009B-B.ADA	P
B54A01A-AB.ADA	P	B55B01A-AB.ADA	P	C52010A-AB.ADA	P
B54A01B-AB.ADA	P	B55B01B-AB.ADA	P	C52011A-B.ADA	P
B54A01C-AB.ADA	P	B55B09B-AB.ADA	P	C52011B-AB.ADA	P
B54A01D-AB.ADA	P	B55B09C-AB.DEP	N/A	C52102A-AB.ADA	W
B54A01E-AB.ADA	P	B55B09D-AB.DEP	P	C52102B-AB.ADA	W
B54A01F-AB.ADA	P	B55B12B-B.ADA	P	C52103A-AB.ADA	P
B54A01G-AB.ADA	P	B55B12C-AB.ADA	P	C52103B-AB.ADA	P
B54A01H-AB.ADA	P	B55B14B-B.ADA	P	C52103C-AB.ADA	P
B54A01I-AB.ADA	P	B55B18A-B.ADA	P	C52103F-AB.ADA	P
B54A01J-AB.ADA	P	B56001A-AB.ADA	P	C52103G-AB.ADA	P
B54A01K-AB.ADA	P	B56001C-AB.ADA	P	C52103H-AB.ADA	P
B54A01L-AB.ADA	P	B56001D-AB.ADA	P	C52103K-AB.ADA	P
B54A05A.ADA	P	B56001E-AB.ADA	P	C52103L-AB.ADA	P
B54A05B.ADA	P	B56001F-AB.ADA	P	C52103M-AB.ADA	P
B54A08A-B.ADA	P	B56001G-AB.ADA	P	C52103P-AB.ADA	P
B54A20A.ADA	P	B56001H-AB.ADA	P	C52103Q-AB.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 5 (Continued)

C52103R-AB.ADA	P	C54A24B.ADA	P	C57003A-AB.ADA	P
C52103S-B.ADA	P	C54A26A.ADA	P	C57004A-AB.ADA	P
C52103X-B.ADA	W	C54A27A-AB.ADA	P	C57004B-AB.ADA	P
C52104A-AB.ADA	P	C54A41A.ADA	P	C57004C-AB.ADA	P
C52104B-AB.ADA	P	C54A42A.ADA	P	C57005A-B.ADA	P
C52104C-AB.ADA	P	C54A42B.ADA	P	C58004A-AB.ADA	P
C52104F-AB.ADA	P	C54A42C.ADA	P	C58004B-AB.ADA	P
C52104G-AB.ADA	P	C54A42D.ADA	P	C58004C-AB.ADA	P
C52104H-AB.ADA	P	C54A42E.ADA	P	C58004D-B.ADA	P
C52104K-AB.ADA	P	C54A42F.ADA	P	C58004F-AB.ADA	P
C52104L-AB.ADA	P	C54A42G.ADA	P	C58004G-AB.ADA	P
C52104M-AB.ADA	P	C55B03A-AB.ADA	P	C58005A-AB.ADA	P
C52104P-AB.ADA	P	C55B04A-AB.ADA	P	C58005B-AB.ADA	P
C52104Q-AB.ADA	P	C55B05A-AB.ADA	P	C58005H-AB.ADA	P
C52104R-AB.ADA	P	C55B06A-AB.ADA	P	C58006A-AB.ADA	P
C52104X-B.ADA	P	C55B06B-AB.ADA	P	C58006B-AB.ADA	P
C52104Y-B.ADA	P	C55B07A-AB.DEP	N/A	C59001B-AB.ADA	P
C53004B-B.ADA	P	C55B07B-AB.DEP	P	C59002A-AB.ADA	P
C53005A-AB.ADA	P	C55B08A-B.ADA	P	C59002B-AB.ADA	P
C53005B-AB.ADA	P	C55B09A-AB.ADA	P	C59002C-B.ADA	P
C53006A-AB.ADA	P	C55B15A-B.ADA	W	D55A03A-AB.ADA	P
C53006B-AB.ADA	P	C55B16A-AB.DEP	P	D55A03B-AB.ADA	P
C53007A-AB.ADA	P	C55C01A-B.ADA	P	D55A03C-AB.ADA	P
C53008A-AB.ADA	P	C55C02A-AB.ADA	P	D55A03D-AB.ADA	P
C54A03A.ADA	P	C55C02B-AB.ADA	P	D55A03E-AB.ADA	P
C54A04A-AB.ADA	P	C55C03A-AB.ADA	P	D55A03F-AB.ADA	P
C54A06A-AB.ADA	P	C55C03B-AB.ADA	P	D55A03G-AB.ADA	P
C54A07A-AB.ADA	P	C55D01A-AB.ADA	P	D55A03H-AB.ADA	P
C54A22A-AB.ADA	P	C56002A-AB.ADA	P	D56001B-AB.ADA	P
C54A23A-B.ADA	P	C57002A-AB.ADA	P	E52103Y-B.ADA	P
C54A24A-AB.ADA	P				

