



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

PROJECT NO.:N/A	REPORT No.:2006-18	Page 1 of 1
SURVEILLANCE SCOPE: TPA Software Validation Testing		
REFERENCE DOCUMENTS: TOP-018, Development and Control of Scientific and Engineering Software		
START DATE: September 15, 2006	END DATE: September 15, 2006	QA REPRESENTATIVE: Randolph Folck
PERSONS CONDUCTING ACTIVITY: R. Janetzke, J. Winterle		
SATISFACTORY FINDINGS: Reviewed validation of TPA module <i>invent</i> . The validation is documented on Software Validation Report (SVR) No. 3 in accordance with TOP-018 paragraphs 5.8.4, 5.8.7, and 5.8.8. Technical review of this and other SVR's is pending completion, review and approval of the TPA software validation plan (SVP). The SVP is approximately 90% complete. The SVP and software requirements description are also being updated with five "new" requirements identified by the client.		
UNSATISFACTORY FINDINGS: TOP-018, paragraph 5.6.2 requires that acceptance testing be conducted on each intended computer platform and operating system. This testing is intended to identify any problems related to how the developed software interacts with the target operating system and/or hardware. For TPA, this requires acceptance testing to be performed on a PC/Windows XP platform and a Unix/Solaris platform. However, TPA acceptance testing and module level validation testing is typically only run on a PC platform or a Unix platform, but not both. To address this TOP-018 requirement, the SVP will require that the software be subjected to a "significant" system level test once module level validation testing is complete. This system level test will exercise all TPA modules and will be run on each intended computer platform. No CAR/NCR was issued since this plan of action will address the intent of the TOP-018 requirement. See recommendation.		
NCR NO.: None	CAR NO.:None	
ATTACHMENTS: None		
RECOMMENDATIONS/ACTIONS: Clarify TOP-018 to allow computer platform level testing be performed during acceptance test or validation testing as long as it is completed prior to release and use of the software.		
APPROVED:  DATE: <u>9/19/2006</u>	DISTRIBUTION: ORIGINAL—QA RECORDS DIRECTOR, QA ASSISTANT DIRECTOR S. Mohanty MANAGER J. Winterle PRINCIPAL INVESTIGATOR R. Janetzke	