



Bally's Casino and Hotel

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Bally's Casino & Hotel in Tunica Mississippi was having trouble with their Air-Conditioning & Refrigeration Systems. Efficiency was down and maintenance costs were going up. Bally's was battling a multitude of problems: systems tripping off and on high head pressures, compressor failures, noise and general service problems.

The roof was black and in the summer, the heat on the roof exceeds 115 degrees, combined with high humidity makes it a harsh environment for the equipment and the maintenance staff. Initially, Bally's began by installing Compress Shield in replacement compressors. In a short time they noted the quieter running and a reduction in maintenance on the operation of compressors with Compress Shield, in fact not one of the Compress Shield treated compressors has failed to date. Then in October of 2001, Bally's began randomly installing it in compressors and systems that exhibited problems (i.e. noisy compressors, units that suffered repeated failures, refrigerated coolers and ice machines).

Noise Abatement

In the spring of 2001, Roy Childs mentioned that a Carrier 06E compressor had always been very noisy, so they put Compress Shield in it. About a week later they were in the area and realized that they couldn't even hear the compressor run/ They put the gauges on the unit and thoroughly inspected the system. The compressor was and still is operating perfectly.

During the spring of 2002, Bally's was receiving complaints from customers at the hotel about the noise of the units in their rooms. They installed Compress Shield and customer complaints vanished.

Refrigeration: Higher Efficiency

Last Spring Bally's decided to try Compress Shield in their coolers. There was a cooler that had a long tubing run. According to earliest recollection the lowest temperature the cooler had ever gotten was 52 Degrees F. and the other coolers would maintain 45 degrees F. Three days after installing Compress Shield they noted that the temperature on

the box with the long run had dropped to 37 degrees F. and the other boxes were running 35 degrees F. They now set the thermostats where they want the temperature and the compressors don't run continuously like they did before adding Compress Shield®.

Maintenance Problems and Preventing Failures

One A/C unit, in particular, suffered compressor failures annually in addition to the failures, the unit was a constant headache because it would trip on high head pressure and the maintenance staff would have to go on the roof and manually reset it. Last spring Bally's installed a compressor with Compress Shield in this system. To day, this particular unit has not given them any trouble.

Roy Childs and Carson Hoerl, the maintenance supervisor, tell the following story. On a Tuesday in late April, Bally's Casino maintenance received a call from Johnson Controls who told them one of the vents was blowing hot air and they suspected that a compressor had failed. It was not critical so they put the call in Roy's box. Roy was off Tuesday and Wednesday, when he returned Thursday he went up on the roof to check it. He found the compressor (a Copeland 6RK2-3500-TSK) running without oil or refrigerant. He shut it down and checked the low pressure switch. One of the maintenance staff had inadvertently wired in a high pressure switch instead of a low pressure switch. Therefore, when the oil and refrigerant leaked out the unit did not go off on low pressure. When the unit was installed it had Compress Shield® in it. Roy found the leak, repaired it, replaced the oil and charged the unit with refrigerant. Roy and Carson believe that the compressor ran for two days without oil or refrigerant and they credit the compressor not burning up to Compress Shield.

Increasing Capacity

This spring Bally's significantly increased their buffet line by adding large buffet tables for salad and fruit. Their ice machine could not keep up with demand and they had to import a great deal of ice every day. They decided to install Compress Shield® into the ice machine. Daily, they saw a difference in the ice production. After the third day the ice machine caught up with demand and eliminated the need to import ice.

General Comments

Systems with Compress Shield show discharge temperatures are significantly lower along with a lower amperage draw. Bally's electricity rate had gone up but their bill was lower.