Registration Systems, Inc.
CMA Monitoring Agency
8002 West Ave, Suite 4
San Antonio, TX 78213
(210) 341-2680

RSI BULLETIN #R-028

FROM: Daniel C. Ludwig

DATE: August 3, 1995

SUBJECT: Test Laboratory Conformance Statements

COMMENT: This bulletin provides updated examples of the Test Laboratory Conformance Statement. There are NO CHANGES to the test laboratory conformance statement or the processes to complete conformance statements.

RSI Bulletin #92-009 was issued on September 23, 1992 to provide examples of the correct way to complete the CMA Test Laboratory Conformance Statement for engine tests scheduled and registered under the CMA Code of Practice. The purpose of this bulletin is to update and expand the examples provided in RSI Bulletin #92-009 to conform with the revised CMA Test Laboratory Conformance Statement issued by the CMA on March 1, 1994. This bulletin is for clarification purposes only and does not introduce any changes with regard to the correct completion of the CMA Test Laboratory Conformance Statement.

These are broad examples of laboratory conformance and actual cases may be different.

DESCRIPTION OF TEST LABORATORY CONFORMANCE STATEMENT

Once a registered test is started, a Conformance Statement must be submitted to the CMA Monitoring Agency upon completion or early termination of the test. The Test Laboratory Conformance Statement contains three sections consisting of Declarations, Conclusions and Comments.

DECLARATIONS: The declarations are divided into three parts requiring YES or NO responses.

1. The first section confirms conformance to the CMA Product Approval Code of Practice.

2. The second section confirms that the test was conducted in accord to the respective test procedure. If the test did not conform, then the laboratory must complete the second part that asks if the deviations were beyond the control of the test lab.

3. This section notes if the test is a "special case", a category created by ASTM that acknowledges certain conditions occur that render the test results uninterpretable even when the test is conducted in accord to the procedure. These conditions are described in the ASTM TMC information letters. As of this date, IID crankcase pressure, IIIE blowby and wear, and T8 soot have provisions for "special case."

CONCLUSIONS: "CONCLUSIONS" are generally based upon the respective declarations of the conformance statement and address the use of Multiple Test Acceptance Criteria (MTAC). "CONCLUSIONS" for the 1G2 are declared NA because the use of MTAC is not required for this test.

COMMENTS: If a lab checks any YES or NO statements that contain an asterisk (*), then supporting statements must be documented under "COMMENTS." In some cases comments are required even if a declaration contains no asterisk. i.e., 1G2 test terminated after an inspection.

Laboratories may elect to write comments when not specifically required.

EXAMPLES OF TEST LABORATORY CONFORMANCE STATEMENTS

The following examples explain the use of the test laboratory conformance statements and the suggested Declarations, Conclusions and Comments. Each example has a corresponding sample of a completed conformance statement form.

EXAMPLES FOR ALL TESTS EXCEPT 1G2

VALID TESTS, USE MTAC

Example 1 illustrates a valid test meeting all requirements.

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INVALID TESTS[1], NO MTAC

Example 2 illustrates a test which does not meet the requirements of the CMA Code of Practice, i.e., improper stand selection (Appendix D of the CMA Code of Practice), test started prior to registration (Appendix B), etc. In this case, declaration # 1 is NO with a subsequent conclusion that the results should not be used for MTAC.

Example 3A,B,C illustrate tests which do not meet the requirements of the respective test procedure. Declaration # 2 is NO.

In example 3A, the test is invalid because of lab problems, and the second part of declaration #2 is answered NO.

In example 3B, the test is invalid, but the cause was beyond the control of the test laboratory, i.e., an oil related problem. The second part of declaration # 2 is answered YES.

In example 3C, the test is invalid because the test sponsor requested early termination of the test. The second part of declaration # 2 is answered YES. *NOTE: As described in the June 26, 1995 CMA Code of Practice Interpretation (Tab 4 of the CMA Code of Practice), the provision for early termination of a test is to give the test sponsor flexibility, not to discard a predicted poor result from MTAC.*

In all cases, the conclusion(s) will indicate that the results should not be used for MTAC. ***As defined by the ASTM, tests that do not complete the total number of test hours defined by the respective test procedure are declared invalid.***

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[1] A comment is required whenever a response with an asterisk is selected.

VALID TESTS BUT SPECIAL CASE, NO MTAC

Example 4 — Occasionally, a test will run in accord to the test procedure, but the test results cannot be interpreted. This is referred to as a "special case", and declaration number 3 is checked YES. The conclusion will indicate that the results should not be used for MTAC.

