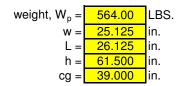
Project: LIVERMORE, CA 94550 page: 1 of 2

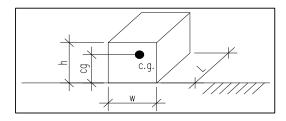
Date: ####### Engineer: XXX

# **FUTERA III 1000 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

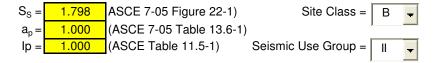
## **Slab on Grade Applications Only**

#### **Equipment Parameters:**





#### Seismic Parameters:



Seismic Design Category = **D** 

## Seismic Force:

Project: LIVERMORE, CA 94550

Date: ###### Engineer: XXX

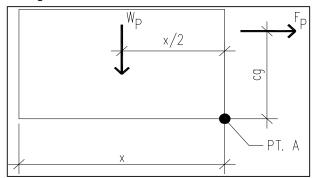
# **FUTERA III 1000 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

# **Design Anchorage Force:**

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 =$$
 **50.7** LBS.

# Overturning Resistance About Point A:



$$x = 25.13$$
 in.  $x = lesser of L or W$ 

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page:

$$M_{OT} = F_p^* cg =$$
 **659.1** LBS.-FT.

$$M_{RES} = W_p^* x/2 =$$
 LBS.-FT. **Uplift**

Vertical Acceleration: assume  $\rho = 1.0$ 

Ev = 
$$\rho^* Fp + 0.2^* S_{DS}^* W =$$
 **185.9** LBS. (ASCE Section 13.3.1)

$$R_{VNETUP} = (M_{OT}/(2*x))-(W_p/4)+(Ev/4) =$$
 LBS. No Uplfit

## Force Summary Per Corner:

#### Component Anchorage:

$$R_{HNET} =$$
 **50.7** LBS.  $R_{VNETUP} =$  **0.0** LBS.

#### Anchors Embedded in Concrete or CMU:

$$1.3^*R_p^*R_{HNET} =$$
 **164.8** LBS.   
  $1.3^*R_p^*R_{VNETUP} =$  **0.0** LBS.