

# VOLUTE PUMP INTERNAL LINING REPAIRED WITH CHEMICAL RESISTANT PROTECTIVE COATING

ID: 8557

Industry: Power

Customer Location: POWER PLANT RAS LAFFAN QATAR

Application: CEP-Centrifugal Pumps

Application Date: DECEMBER 2020

Substrate: CARBON STEEL

Products: \* BELZONA 1111 (SUPER METAL) AND BELZONA 4311 (MAGMA CR1) ,

## Problem

INTERNAL LINING WAS SEVERELY DAMAGED, GENERAL CORROSION ALL OVER THE SURFACE IS EVIDENT AND DEEP PITTING ON INLET SITTING AREA AND ON OUTLET FLANGE FACE



## Photograph Descriptions

- \* 1) APPEARANCE OF THE PUMP BEFORE BLASTING ,
- \* 2) PUMP AFTER BLASTING ,
- \* 3) DURING COATING APPLICATION ,
- \* 4) APPLICATION COMPLETE WITH BELZONA 4311 ,

## Application Situation

THE VOLUTE PUMP HAS BEEN RUNNING FOR 3 YEARS WITHOUT INTERRUPTION, RESULTING TO FAILURE OF EXISTING INTERNAL COATING

## Application Method

SURFACE PREPARATION BY GRIT BLASTING IS CARRIED OUT TO REMOVE RUSTS AND CORROSION RESIDUES AS WELL AS TO EXPOSE UNFORSEEN PITTING TO EVALUATE THE AMOUNT OF CAULKING MATERIAL TO BE USED. REBUILDING APPLICATION ON ALL EXPOSED PITTING TAKES PLACE AFTER BLASTING IS COMPLETED AND CURED FOR 2 HOURS. AFTER CURING, SWEEP BLASTING HAS BEEN CONDUCTED ALL OVER THE SURFACE WHICH INCLUDES THE SURFACE OF THE REBUILDING MATERIAL, FOLLOWED BY APPLICATION

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OF BELZONA 4311 CHEMICAL RESISTANT COATING IN TWO COAT SYSTEM.

## Belzona Facts

USING BELZONA CHEMICAL RESISTANT PRODUCTS PROVIDES LONGER LASTING PROTECTION, COST EFFECTIVE AND EASY TO APPLY. IT HAS BEEN PROVEN TO THIS COMPANY FOR SEVERAL YEARS AS ONLY BELZONA MATERIAL GIVES THE CLIENT A FULL SATISFACTION AND THE COST OF BELZONA REPAIR IS MORE COMPETITIVE THAN OTHER SOLUTIONS WHICH MAKES THE CLIENT HAPPIER CONSIDERING THAT THE PUMP WILL NOT BE REPLACED WITH NEW ONE WHICH WILL COST THEM THOUSANDS OF DOLLARS.

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