

ANNEX B

QUARTERLY PREVENTIVE MAINTENANCE OF THE LIGHTNING AND SURGE PROTECTION SYSTEM AND GROUNDING SYATEM AT PAGASA WFFC COMPOUND

This checklist protection, surge protection, and grounding systems at PAGASA WFFC Compound should cover the key components necessary for maintaining and ensuring the functionality of the lightning

Quarterly Preventive Maintenance Checklist:

COMPONENTS	INSPECTION/ACTION	DETAILS	COMPLETED	COMMENTS
1. Lightning Protection System (LPS)				
Air Terminals (Lightning Rods)	Check for physical damage, corrosion, or loose fittings.			
	Verify proper alignment and height.			
	Ensure no obstructions are present.			
Conductors and Down Conductors	Inspect conductors for signs of wear, damage, or corrosion.			
	Check integrity of connections and bonding at each joint.			
	Confirm proper routing and secure attachment to structural elements.			
Grounding System	Check grounding rods or plates for corrosion or damage.			
	Measure grounding system resistance (target: < 5 ohms).			
	Inspect grounding connections for tightness and corrosion.			
Surge Arresters	Test for proper function and clear debris.			
	Ensure correct connection and inspect for signs of wear.			

2. Power Surge Protection System (PSPS)				
Surge Protectors/Devices (SPDs)	Inspect physical condition for cracks or damage.			
	Test for proper operation and surge response.			
	Check indicators/status lights for proper functioning.			
Electrical Panel	Verify secure connections to SPDs.			
	Inspect circuit breakers for wear and test operation.			
3. Grounding Enhancement System				
Grounding Conductors and Connections	Ensure all grounding conductors are intact and damage-free.			
	Test and verify grounding connections at rods and equipment.			
Testing Ground Resistance	Conduct earth resistance testing to comply with safety standards.			
	Check for resistance increases that may indicate issues.			

COMPONENTS	INSPECTION/ACTION	DETAILS	COMPLETED	COMMENTS
4. Visual Inspections				
Overall System	Visually inspect system for external damage, wear, or corrosion.			
	Ensure no vegetation, dirt, or debris obstructs components.			
5. Functional Testing				
Lightning and Surge Protection Systems	Test lightning protection system for continuity and efficiency.			
	Test all surge protectors for effective electrical spike protection.			
6. Documentation and Reporting				
Record Keeping	Document all maintenance, tests, and inspections.			
	Record any identified issues and corrective actions.			
	Provide summary report with recommendations for improvement/urgent repairs.			

Kindly include **Details**, **Date Completed** and **Comments** to track the maintenance process and log any additional observations

Prepared by:

Date;