

Computing Division Major Processes for 2009 As-Is QA Assessment

With Assessed As-Is Processes Identified

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CD As-is Process List

CD As-Is Status 04/30/2009 (Total = 15/14)	Processes	Sub-processes
Division Administration, Management, and Program Support Functions		
ES&H Process	1	
Procedure Writing		
Assessment		1
ESH Inspection		1
Providing and Monitoring ESH Training		1
Construction Reviews		1
ESH Program Implementation & Monitoring		1
Facilities Management	1	
Building Management		
Computer Facility Management		1
CD Building Design & Construction		1
Financial Management	1	
Budget Planning and Execution		
Expenditure Tracking & Reporting		1
Management	1	
Work Planning & Execution		1
IT Infrastructure for both Scientific and Administrative Functions		
Cyber Security	1	
Cyber Security Program		
Cyber Security Assessment		1
Linux/Mac support	1	
Networking	1	
Scientific Tools, Services and Facilities development and support		
Electronic Engineering	1	
Electronic Design & Development		
Equipment Repair		1
Measurement & Test Equipment		1
Machine Deployment	1	
Machine Deployment Life Cycle		
Data Management	1	
Scientific Program Operations	1	
Scientific Research	1	

Cross-cutting Activities		
Incident Management	1	
Service Catalog	1	1
Item Control including S/CI	1	
Standard Item Control		
Critical Asset Management		1

CD Activity Based Processes

The CD Activities List as of 1/22/2009 is given below. A representative sample of these activities were assessed during the as-is assessment process. Software development activities were excluded. Activities covered directly or indirectly during the as-is assessments are highlighted in yellow. Corresponding major process line items from the table above are included in bold.

1. Division Administration, Management, and Program Support Functions
 - 1.1. CD Management
 - 1.2. ADMINISTRATIVE SUPPORT
 - 1.2.1. Conferences
 - 1.2.2. Division Administrative Support
 - 1.2.3. Domestic Travel Administrative Support (**Financial management**)
 - 1.2.4. Foreign Travel Administrative Support
 - 1.2.5. Human Resources Support
 - 1.2.6. Information Content Support
 - 1.3. COMMUNICATIONS & OUTREACH
 - 1.3.1. Outreach
 - 1.3.2. Super Computing
 - 1.3.3. Video Project
 - 1.4. COMPUTER FACILITY+ES&H (**ES&H Processes**)
 - 1.4.1. Computer Facility Support
 - 1.4.2. EEOICPA
 - 1.4.3. Safety
 - 1.5. DATABASES & INFO MANAGEMENT (Mainly software)
 - 1.6. DIVISION WORK
 - 1.6.1. Conferences & Travel - Non Project related
 - 1.6.2. Infrastructure Support - Non Project related
 - 1.6.3. Training - Non Project related
 - 1.7. PROJECT & FINANCIAL SUPPORT (**Management**)
 - 1.7.1. Division Financial Services
 - 1.7.2. Project Management & QA
2. IT Infrastructure for both Scientific and Administrative Functions
 - 2.1. COMPUTER SECURITY (**Cybersecurity**)
 - 2.1.1. Computer Safeguards & Security
 - 2.1.2. Computer Security
 - 2.1.3. CS Administration
 - 2.1.4. Security Life Cycle Process
 - 2.2. CORE SERVICES (Linux OS support was chosen as the representative process)
 - 2.2.1. Authentication Services

- 2.2.2. Central Services
- 2.2.3. FNALU Support
- 2.2.4. Infrastructure Support (**Service catalog**)
- 2.2.5. Linux OS Support (**Linux/Mac Support**)
- 2.2.6. MAC OS Support
- 2.2.7. Mail
- 2.2.8. NGOP Services
- 2.2.9. Print Services
- 2.2.10. SAN & NAS (**Machine Deployment/ Scientific Program Operation**)
- 2.2.11. Site-Wide Backups
- 2.2.12. Web Support
- 2.2.13. Windows OS Support
- 2.3. CUSTOMER SERVICES
 - 2.3.1. Equipment Handling (**Facilities Management**)
 - 2.3.2. Helpdesk (**Incident Management**)
 - 2.3.3. Software Licenses (**Financial Management**)
- 2.4. DATABASES & INFO MANAGEMENT (**Data Management**)
- 2.5. DESKTOP & SERVER SUPPORT
- 2.6. SITE NETWORKING (**Networking**)
- 3. Scientific Tools, Services and Facilities development and support
 - 3.1. COMPUTATIONAL PHYSICS FOR ACCELERATORS
 - 3.1.1. DAQ & Controls (Mainly software)
 - 3.1.2. ILC Instrumentation (not very active)
 - 3.2. DATA MOVEMENT & STORAGE (**Machine Deployment/Scientific Program Operation**)
 - 3.2.1. LOWER STORAGE
 - 3.2.2. UPPER STORAGE
 - 3.3. DATABASES & INFO MANAGEMENT (Mainly software)
 - 3.4. ENGINEERING SUPPORT (**Electronic Engineering**)
 - 3.4.1. Accelerator Electronics Support
 - 3.4.2. CDF ESE Electronics Support
 - 3.4.3. CMS silicon and Trigger Upgrade
 - 3.4.4. D0 ESE Electronics Support
 - 3.4.5. ESE TOOLS
 - 3.4.6. ILC LLRF
 - 3.4.7. Nova Hardware
 - 3.4.8. PREP
 - 3.5. Grid
 - 3.5.1. Coordination
 - 3.5.2. Security (Cybersecurity)
 - 3.6. SCIENTIFIC COMPUTING (**Machine Deployment**)
 - 3.6.1. General-Purpose Farms
 - 3.6.2. Procurement Support
 - 3.6.3. System Administration
 - 3.7. SCIENTIFIC DATABASES & APPLICATIONS (**Scientific Program Support/Data Management**)
 - 3.7.1. Database Administration
 - 3.8. WIDE AREA NETWORKING
 - 3.8.1. Advanced WAN Infrastructure
 - 3.8.2. CMS
 - 3.8.3. Global Network Interfaces
 - 3.8.4. Network Investigation
 - 3.8.5. Network Research
 - 3.8.6. Network Upgrades

- 3.8.7. Operations
- 4. Scientific Program specific operations, development and investigations (USCMS program was selected as the representative scientific program)
 - 4.1. LATTICE QCD
 - 4.2. LHC (Machine Deployment)
 - 4.2.1. USCMS Grid Services and Interfaces
 - 4.2.2. USCMS Storage Manager
 - 4.3. NEUTRINO PROGRAM
 - 4.4. SCIENTIFIC COMPUTING (US CMS Tier 1 Computing) (Mainly software)
- 5. Scientific Research, leadership and requirements specification (pending science guidance) (Scientific Research)
- 6. Cross-Cutting
 - 6.1. Item Control – covered in items above