Validation Summary Report
Complete List of Tests and Results

Chapter 6

A62006D-B.A	P	B63009C3M	C	C64104F-AB.ADA	P
B61001A-AB.ADA	P	B63102A-B.ADA	P	C64104G-AB.ADA	P
B61001B-AB.ADA	P	B64001A-B.ADA	P	C64104H.ADA	P
B61001C-AB.ADA	P	B64002A.ADA	P	C64104I.ADA	P
B61001D-AB.ADA	P	B64003A.ADA	P	C64104J.ADA	P
B61001E-AB.ADA	P	B64004A.ADA	P	C64104K-AB.ADA	P
B61001F-AB.ADA	P	B64005A-AB.ADA	P	C64104L-AB.ADA	P
B61001G-AB.ADA	P	B64006A.ADA	P	C64104M-AB.ADA	P
B61001H-AB.ADA	P	B64101A-B.ADA	P	C64105A.ADA	P
B61001I-AB.ADA	P	B65001A.ADA	P	C64105B-AB.ADA	P
B61001J-AB.ADA	P	B65002A-AB.ADA	P	C64105C-AB.ADA	P
B61001K-AB.ADA	P	B65002B-AB.ADA	P	C64105D-AB.ADA	P
B61001L-AB.ADA	P	B66001A-B.ADA	W	C64106A-B.ADA	P
B61001M-AB.ADA	P	B66001C.ADA	P	C64106B-B.ADA	P
B61003A-AB.ADA	P	B67001A-B.ADA	P	C64106C-B.ADA	P
B61005A-B.ADA	P	B67001B-AB.ADA	P	C64106D-B.ADA	P
B61005B-B.ADA	P	B67004A-B.ADA	P	C64107A-B.ADA	P
B61012A-B.ADA	P	C61003B-AB.ADA	P	C64108A-B.ADA	P
B62001A.ADA	P	C61008A-B.ADA	P	C64202A-B.ADA	P
B62001B-AB.ADA	P	C61009A-B.ADA	P	C65003A-B.ADA	P
B62001C-AB.ADA	P	C61010A-AB.ADA	P	C65003B-B.ADA	P
B62001D-AB.ADA	P	C62002A-B.ADA	P	C66002A-B.ADA	P
B62006B-B.ADA	P	C62003A-B.ADA	P	C66002C.ADA	P
B62006C-B.ADA	P	C62003B-B.ADA	P	C66002D.ADA	P
B62006E-B.ADA	P	C62004A.ADA	P	C66002E-AB.ADA	P
B62006F-B.ADA	P	C62006A-B.ADA	P	C66002F.ADA	P
B63001A.ADA	P	C63004A-AB.ADA	P	C66002G-B.ADA	P
B63005A-AB.ADA	P	C64002B-B.ADA	P	C67002A.ADA	P
B63005B-AB.ADA	P	C64004B.ADA	P	C67003A-B.ADA	P
B63009A-B.ADA	P	C64007A.ADA	P	C67003B.ADA	P
B63009B-B.ADA	P	C64104A-AB.ADA	P	C67003C-AB.ADA	P
B63009C.ADA	P	C64104B-AB.ADA	P	C67003D-B.ADA	P
B63009C0	C	C64104C-AB.ADA	P	C67003E-AB.ADA	P
B63009C1	C	C64104D-AB.ADA	P	C67005A-B.ADA	P
B63009C2	C	C64104E-AB.ADA	P	C67005B-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 7

A71002A-AB.	P	B71001Q-AB.ADA	P	B74105A-B.ADA	P
A71004A-AB.ADA	P	B71001R-AB.ADA	P	B74105C-B.ADA	P
A72001A-AB.ADA	P	B71001T-AB.ADA	P	B74201A-AB.ADA	P
A74006A-AB.ADA	P	B71001U-AB.ADA	P	B74205A-B.ADA	P
A74105B-B.ADA	P	B71001V-AB.ADA	P	B74205B-B.ADA	P
A74106A-AB.ADA	P	B71001W-AB.ADA	P	B74207A-B.ADA	P
A74106B-AB.ADA	P	B71002B-AB.ADA	P	B74301A-B.ADA	P
A74106C-AB.ADA	P	B73001A-AB.ADA	P	B74301B-B.ADA	P
A74205E-B.ADA	P	B73001B-AB.ADA	P	B74304A-B.ADA	P
A74205F-B.ADA	P	B73001C-B.ADA	P	B74304C-B.ADA	P
B71001A-AB.ADA	P	B73001D-B.ADA	P	B74401A-B.ADA	P
B71001B-AB.ADA	P	B73001E-AB.ADA	P	B74409A-B.ADA	P
B71001C-AB.ADA	P	B73001F-AB.ADA	P	C72001B-AB.ADA	P
B71001D-AB.ADA	P	B73001G-B.ADA	P	C73002A-B.ADA	P
B71001E-AB.ADA	P	B73001H-B.ADA	P	C74203B-B.ADA	P
B71001F-AB.ADA	P	B73006A-AB.ADA	P	C74206A-B.ADA	P
B71001G-AB.ADA	P	B74001A-AB.ADA	P	C74209A-AB.ADA	P
B71001H-AB.ADA	P	B74001B-AB.ADA	P	C74210A-AB.ADA	P
B71001I-AB.ADA	P	B74003A-B.ADA	P	C74211A-B.ADA	P
B71001J-AB.ADA	P	B74101A-B.ADA	P	C74211B-B.ADA	P
B71001K-AB.ADA	P	B74102B-B.ADA	P	C74302A-B.ADA	P
B71001L-AB.ADA	P	B74103A-B.ADA	P	C74305A-B.ADA	P
B71001M-AB.ADA	P	B74103B-B.ADA	P	C74305B-B.ADA	P
B71001N-AB.ADA	P	B74103C-B.ADA	P	C74402A-B.ADA	P
B71001O-AB.ADA	P	B74103D-B.ADA	P	C74409B-B.ADA	P
B71001P-AB.ADA	P	B74104A-B.ADA	P		

