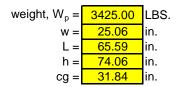
Project: LIVERMORE, CA 94550 page: 1 of 2

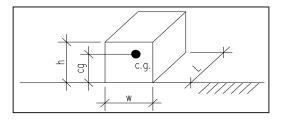
Date: <u>8/13/2012</u> Engineer: <u>XXX</u>

# **HYDROTHERM KN-26 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

### Slab on Grade Applications Only

## **Equipment Parameters:**





## Seismic Parameters:

Seismic Design Category = D

## Seismic Force:

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Date: 8/13/2012 Engineer: XXX

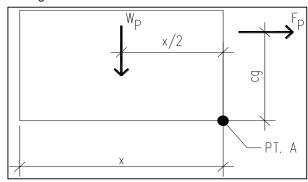
# **HYDROTHERM KN-26 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

## **Design Anchorage Force:**

Horizontal Shear Force Per Anchor:

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

## Overturning Resistance About Point A:



$$x = 25.06$$
 in.  $x = lesser of L or W$ 

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$$M_{OT} = F_p^* cg =$$
 3268.3 LBS.-FT.

$$M_{RES} = W_p^* x/2 =$$
 LBS.-FT. **OK, No Uplift**

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

## Force Summary Per Corner:

### Component Anchorage:

$$R_{HNET} =$$
 307.9 LBS.  $R_{VNETUP} =$  0.0 LBS.

## Anchors Embedded in Concrete or CMU:

$$1.3^*R_p^*R_{HNET} =$$
 **1000.7** LBS.   
  $1.3^*R_p^*R_{VNETUP} =$  **0.0** LBS.