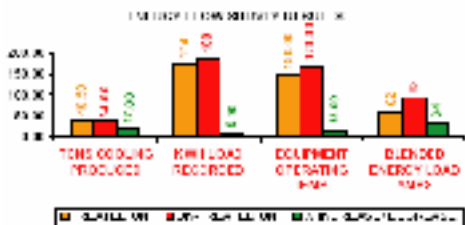




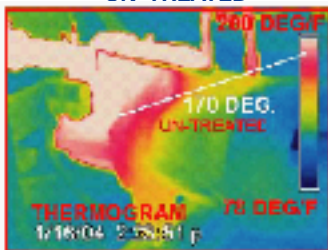
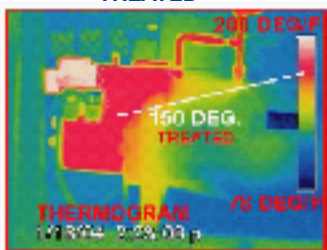
## D.O.E. / PINE RIDGE

Our survey indicated that your attempt to reduce refrigeration loads using **Compress Shield™** treatments appear to be having a positive effect in meeting that goal.



TREATED

UN-TREATED



TREATED LOAD 0.85 KWH/TON

UN-TREATED LOAD 1.11 KWH/TON

### Conclusions:

According to the data expressed in this report, it appears that the treated unit is in fact producing more cooling medium, at a lower amperage and reduced compressor operating temperature. Statistically these types of reductions should relate to some type of energy savings that could manifest themselves in actual dollar savings.

TRANE 130 TON CHILLER SYSTEM	TONS COOLING PRODUCED @ 5GPM (@ MFG. PUBLISHED FLOW OF 120GPM)	KWH LOAD PRODUCED IN 15 MINUTES @ 5GPM	BLENDED AMPERAGE LOAD @ TIME OF ANALYSIS	APPROXIMATE WATT LOAD @ TIME OF ANALYSIS	EQUIPMENT CASING SURFACE TEMP @ TIME OF ANALYSIS
UNTREATED	1.41 (34.8)	1.57	93	42,780	170
TREATED	1.69 (40.56)	1.45	62	28,520	150
DIFFERENCE	16.56%	-7.64%	-33.33%	-33.33%	-11.76%

Increase in Efficiency - Lower Operating Temp - Lower Amperage

On behalf of the United States Department of Energy, The State of Florida Energy Office and the United States Environmental Protection Agency,



Alexander E. Othmer  
CEA/CBA/NDE III