Validation Summary Report
Complete List of Tests and Results

Chapter 8

A83A02A.ADA	P	B86001BK-B.ADA	P	C86002A1	C
A83A02B.ADA	P	B86001BL-B.ADA	P	C86002A2M	C
A83A06A-B.ADA	P	B86001BM-B.ADA	P	C86002B.ADA	P
A83C01C.ADA	P	B86001BQ-B.ADA	P	C86002B1	C
A83C01D.ADA	P	B86001BU-B.ADA	P	C86002B2M	C
A83C01E.ADA	P	B86001BV-B.ADA	P	C86003A-B.ADA	P
A83C01F.ADA	P	B86001BW-B.ADA	P	C87A05A-B.ADA	P
A83C01G.ADA	P	B86001BX-B.ADA	P	C87A05B-B.ADA	P
A83C01H.ADA	P	B86001COM-AB.DEP	P	C87B02A-B.ADA	P
A83C01I.ADA	P	B86001CP-AB.DEP	P	C87B02B-B.ADA	P
A83C01J.ADA	P	B86001CQ-AB.DEP	N/A	C87B03A-B.ADA	P
A85007D-B.ADA	P	B86001CR-AB.DEP	P	C87B04A-B.ADA	P
A85013B-B.ADA	P	B86001CS-AB.DEP	N/A	C87B04B-B.ADA	P
B83A01A-AB.ADA	P	B86001DOM-AB.TST	P	C87B04C-B.ADA	P
B83A01B-B.ADA	P	B86001DT-AB.TST	P	C87B05A-B.ADA	P
B83A01C.ADA	P	B87B23B-B.ADA	W	C87B06A-B.ADA	P
B83A05A-AB.ADA	P	B87B48C-B.ADA	P	C87B07A-B.ADA	P
B83A06B-B.ADA	P	C83B02A.ADA	P	C87B07B-B.ADA	P
B83A06H-B.ADA	P	C83B02B.ADA	P	C87B07C-B.ADA	P
B83B01A-AB.ADA	P	C83C01B.ADA	P	C87B07D-B.ADA	P
B83B02C.ADA	P	C83E02A.ADA	P	C87B07E-B.ADA	P
B83C01A-AB.ADA	P	C83E02B.ADA	P	C87B08A-B.ADA	P
B83C02A.ADA	P	C83E03A.ADA	P	C87B09A-B.ADA	P
B83E02C-B.ADA	P	C83E04A.ADA	P	C87B09B-B.ADA	P
B83F02A.ADA	P	C83F01A.ADA	P	C87B09C-B.ADA	P
B83F02B.ADA	P	C83F01B.ADA	P	C87B10A-B.ADA	W
B83F04A-AB.ADA	P	C83F01C.ADA	P	C87B11A-B.ADA	P
B84001A-AB.ADA	P	C83F01C0	C	C87B11B-B.ADA	P
B84002B-B.ADA	P	C83F01C1	C	C87B13A-B.ADA	P
B84004A-B.ADA	P	C83F01C2M	C	C87B14A-B.ADA	P
B84006A-B.ADA	P	C83F01D.ADA	P	C87B14B-B.ADA	P
B85007B-B.ADA	P	C83F01DOM	C	C87B14C-B.ADA	P
B85007C-B.ADA	P	C83F01D1	C	C87B14D-B.ADA	P
B85012A-B.ADA	P	C83F03A.ADA	P	C87B15A-B.ADA	P
B85013C-B.ADA	P	C83F03B.ADA	P	C87B16A-B.ADA	P
B85015A-B.ADA	P	C83F03C.ADA	P	C87B17A-B.ADA	P
B86001A-AB.ADA	P	C83F03C0	C	C87B18A-B.ADA	P
B86001A0	C	C83F03C1	C	C87B18B-B.ADA	P
B86001A1M	C	C83F03C2M	C	C87B19A-B.ADA	P
B86001BOM-B.ADA	P	C83F03D.ADA	P	C87B23A-B.ADA	P
B86001BA-B.ADA	P	C83F03DOM	C	C87B24A-B.ADA	P
B86001BB-B.ADA	P	C83F03D1	C	C87B24B-B.ADA	P
B86001BC-B.ADA	P	C84002A-B.ADA	P	C87B26B-B.ADA	P
B86001BD-B.ADA	P	C85007A-B.ADA	P	C87B27A-B.ADA	P
B86001BE-B.ADA	P	C85007E-B.ADA	P	C87B28A-B.ADA	P
B86001BF-B.ADA	P	C85013A-B.ADA	P	C87B29A-B.ADA	P
B86001BG-B.ADA	P	C86001E-B.ADA	P	C87B30A-B.ADA	P
B86001BH-B.ADA	P	C86001F-B.DEP	N/A	C87B31A-B.ADA	P
B86001BI-B.ADA	P	C86002A.ADA	P	C87B32A-B.ADA	P
B86001BJ-B.ADA	P	C86002A0	C	C87B33A-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 8 (Continued)

C87B34A-B.ADA	P	C87B37E-B.ADA	P	C87B45C-B.ADA	P
C87B34B-B.ADA	P	C87B37F-B.ADA	P	C87B47A-B.ADA	P
C87B34C-B.ADA	P	C87B38A-B.ADA	P	C87B48A-B.ADA	P
C87B35A-B.ADA	P	C87B39A-B.ADA	P	C87B48B-B.ADA	P
C87B35B-B.ADA	P	C87B40A-B.ADA	P	C87B54A-B.ADA	P
C87B35C-B.ADA	P	C87B41A-B.ADA	P	C87B57A-B.ADA	P
C87B37A-B.ADA	P	C87B42A-B.ADA	P	C87B62A-B.DEP	P
C87B37B-B.ADA	P	C87B43A-B.ADA	P	C87B62B-B.DEP	P
C87B37C-B.ADA	P	C87B44A-B.ADA	P	C87B62C-B.DEP	P
C87B37D-B.ADA	P	C87B45A-B.ADA	P		

