

WALL P7, P4, etc. what is the  
Relationship to the Spent fuel pool?  
 Any UP ?  
 (column # 17 - 23)  
 (Column P - W)

Shear Walls						
Item	SSE	OBE Allowable (Working Stress)	SSE	SSE Allowable (Ultimate Strength)	OBE	OBE Allowable (Working Stress)
Maximum Out of Plane Conc. Shear Stress	70 psi Shear Wall P7	70 psi	77 psi Shear Wall P4	108 psi	64.8 psi Shear Wall P4	70 psi
Maximum Out of Plane Moment Per 1" Width	28.578 k-in. Shear Wall P8A	34 k-in.	30 k-in. Shear Wall P3	66.15 k-in.	Shear Wall P3*	27 k-in.
Maximum In-Plane Shear Stress	68 psi Shear Wall P10C	70 psi	SSE vs. SSE envelope d by SSE vs. OBE	?	OBE vs. OBE enveloped by SSE vs. OBE	?
Maximum In-Plane Moment	1,073,150 k-in. Shear Wall P3	1,097,317 k-in.	SSE vs. SSE envelope d by SSE vs. OBE	?	OBE vs. OBE enveloped by SSE vs. OBE	?
Maximum Axial Load Per Ft. of Wall	68.86 kips Shear Wall P4	96 kips	314 kips Shear Wall P11	345 kips	230 kips Shear Wall P11	255.36 kips

\*SSE Max. Moment - 30 k-in per in./OBE Working Stress Allowable Moment - 27 k-in. per in. (IR= 1.111). The SSE load case was subsequently evaluated independently and the satisfactory results are tabulated above. Based on the analysis and the results tabulated in Attachment 51 of the ZION001-CALC-002, SSE forces and stresses are larger than OBE; therefore by comparison, the wall is acceptable under OBE conditions.

c. KNES Calculation No. 36675-05 (Rev.01): Zion Bridge Structural Calculations

Summary: This analysis evaluates the crane structural steel member stresses and deflections and demonstrates that they meet the NOG-1-2004 Section 4300 design criteria, along with the buckling requirements.

NOT Acceptable. Re-Analysis is needed.