

Gus Sirakis

From: Krzykowski, Claire [ckrzykow@panynj.gov] on behalf of Bhol, Saroj [sbhol@panynj.gov]
Sent: Tuesday, October 31, 2006 11:24 AM
To: Fatma Amer; Passeri, Carl; Palmieri, Mario; Vadi, Hamir; angelo.arzano@som.com; carl.galioto@som.com; Gus Sirakis
Cc: Lombardi, Frank; Zipf, Peter; Lin, C. John
Subject: MINUTES OF MEETING 10/5/06
Attachments: 10-5 MS.pdf

Attached are the minutes of the October 5, 2006 meeting.

<<10-5 MS.pdf>>



THE PORT AUTHORITY OF NY & NJ

Engineering Department

MEETING SUMMARY

Date of Meeting: October 5, 2006
Location: NYC Department of Buildings, 280 Broadway, New York
Attendees: See Attached Attendance Sheet
Subject: World Trade Center-Freedom Tower
Purpose: Discuss with the Department of Buildings (DOB) the Means of Egress and Code compliance of Freedom Tower

The following is a summary of the meeting at the Department of Buildings on October 5, 2006

1. The architects for the project, Skidmore, Owings & Merrill (SOM) presented the overall design of the tower including site plan, sections, and exterior building images.
2. The presentation focused on key recommendations of the NIST WTC report and demonstrated how the project will take these recommendations into consideration in the design of the building. Examples of the recommendations being implemented are: design of building structure to resist progressive collapse; a reinforced concrete core protecting egress stairs and elevators; improved density and adhesive/cohesive strength for sprayed on fireproofing; redundant risers for sprinkler system and the use of a protected elevator for emergency responders.
3. SOM presented the typical floor egress that demonstrates compliance with the New York City Building Code and increased stair separation beyond the code to comply with the more stringent requirement of the International Building Code.
4. The presentation defined the floors being organized with perimeter office space and a central corridor within the core that is separated by smoke stop doors from the office occupancy and compartmentalized to provide a queuing vestibule for each stair. The stairs are designed to be wider than required by code and will have redundant means to reach the point of discharge at the street via a protected transfer corridor above the building lobby.
5. SOM presented the Emergency Access Core, a concept by which a center element of the building core provides an independent means of emergency responder ingress and supervised evacuation of the handicapped and/or injured by emergency workers. This Emergency Access Core will include a protected Emergency Responder Elevator that is normally used as a service car but under special conditions can be switched to emergency use. Under this condition, the elevator is employed in conjunction with a stair that on the office floors is dedicated to emergency responder use.

*Gateway 3
100 Mulberry Street
Newark, NJ 07102*



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6. There are Assembly Occupancies at the top of the building that includes an observation deck and a two level restaurant. In the egress calculations, the exit capacity from the observation deck and the restaurant floor is currently based on the 2 exit stairs that run for the full height of the building and a supplemental stair that runs from these floors down to a floor below. Although there is a third stair in the building that runs the full height, it is provided for the firemen's use in emergency and is not counted as an exit. The DOB indicated that since the occupant load on the observation deck and the restaurant is greater than 500, the code requires 3 independent stairs from those floors all the way down. It was agreed that the stair that is for firemen's use could be counted as an exit from those floors. Therefore, the Assembly Occupancies will have three stairs for egress satisfying the egress requirements and also a supplemental vertical exit for accelerated evacuation of the floor. SOM will revise the egress calculations accordingly.

Saroj Bhoi, P.E.
Manager, Design Standards
Quality Assurance Division
The Port Authority of NY & NJ

cc: All attendees



RECORD OF ATTENDANCE AT MEETINGS
280 BROADWAY, 7TH FLOOR
NEW YORK, NY 10007

DATE: October 5, 2006

SUBJECT: Freedom Tower Egress

NAME	TITLE	REPRESENTING	PHONE #	FAX #	E-MAIL
Fatma Amer	Deputy Commissioner	DOB	(212) 566-3248		fatma.amer@nyc.gov
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ANGELO ARZANO	Architect	SOM	212-298-9828		ANGELO.ARZANO@SOM.COM
Carl Galisto	Partner	SOM	212 298 9747		carl.galist@som.com
Gus Sirakis	Project Engineer	DOB	(212) 566-3810	(212) 566-3796	CONSTADINIOS@BUILDING.NYC.GOV
Tom					

Gus Sirakis

From: Fatma Amer
Sent: Sunday, November 05, 2006 4:09 PM
To: Bhol, Saroj; Passeri, Carl; Palmieri, Mario; Vadi, Hamir; angelo.arzano@som.com; carl.galioto@som.com; Gus Sirakis
Cc: Lombardi, Frank; Zipf, Peter; Lin, C. John
Subject: RE: MINUTES OF MEETING 10/5/06

Saroj, I am in agreement with the minutes. However, I don't recall a specific discussion outlining the compliance with the NIST report except for the alternate sprinkler risers. In particular, I am interested to know the issue regarding progressive collapse. I know that you have the right to present me only with issues that may require code interpretation, but I would appreciate it if you can clarify this issue for me. Thanks a lot

From: Krzykowski, Claire on behalf of Bhol, Saroj
Sent: Tue 10/31/2006 10:23 AM
To: Fatma Amer; Passeri, Carl; Palmieri, Mario; Vadi, Hamir; angelo.arzano@som.com; carl.galioto@som.com; Gus Sirakis
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