



**ZINGA®**

Asset integrity for eternity.

## REFERENCES

REF: BR-EL-HU-PY-TE-ZU-  
Furnas Electricity Pylons – EN  
04-11-2024 – ZP0076

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### FURNAS Electricity Pylon – Serra do Mar, Brazil



ZINGA was applied on a highly corroded high tension power pylon of the electricity company **FURNAS**, in February 1999. The surface was manually prepared by metal brush, sand-paper and by degreasing with turpentine.

**Zingasolv** was used to clean the brushes and to dilute the **ZINGA** when necessary. Considering the aggressive area, 2 layers were applied with a DFT of 40 µm with an interval of 2 hours. The total surface was 332.31 m<sup>2</sup>. 5 Kg **ZINGA** pails were used covering 11 m<sup>2</sup>.

**ZINGA** was applied in an ambient condition of high humidity.

Adhesion tests gave a very positive result.

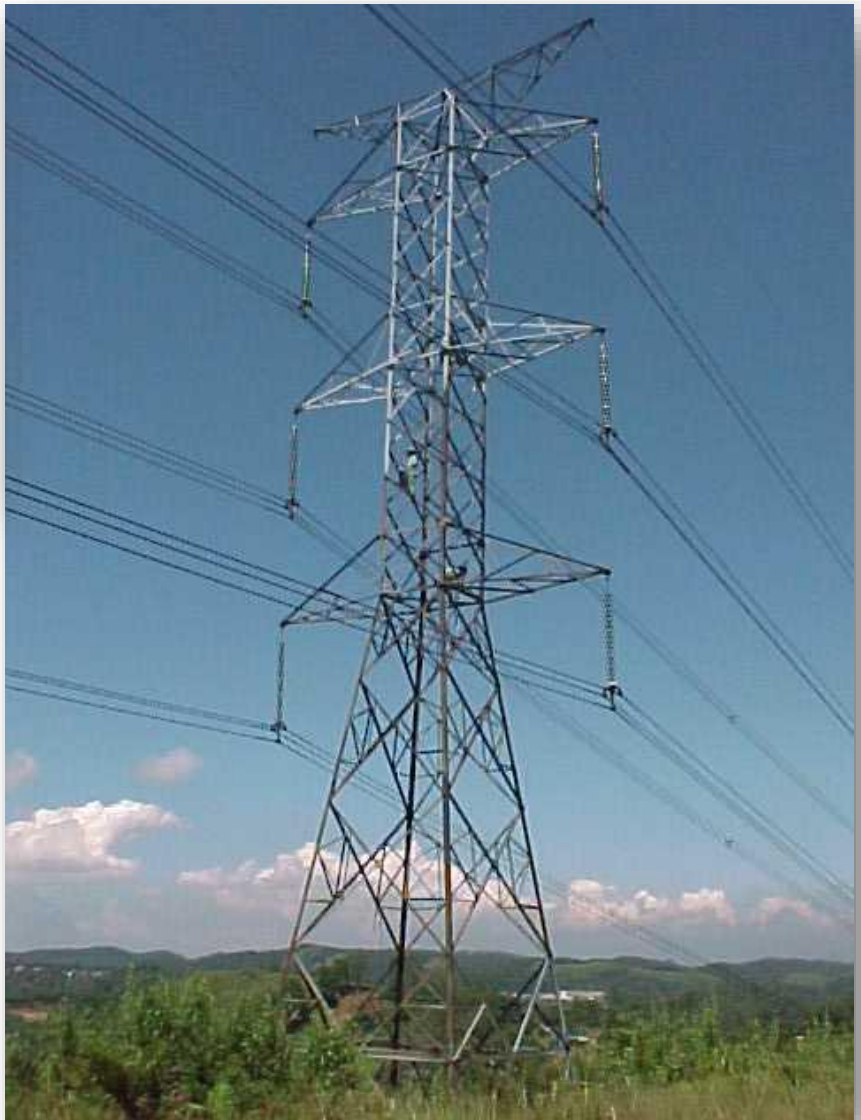


#### System:

Surface preparation:

Manual steel brush,  
sand-paper, degreasing

**ZINGA** 2 x 40 µm DFT





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### DIVISÃO DE MANUTENÇÃO ELETROMECANICA DE SÃO PAULO

## RELATÓRIO TÉCNICO

#### ASSUNTO:

Aplicação de ZINGA na torre 205 da  
LT 345 kV Ibiuna - Tijuco Preto circ. 1 e 2

Mogi das Cruzes, 24 de Abril de 2000

A MERCORP solicitou ao Departamento de Produção São Paulo (DRL.O), através da Divisão de Manutenção Eletromecânica (DMES.O), a cessão de uma estrutura com índice de corrosão bastante alto para, em caráter experimental, proceder a aplicação de ZINGA, produto da qual é distribuidora para o Brasil.

