



**DAMPIER SALT (OPERATIONS) PTY LIMITED** INC IN W.A..  
A SUBSIDIARY OF DAMPIER SALT LIMITED

19<sup>th</sup> June 1990

**ELECTRICAL DEPARTMENT**

The electrical department of Dampier Salt Operations at Dampier were experiencing problems associated with high ambient temperatures inside a number of their motor control cubicles. The ratings on the fuses for the main switch at Pump Station Zero were appropriate for the temperatures up to 30<sup>o</sup>C. For every 5<sup>o</sup>C over this the rating for the fuse dropped by 100 amps. The temperatures experienced inside the main control cubicles were measured to be as high as 65<sup>o</sup>C. The cause of this high temperature was a combination of the high current of four pumps running and the outside temperature of the air. The motor cubicles in question was of aluminum construction and as such has the effect of a sweat box on hot days. It was decided to treat the outer surface for the motor control cubicles with an insulating paint to try and reduce the interior temperatures. This coating was applied in February 1990 and tests since have shown that in the area: that they were registering 65<sup>o</sup>C were now not getting above 46<sup>o</sup>C in similar operational and climatic conditions. The motor control cubicles became more comfortable to work in as the interior temperature dropped dramatically. As a result of this success it is planned to have all other motor control cubicle, whether they be constructed of breeze block, stainless steel or aluminum, coated with Insultec paint. Another advantage was the enhanced appearance of the buildings.



**BUILDING MAINTENANCE DEPARTMENT.**

We have been experiencing problems with high power usage to our Karratha houses, due mainly to extensive use of air conditioners. Two houses were selected as a trial for Insultec and both roofs were painted in December 1989. These houses have shown a slight decrease in power consumption for the summer period but will have to be tested over a longer period. Insultec being an acrylic membrane also solved another ongoing problem with water leaks. At 335 Wickeson Way, residence of mine manager, Mr. Neil Swan, no leaks were reported during the cyclone season 1989/90. INSULTEC has therefore proven an excellent sealant in addition to it's other benefits.

ALLAN CLIFTON  
BUILDING OFFICER

# SURFACE TEMPERATURE TESTING AT KARRATHA

## 20 DEGREE REDUCTION

Surface temperature gauges attached to metal- roofed houses with INSULTEC application in progress. Photographed at noon, 17 th December, 1990, with Ambient temperature at 38 degrees.



UNTREATED ROOF

60 DEGREES

WHITE  
COLORBOND  
PATIO ROOF

50 DEGREES

INSULTEC  
APPLIED ROOF

40 DEGREES