

MAY 2 0 2003

Mr. Daniel E. Glenn, Manager U. S. Department of Energy National Nuclear Security Administration Pantex Site Office P. O. Box 30030 Amarillo, TX 79120-0030

NNSA/PXSO Memorandum, Glenn to Mallory, dated May 1, 2003, Comments to BWXT Pantex

Response to Move Right System, Interactive Electronic Procedure System & Software Quality

Assurance Concerns Cited by DNFSB and NNSA PXSO

Ref: Letter to Daniel E. Glenn of May 12, 2003

Dear Mr. Glenn:

This letter provides an updated schedule of the Software Quality Assurance (SQA) activities for the Interactive Electronic Procedures (IEP) system. The attached schedule reflects the increased depth and rigor of validation testing to assure quality and readiness of this safety-related system. The principal difference between the attached IEP schedule and the initial schedule submitted May 12, 2003, is six weeks of additional validation testing. Software and migration package testing includes rigorous validation of the commercial off-the-shelf software (COTS), BWXT Pantex customizations, and all system interfaces.

BWXT Pantex is committed to assuring the SQA program will provide the defined results with confidence and credibility.

If you have any specific questions on the actions, please contact Gary E. Pool at 477-3782 for details.

Very truly yours,

Michael B. Mallory

General Manager

Attachments: as stated

APPENDIX C IEP SQA ACTION PLAN UPDATED 5/15/2003

Actions	Scheduled Completion
Publish all IEP Solumina SQA documentation with all necessary reviews	6/30/2003
and approvals. Over 120 documents have been identified to complete this	0/30/2003
activity including the following items:	
O Updated Requirements Specification (RS) and Quality	
Requirements (QR). Updated RS includes all functions (both	
COTS and customization) and additions since procurement.	
o Software Safety Plan (SP) updated with identification of safety	
elements in the system and flow down into all other SQA	
documentation.	
o Maintenance Procedures and Plans (MP) that document tasks	
required to coordinate and modify software components of the	
IEP Solumina system across five sites.	
o Individual Design Descriptions (DD), Test Plans (TP), and	
Installation Plans (IP) for each component of and interface to the	
IEP Solumina system. This includes documentation of	
contingency plans for missing or corrupted interface data	
identified in the Software Safety Plan (SP). Test Plans will be	
detailed to include overall system testing procedures, test cases	
with positive and negative outcomes, regression testing, and test	
results.	
o IEP Solumina System Technical Characteristic (CE) documents	
include: System Architecture, Product Definition, and	
Qualification Strategy (SNL).	
o Materials Lists including a Flow Chart (FC1A2738) for the entire	
system and ML for each system component and interface.	•
o Education Plan (EP), describing training plans of instruction	
(POI) for all system users and technical training requirements for	
application developers and Help Desk personnel.	
o User Documentation (UD) includes User manuals (4 volumes),	••
Writer's Guide, and Plant Standard on the IEP System.	
Complete Human Factors evaluation of the IEP Solumina shop floor	5/31/2003
interface and publish evaluation report (SNL/LANL).	
Perform a Gap Analysis between the current IEP SQA Documentation and	6/30/2003
the new SQA Program requirements.	3.2 4.2 3 3
Provide a resource-loaded schedule for SQA plan activities to	6/30/2003
NNSA/PXSO.	
Complete Validation Testing of IEP System. This includes validation of	8/15/2003
COTS Solumina software, Pantex customization, and all system	-: · ·
interfaces. Testing will be performed twice, once for validation of	
software, and second time for validation of the migration package.	

Actions	Scheduled Completion
Complete Qualification Requirements (PQ), which includes requirements to qualify the system at each remote site, at the software component level, the application functionality level, and the overall system level (SNL/LANL/LLNL).	7/30/2003
Complete Qualification of the IEP Solumina system by issuing six QERs: one for each remote site, software components, application functionality, and the overall system (SNL/LANL/LLNL).	9/12/2003
Complete Readiness Verification of the IEP Solumina System by issuing BWXT Pantex readiness letter.	9/15/2003
Complete IEP Nuclear Explosive Safety Master Study (NNSA).	10/31/2003
Maintain documentation of problem tracking and resolution as detailed in the QR, and follow SQLC for enhancements to the IEP Solumina System as detailed in the MP documents.	On-going

cc:

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