Validation Summary Report
Complete List of Tests and Results

Chapter 9

A91002M-B.A	P	B950ADA-B.ADA	P	C910BAC-B.ADA	P
A95005A.ADA	P	B950AFA-B.ADA	P	C910BAD-B.ADA	P
A97106A-AB.ADA	P	B950AHA-B.ADA	P	C910BDA-B.ADA	P
B91001A-AB.ADA	P	B950AJA-B.ADA	P	C910BDB-B.ADA	P
B91001B-AB.ADA	P	B950BAA-B.ADA	P	C910BDC-B.ADA	P
B91001C-AB.ADA	P	B950DHA-B.ADA	P	C92002A.ADA	P
B91001D-AB.ADA	P	B97101A-AB.ADA	P	C92003A.ADA	P
B91001E-AB.ADA	P	B97101B-AB.ADA	P	C920AJA-B.ADA	P
B91001F-AB.ADA	P	B97101C-AB.ADA	P	C920BAA-B.ADA	P
B91001G-B.ADA	P	B97101D-AB.ADA	P	C920BBA-B.ADA	P
B91002A-B.ADA	P	B97101E-AB.ADA	P	C920BIA-B.ADA	P
B91002B-B.ADA	P	B97102A-AB.ADA	P	C93001A-B.ADA	P
B91002C-B.ADA	P	B97102B-AB.ADA	P	C93002A-B.ADA	P
B91002D-B.ADA	P	B97102C-AB.ADA	P	C93003A-B.ADA	P
B91002E-B.ADA	P	B97102D-AB.ADA	P	C93005A-B.ADA	P
B91002F-B.ADA	P	B97102E-AB.ADA	P	C93005B-B.ADA	P
B91002G-B.ADA	P	B97102F-AB.ADA	P	C93005C-B.ADA	P
B91002H-B.ADA	P	B97102G-AB.ADA	P	C93006A-AB.ADA	P
B91002I-B.ADA	P	B97102H-AB.ADA	P	C930ABA-B.ADA	P
B91002J-B.ADA	P	B97102I-AB.ADA	P	C930AEA-B.ADA	P
B91002K-B.ADA	P	B97103A-AB.ADA	P	C930AFA-B.ADA	P
B91002L-B.ADA	P	B97103B-AB.ADA	P	C930AJA-B.ADA	P
B91003A-AB.ADA	P	B97103D-AB.ADA	P	C930BAA-B.ADA	P
B91004A-B.ADA	P	B97103E-AB.ADA	P	C930BDA-B.ADA	W
B910ABA-B.ADA	P	B97104A-AB.ADA	P	C94001A-B.ADA	P
B910ACA-B.ADA	P	B97104B-AB.ADA	P	C94002A-B.ADA	P
B910AEA-B.ADA	P	B97104C-AB.ADA	P	C94002B-B.ADA	P
B910BCA-B.ADA	P	B97104D-AB.ADA	P	C94003A-B.ADA	P
B920ACA-B.ADA	P	B97104E-AB.ADA	P	C94004A-B.ADA	W
B920BDA-B.ADA	P	B97104F-AB.ADA	P	C94005A-B.ADA	P
B920BJA-B.ADA	P	B97104G-AB.ADA	P	C94005B-B.ADA	P
B95001A.ADA	P	B97107A-AB.ADA	P	C94006A-B.ADA	P
B95001B-AB.ADA	P	B97108A-AB.ADA	P	C94007A-B.ADA	P
B95002A.ADA	P	B97108B-AB.ADA	P	C94007B-B.ADA	P
B95004A-AB.ADA	P	B97109A-AB.ADA	P	C94020A-B.ADA	P
B95004B-AB.ADA	P	B97110A-AB.ADA	P	C94021A-B.ADA	P
B95006A.ADA	P	B97110B-AB.ADA	P	C940ABA-B.ADA	P
B95006B-AB.ADA	P	B97111A-AB.ADA	P	C940ACA-B.ADA	P
B95006C-AB.ADA	P	B99001A-AB.ADA	P	C940ACB-B.ADA	P
B95006D-AB.ADA	P	B99001B-B.ADA	P	C940ADA-B.ADA	P
B95007A-AB.ADA	P	B99002A-B.ADA	P	C940AGA-B.ADA	P
B95007B-AB.ADA	P	B99002B-B.ADA	P	C940AGB-B.ADA	P
B95020A-B.ADA	P	B99002C-B.ADA	P	C940AHA-B.ADA	P
B95020B-B.ADA	P	B99003A-AB.ADA	P	C940AIA-B.ADA	P
B95020B0	C	B9A001A-AB.ADA	P	C940BAA-B.ADA	P
B95020B1	C	B9A001B-AB.ADA	P	C940BBA-B.ADA	P
B95020B2M	C	C900ACA-B.ADA	P	C95008A.ADA	W
B950ABA-B.ADA	P	C910AHA-B.ADA	P	C95009A.ADA	W
B950ABB-B.ADA	P	C910BAA-B.ADA	P	C95009B.ADA	P
B950ACA-B.ADA	P	C910BAB-B.ADA	P	C95010A.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 9 (Continued)

C95011A.ADA	P	C950DGA-B.ADA	P	C97303B-AB.ADA	P
C95012A-B.ADA	P	C97113A-B.ADA	P	C97304A-B.ADA	P
C95013A-B.ADA	P	C97114A-B.ADA	P	C9A003A-B.ADA	P
C95021A-B.ADA	P	C97115A-B.ADA	P	C9A004A-B.ADA	P
C95022A-B.ADA	P	C97201A-AB.ADA	P	C9A005A-B.ADA	P
C95022B-B.ADA	P	C97201D-AB.ADA	P	C9A006A-B.ADA	P
C950ACB-B.ADA	P	C97201E-AB.ADA	P	C9A007A-B.ADA	P
C950BGA-B.ADA	P	C97201G-AB.ADA	P	C9A009A-B.ADA	P
C950BHA-B.ADA	P	C97201H-AB.ADA	P	C9A009B-B.ADA	P
C950BJA-B.ADA	P	C97201X-AB.ADA	P	C9A009C-B.ADA	P
C950CAA-B.ADA	P	C97202A-AB.ADA	P	C9A009D-B.ADA	P
C950CBA-B.ADA	P	C97203A-AB.ADA	P	C9A009E-B.ADA	P
C950CHA-B.ADA	P	C97203B-AB.ADA	P	C9A009F-B.ADA	P
C950CHC-B.ADA	P	C97204A-B.ADA	P	C9A009G-B.ADA	P
C950DEA-B.ADA	P	C97303A-AB.ADA	P	C9A009H-B.ADA	P
C950DEB-B.ADA	P				

