

PREPRODUCTION INITIATIVE-NELP PAINT GUN WASHER TEST PLAN

SITE: NAS NORTH ISLAND AND NS MAYPORT

1.0 OBJECTIVE

This test plan describes the process data collection procedure for the paint gun washer. The data will be used to determine the system's efficiency, effectiveness, overall performance, and ability to interface successfully with site operations. Recommendations for fleetwide purchase will be based on your input.

2.0 DESCRIPTION

Currently, paint guns are washed by hand. The guns are scrubbed with thinner using cleaning rags. The automated paint gun washer unit will reduce consumption of cleaning solvents, decrease hazardous waste disposal costs, and minimize operator exposure to potentially harmful solvents.

The purpose of the 1-year test period is to:

- Verify that the paint gun washer increases productivity by cleaning more guns in a shorter amount of time
- Determine the cost-effectiveness of the unit
- Analyze the unit's ability to successfully interface with site operations.

3.0 TEST PLAN

This test plan will be used to evaluate the effectiveness of the paint gun washer unit compared to current manual washing methods.

3.1 Approach

Quantitative and qualitative data will be acquired by completion of Table 1.

3.1.1 Instructions for Completing Table 1

- **Date:** Indicate dates the paint gun washer was used (month and day).
- **Item Use**
 - **Paint Guns Washed:** List paint guns washed for each date entered.
 - **Quantity:** Indicate the quantity or volume of paint guns washed for each date entered.

- **Frequency:** Indicate the frequency of usage on given date (*e.g.*, 1, 2, 3 times).
- **Quantity Solvent Used:** Indicate the quantity of solvent (*e.g.*, paint thinner) added and the date.
- **Time/Task:** Indicate the time required to complete one gun washing cycle, including loading and removing guns.
- **Waste Disposal:** Indicate the quantity of waste disposed of and the date.
- **Downtime/Month**
 - **Time Period:** Record time periods when the unit is not in use.
 - **Reason:** Explain whether downtime was due to repairs, maintenance, workload, or other factors.
- **Repair Time:** Indicate time required to repair the unit.
- **Repair Parts Required and Cost:** List repair parts required and their cost.
- **Consumables Ordered:** Record dates consumables were ordered, as well as the type, quantity, and cost.
- **Qualitative Assessment:** Provide a narrative evaluation of the cleaning abilities of the paint gun washer unit. Briefly discuss:
 - Efficiency of this method (*e.g.*, time and cost savings)
 - Ease of use and the unit's ability to successfully interface with site operations
 - Efficiency of waste disposal method
 - Overall satisfaction with the cleanliness of the parts (compared to parts washed by previous methods).

4.0 REPORTING

The data entry forms are a concise method of data collection. Forms should be completed on a daily basis. Data will be collected for 1 year. During this time, periodic status reports on the testing will be submitted to NAWCADLKE. The final report will include detailed results and observations, assess the efficiency and cost-effectiveness of the unit, and evaluate its ability to interface with site operations.

Table 1

Date	Item Use			Quantity Solvent Used	Time/Task	Waste Disposal	Downtime/Month		Repair Time	Repair Parts Required and Cost
	Paint Guns Washed	Quantity	Frequency				Time Period	Reason		

Consumables Ordered

Date	Type	Quantity	Cost

Qualitative Assessment*:

Please comment on the effectiveness and efficiency of the unit.

*Attach extra sheet if required.