Em comum acordo foi estabelecido que o ideal seria uma estrutura de fácil acesso e que sua localização fosse próxima a uma região de grande poluição industrial. Escolhemos a torre 205 da LT Ibiuna – Tijuco Preto 1 e 2 na região da Serra do Mar, próxima a Indústria Química ELCLOR, em Rio Grande da Serra.

#### COMENTÁRIOS

ZINGA é um produto de aplicação bastante fácil, não requerendo uma limpeza muito rigorosa e, possibilitando que as condições ambientais de umidade não interfiram no seu desempenho.

O equipamento (Torre 205) utilizado para a aplicação de ZINGA está em perfeitas condições após 01 ano de sua aplicação. Somente duas peças que não sofreram nenhum tratamento de limpeza, justamente para se constatar até que ponto um determinado grau de limpeza influiria no comportamento do produto e, que estavam com corrosão bem adiantada, apresentam pequenos pontos de oxidação.

This is an extract from the inspection report issued by a division of **FURNAS** on 24 April 2000, one year after the application.

Free translation:

TECHNICAL REPORT

Application of ZINGA on tower 205 of LT 345 kV Ibiuna – Tijuco Preto circ. 1 & 2

The present report relates to the assignment to the Departamento de Produção São Paulo (DRL.O) through the Division of Electromechanical Maintenance (DMES.O) of an experimental application of ZINGA on a highly corroded structure.

A structure with easy access was chosen in an industrial environment with a high degree of pollution: the tower 205 of LT Ibiuna – Tijuco Preto 1&2 in the region of Serra do Mar, near to the Chemical Plant Elclor, in Rio Grande da Serra.

#### COMMENTS

ZINGA is a system with easy application not requiring a rigorous cleaning, for which humid ambience doesn't interfere in the accomplishment. One year after the application the project (Tower 205) remains in a perfection condition. Only 2 highly corroded pieces that intentionally weren't submitted to a surface preparation, are showing a few spots of oxidation: this was to verify in how far the cleaning would influence the behaviour of the product.





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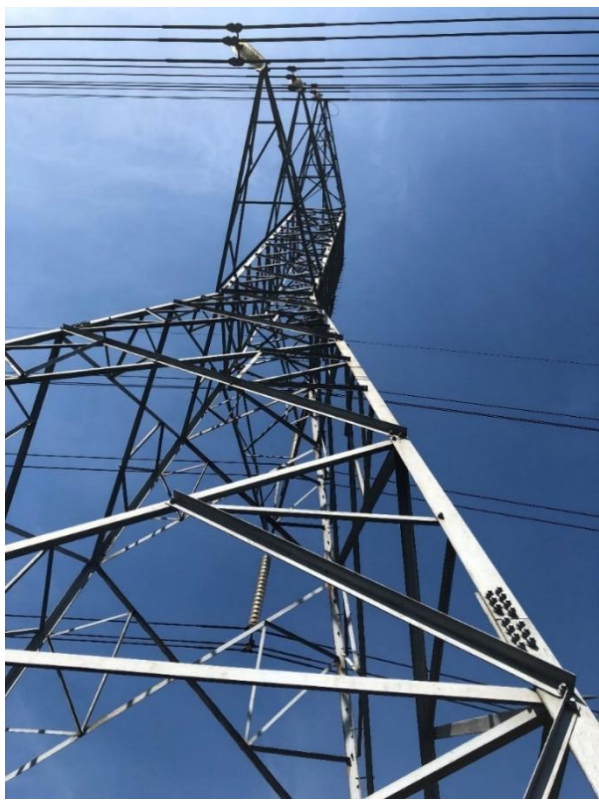
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20 years later, on 9 August 2019 **ZINGA BRAZIL** made a visual inspection on an unusual sunny day. The location is close to a village (Ribeirão Grande da Serra – SP, east of the City of São Paulo) on top of the Serra do Mar (Sea Mountains), a very rainy and foggy place. It is close to the chemical plant of **ELCHLOR** (Chlorine manufacturer). **ZINGA** is still in pristine condition and does not need to be reloaded.





25 years later, in March 2024, ZINGA BRAZIL made a new visual inspection. It was confirmed that the quality of the ZINGA film remains in excellent conditions, even after this long period in several conditions of humidity and temperature, ZINGA still and effectively protects the substrate against corrosion.



+ 25 years of performance  
ZINGA  
ASSET INTEGRITY FOR ETERNITY