



## ELECTRICAL MACHINERY OR EQUIPMENT

### Electrical room and control cabin

Electrical rooms and control cabins have traditionally been made of carbon steel. This type of structure is often used in dusty, humid and harsh environments. In these conditions, carbon steel often suffers from severe external corrosion.

Because of its well-known corrosion resistance, stainless steel offers a solution for this type of structure. The cabins are used to control two pieces of equipment that transport iron ore at CVRD's facility at Tubarão Harbour.

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**LOCATION/ENVIRONMENT** VITÓRIA BRAZIL/OUTDOOR

**PRODUCT** STAINLESS STEEL TUBE

**FABRICATION PROCESS** CONFORMATION AND BOLTED ASSEMBLING

**GRADE** AISI 304 (1 TO 3 MM WALL THICKNESS)

**SURFACE** BRUSHED

**COMPETING MATERIAL** GALVANISED STRUCTURAL CARBON STEEL

**DATE OF COMPLETION** NOVEMBER 2006

**MANUFACTURING COMPANY** THYSSENKRUPP AND COMISA

**MATERIAL SUPPLIER** ACESITA

**SOURCE OF INFORMATION** NÚCLEO INOX

**REMARKS** STRUCTURAL COLUMNS AND BEAMS MADE OF 80 MM SQUARE TUBES (AISI 304, WALL THICKNESS OF 3 MM). TOTAL CONSUMPTION OF STAINLESS STEEL WAS 17 TONNES.