






Potential Structural Improvements to
Administrative Building
(based on Seismic Assessment)

Municipal Water District of Orange County

Staff Recommendation

	Work Items	Rough Order of Magnitude Cost
At minimum: Complete work items to achieve Life Safety (3-C) Level for Newport-Inglewood (extreme) event.	a,b,c,f	\$300,000
 Recommend: Complete work items to achieve Damage Control (2-B) Level for San Andreas (reduced) event	a,b,c,d,f	\$500,000

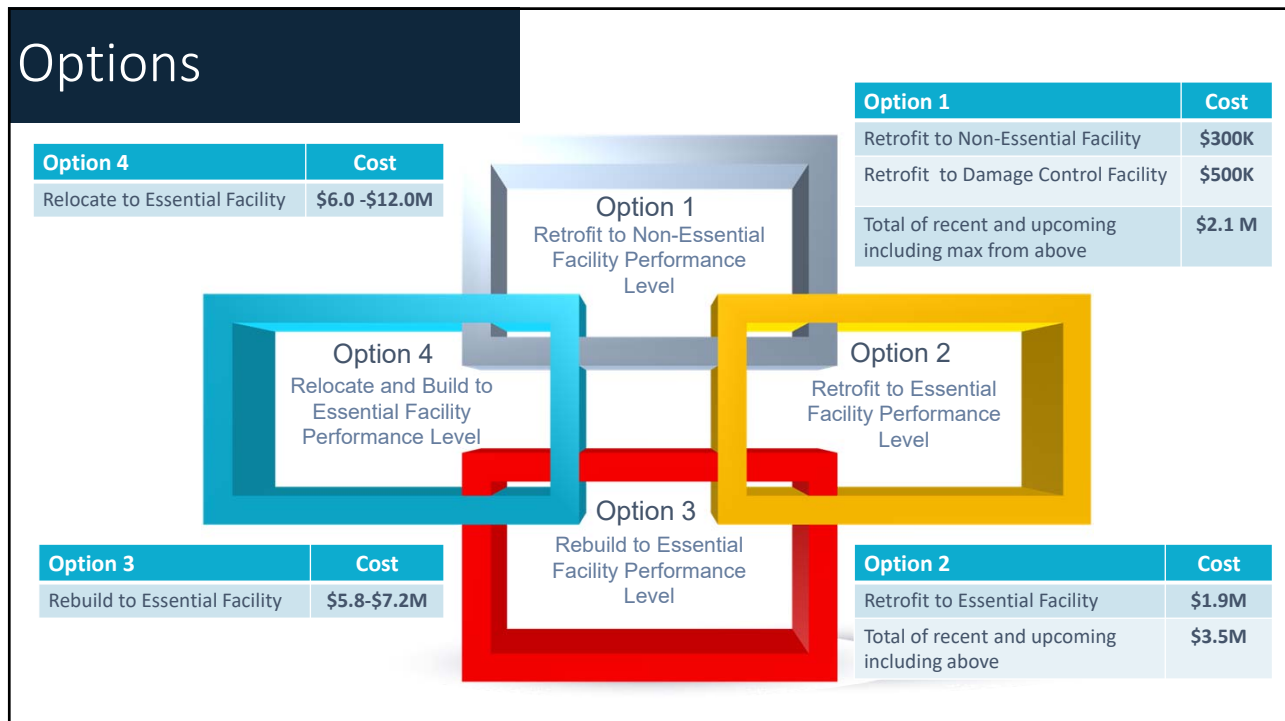
Staff recommends the higher level of investment to ensure that the building would perform at or better than a Life Safety performance level and moving up to a Damage Control performance level.



ASCE 41-13 / IDS		Target Building Performance Level				
		← Increasing Life Safety & Continued Operations			← Increasing Life Safety	
Example Event, Event Type, (Building Type)	Operational (1-A)	Immediate Occupancy (1-B)	Damage Control (2-B)	Life Safety (3-C)	Reduced Safety (4-D)	Collapse Prevention (5-D)
Structure Condition (Based on pga at site)	Very little damage, equipment operable	Building remains safe, only minor repairs, negligible N-S damage	Building returns to function quicker, negligible N-S damage	Structure is stable, but significantly damaged, N-S Overturned	Significant Damage, limited ability to resist aftershocks, Significant N-S damage	Building barely Standing, Likely Significant N-S damage
Newport-Ingle. M7.4 (Extreme) .79	**	\$1.9 Million a-f	\$1.9 Million a-f	\$300,000 a,b,c,f	\$200,000 a,b,c	\$100,000 a,b
Compton (Extreme) .56	**	\$1.9 Million a-f	\$1.9 Million a-f	\$200,000 a,b,f	\$100,000 a,b	\$100,000 a,b
San Andreas (Reduced) .42	**	\$1.9 Million a-f	\$500,000 a-d, f	\$200,000 a,b,f	\$100,000 a,b	\$40,000 a
20% in 50 yrs (Reduced) .30		\$1.9 Million a-f	\$200,000 a,b,f	\$140,000 a,f	\$0	\$0
50% in 50 yrs, (Frequent) .20		\$300,000 a,b,c,f	\$200,000 a,b,c	\$140,000 a,f	\$0	\$0

↑ Increasing Damage Potential

** Approaches Building Replacement Cost



Committee Recommendation #1

- 1 Committee member supported moving forward only up to Life-Safety option (\$300,000)
 - 2 Committee Members supported the higher Damage Control option (\$500,000)
- Staff continues to Recommend the Damage Control option (\$500,000)

Committee Recommendation #2

- Committee Recommended further discussions at the Board meeting on potential relocation
- Staff recommends concluding discussions today

