FIELD STUDY SMARTORK

Location : WILSON PLAZA

606 N. CARANCAHUA

CORPUS CHRISTI, TX. 78476

October 21, 2010

Objective: To determine the amp reduction a SmarTork reel closer would have on an elevator door operator in comparison to a conventional door closer.

Procedure: Each closer was cycled four times with the highest peak amperage dropped on each and the remaining averaged . The following are the results of this test.

Door system: 42" bipart

Door operator: 24 Volt DC Mac Door Operator with 104 board

Conventional Reel Closer

Tension Lbs in open position			Т	ension Lbs in closed position
7.11 Lbs				6.5 Lbs
Peak Amps		mps		
Operations	1) 3.42	2) 3.84	3) 3.52	1
Total combined Peak Amps 10.77				
Average		3.59		
SmarTork Reel Closer				
Tension Lbs in open position				Tension Lbs in closed position

5.1 Lbs

6.5

Peak Amps

Operations 1) 3.27 2) 3.12 3) 3.4

Total combined Peak Amps9.79

Average 3.26

Average Cycles : 2878 (24 hr period).

2878 x 2 (seconds per cycle) = 5756 seconds

60 seconds x 60 minutes = 3600 seconds (1 hr)

5756 / 3600 = 1.59 hrs

SMARTORK PROVIDES 9.2% ENERGY SAVINGS PER CYCLE OF ELEVATOR DOOR OPERATOR

COMPLIES WITH ASME A17.1

COMPLIES WITHIN ASHRAE 90.1 GUIDELINES

Wilson Plaza is 16 stories with 4 commercial passenger elevators.

I Kelly Dean Marshall certify all testing, results and information in this report to be accurate and held true to the best of my understanding and knowledge, as it applies to the elevator industry and its' practices.

Kelly Dean Marshall

Authorized OSHA Construction Outreach Trainer # C 0039144 Authorized OSHA Disaster Site Trainer #TR0011589 NEIEP Instructor Elevator Technician