

MISSISSIPPI DEPARTMENT OF TRANSPORTATION – BILOXI BRIDGE – UNITED STATES OF AMERICA

In **November 2002** the steel parts of the Back Bay Bascule Bridge over the Mississippi in Biloxi, were coated with **ZINGA**.

For the refurbishment of this bridge the Mississippi Department of Transportation (MDOT) has chosen for ZINGA, taking into account the corrosion control research of the US Army.



Biloxi, Back Bay Bascule Bridge (MDOT US 1-110)



ZINGA





Corrosion Prevention & Control Update

A Bulletin Dedicated to the

Establishment and Operation of an Aggressive Corrosion Prevention Control Program

1995. Battelle Corporation scientists updated a joint Battelle -National Institute of Standards 1978 report entitled "Economic Effects of Metallic Corrosion in the United States". In that update, it was estimated that corrosion of metal costs the United States economy almost \$300 billion per year. It wa also suggested that one-third these costs could be reduced by broader application of corrosion resistant materials and the application of best corrosion-related technical practices. The bottom line conclusion based on the current contract efforts and a decade of corrosion specific research and testing, is that the United States Army can save over 30% of its current corrosion related annual costs. This can be accomplished through continued aggressive implementation of recently adopted Army Material Commands (AMC) corrosion prevention co practices and application commercially available corre control commercially available corrosion protection technologies.

Extracted from the Fielded Fleet Corrosion Control Program Report, 1997

The purpose of the Corrosion Prevention & Control Update is to make important product information available to you about the approved commercial sources referred to in the referenced study. The data provides information about commercial vendors, which are approved and available for providing information and products. The vendor information, here in, is provided in alphabetical order, with no preference given or inferred. Each company participated in the Fielded Fleet Corrosion Control Program and was chosen as an approved vendor for corrosion products and applications. Commercial Vendor List

- Carwell Products Inc.
 275 cooper Avenue, Suite 105
 Tonawanda, NY 14150
 (716) 877-2363 or 1-800-856-6798
 Fax: (716) 877-2364
 POC: Barry O'Halloram/ Bill Balcom
 Bill@carwell.com
- <u>Sulzer Metco</u>
 1101 Prospect Avenue
 Westbury, NY 11590-0201
 (516) 338-2303
 Fax: (516) 338-2134
 POC: Peter Foy/Patty Cook
- Tafa Midwest Thermal Spray 2013 Marie Street Westland, MI 48185 (313) 729-2990
 Fax: (313) 729-2992 POC: Thomas Gross/Michael Poe

Vender List Continued.

 Zingametall Industriepark VENECO Rozenstraat, Belgium 09 385.68.81
 Fax: 09 385.58.69
 POC: Piet Van Riet

Vendor Products/Applications

Carwell Products, Inc.
Corrosion Inhibitor Spray (NSN 8030-01-389-1413) - This product has been approved for the inside of doors and wheel wells of trucks. Over spray of this product does not affect the infrared reflectance. Overall product performance was well above 30% in corrosion protection. Additionally, the movement of corroded hinges and rusted moving parts was restored to full operational condition with application of this product.

Sulzer Metco
Metallizing Spray System, Flame
Sprayed Zinc/Arc Sprayed Zinc
The performance of metallized spray
proved to be well above 30%
improvement in performance as a

improvement in performance as a corrosion resistant application. This product has been approved for use on the exterior of vehicles.

Tafa
Metallizing Spray System, Arc
Sprayed Zinc - The performance of
metallized spray proved to be well
above 30% improvement ip
performance as a corrosion resistant
application. This product has been

approved for use on the exterior of vehicles.

Zingametall
Zinc Rich Coating - The performance
of this zinc rich coating also proved
to be well above the 30%
improvement in corrosion
protection. This product has been
approved for use on the exterior of
vehicles.

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Points of Contact

United States

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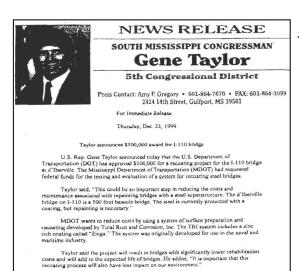
<u>IMMC</u>

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The "Corrosion Prevention and Control Update", issued in 1997, describes the US Army research to reduce the costs spent on anti-corrosion protection, with 30%. Included is a list of approved ▶ vendors, amongst which Zingametall. This approval is based on the tests that were performed by the US Army Tank Automotive Command (TACOM) in Hawaii in 1995. ZINGA had been selected from a large range of anti-corrosion protection products, together with only a few other products (no direct competitors).

Ref: US-AR-BR-TE-MDOT-EN-07/10/2008 2/4

www.zinga.eu



The DOT agency approving the project is the Federal Highway Administration.

In this press release of **23-12-1999**, Congressman Gene Taylor announced the **recoating of the bridge with ZINGA**. This bascule bridge is the first of all bridges over the Mississippi that will be coated with **ZINGA**: the start of an enormous project in the USA!

BEFORE APPLICATION



The application has successfully been done in **November 2002** in presence of Zingametall and the controlling organism SGS.









System:

ZINGA 2 x 75 μm DFT

(or 2 x 3 mill)

REFERENCES

Ref: US-AR-BR-TE-MDOT-EN-07/10/2008

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Below you can read the CAB report that was carried out 5 years later, on 15th November 2007.



COATING ADVIESBUREAU BVBA

Coating Consulting Office

'T HOGE 11, B-8200 BRUGGE (BELGIUM)

ASSESSMENT REPORT

SUBJECT: Back Bay Bridge - Assessment

SITE: Back Bay Bridge Biloxi,

Louisiana, USA

INSPECTION DATE: 5/11/2007

1. <u>SPECIFICATIONS</u>

1.1. Object description

Back Bay Bridge - Northern approach (section 4) of the I-110 bride in Biloxi, MS.

Estimated surface coated: 25.000 ft² (2.322,98m²)

1.2. System specifications

Surface preparation:
Shop:
Yard: SSPC - Roughness: Rz 2 to 3 mil



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3. <u>CONCLUSION</u>

The coating works executed on the Biloxi bridge in 2002 remain in a very good condition.

So far no beginning of corrosion was stated.

No accumulation of zinc salts was seen and the surfaces were equally dull grey. Pigeons are living on the bridge parts but no destructive influence was stated due to this aggression.

Below you can see pictures taken during the inspection on the 15th November 2007.





