



**GEOSCIENCES AND ENGINEERING DIVISION
QUALITY ASSURANCE
SURVEILLANCE REPORT**

PROJECT NO.: Various

REPORT No.: 2006-06

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SURVEILLANCE SCOPE: Development and control of scientific and engineering software.

REFERENCE DOCUMENTS: TOP-018, Development and Control of Scientific and Engineering Software

START DATE:
March 9, 2006

END DATE:
March 10, 2006

QA REPRESENTATIVE:
Randolph Folck *Randy Folck*

PERSONS CONDUCTING ACTIVITY: R. Janetzke, J. Menchaca

SATISFACTORY FINDINGS:

Assessed development of TPA Version 5.1 software, scheduled for delivery April 14, 2006. Verified:

- Development, approval and deployment of a Software Requirements Description, TOP-018, 5.2
- Development, approval and use of a Software Development Plan, TOP-018, 5.3
- Internal documentation of software, TOP-018, 5.4.3 - 5.4.5
- Acceptance testing, TOP-018, 5.6.2

Requirements traceability is managed effectively through the use of Software Change Reports.

UNSATISFACTORY FINDINGS:

Software Change Report numbers 604 and 607 were documented as in-line comments but not included in the source code header information. See TOP-018, 5.4.5. Since TPA development was still in-process, no NCR or CAR was issued.

NCR NO.: None

CAR NO.: None

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS:

In addition to adding or modifying functionality to the software, a developer may include range or error checking routines. Testers should evaluate these additional routines in addition to the new or modified functionality.

APPROVED:

R. Janetzke

DATE: 3/10/2006

DISTRIBUTION:

ORIGINAL—QA RECORDS

DIRECTOR, QA

ASSISTANT DIRECTOR *J. Menchaca*

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