

GEOSCIENCES AND ENGINEERING DIVISION NONCONFORMANCE REPORT

Project No. 06002.01.302

NCR No. 2007-32

PART 1: DESCRIPTION OF NONCONFORMANCE

Contractors from the University of Bristol used uncontrolled software (COMSOL multiphysics) for calculations documented in a Scientific Notebook (619) and a letter report (IM 06002.01.302.730). During the review of a technical report written by University of Bristol contractors, CNWRA staff became aware of the use of uncontrolled software for specific calculations. Upon examination of Scientific Notebook 619, staff determined text in the technical document citing calculations and results made using the uncontrolled document.

Initiated by: N. Adams

Date: 8/24/2007

Action Required by: N. Adams

Response Due Date: 9/7/2007

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: Delete the portion of the letter report that specifically relates to the calculations performed using the uncontrolled software.

Basis of Disposition: The calculations performed using COMSOL multiphysics can be removed from the report without affecting the conclusions or overall content, therefore, the authors have chosen to delete COMSOL-specific references from the text. The authors also considered applying the provisions of TOP-018 for single use software, however, this would require acquisition of the source code which is not feasible given expenses and the likelihood of no future use of the software.

Action to Correct Nonconformance: The calculations performed using COMSOL multiphysics will be removed from the report. A red-line version of the revised text highlighting the removal of the COMSOL multiphysics calculations is attached.

Target date for completion: 8/31/2007

Proposed by: N. Adams

Date: 8/24/2007

PART 3: APPROVAL

Manager:

Gordon Willmeyer

Date:

9/6/2007

Director of QA:

RLB

Date:

9/7/2007

Comments/Instructions:

PART 4: CLOSE OUT

Comments:

*Report was issued deleting
reference to calculations performed
with unqualified software.*

Verified by:

RLB

Date:

9/7/07

Distribution:

Original-QA Records

ORIGINATOR

PRINCIPAL INVESTIGATOR N. Adams

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ASSISTANT DIRECTOR G. Willmeyer