1/30/2012

TO: G. B. Stephenson   PSC Associate Laboratory Director

FROM: T. Barkalow   PSC ESH/QA Coordinator

SUBJECT: Crosswalk of Argonne Quality Assurance Program Plan Topic Areas with Argonne Implementing Documents and APS Procedures

Reference: Memorandum Barkalow to Stephenson, 7/1/2011, APS Quality Assurance Program Plan (QAPP) – Safety Software Quality Assurance, APS_1422392

The referenced memorandum noted that APS QAPP, Revision 3, would not be revised to update it and that it could be discontinued. The process for retiring the APS QAPP was described as being "…to evaluate each topic area, including significant specific QA requirements, and determining whether or not an APS specific implementation procedure is needed, or would be useful, in fulfilling the Argonne LMS procedural requirements." The referenced memorandum documented that the first topic evaluated was safety software quality assurance (SSQA) with the result being that no APS procedure was required based on the requisite details being available in Argonne LMS-PROC-114 *Identifying Safety Software and Safety Software Quality Assurance Work Activities*. This conclusion subsequently was used to resolve the IMTS items associated with two findings from the DOE 2010 SSQA Functional Area Review (FAR) that were related to the APS QAPP vis-à-vis SSQA. The APS portion of the Argonne Corrective Action Plan prepared and submitted to DOE incorporated the referenced memorandum.

The purpose of this memorandum is to document that the remaining Argonne QAPP topic areas have been evaluated with the conclusion that no new APS procedures are required at this time.

Attached is a table prepared by Donna Ferguson, AES QA Engineering Specialist, listing the applicable Argonne and APS procedures for each QAPP topic area. The Argonne procedure list is based on Appendix C to Argonne QAPP revision 3. The listed APS procedures were based upon the results of a review of APS procedures by Donna Ferguson and her judgment that the APS procedures involve Argonne QAPP criteria and/or Argonne procedure requirements.

The conclusion is that the Argonne QAPP implementing procedures and APS procedures identified in the crosswalk are sufficient to implement the 10 criteria of DOE O 414.1D. No additional APS procedures are needed at this time.

The APS QAPP is no longer in effect and is being maintained in ICMS for informational purposes only.

Attachment
cc w/att: W. Ruzicka   D. Mills   J. W. Lang   D. Ferguson
                L. Young   D. Mancini   P. Rossi   ICMS
                A. Zholents   E. Chang   B. Koehler, ESQ-QA
                R. Gerig   B. Glagola   T. Barsz, ESQ-QA

ANL/APS QAP Document Crosswalk

Criteria	ANL Procedure	APS Procedure
Program	LMS-POL-9, Quality Policy CONFIG-1, MANAGEMENT LMS-PROC-9, Conduct of Operations LMS-PROC-53, Annual Review of the Laboratory Management System LMS-PROC-100, Preparing Laboratory Management System Policies and Procedures for Publication PROJECT-11, Appendix D ES&H and Quality Management Guide Laboratory Management System (LMS) Argonne, Worker Safety and Health/ Integrated Safety Management System ANL Accelerator Safety Review committee LMS-PROC-80, Roles, Responsibilities, Authorities and Accountabilities LMS-PROC-125, Applying the Graded Approach for Quality	APS Organization Chart (APS_1183324) APS-3.1.1.1.0, Advanced Photon Source Conduct of Operations Manual (APS_1180311) APS 3.1.101 APS User Administrative Policies and Procedures (APS_1258423)
Personnel Training and Qualification	LSM-HR-2200.2, Placement employment Procedure Position Description System LMS-PROC-16, Mandatory Training LMS-PROC-10, Performance Appraisals LMS-PROC-44, New Employee Orientation LMS-PROC-65, Skill of the Worker LMS-PROC-85, Subject Matter Expert Qualification LMS-PROC-166, Employee Training and Development Courses	APS personnel utilize the existing Argonne National Laboratory system with no additional local procedures. APS 3.1.103 APS User Training Policies and Procedures (APS_1258434)
Quality Improvement	LMS-PROC-3, Control of Nonconforming Products and Services	APS-3.1.36 Nonconformance to Safety Standards (APS_1258430)

