

Advanced Photon Source

PROCEDURE	Page 1 of 6
Procedure #:	3.1.136
Revision #:	0
Issue Date:	5/28/13
Review Period:	2 years
Supersedes:	n/a
Last Reviewed:	5/28/13

Power Systems Group Engineering Document Management Plan

Changes made in this revision:

- N/A (new revision)

Prepared by:

T. Fors, ASD/PSG

Reviewed by:

ASD/PSG/GL

ASD/QAR

ASD/ADD-APO

Approved by:

ASD/DD

APS_1437610

The current version of this procedure is accessible from <http://centraldocs.aps.anl.gov/>. Print or electronically downloaded copies may be obsolete. Before using such a copy for work direction, employees must verify that it is current by comparing its revision number to that shown in the online version.

PROCEDURE	Page 2 of 6
Procedure #:	3.1.136
Revision #:	0

Table of Contents

1	Introduction	3
1.1	Related Documents	3
2	Repository Use and Revision Tracking for Engineering Documents	3
3	Group-shared File Systems and Revision Control Systems (RCS)	5
4	Document/Drawing Requirements.....	5
5	Software Tools	5
6	Alias Project Naming Convention (if any)	5
7	Alias Drawing Naming/Numbering Convention (if any).....	5
8	Group-specific EDP Collection Browse Categories	6
9	Feedback and Improvement.....	6

Power Systems Group Engineering Document Management Plan

1 Introduction

This document sets forth group-specific guidelines for management of engineering documents and drawings consistent with the Managing APS Documents Policy ([APS 1273342](#)). The Power Systems (PS) Group is required to have such a policy in place to guide their staff in the details of controlling their engineering documents under this procedure.

1.1 Related Documents

- Managing APS Documents Policy ([APS 1273342](#))
- Managing APS Engineering Documents ([APS 1423689](#))
- APS Design and Drafting Drawing Standard ([APS 1429632](#))
- [Argonne Quality Assurance Program Plan](#)

2 Repository Use and Revision Tracking for Engineering Documents

[Table 1](#), which is copied from the Managing APS Documents policy ([APS 1273342](#)), maps the valid document repositories with the workflows that are supported by each repository.

Table 1: Work Flows and Revision Tracking Capability per Repository Type

Repository	Staff-controlled / No Revision Tracking (Not a controlled document)	Staff-controlled / Revision Tracking (Not a controlled document)	Controlled Document (A formal change procedure including an approval workflow and Revision Tracking)
Group-Shared File System (GSFS)	X		
Group-Shared File System Plus a Revision Control System (RCS)		X	
ICMS		X	X (with approval thread)
Vault			X
PDMLink			X

The left column of [Table 2](#) lists the types of documents generated by the PS Group in its routine operation. The rest of the table gives guidance on which workflow and repository should be used for each type of document.

Table 2: Work File Repository Usage

Criteria	Staff-controlled/ No Revision Tracking	Staff-controlled / Revision Tracking		Controlled Document			Drawing must meet D&D Standard (APS 1429632)
	Group-shared File System (GSFS) [1]	GSFS + RCS [1]	ICMS	ICMS (with approval thread)	Vault	PDMLink	
SAFETY: RSS Critical Component or Personnel Safety Related				X	X	X	X
EXTERNAL USE: Subject to External Review Fabrication by external vendor Possible Use at Other Facilities				X	X	X	X
Legacy drawings	X						
3rd-Party Documentation [2]			X				
Document/File Types:							
Schematics					X	X	X
Assy. & Mechanical Drawings					X	X	X
PCB Design Files [3]	X	X					
Source Code [4]	X	X					
Specifications			X	X			
DEFAULT	X		X				

Additional Guidance:

- [1] Organize by equipment as much as possible. See [Section 3](#) for more details
- [2] Owner’s Manuals, schematics, specifications, datasheets for purchase components and equipment.
- [3] Includes CAD software schematic and layout files, simulation files, datasheets, etc.
- [4] Includes FPGA design files, embedded CPU and microcontroller source code, scripts for operations support

3 Group-shared File Systems and Revision Control Systems (RCS)

Path: /net/oxygen/pcfiles/pc1/ps_designs

Type of RCS: optional: cvs, svn, git, hg

Directory Structure Guidance:

/net/oxygen/pcfiles/pc1/ps_designs/sr/...

/net/oxygen/pcfiles/pc1/ps_designs/injector/...

4 Document/Drawing Requirements

Criteria	Drawing Requirements
<ul style="list-style-type: none">• Safety-Related• External Use• Schematics• Assy. Drawings• Mech. Drawings	Use Design & Drafting Standard for all drawings associated with these projects

5 Software Tools

Not applicable.

6 Alias Project Naming Convention (if any)

Not applicable.

7 Alias Drawing Naming/Numbering Convention (if any)

Not applicable.

8 Group-specific EDP Collection Browse Categories

- SR
 - Quadrupole
 - Sextupole
 - Raw
 - Corrector
 - Fast Corrector
 - Trim
 - Skew
 - Canted Undulator
 - CPU
 - IEX
 - SCU0
 - Dipole
 - Communications
 - Interlocks
 - Kickers
 - Septums
- Injector
 - Linac
 - LTP
 - PAR
 - PTB
 - PAR Bypass
 - Booster Bypass
 - Booster
 - BTS
 - Injector Test Line
 - Communications

9 Feedback and Improvement

If you are using this procedure and have comments or suggested improvements for it, please go to the [APS Policies and Procedures Comment Form](#)* to submit your input to a Procedure Administrator. If you are reviewing this procedure in workflow, your input must be entered in the comment box when you approve or reject the procedure.

Instructions for execution-time modifications to a policy/procedure can be found in the following document: Field Modification of APS Policy/Procedure ([APS_1408152](#)).

* http://centraldocs.aps.anl.gov/comment_form.php