



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

PROJECT NO: 20.06002.01.031

REPORT NO: 2005-21

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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

STARTING DATE: November 14, 2005

ENDING DATE: December 2, 2005

QA REPRESENTATIVE: R. Folck

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: N. Franklin, R. Janetzke, G. Adams, S. Painter, S. Painter, S. Stothoff, J. Mancillas, J. Winterle, M. Padilla, G. Adams, L. McKague, C. Manepally

SATISFACTORY FINDINGS:

- Reviewed software development activities and documentation for TPA, Version 5.1. Verified, to varying degrees, implementation of the following TOP-018 requirements:
 - Software requirements identification – 5.2.
 - Software development planning – 5.3.
 - Software development – 5.4.
 - Software change – 5.9.
- Reviewed QA records files for the software listed on the CNWRA Controlled Software Directory. Verified, to varying degrees, implementation of the following TOP-018 requirements:
 - Installation testing – 4.1, 5.6.1.
 - Acceptance testing – 5.6.2.
 - Configuration control and release – 4.2, 5.7.
 - Software validation – 4.3, 5.8
 - Records – 6.1.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO: None

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS:

A number of software projects (i.e., THCPROB, SHOCK) had been initiated with a Software Requirements Description and/or Software Development Plan and later cancelled. Consider processing the QA records for these cancelled software projects.

APPROVED: _____

DIRECTOR OF QUALITY ASSURANCE

DATE: _____

12/21/2005

DISTRIBUTION:

ORIGINAL - QA RECORDS

ORIGINATOR - R. Folck

PRICIPAL INVESTIGATORS

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