

IMSP-AMS-005 January 1st 2023

1.0 Purpose:

The purpose of this procedure is to ensure processes are in place for the active implementation of maintenance plan of systems and equipment within the Nassau Cruise Port Limited (NCPL) facilities.

2.0 Responsibility:

The Projects and Facilities Manager is responsible for ensuring that the following procedures are effectively implemented and maintained.

3.0 Procedures:

3.1 Implementation of the Plan

3.1.1 Maintenance Standards / Regulations

The department led by the Director of Projects and Facilities will maintain the culture of excellence all the time and provide the necessary training/courses to achieve the high standards required. The essential components to achieve these standards are described below and are periodic inspections, identification, prioritization, and implementation of jobs followed by assignment, scheduling, and completion of tasks.

It is expected that all employees of the terminal will be involved in the identification, reporting and/or correction of the identified deficient conditions.

3.1.2 Monitoring and Inspection

The facilities will be monitored and inspected regularly as stipulated in previous sections and as reflected in the following table:



M	Date:							
	Action Required							
NASSAU CRUISE PORT	Daily	Weekly	Monthly	Every 6 months	Annual	As required	Emergency	Feedback
Arrivals Plaza								
HVAC								
Respond to emergency calls							٧	
Cold/heat pump maintenance			٧		٧			
Filter replacement			٧			٧		
Boiler systems			٧		٧			
Building Automation System	٧				٧			As appropriate
Plumbing, rainwater								
Respond to emergency calls							٧	
Backflow testing – all locations					٧			
Maintenance of the plumbing system			٧		٧			
Elevators								
Respond to maintenance and operations calls							٧	
Annual Inspection / Certification					٧			
Maintenance of the lifting system						٧		
Electrical								
Respond to emergency calls							٧	
Supply and replacement of light bulbs						٧	٧	
Inspection / Service of the electrical system			٧					
Uninterruptible power supply inspection			٧		٧			
Inspection of the electrical panel/controls				٧				
Lighting (terminals, exterior, dock, car parks)	٧							
Fire Prevention System								
Respond to emergency calls							٧	And as required by the date stamped
Fire Extinguisher Inspection			٧		٧			And as required by the date stamped
FM200 Agent Inspection					٧			As appropriate
Fire Sprinkler System Inspection					٧			
Fire Alarm System Inspection					٧			



Location or System			Feedback					
	Daily	Weekly	Monthly	Every 6 months	Yearly	As required	Emergency	,
Security/Safety								
Respond to emergency calls							٧	
Inspect security cameras and			٧			٧		
equipment								
Inspect control accesses,		٧	٧					Monthly inspections carried
scanners, security arches								out by the supplier
Inspect/test the alarm system			٧		٧			
Exterior								
Roof Inspection				٧				
Inspect downspouts				٧				
Visual inspection of façade			٧					
Inspect entrance door,				٧				
windows and locks								
Drainage inspection				٧				
Cleaning	٧							
Emergency Generator								
Respond to emergency calls							٧	
Test Generator Running / ATS			٧				-	
Inspect ATS			•		V			
Fuel tank inspection		٧			•			And after use
Engine maintenance		V			V			And arter use
Liigilie maintenance					V			
Intermodal Area								Such evidence will be reported to APL
Respond to emergency calls							٧	·
Visual inspection of the		٧						
intermodal area		-						
Stormwater system			٧		٧			
Lighting cleaning, supply and						٧	٧	
replacement								
Inspect concrete/asphalt			٧					
surfaces								
Cleaning/sweeping service	٧	٧	٧			٧		
Lift station visual inspection	٧							
Garbage collection	٧	٧						
Piers								Such incidents will be reported to APL
Plumbing								
Respond to emergency calls							٧	
Backflow testing - all locations					٧			



Maintenance of the plumbing		٧			I
system					J

Location or System	Action Required							Feedback
	Daily	Weekly	Monthly	Every 6 months	Yearly	As required	Emergency	
Electricity								
Respond to emergency calls							٧	
Respond to emergency calls						٧	٧	
Supply and replacement of light			٧		٧			
bulbs								
Inspection / Service of the electrical			٧		٧			
system								
Uninterruptible power supply			٧		٧			
inspection				,				
Inspect lighting quality				٧				
Fire Suppression & Alarm								
Respond to emergency calls							٧	
Fire Extinguisher Inspection		٧	٧		٧			
Hydrant inspection			٧		٧			
Fire Alarm System Inspection					٧			as applicable
Structural								
Visual inspection of the slab (and		٧						
concrete finishes)								
Inspection of piles and beams					٧			
Visual inspection of fenders		٧						
Corrosion inspection in bollards		٧						
Lifeguard inspection		٧						
Inspection of emergency stairs		٧						
Gangways								
General inspection (safety	٧							
measures, condition paints and								
rust points)								
Visual inspection of the	٧							
substructure/foundation (screws,								
joints)								
Translation inspection (electric	٧							
driving, condition of the groups,								
condition of the rails, wheel testing, bumper status, final race								
operation, manual operation test).								
Cab inspection - lifting (manual	٧							
final lift test, lifting operation test,	•							
end-of-stroke lift test and								
adjustment)								