EXAMPLES FOR 1G2

VALID 1G2 TESTS

Example 5 — This example is a valid, full-term (480 test hours) 1G2 test. Since MTAC is not used for the 1G2 test, the conclusion of the Test Laboratory Conformance Statement is not applicable. Insert "NA" within the parentheses used for checking the conclusions.

Example 6 - A sponsor may decide not to continue with a test after an intermediate inspection. This is permitted within the test procedure and does not invalidate the test. The test laboratory conformance statement is completed in the same manner as example 5 (full term 1G2), but the comment section must indicate that the test was terminated after inspection per sponsor request and the test hours must be noted.

INVALID 1G2 TESTS

Discussion - The declarations and supporting comments are handled in the same manner as the other tests. Conclusions remain as "NA".

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes__X__ No_____*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

(X) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

( ) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: _____
_____
_____

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 1....VALID TEST MEETING ALL REQUIREMENTS (Does not include 1G2)

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes_____ No__X__*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes__X__ No_____*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

( ) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(X) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **A COMMENT DESCRIBING THE DEVIATION IS REQUIRED**

_____
_____

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 2....FAILURE TO COMPLY WITH THE CODE OF PRACTICE

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes_____ No__X__*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No__X__

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

( ) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(X) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **A COMMENT DESCRIBING THE DEVIATION IS REQUIRED**

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 3A..FAILURE TO COMPLY WITH THE TEST PROCEDURE, NOT BEYOND THE CONTROL OF THE LAB.

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory:_____
Test Sponsor:_____
Formulation/Stand Code:_____
Test Number: _____
Test Start Date and Time (Include time zone):_____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes_____ No__X__*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes__X__* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

( ) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(X) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **A COMMENT DESCRIBING THE DEVIATION IS REQUIRED**

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 3B..FAILURE TO COMPLY WITH THE TEST PROCEDURE, BEYOND THE CONTROL OF THE LAB.

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes_____ No__X__*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes__X__* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

( ) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(X) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **Terminated at sponsor request @ "XX" test hours**

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 3C..FAILURE TO COMPLY WITH THE TEST PROCEDURE, BEYOND THE CONTROL OF THE LAB.

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes__X__ No_____*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes__X__* No_____ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

( ) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(X) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **A COMMENT DESCRIBING THE DEVIATION IS REQUIRED**
_____
_____

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 4...ASTM SPECIAL CASE

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes__X__ No_____*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

(NA) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(NA) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: _____
_____
_____

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 5....VALID TEST MEETING ALL REQUIREMENTS
1G2 480 HOUR TEST ONLY

CMA CODE OF PRACTICE
TEST LABORATORY CONFORMANCE STATEMENT

Test Laboratory: _____
Test Sponsor: _____
Formulation/Stand Code: _____
Test Number: _____
Test Start Date and Time (Include time zone): _____

DECLARATIONS

No. 1 All requirements of the CMA Code of Practice for which the test laboratory is responsible were met in the conduct of this test. Yes__X__ No_____*

No. 2 The laboratory ran this test for the full duration following all procedural requirements; and all operational validity requirements of the latest version of the applicable test procedure (ASTM or other), including all updates issued by the organization responsible for the test, were met.
Yes__X__ No_____*

If the response to this Declaration is "No", does the test engineer consider the deviations from operational validity requirements that occurred to be beyond the control of the laboratory?
Yes_____* No_____

No. 3 A deviation occurred for one of the test parameters identified by the organization responsible for the test as being a special case. Yes_____* No__X__ *(This currently applies only to specific deviations identified in the ASTM Information Letter System.)*

CHECK THE APPROPRIATE CONCLUSION

(NA) Operational review of this test indicates that the results should be included in Multiple Test Acceptance Criteria calculations.

(NA) *Operational review of this test indicates that the results should not be included in Multiple Test Acceptance Criteria calculations.

NOTE: *Supporting comments are required for all responses identified with an asterisk.*

Comments: **TERMINATED AFTER INSPECTION AT XXX HOURS PER SPONSOR REQUEST** _____

_____

_____ _____
(Signature) *(Date)*

_____ _____
(Typed Name) *(Title)*

EXAMPLE 6...VALID TEST MEETING ALL REQUIREMENTS 1G2 TERMINATED DUE TO INTERMEDIATE INSPECTION RESULTS