

**Graef, Anhalt, Schloemer
& Associates, Inc.**

Engineers & Scientists

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December 14, 2006

Mr. Chuck Ward
Milwaukee County
Department of Parks, Recreation and Culture
9480 West Watertown Plank Road
Wauwatosa, WI 53226-3560

Subject: Mitchell Park Domes
Structural Review

Dear: Mr. Ward:

Per Mr. Wilson's request, Graef, Anhalt, Schloemer & Associates, Inc. (GASAI) has completed a limited visual review of the structural concrete framing of the Mitchell Park Domes on Wednesday, December 6, 2006. The purpose of the review was to observe any potential structural damage that may have occurred as a result of an explosion which occurred earlier that day at the Falk Corporation, located approximately a half mile northwest of the Mitchell Park Domes.

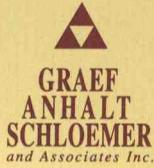
Our on-site review consisted of walking around the inside perimeter of each dome, on the maintenance catwalk at the base of the concrete frame, and visually observing any frame displacements or abnormal concrete cracking. Binoculars were not used to closely examine any parts of the concrete frame. The inside of the Transitional Greenhouse was also visually reviewed.

From this near at grade position, there were no unusual concrete frame displacements observed in any of the domes, and no concrete cracking was observed that was noticeably different than that observed during previous Show Dome inspections. There was also no apparent damage observed in the Transitional Greenhouse. No readily apparent new wire glass breakage was observed in any of the domes. Only one broken plate glass window was observed in the lobby area.

A more detailed investigation of each dome could be completed using binoculars, to closely inspect each concrete frame member and each piece of glass. This work could be completed at the following proposed three levels of effort:

Option 1: Each structural concrete member would be closely inspected for *structural integrity*. This review would take approximately 8 hours per dome, at a fee of approximately \$1,000 per dome.

Option 2: Each structural concrete member would be closely inspected for *structural integrity*, and all 3,180+/- pieces of *glass* in each dome would be inspected to confirm if any were *in danger of falling out*. This review would take approximately 16 hours per dome, at a fee of approximately \$2,000 per dome.



Option 3: Each structural concrete member would be closely inspected for *structural integrity*, and all glass would be inspected to *confirm if any pieces are damaged*. This information *would be compared* to the distressed concrete and damaged glass which was observed and documented in the Show Dome only, in September and October of this year. This work would take approximately 40 to 60 hours at a fee of approximately \$6,000 for the Show Dome.

Since the Arid and Tropical Domes were not inspected and documented by GASAI this year, this level of effort would not provide any meaningful comparisons to previous condition. The more detailed inspection could still be performed at a cost of approximately \$5,000 per dome for these two domes.

Please feel free to contact John Goetter (414-266-9130) or myself (414-266-9066) with any questions regarding this review or additional inspection services.

Sincerely,

**GRAEF, ANHALT, SCHLOEMER
& Associates, Inc**

A handwritten signature in black ink that reads "Mark J. Rapant / ken". The signature is written in a cursive, flowing style.

Mark J. Rapant, P.E., AIA
Project Manager

MJR:kcn

cc: Sue Black – Department of Parks, Recreation and Culture
Walter Wilson – Department of Transportation and Public Works
John Goetter - GASAI