Validation Summary Report
Complete List of Tests and Results

Chapter 10

BA1020B-B.A	P	BA3001C-AB.ADA	P	CA1012B4M	C
BA1020B0	C	BA3001COM	C	CA1013A.ADA	P
BA1020B1	C	BA3001C1	C	CA1013A0	C
BA1020B2	C	BA3001D-AB.ADA	P	CA1013A1	C
BA1020B3	C	BA3001DOM	C	CA1013A2	C
BA1020B4	C	BA3001D1	C	CA1013A3	C
BA1020B5	C	BA3001E-AB.ADA	P	CA1013A4	C
BA1020B6M	C	BA3001EOM	C	CA1013A5	C
BA1101A-AB.ADA	P	BA3001E1	C	CA1013A6M	C
BA1101B.ADA	P	BA3001E2	C	CA1014A-AB.ADA	P
BA1101B0M	C	BA3001E3	C	CA1014A0M	C
BA1101B1	C	BA3001F-AB.ADA	P	CA1014A1	C
BA1101B2	C	BA3001F0M	C	CA1014A2	C
BA1101B3	C	BA3001F1	C	CA1014A3	C
BA1101B4	C	BA3001F2	C	CA1016A.ADA	P
BA1101C.ADA	P	BA3001F3	C	CA1016A0	C
BA1101C0	C	CA1002A-B.ADA	P	CA1016A1	C
BA1101C1M	C	CA1002A0	C	CA1016A2M	C
BA1101D.ADA	P	CA1002A1	C	CA1020A-B.ADA	P
BA1101E.ADA	P	CA1002A2	C	CA1020A0	C
BA1101H-B.ADA	P	CA1002A3M	C	CA1020A1	C
BA1101H0	C	CA1002A4	C	CA1020A2	C
BA1101H1M	C	CA1002A5	C	CA1020A3	C
BA2001A-AB.ADA	P	CA1002A6	C	CA1020A4	C
BA2001B.ADA	P	CA1002A7	C	CA1020A5	C
BA2001C.ADA	P	CA1002A8	C	CA1020A6	C
BA2001D.ADA	P	CA1002A9	C	CA1020A7	C
BA2001E.ADA	P	CA1003A-AB.ADA	P	CA1020A8M	C
BA2001F.ADA	P	CA1003B-AB.ADA	P	CA1105A.ADA	P
BA2001F0M	C	CA1004A.ADA	P	CA1105A0	C
BA2001F1	C	CA1005A.ADA	P	CA1105A1M	C
BA2001F2	C	CA1006A-AB.ADA	P	CA1105B.ADA	P
BA2001G.ADA	P	CA1008A.ADA	P	CA1105B0	C
BA2001G0M	C	CA1008A0	C	CA1105B1	C
BA2001G1	C	CA1008A1M	C	CA1105B2	C
BA2002A.ADA	P	CA1009A.ADA	P	CA1105B3M	C
BA2002A0M	C	CA1009A0	C	CA1105B4	C
BA2002A1	C	CA1009A1	C	CA1105B5	C
BA2002A2	C	CA1009A2	C	CA1107A.ADA	P
BA2003B.ADA	P	CA1009A3	C	CA1107A0	C
BA2003B0M	C	CA1009A4M	C	CA1107A1M	C
BA2003B1	C	CA1012A.DEP	P	CA1107A2	C
BA3001A-AB.ADA	P	CA1012A0	C	CA2001H.ADA	P
BA3001A0M	C	CA1012A1	C	CA2001H0	C
BA3001A1	C	CA1012A2	C	CA2001H1	C
BA3001A2	C	CA1012A3	C	CA2001H2	C
BA3001A3	C	CA1012A4M	C	CA2001H3M	C
BA3001B.ADA	P	CA1012B-B.ADA	P	CA2003A.ADA	P
BA3001B0M	C	CA1012B0	C	CA2003A0M	C
BA3001B1	C	CA1012B2	C	CA2003A1	C

Validation Summary Report
Complete List of Tests and Results

Chapter 10 (Continued)

CA2004A.ADA	P	CA5003A2	C	LA3007A2	C
CA2004AOM	C	CA5003A3	C	LA3007A3-AB	C
CA2004A1	C	CA5003A4	C	LA3007A4M	C
CA2004A2	C	CA5003A5	C	LA3007B.ADA	P
CA2007A-AB.ADA	P	CA5003A6M	C	LA3007B0	C
CA2007AOM	C	LA3004A-AB.ADA	P	LA3007B1	C
CA2007A1	C	LA3004A0-AB	C	LA3007B2	C
CA2007A2	C	LA3004A1-AB	C	LA3007B3	C
CA2007A3	C	LA3004A2-AB	C	LA3007B4	C
CA2008A-B.ADA	P	LA3004A3-AB	C	LA3007B5	C
CA2008AOM	C	LA3004A4-AB	C	LA3007B6	C
CA2008A1	C	LA3004A5-AB	C	LA3007B7	C
CA2008A2	C	LA3004A6M	C	LA3007B8M	C
CA3002A-B.ADA	P	LA3004B-B.ADA	P	LA3008A-AB.ADA	P
CA3002A0	C	LA3004B0-B	C	LA3008A0	C
CA3002A1	C	LA3004B1-B	C	LA3008A1	C
CA3002A2M	C	LA3004B2-B	C	LA3008A2	C
CA3002A3	C	LA3004B3-B	C	LA3008A3	C
CA3006C-B.ADA	P	LA3004B4-B	C	LA3008A4	C
CA3006C0	C	LA3004B5-B	C	LA3008A5M	C
CA3006C1	C	LA3004B6M	C	LA3008B.ADA	P
CA3006C2	C	LA3006A-AB.ADA	P	LA3008B0	C
CA3006C3	C	LA3006A0	C	LA3008B1	C
CA3006C4	C	LA3006A1	C	LA3008B2	C
CA3006C5M	C	LA3006A2	C	LA3008B3	C
CA5002A-B.ADA	P	LA3006A3	C	LA3008B4	C
CA5002B-B.ADA	P	LA3006A4	C	LA3008B5	C
CA5002B0	C	LA3006A5	C	LA3008B6M	C
CA5002B1	C	LA3006A6M	C	LA5001A-B.ADA	P
CA5002B2	C	LA3006B-AB.ADA	P	LA5001A0	C
CA5002B3	C	LA3006B0	C	LA5001A1	C
CA5002B4	C	LA3006B1	C	LA5001A2	C
CA5002B5	C	LA3006B2	C	LA5001A3	C
CA5002B6	C	LA3006B3-AB	C	LA5001A4	C
CA5002B7M	C	LA3006B4M	C	LA5001A5	C
CA5003A-B.ADA	P	LA3007A-AB.ADA	P	LA5001A6	C
CA5003A0	C	LA3007A0	C	LA5001A7M	C
CA5003A1	C	LA3007A1	C		