	LMS-PROC-63, Performance Evaluation and Measurement Plan: Reporting and Reviewing Results LMS-PROC-82, Managing Noncompliance Issues Covered by the Argonne Enforcement Program LMS-PROC-89, Fact Finding and Incident Investigation LMS-PROC-90Incident Scene Preservation and Collection and Control of Evidence LMS-PROC-92, Causal Factor Analysis LMS-PROC-104, Control of Nonconforming Product during Receiving Operations LMS-PROC-157, Incident Notification LMS-PROC-187, Occurrence Reporting and Notification PROJECT-21, Appendix N Lessons Learned LMS-PROC-25, Scientific User Facilities Facility Metrics LMS-PROC-28 Scientific User Facilities: Providing User Services LMS-PROC-56 Issue Analysis and Process Change Assigning Issues LMS-PROC-133, Lessons Learned Occurrence "Reporting and Processing System (ORPS) National Tracking System (NTS) LMS-PROC-4, Issues Management and Corrective and Preventive Action	
Documents and Records	LMS-PROC-1, Implementation of Document Control Requirements LMS-PROC-2, Records Management and Control CONFIG-5, Document Control LMS-PROC-7, Local Policies and Procedures Published through the Argonne Document Center LMS-PROC-8, Policy and Procedure Writing	Requirements Specification Argonne National Labs Policies & Procedures Integrated Content Management System (APS_125228) APS 3.1.05 Managing APS Facility Procedures (APS_1001409) APS 3.1.105 Controlling APS Documents (APS_1273342)

		APS 3.1.119 Field Modification of an APS Procedure (APS_1408152) APS 3.1.106 Releasing Statements of Work, Technical Specification, Light Source Notes and Review Documentation as Controlled Documents (APS_1281216) APS 3.1.109 Web Publication Policy (APS_1258345) APS 51-00007 APS Backup Policy (APS_1253310) APS 3.1.110 Procedure Administrators' Instructions for Managing APS Policies and Procedures (APS_1281452)
Work Processes	Integrated Safety Management LMS-PROC-26, Scientific User Facilities: Operations and Maintenance CONFIG-3, Work Control LMS-POL-16, Work Planning and Control LMS-PROC-33, Project Management LMS-PROC-52, Research, Development and Engineering PROJECT-13, Appendix F Technical Baseline of Work Scope Definition LMS-PROC-64, Non-Experimental Work Planning and Control LMS-PROC-65 Non-Experimental Skill of the Worker LMS-PROC-79, Experimental Work Planning and Control LMS-PROC-200, Local Work Planning and Control Implementing Procedures LMS-PROC-50, Control and Calibration of Measuring and Test Equipment	APS 3.1.25 APS Experiment Safety Reviews (APS_1187022) APS 3.1.113 Control of APS Measuring and Test Equipment (APS_1281549) APS 3.1.39 Sample Identification (APS_1412805) APS 3.1.07 Beamline ESH Programs (APS_1410274) APS 3.1.18 Beamline Facility Reviews (APS_1180581) APS 3.1.29 Issuance of Ionizing Radiation Dosimeters at the APS (APS_1215504) APS 1110-00147, Management of Broken Beryllium Windows and Equipment Contaminated with Beryllium Oxide (APS_1191124)

	LMS-PROC-47, Suspect/Counterfeit Items LMS-PROC-49, Receipt Inspection LMS-PROC-51 Inspection and Acceptance LMS-PROC-114, Identifying Safety Software and Safety Software Quality Assurance Work Activities LMS-PROC-161, Software Management and Inventory	APS 3.1.21 User Electrical Equipment Inspections (APS_1180984) APS 3.1.13 LOM/User Machine Shop Access (APS_131331) APS 1-01304 Policy on Design, Installation, and Maintenance of Radiation Safety Systems (APS_1189715) APS 3.1.35 Low-activity Sealed Radioactive Sources (APS_1410269) APS 3.1.26 Radioactive Samples (APS_1187383) APS 3.1.14 Machining Lead in LOM Shops (APS_1000047) APS 3.1.27 Storage Ring Access for Emergency Repairs (APS_1187358) APS 3.1.03 Working on Beamline and Front-End Shielding Components (APS_1181699) APS 3.1.117 Introduction and Use of the APS Work Request System (APS_1302758) APS 3.1.116 Performing Non-Experimental Work on Accelerator and Beamline Systems at the APS (APS_1302658) APS 3.1.118 Implementing Non-Experimental Work Planning and Control at the APS (APS_1305115) APS-3.1.2.1.0 Advanced Photon Source Safety Assessment Document (APS_1188832)

