

**Attachment B Technical Baseline Minimum Deliverables (New Facilities and Systems)**

This appendix defines the deliverables considered the technical baseline that are required for new facilities, major modifications, and new systems.<sup>1</sup>

For new systems, only system-specific documents/revisions are required (e.g., this does not force that an FDD be produced due solely to a new system introduction).

The Facility Safety Plan, Safety Documentation, and procedure sets are normally LANL responsibility; all other items shall be delivered by the Design Agency (AE) unless the LANL Project obtains variance on this requirement.

Should other Tier-2 LANL Policy Center documents (i.e., Ps and PDs) regarding these documents conflict, the Site Chief Engineer shall determine path forward.

**NOTES**

Symbols: √ - Required; na – Not applicable

1. Facility Hazard Category obtained from facility safety documentation.
2. Management Levels (ML) provided by Design Authority as design input.
3. ML-3 SSC credited with safety function in the facility safety documentation.
4. ML-3 SSC with **no** safety function credited in the facility safety documentation
5. Not shown as required here, but initial delivery by Design Agency may be required elsewhere in the Eng Standards. Furthermore, the Facility Operations Director who will operate the new building may, at his/her discretion, include any additional documents in the facility tech baseline.
6. Facility Design Description format and content is described by Section Z10 App D. Only required for new facilities and major renovation/retrofit of existing.
7. MEL and MDL contents described by Section Z10.
8. SDD requirements in ESM Ch 12-Nuclear (and 10-Hazardous).
9. Process control software QA documentation per [P 1040](#), *Software Quality Management* and/or [P 1041](#), *Nuclear or Radiological Facility Safety Software Quality Management* graded approach or equivalent (also ref ESM Ch 8 I&C).

**Table NON/ACT: Minimum Technical Baseline Documentation -- Active SSCs in Non-Nuclear Facilities**

AE	LANL	Baseline Documents	High Hazard				Moderate Hazard <sup>(1)</sup>				Low Hazard <sup>(1)</sup>			
	X	Facility Safety Plan	Yes				Yes				Yes			
	X	Safety Documentation	Yes				Yes				na			
X		Drawings	Required for all facilities; details in Z10 App C and other ESM chapters											
		<b>SSC Management Level<sup>(2)</sup></b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
X		System Des Descrip'n	√	√	(5)	(5)	na	√	(5)	(5)	na	na	na	na
X		Facility Des Descripn(6)	√				√				(5)			
X		Master Equipment List	√	√	√	√	na	√	√	√	na	na	√	√
X		Process Control Software QA Docum'n	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)
X		Master Document List	√	√	√	√	na	√	√	√	na	na	√	√
	X	Operating Procedures	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)
	X	Maintenance Procedures	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)
	X	Surveillance Proc's	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)

<sup>1</sup> These requirements were adapted from Configuration Management LIR 240-01-01.2 which was replaced by new requirements in this section of Z10 as well as PD341 Engineering Processes Manual. These requirements reflect the greater cost-effectiveness of producing documentation during design versus design reconstitution in an existing facility as driven by PD341.

**Table NON/PAS: Minimum Technical Baseline Documentation -- Passive SSCs in Non-Nuclear Facilities**

AE	LANL	Baseline Documents	High Hazard				Moderate Hazard <sup>(1)</sup>				Low Hazard <sup>(1)</sup>			
	X	Facility Safety Plan	Yes				Yes				Yes			
	X	Safety Documentation	Yes				Yes				na			
X		Drawings	Required for all facilities; details in Z10 App C and other ESM chapters											
		<b>SSC ML Level<sup>(2)</sup></b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
X		FDD (6)	√				√				(5)			
X		Master Document List	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)
	X	Maintenance Procedures	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)
	X	Surveillance Procedures	√	√	(5)	(5)	na	√	(5)	(5)	na	na	(5)	(5)

**Table NUC/ACT: Minimum Technical Baseline Documentation -- Active SSCs in Nuclear Facilities**

AE	LANL	Baseline Documents	Nuclear Category 2 <sup>(1)</sup>				Nuclear Category 3 <sup>(1)</sup>				Radiological <sup>(1)</sup>					
	X	Facility Safety Plan	Yes				Yes				Yes					
	X	Safety Documentation	Yes				Yes				na					
X		Drawings	Required for all facilities; details in Z10 App C and other ESM chapters													
		<b>SSC ML Level<sup>(2)</sup></b>	<b>1</b>	<b>2</b>	<b>3<sup>(3)</sup></b>	<b>3<sup>(4)</sup></b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3<sup>(3)</sup></b>	<b>3<sup>(4)</sup></b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3<sup>(4)</sup></b>	<b>4</b>
X		System Design Descriptions	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	(5)	(5)	(5)
X		Facility Design Description(6)	√				√				√					
X		Master Equipment List	√	√	√	√	√	na	√	√	√	√	na	√	√	√
X		Process Control Software QA Docum'n	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)
X		Master Document List	√	√	√	√	√	na	√	√	√	√	na	√	√	√
	X	Operating Procedures	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)
	X	Maintenance Procedures	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)
	X	Surveillance Procedures	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)

**Table NUC/PAS: Minimum Technical Baseline Documentation -- Passive SSCs in Nuclear Facilities**

AE	LANL	Baseline Documents	Nuclear Category 2 <sup>(1)</sup>				Nuclear Category 3 <sup>(1)</sup>				Radiological <sup>(1)</sup>					
	X	Facility Safety Plan	Yes				Yes				Yes					
	X	Safety Documentation	Yes				Yes				N/A					
X		Drawings	Required for all facilities; details in Z10 App C and other ESM chapters													
		<b>SSC ML Level<sup>(2)</sup></b>	<b>1</b>	<b>2</b>	<b>3<sup>(3)</sup></b>	<b>3<sup>(4)</sup></b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3<sup>(3)</sup></b>	<b>3<sup>(4)</sup></b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3<sup>(4)</sup></b>	<b>4</b>
X		Facility Design Description(6)	√				√				(5)					
X		Master Equipment List	√	√	√	√	√	na	√	√	√	√	na	√	√	√
	X	Master Document List	√	√	√	√	√	na	√	√	√	√	na	√	√	√
	X	Maintenance Procedures	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)
		Surveillance Proc's	√	√	√	(5)	(5)	na	√	√	(5)	(5)	na	√	(5)	(5)