Validation Summary Report
Complete List of Tests and Results

Chapter 11

BB2001A-AB.	P	CB1003A-AB.ADA	P	CB4002A-AB.ADA	P
BB2002A-AB.ADA	P	CB1004A-AB.ADA	P	CB4003A-AB.ADA	P
BB2003A-AB.ADA	P	CB2004A-B.ADA	P	CB4004A-B.ADA	P
BB2003B-AB.ADA	P	CB2005A-B.ADA	P	CB4005A-AB.ADA	P
BB2003C-AB.ADA	P	CB2006A-AB.ADA	P	CB4006A-B.ADA	P
BB3001A-B.ADA	P	CB2007A-AB.ADA	P	CB4008A-AB.ADA	P
BB3002A-AB.ADA	P	CB3003A-B.ADA	P	CB4009A-AB.ADA	P
BB3005A-AB.ADA	P	CB3004A-AB.ADA	P	CB5001A-B.ADA	P
CB1001A-B.ADA	P	CB4001A-AB.ADA	P	CB5001B-B.ADA	P
CB1002A-B.ADA	P				

Validation Summary Report
Complete List of Tests and Results

Chapter 12

BC1001A-B.A	P	BC2001B-AB.ADA	P	BC3205D1M	C
BC1002A-B.ADA	P	BC2001C-AB.ADA	P	BC3205D2	C
BC1008A-AB.ADA	P	BC20ABA-B.ADA	P	BC3205E-B.ADA	P
BC1008B-AB.ADA	P	BC3002A-AB.ADA	P	BC3205F-B.ADA	P
BC1008C-AB.ADA	P	BC3002B-AB.ADA	P	BC32ABA-B.ADA	P
BC1009A-AB.ADA	P	BC3002C-AB.ADA	P	BC32ADA-B.ADA	P
BC1011A-AB.ADA	P	BC3002D-AB.ADA	P	BC3301A-AB.ADA	P
BC1011B-AB.ADA	P	BC3002E-AB.ADA	P	BC3301B-AB.ADA	P
BC1012A-AB.ADA	P	BC3003A-AB.ADA	P	BC3302A-AB.ADA	P
BC1013A-B.ADA	P	BC3003B-AB.ADA	P	BC3302B-AB.ADA	P
BC10ABA-B.ADA	P	BC3005A-AB.ADA	P	BC3303A-AB.ADA	P
BC10ABB-B.ADA	P	BC3006A-AB.ADA	P	BC3304A-AB.ADA	P
BC10ACA-B.ADA	P	BC3009A-B.ADA	P	BC33ABA-B.ADA	P
BC10ADA-B.ADA	P	BC3009B-B.ADA	P	BC33ACA-B.ADA	P
BC10AEA-B.ADA	P	BC3009C-B.ADA	P	BC33ADA-B.ADA	P
BC10AEB-B.ADA	P	BC3011B-B.ADA	P	BC33AEA-B.ADA	P
BC10AEC-B.ADA	P	BC3011C-AB.ADA	P	BC3401A-AB.ADA	P
BC10AED-B.ADA	P	BC3013A-AB.ADA	P	BC3401B-AB.ADA	P
BC10AFA-B.ADA	P	BC3018A-B.ADA	P	BC3402A-AB.ADA	P
BC10AGA-B.ADA	P	BC30ABA-B.ADA	P	BC3402B-AB.ADA	P
BC1101A-AB.ADA	P	BC30ACA-B.ADA	P	BC3403A-AB.ADA	P
BC1102A-B.ADA	P	BC3101A-B.ADA	P	BC3403B-AB.ADA	P
BC1103A-B.ADA	P	BC3101B-B.ADA	P	BC3403C-AB.ADA	P
BC1104A-B.ADA	P	BC3102A-B.ADA	P	BC3404A-AB.ADA	P
BC1104B-B.ADA	P	BC3102B-B.ADA	P	BC3404B-B.ADA	P
BC1106A-AB.ADA	P	BC3103A-AB.ADA	P	BC3404C-AB.ADA	P
BC1107A-B.ADA	P	BC3103B-AB.ADA	P	BC3404D-AB.ADA	P
BC11ABA-B.ADA	P	BC31ABA-B.ADA	P	BC3404E-AB.ADA	P
BC11ACA-B.ADA	P	BC31ACA-B.ADA	P	BC3404F-AB.ADA	P
BC1201A-AB.ADA	P	BC31ADA-B.ADA	P	BC3405A-AB.ADA	P
BC1201B-AB.ADA	P	BC3201A-B.ADA	P	BC3405B-B.ADA	P
BC1201C-AB.ADA	P	BC3201B-AB.ADA	P	BC3405D-AB.ADA	P
BC1201D-AB.ADA	P	BC3201C-B.ADA	P	BC3405E-AB.ADA	P
BC1202A-AB.ADA	P	BC3202A-B.ADA	P	BC3405F-AB.ADA	P
BC1202B-AB.ADA	P	BC3202B-B.ADA	P	BC3501A-AB.ADA	P
BC1202C-AB.ADA	P	BC3202C-B.ADA	P	BC3501B-AB.ADA	P
BC1202D-AB.ADA	P	BC3203B-B.ADA	P	BC3501C-AB.ADA	P
BC1203A-AB.ADA	P	BC3204A-B.ADA	P	BC3501D-AB.ADA	P
BC1207A-B.ADA	P	BC3204B-B.ADA	P	BC3501E-AB.ADA	P
BC1226A-B.ADA	P	BC3204C-B.ADA	P	BC3501F-AB.ADA	P
BC12A9A-B.ADA	P	BC3204C0	C	BC3501G-AB.ADA	P
BC12ACA-B.ADA	P	BC3204C1M	C	BC3501H-AB.ADA	P
BC12ACB-B.ADA	P	BC3204C2	C	BC3501I-AB.ADA	P
BC1303A-AB.ADA	P	BC3204D-B.ADA	P	BC3501J-AB.ADA	P
BC1303B-AB.ADA	P	BC3204E-B.ADA	P	BC3501K-AB.ADA	P
BC1303C-AB.ADA	P	BC3205A-B.ADA	P	BC3502A-AB.ADA	P
BC1303D-AB.ADA	P	BC3205B-B.ADA	P	BC3502B-AB.ADA	P
BC1303E-AB.ADA	P	BC3205C-B.ADA	P	BC3502C-AB.ADA	P
BC1306A-B.ADA	P	BC3205D-B.ADA	P	BC3502D-AB.ADA	P
BC13ABA-B.ADA	P	BC3205D0	C	BC3502E-AB.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 12 (Continued)

