

Amendment 0002  
Solicitation Number ONRBAA 14-003  
“Aluminum Alloy Corrosion Control and Prevention”

The Purpose of Amendment 0002 is to amend the BAA and respond to questions received prior to 14 January 2014.

BAA 14-003 is hereby amended as follows:

1. Questions and Answers are provided as follows:

**1. Question:**

In a typical 24 hour day, what is the maximum temperature that is encountered by the 5xxx alloy surface and for how long?

**Answer:**

In the Persian Gulf, deck temperatures can be as high as 240 degrees Fahrenheit during the mid-day period. In Norfolk VA deck temperatures have been recorded as high as 180F. The maximum temperatures are between 12:00 and 14:00 with the peak temperature at around 13:00.

During the summer months the period that deck temperatures are above 150F ranges from four to six hours on average.

**2. Question:**

For the temperature reduction specification, the coating is required to limit the temperature of the aluminum abstrate to a max temperature of 150F or 104F when subject to shipboard radiant heat. Can you define or provide any more information on the conditions of "shipboard radiant heat"? Is there is typical condition or any kind of test method to simulate this environment?

**Answer:**

a) The "shipboard radiant heat" is referring to direct sunlight and atmosphere exposure.

b) Standard accelerated test method: ASTM G154-Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

**3. Question:**

For the corrosion performance metric is there a required number of hours the coatings must pass the ASTM B117 salt fog testing?

**Answer:**

1000hrs of ASTM B117 testing is standard. Since ASTM B117 is a comparative test, a new coating is generally tested against the currently used baseline coating to determine the comparative coating performance.