

TABLE OF CONTENTS

210 SYSTEM LIST

RECORD OF REVISIONS

Rev	Date	Description	POC	OIC
0	9/26/01	Initial issue. Acronym changes with each revision of this document.	Tobin H. Oruch, <i>FWO-SEM</i>	Mitch S. Harris, <i>FWO-SEM</i>
1	2/9/04	Extended to new systems, changed “facility generic” list title to facility and program,	Tobin H. Oruch, <i>FWO-DO</i>	Gurinder Grewal, <i>FWO-DO</i>
2	8/16/04	Common Systems List now Att 1, does not require ESB meeting for approval.	Tobin H. Oruch, <i>FWO-DO</i>	Gurinder Grewal, <i>FWO-DO</i>
3	10/27/06	IMP and ISD number changes based on new Conduct of Engineering IMP 341. Minor administrative changes.	Tobin H. Oruch, <i>CENG</i>	Kirk Christensen, <i>CENG</i>
4	6/10/09	Att 1 posted as spreadsheet; changes no longer summarized in rev record.	Tobin H. Oruch, <i>CENG</i>	Gary Read, <i>CENG</i>
5	2/17/12	Minor clarifications and system list expansion. List may be updated independently of this document.	Tobin H. Oruch, <i>CENG</i>	Larry Goen, <i>CENG</i>

CONTACT THE RESPONSIBLE ENGINEERING STANDARDS POC
for upkeep, interpretation, and variance issues

Ch. 1, 210	<u>ESM Component Nomenclature POC/Committee</u>
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1.0 SYSTEM LIST (FACILITY AND R&D/PROCESS/PROGRAMMATIC)

1. Use this section in conjunction with the overall numbering and labeling convention described by Section 200.
2. The system titles and acronyms in this subsection shall be used for all new building and system design/labeling, and also adopted whenever modifying over 70% of an existing system's components.¹
3. Requests for addition to or modification of the listing shall be directed to the [Component Number/Labeling POC](#), who can grant approval for interim use until listing is revised.²

Guidance:

1. *Use of this section is also encouraged for smaller, existing-facility projects and labeling/documentation upgrade efforts, since adoption of standard nomenclature ensures gradual progression toward consistently identified systems and components on labels, drawings, procedures, databases, and system design descriptions; this facilitates operations and maintenance.*
2. *The acronyms in this section are the system part of the component nomenclature process described by Chapter 1, Section 230. System designation is further described there.*
3. *For requirements on system boundary setting, see Chapter 1 Section 220.*
4. *Each system should receive its own unique identifier; there is no miscellaneous category.*
5. *Systems are defined as elements (subsystems, equipment, components) with physical or notional interconnection and collective purpose.*
6. *In Att 1, old terms may be provided to assist with search and selection.*

ATTACHMENTS

Attachment 1, the system list with definitions is webposted as a single Excel file at http://engstandards.lanl.gov/ESM_Chapters.shtml#esm1

¹ Fifty percent is a generally accepted threshold for system upgrade to current standards when modifying it; this has a basis in safety and cost effectiveness (ref IEBC). Component identification relates to safety and cost effectiveness, though arguably less so; thus 70 percent was chosen.

² Attachment 1 revisions do not require the Engineering Standards Board's meeting or QA or independent technical review prior to approval by CENG Office Director as they are fundamentally non-technical. May be revised independently of body of this document.