BC3502F-AB.ADA	P	CC1307A-AB.ADA	P	CC3407A-AB.ADA	P
BC3502G-AB.ADA	P	CC1308A-AB.ADA	P	CC3407B-AB.ADA	P
BC3502H-AB.ADA	P	CC1310A-AB.ADA	P	CC3407C-AB.ADA	P
BC3502I-AB.ADA	P	CC2002A-AB.ADA	P	CC3407D-AB.ADA	P
BC3502J-AB.ADA	P	CC3004A-B.ADA	P	CC3407E-AB.ADA	P
BC3502K-AB.ADA	P	CC3007A-AB.ADA	P	CC3407F-AB.ADA	P
BC3502L-AB.ADA	P	CC3011A-B.ADA	P	CC3408A-AB.ADA	P
BC3502M-AB.ADA	P	CC3011D-B.ADA	P	CC3408B-AB.ADA	P
BC3502N-AB.ADA	P	CC3012A-AB.ADA	P	CC3408C-AB.ADA	P
BC3502O-AB.ADA	P	CC3120A-AB.ADA	P	CC3408D-B.ADA	P
BC3503A-B.ADA	P	CC3120B-B.ADA	P	CC3504A-B.ADA	P
BC3503B-B.ADA	P	CC3125A-B.ADA	P	CC3504B-B.ADA	P
BC3503C-B.ADA	P	CC3203A-B.ADA	P	CC3504C-B.ADA	P
BC3503D-B.ADA	P	CC3208A-AB.ADA	P	CC3504D-B.ADA	P
BC3503F-B.ADA	P	CC3208B-AB.ADA	P	CC3504E-B.ADA	P
CC1004A-AB.ADA	P	CC3305A-AB.ADA	P	CC3504F-B.ADA	P
CC1010A-AB.ADA	P	CC3305B-AB.ADA	P	CC3504G-B.ADA	P
CC1010B-AB.ADA	P	CC3305C-AB.ADA	P	CC3504H-B.ADA	P
CC1220A-B.ADA	P	CC3305D-AB.ADA	P	CC3504I-B.ADA	P
CC1301A-B.ADA	P	CC3406A-AB.ADA	P	CC3504J-B.ADA	P
CC1302A-AB.ADA	P	CC3406B-AB.ADA	P	CC3504K-B.ADA	P
CC1304A-AB.ADA	P	CC3406C-AB.ADA	P	CC3601C-AB.ADA	P
CC1305B-AB.ADA	P	CC3406D-B.ADA	P	CC3602A-AB.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 14

