

# ANATOMY OF A PAINT JOB

## The Escalating Cost of Navy Ship Repair

### FFG Task Specification

# Scope

1.1 Title: Vertical Ladder; Replace

1.2 Location of Work:

1.2.1 **Void** (4-27-0-V)

# References

## 2.1 Standard Items

# Requirement

- 3.1 Remove existing and install new vertical ladder in 1.2
- 3.1.2 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

# 009-32 (New and Disturbed)

3.1.5 For touch-up, **disturbed**, and/or inaccessible areas (*clarified in 3.6*), the minimum surface preparation shall be that shown in tables **1** through **9**, except that an SSPC-SP 11 is acceptable for areas originally requiring a NACE 2/SSPC-SP 10 or NACE 5/SSPC-SP 12. *For submarines this shall be determined by inspection and agreed to by the SUPERVISOR.*

# 009-32 (New and Disturbed)

3.1.6 Although spot repair, partial preservation, and full preservation are different in the proportions of area being preserved, each shall meet the requirements stated in this document as if full preservation were to be accomplished. Terms are clarified in 3.6.

# 009-32 (New and Disturbed)

3.6.2.1 Touch-up is defined within this Standard Item **for surface ships** as preservation operations on cumulative surface areas less than one percent of the total area (e.g., bilge, tank, space, etc.) being preserved, with no individual area greater than 10 square feet. Included under touch-up operations are new and disturbed areas of less than 10 square feet. The **documentation** requirements of 3.7 and 3.8 are waived for these touch-up areas. The requirements of 3.10.1, 3.10.2, 3.10.6, 3.10.7, 3.10.8, and 3.10.10 shall be verified by the accomplishing activity as (I) inspections **for critical coated areas** and (V) inspections **for non-critical coated areas** prior to coating applications. This waiver does not apply to potable or feedwater tanks. |

# 009-32 (New and Disturbed)

3.6.3 Disturbed areas are defined as any surface that requires cleaning and/or painting due to existing paint finish being damaged in the accomplishment of work specified by the work item or task order.

# 009-32 (New and Disturbed)

3.6.3.2 The word "new" in "new and disturbed surfaces" refers to all material installed on the ship by the contractor regardless of source.

# 009-32 (New and Disturbed)

***3.7 The following ship structural surfaces are defined as critical coated areas:***

Voids - Steel and aluminum

# 009-32 (New and Disturbed)

3.10.1 For coatings, ***record*** ambient and substrate surface temperatures, relative humidity, and dew point from conditions on-site, in close proximity to the structure being coated, for all areas listed in Tables **1** through **9**, to verify that they meet the requirements of ***3.10.1.4***.

# 009-32 (New and Disturbed)

**3.10.1.4 For** areas listed in 3.7, ***coatings*** shall be applied only when the temperature of the prepared substrate is greater than 50 degrees Fahrenheit and a minimum of 5 degrees Fahrenheit above the dew point.

# 009-32 (New and Disturbed)

3.10.2 Accomplish degreasing/cleaning prior to surface preparation to ensure that the surface is free of contaminants, such as sea salts, rust, dust, mud, marine growth, grease, oil, and other petroleum products, in accordance with SSPC-SP 1 of 2.4.

# 009-32 (New and Disturbed)

3.10.6 **One** profile reading shall be taken for **every 200 square feet for** the first 1,000 square feet; for each additional 1,000 square feet, 2 profile readings shall be taken. Three (3) individual tapes result in one (1) profile reading. Profile readings shall be taken in accordance with Method C of 2.7, using profile tape suitable to read subject profile, i.e., **coarse** to extra-coarse plus.

\*"SURFACE PROFILE" (See 4.4)

# 009-32 (New and Disturbed)

4.4 The paragraphs referencing this note are considered an (I)(G) if the inspection/test is on a critical surface as listed in 3.7. If the inspection/test is not on a surface listed in 3.7, then the paragraph is considered an (I). These inspection point requirements also apply to buildup coats to obtain proper millage.

# 009-32 (New and Disturbed)

3.10.7 Following coating removal,  
accomplish conductivity ***or chloride***  
measurements for surfaces listed in 3.7.

# 009-32 (New and Disturbed)

- 3.10.8 Verify surface preparation for the coating systems specified in the work item/task order and Tables One through **9** are in accordance with 2.4 and 2.5.

# 009-32 (New and Disturbed)

- 3.10.10 Inspect each Prime, Intermediate, Stripe, Build, Tack, and Top Coat as follows:
  - 3.10.10.1 Accomplish DFT measurements
  - 3.10.10.2 Accomplish a visual holiday check
  - 3.10.10.3 Accomplish a visual inspection for surface cleanliness
  - 3.10.10.4 Accomplish a visual inspection for chloride contamination for areas listed in 3.7.

# 009-04 (I) or (I)(G) Inspection

- 3.7.1 (I) inspections require verification and documentation by a separate individual, other than the person who has accomplished the work, who is qualified as an inspector.
- 3.8.1 (G) is a symbol inserted in a Work Item to establish a point in the sequence of accomplishment of work at which time the SUPERVISOR shall be notified to permit observation of a specific test or inspection by the government.

# The Job

- This job requires a QP 1 certified contractor since it is defined as a critical coated area. SUPERVISOR confirmed via email
- Remove existing and install new ladder
- Accomplish the requirements for new and disturbed surfaces.

# The Job



# The Job



# The Job

This void is scheduled for full re-preservation in approximately one year

# Brief Void History

Void was last painted approximately 15  
years ago

# Why

Why install the ladder now?

Why require QP 1 certification?

Why consider this critical coat?

Why invoke 009-32?

Why incur the added cost?