



Pierre Auger Observatory

AugerPrime
Surface Detector Electronics Upgrade
Operation Readiness Review Data Package
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Abstract:
 This document describes the list of the document contained in the Operation Readiness Review Data Package

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<i>Date:</i>	04/04/24	<i>Date:</i>	04/04/24

DOCUMENT CHANGE RECORD

Revision	Issue Date	Changes Approved by	Modified Pages Numbers, Change Explanations and Status
Draft	11/03/2024		
Version 1	04/04/2024		



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Designation	Reference	Version
Section 00: PRR DP Information		
SDEU ORR_DP Table of Content	TBD	1
Section 01: List of components, schematics and drawings		
<i>Section 01.1: UUB</i>		
AugerPrime UUB technical description	EDMS 2281108	1
AugerPrime UUB Mass production documents	EDMS 2159857 (ZIP)	9
AugerPrime UUB V3 Schematics	EDMS 2273336	2
AugerPrime UUB V3 Loose Parts	PAO-000270	n/a
UUB V3 Enclosure drawing	EDMS 2675498	1
UUB V3 Front panel drawing	EDMS 2693329	1
<i>Section 01.2: Small PMT</i>		
Datasheet R8619_TPMH1331E02	EDMS 2491603	1
Hamamatsu PAO_SPMT	Hamamatsu ETD160721 EDMS 2491604	n/a 1
SPMT_Base_Neohm Production Plan	471_100_414_STP EDMS 2491607	Rev A1 1
PMT_Hamamatsu_R8619	EDMS 2491845 (ZIP)	1
PMT_Base_471_100_414_RevA	EDMS 2491846 (ZIP)	1
PMT_Mechanics	EDMS 2491848 (ZIP)	1
PMT_HVPS_CAEN_A7501PB	EDMS 2491847 (ZIP)	1
Section 02: List of Spare components		
<i>Section 02.1: UUB</i>		
AugerPrime_UUB_Spare_Components	EDMS 3072439	1
<i>Section 02.2: Small PMT</i>		
SPMT Spare Parts List	EDMS 3071612	20/03/24
Section 03: Test & Assembly Procedures		
All On site procedures (UUB, SPMT)	https://www.auger.org.ar/SDEU/procedures/index.html	n/a
<i>Section 03.1: UUB</i>		
AugerPrime UUB On Site testing procedure	EDMS 2509437	1
<i>Section 03.2: Small PMT</i>		
SPMT_ZENER_Specifications for assembly	EDMS 2491841	1
SPMT_Base_NEOHM_Functional Test	EDMS 2491614	1
SPMT_Base_NEOHM_Setup Test	EDMS 2491614	1
Procedure for the electrical test of the SPMT bases	EDMS 2491614	1
Test bench and validation for the CAEN A7501PB HV-boxes	EDMS 2491843	1



EDMS : 3055569 v.1	
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Section 04: UUB Software and Firmware

UUB S/W & F/W GIT repository	https://gitlab.iap.kit.edu/auger-observatory/sde/uub	protected
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Section 05: Failure Rates and Failure Modes Analysis

Section 05.1: UUB

Failure report (partial) July 2022	https://auger.org.ar/SDEU/uub_status/Failure_report1.pdf	1.1
List of UUB problems at tests and field	https://www.auger.org.ar/SDEU/uub_status/uub_failures.html	23/02/2023

Section 05.2: Small PMT

SPMT problems at test and field	EDMS 3071614	03/04/24
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Section 06: Documents provided during the Review

SDEU ORR Indico page	https://indico.nucleares.unam.mx/event/2179/	
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