AE2101A-B.A	P	CE2110A-B.ADA	P	CE3114A-B.ADA	P
AE2101B-B.ADA	P	CE2110B-B.ADA	P	CE3114B-B.ADA	P
AE2101C-B.DEP	P	CE2111A-B.ADA	P	CE3115A-B.ADA	P
AE2101D-B.ADA	P	CE2111B-B.ADA	P	CE3201A-B.ADA	P
AE3101A-B.ADA	P	CE2111C-B.ADA	P	CE3202A-B.ADA	P
AE3702A-B.ADA	P	CE2111D-B.ADA	P	CE3203A-B.ADA	P
AE3709A-B.ADA	P	CE2201A-B.ADA	P	CE3206A-B.ADA	P
BE2101E-B.ADA	P	CE2201B-B.ADA	P	CE3208A-B.ADA	P
BE2112A-B.ADA	P	CE2201C-B.ADA	P	CE3301A-B.ADA	P
BE2112B-B.ADA	P	CE2201D-B.DEP	P	CE3301B-B.ADA	P
BE2112C-B.ADA	P	CE2201E-B.DEP	P	CE3301C-B.ADA	P
BE2114A-B.ADA	P	CE2201F-B.ADA	P	CE3302A-B.ADA	P
BE2208A-B.ADA	P	CE2202A-B.ADA	P	CE3303A-B.ADA	P
BE3001A-B.ADA	P	CE2204A-B.ADA	P	CE3305A-B.ADA	P
BE3002A-B.ADA	P	CE2204B-B.ADA	P	CE3402A-B.ADA	P
BE3002E-B.ADA	P	CE2210A-B.ADA	P	CE3402B-B.ADA	P
BE3105A-B.ADA	P	CE2401A-B.ADA	P	CE3402C-B.ADA	P
BE3205A-B.ADA	P	CE2401B-B.ADA	P	CE3402D-B.ADA	P
BE3501A-B.ADA	P	CE2401C-B.ADA	P	CE3402E-B.ADA	P
BE3606C-B.ADA	P	CE2401D-B.DEP	P	CE3403A-B.ADA	P
BE3703A-B.ADA	P	CE2401E-B.ADA	P	CE3403B-B.ADA	P
BE3802A-B.ADA	P	CE2401F-B.ADA	P	CE3403C-B.ADA	P
BE3803A-B.ADA	P	CE2402A-B.ADA	P	CE3403D-B.ADA	P
BE3902A-B.ADA	P	CE2404A-B.ADA	P	CE3403E-B.ADA	P
BE3903A-B.ADA	P	CE2405B-B.ADA	P	CE3403F-B.ADA	P
CE2102A-B.ADA	P	CE2406A-B.ADA	P	CE3404A-B.ADA	P
CE2102B-B.ADA	P	CE2407A-B.ADA	P	CE3404B-B.ADA	P
CE2102C-B.ADA	P	CE2408A-B.ADA	P	CE3404C-B.ADA	P
CE2102D-B.ADA	P	CE2409A-B.ADA	P	CE3405A-B.ADA	P
CE2102E-B.ADA	P	CE2410A-B.ADA	P	CE3405B-B.ADA	P
CE2102F-B.ADA	P	CE3002B-B.TST	P	CE3405C-B.ADA	P
CE2102G-B.ADA	P	CE3002C-B.TST	P	CE3405D-B.ADA	P
CE2103A-B.TST	P	CE3002D-B.ADA	P	CE3406A-B.ADA	P
CE2103B-B.TST	P	CE3002F-B.ADA	P	CE3406B-B.ADA	P
CE2104A-B.ADA	P	CE3102A-B.ADA	P	CE3406C-B.ADA	P
CE2104B-B.ADA	P	CE3102B-B.TST	P	CE3406D-B.ADA	P
CE2105A-B.ADA	P	CE3103A-B.ADA	W	CE3407A-B.ADA	P
CE2106A-B.ADA	P	CE3104A-B.ADA	P	CE3407B-B.ADA	P
CE2107A-B.ADA	P	CE3107A-B.TST	P	CE3407C-B.ADA	P
CE2107B-B.ADA	P	CE3108A-B.ADA	P	CE3408A-B.ADA	P
CE2107C-B.ADA	W	CE3108B-B.ADA	P	CE3408B-B.ADA	P
CE2107D-B.ADA	W	CE3109A-B.ADA	P	CE3408C-B.ADA	P
CE2107E-B.ADA	W	CE3110A-B.ADA	P	CE3409A-B.ADA	P
CE2108A-B.ADA	W	CE3111A-B.ADA	P	CE3409B-B.ADA	P
CE2108B-B.ADA	N/A	CE3111B-B.ADA	P	CE3409C-B.ADA	P
CE2108C-B.ADA	W	CE3111C-B.ADA	P	CE3409D-B.ADA	P
CE2108D-B.ADA	N/A	CE3111D-B.ADA	P	CE3409E-B.ADA	P
CE2108E-B.ADA	P	CE3111E-B.ADA	P	CE3409F-B.ADA	P
CE2108F-B.ADA	P	CE3112A-B.ADA	W	CE3410A-B.ADA	P
CE2109A-B.ADA	P	CE3112B-B.ADA	N/A	CE3410B-B.ADA	P

Validation Summary Report
Complete List of Tests and Results

Chapter 14 (Continued)

CE3410C-B.ADA	P	CE3704A-B.ADA	P	CE3804M-B.ADA	P
CE3410D-B.ADA	P	CE3704B-B.ADA	P	CE3805A-B.ADA	P
CE3410E-B.ADA	P	CE3704C-B.ADA	P	CE3805B-B.ADA	P
CE3410F-B.ADA	P	CE3704D-B.ADA	P	CE3806A-B.ADA	P
CE3411A-B.ADA	P	CE3704E-B.ADA	P	CE3806C-B.ADA	P
CE3411C-B.ADA	P	CE3704F-B.ADA	P	CE3806D-B.ADA	P
CE3412A-B.ADA	P	CE3704M-B.ADA	P	CE3806E-B.ADA	P
CE3412C-B.ADA	P	CE3704O-B.ADA	P	CE3809A-B.ADA	P
CE3413A-B.ADA	P	CE3706C-B.ADA	P	CE3809B-B.ADA	P
CE3413C-B.ADA	P	CE3706D-B.ADA	P	CE3810A-B.ADA	P
CE3601A-B.ADA	P	CE3706F-B.ADA	P	CE3901A-B.ADA	P
CE3602A-B.ADA	P	CE3706G-B.ADA	P	CE3905A-B.ADA	P
CE3602B-B.ADA	P	CE3707A-B.ADA	P	CE3905B-B.ADA	P
CE3602C-B.ADA	P	CE3708A-B.ADA	P	CE3905C-B.ADA	P
CE3602D-B.ADA	P	CE3801A-B.ADA	P	CE3905L-B.ADA	P
CE3603A-B.ADA	P	CE3804A-B.ADA	P	CE3906A-B.ADA	P
CE3604A-B.ADA	P	CE3804B-B.ADA	P	CE3906B-B.ADA	P
CE3605A-B.ADA	P	CE3804C-B.ADA	P	CE3906C-B.ADA	P
CE3605B-B.ADA	P	CE3804D-B.ADA	P	CE3906D-B.ADA	P
CE3605C-B.ADA	P	CE3804E-B.ADA	W	CE3906E-B.ADA	P
CE3605D-B.ADA	P	CE3804F-B.ADA	P	CE3906F-B.ADA	P
CE3605E-B.ADA	P	CE3804G-B.ADA	P	CE3907A-B.ADA	P
CE3606A-B.ADA	P	CE3804I-B.ADA	P	CE3908A-B.ADA	P
CE3606B-B.ADA	P	CE3804K-B.ADA	P	EE3102C-B.ADA	P
CE3701A-B.ADA	P				

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