Design	LMS-PROC-114, Identifying Safety Software and Safety Software Quality Assurance Work Activities LMS-PROC-85, Subject Matter Expert Qualification CONFIG-1, Management CONFIG-2, Design Requirements CONFIG-3, Work Control CONFIG-4, Change Control LMS-PROC-52, Research, Development and Engineering	APS 3.1.01 APS Design Review (APS_000031) APS 3.1.37 Beamline Vacuum Policy (APS_1410422) APS 3.1.38 Third Party Contractors (APS_1410423) APS 3.1.104 Radiation Enclosure Roof Installations (APS_1258456)
Procurement	LMS-PROC-22, Safeguarding Protected Personally Identifiable Information LMS-PROC-49, Receipt Inspection LMS-PROC-114, Identifying Safety Software and Safety Software Quality Assurance Work Activities ARGPOL-3, Equal Employment Opportunity, Affirmative Action and Diversity Programs LMS-PROC-3, Control of Nonconforming Products and Services LMS-PROC-48, Requesting Supplier Evaluation LMS-PROC-49, Receipt Inspection LMS-PROC-116, Commercial Grade Dedication PROCURE -2.1.1, Customer Procurement Information PROCURE-2.5 Customer Procurement Information – Purchase Requisitions PROCURE-8.27 DOE Specific Requirements PROJECT-16, Appendix I Procurement Planning & Management PROJECT-17, Appendix J Project Change Control PROJECT-20, Appendix M Project Closeout	APS personnel utilize the existing Argonne National Laboratory system with no additional local procedures.

| Inspection and Acceptance Testing | LMS-PROC-49, Receipt Inspection
LMS-PROC-51, Inspection and Acceptance
LMS-PROC-3, Control of Nonconforming Products and Services
LMS-PROC-47, Suspect/Counterfeit Items
LMS-PROC-50 Control and Calibration of Measuring and Test Equipment
MATRLS-5.1, Receiving Procedures – Receiving Operations | APS-3.1.36 Nonconformance to Safety Standards (APS_1258430)

Radiation Safety Inspection Traveler Procedure (APS_1218178)

APS 3.1.113 Control of APS Measuring and Test Equipment (APS_1281549)

Calibration Procedure for v-blocks (APS_1281192)
Calibration Procedure for micrometers (APS_1281191)

Calibration Procedure for height gages (APS 1281189)

Calibration Procedure for dial indicators (APS 1281188)

Calibration Procedure for depth gages (APS 1281187)

Calibration Procedure for Calipers (APS_1281186)

Calibration Procedure for angle blocks and parallels (APS_1281185)

Calibration Procedure for 123 Blocks (APS_1281184)

LCLS CAM Support System Calibration Procedure (APS 1274139)

Hall Probe Calibration System Operation Procedure (APS_1274134)

Calibration Procedure for 4-20mA Loop Simulators (APS_1203673)

PSG Transductor Calibration |

		Procedure (APS _1196463)
Management Assessments	ACCEL-7, Assessments CONFIG-6, Assessments LMS-PROC-193, Management Assessment LMS-PROC-194 Integrated Assessment Program LMS-PROC-195, Walk-Throughs, Inspections, Operational Monitoring and Other Self-Assessment Activities LMS-PROC-196, Extent of Condition Reviews CONFIG-6, Assessments LMS-PROC-4, Issues Management and Corrective and Preventive Action	APS personnel utilize the existing Argonne National Laboratory system with no additional local procedures.
Independent Assessment	PMA-PROC-3, Independent Assessments and Surveillances CONFIG-6, Assessments LMS-PROC-4, Issues Management and Corrective and Preventive Action LMS-PROC-6, Independent Assessment LMS-PROC-194 Integrated Assessment Program LMS-PROC-196, Extent of Condition Reviews	APS personnel utilize the existing Argonne National Laboratory system with no additional local procedures.
S/CI Items	LMS-PROC-47, Suspect/Counterfeit Items	APS personnel utilize the existing Argonne National Laboratory system with no additional local procedures.
Software and Safety Software	LMS-PROC-114, Identifying Safety Software and Safety Software Quality Assurance Work Activities	Procedure for Software Upgrades and Patches (APS_1415873) Procedure Automation, Date Logging, & Other Software (APS_1183763) APS SR Steering Software Testing Procedure (APS_1424292) AES/SI ACIS and PSS Safety Software Configuration Control (APS_1412978)

		Safety Interlocks Group Engineering Change Request (ECR) Procedure (APS_1289154)