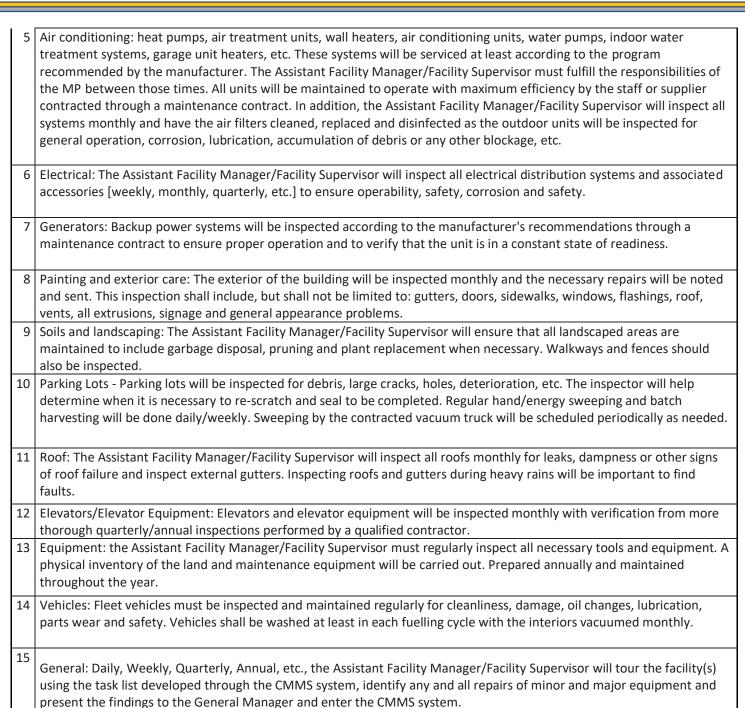
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Location or			Act	ion Requi	red			Feedback
System	Daily	Weekly	Monthly	Every 6 months	Yearly	As required	Emergency	
Cable greasing, corrosion cleaning, anticorrosive paint				٧				
Inspection of electrical installation (control gateway operation, connection of electrical elements in cabinets, emergency push-buttons)	٧							
Fleet of vehicles and								
equipment								
Indoor/outdoor cleaning		٧				٧		Washes at least each fuel load cycle with the interiors vacuumed monthly
Visually inspect the body, engine, undercarriage			٧					
Oil change						٧		3,000km
Lubrication					٧	٧		
Safety Inspection	٧					٧		

NOTES:

- 1 Docks: Each pier will be inspected on a daily rotation schedule. The inspection will include a task list to identify broken or missing parts, electrical pedestals, piping, cleaning, safety and damage by occupants.
- 2 Metal walkways: inspection to identify corrosion, damage, welding quality, lubrication, non-slip surfaces, paint, connection points, rollers and safety.
- 3 Inputs and outputs: each entrance door will be inspected monthly and lubricated semi-annually to determine its operability, safety and security.
- 4 Plumbing: The Assistant Facility Manager/Facility Supervisor will inspect all associated pipes and fittings [weekly, monthly, quarterly, etc.] to make sure there are no leaks and that the fittings are working properly. Anti-siphon devices shall be inspected annually by a certified inspection service. Any corrosion or malfunction will be noted and scheduled for repair/replacement.







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3.1.3 Identification

The objective of preventive maintenance is the identification of critical areas and potential equipment failures. The identification will be organized and managed by hierarchy as follows:

- Identification of the areas of the facility that are critical to the operation.
- Identification of equipment within the facility that is critical to the operation of the areas.
- Identification of recurring tasks required for adequate and timely preventive maintenance.
- Identification, reporting and response to all items related to emergency or high-priority tasks.
- Identify and report all areas/equipment in poor condition and safety-related items.

3.1.4 Prioritization

Once identified, the list of items will be prioritized as follows:

- Monthly: the scheduled Maintenance Plan will be updated in the CMMS system.
- The list of work items by type of demand will be prioritized, maintained, and reviewed regularly.
- The prioritized list will consider safety, critical areas, and assets as the top priority.

3.1.5 Implementation

The prioritized list will be implemented as follows:

- Once identified and prioritized, the work item will be entered into the CMMS system and a work order will be scheduled.
- Following the procedures of the CMMS system, the work order will be assigned to an employee, scheduled, and completed in the time allocated to the same.



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3.1.6 Training & Development

To maintain high levels of maintenance quality, Nassau Cruise Port Limited is committed to conducting training and development courses for all maintenance employees.

3.1.7 CMMS – Computerized Maintenance Management Software

It is proposed to use a Computerized Maintenance Management Software (CMMS) system to manage all scheduled preventive maintenance and work orders on demand (reactive maintenance).

Like all CMMS programs, preventive and on-demand work orders are scheduled and tracked within the system. Locations, buildings, equipment, and vehicles are identified, inventoried, and associated with all work orders. Regularly scheduled preventive maintenance (PM) work orders are automatically generated and assigned to maintenance technicians based on criteria provided by department managers. On-demand work orders (or reactive maintenance) are generally one-off events like repairs and are generated by staff as needed. A work order remains open until it is closed by the assigned technician and is therefore held accountable. Work order history, maintenance trends, costs, inventory, and key performance indicators are monitored and reviewed using real-time reporting.

Maintenance personnel will be trained in this software to expedite its use and prompt implementation.

4.0 Records:

- List of approved training courses.
- Training Records
- Maintenance schedule/plan.
- Work orders.
- Inventories.
- KPIs