**Subject:** Engineering and Construction

**Number of words**: 550

**Number of sources**: 3

**Formatting style**: APA

Answer the following questions:

1. Research the 2005 fire at the Patrick Air Force Base Officers’ Club. Write a short description of the incident to include the cause of the fire, the amount of damage, and measures that could have been used to prevent the fire.

2. Material Storage and Handling.

a. What is the maximum allowable height for stacking bricks? What other requirements apply to stacked bricks?

b. What is the maximum allowable height for stacking lumber? What other requirements apply to stacked lumber?

c. What is the rated capacity of a ½ inch diameter Grade 80 alloy steel chain sling when used in a double leg bridle sling configuration at a 45° vertical angle?